Concord

ARCHITECTURAL AND SPECIFICATION LIGHTING CATALOGUE

2018

by **FEILO SYLVANIA**

FEILO SYLVANIA

Formed in January 2016, Feilo Sylvania is owned by Shanghai Feilo Acoustics Co., Ltd, which is principally engaged in the manufacture and distribution of lighting equipment. Headquartered in Shanghai, Shanghai Feilo Acoustics Co Ltd was founded in 1984 and is China's first joint-stock company (SH 600651). The company reorganised its M&A on a large scale in 2014 and became a joint enterprise comprising companies including Shanghai Yaming Lighting Co Ltd, Beijing Shen'an Group as well as Shanghai Sunlight Enterprise Co Ltd. With the acquisition of Havells Sylvania, Feilo has gained manufacturing bases, logistics centres, R&D technology centres around the world, as well as market access in 48 countries.

Feilo Sylvania is a leading, full-spectrum provider of professional and architectural lighting solutions. Built on over a century of expertise in lamps and luminaires, Feilo Sylvania supplies internationally state-of-the-art products and systems to the public, commercial and private sectors. Feilo Sylvania strives to deliver the finest products, service and consulting possible. All over the world, people rely on group business divisions: Concord and Sylvania, for top quality, energy-efficient solutions to suit their individual lighting needs.

Our Brands

Lamps

SYLVANIA

The heritage and broad spectrum of products makes Sylvania lamps one of the most respected lighting brands in the world. It has manufacturing and research centres across the globe.

Luminaires

Concord

One of Europe's premium architectural lighting brands with an emphasis on technical performance and aesthetic form. Focussed on meeting the needs of lighting specifiers

SYLVANIA

Sylvania offers a comprehensive portfolio of attractive and competitively priced luminaires for commerical, retail and industrial applications.

Eldon House, U.K.

Product Highlights

Feilo Sylvania Group brands, Concord and Sylvania have been innovating in lighting for nearly a century. It is our aim continue this for another century and beyond.
Here are the latest additions to our 2018 specification range which embrace the quality and technology we design and manufacture into our products.

Beacon Muse Tune

Beacon Muse Tune combines colour tuning from 2100k to 4300k with beam angle control from 8 deg to 55 deg offering unique flexibility in creating the desired effects

Location: Spotlights

Tide

Tide is a linear track mounted or recessed luminaire for wall washing using asymmetric lens or floor lighting with symmetric beam - the perfect spotlight partner

Location: Spotlights

Curvelyte

Curvelyte is a slimline stylish pendant luminaire designed to achieve direct / indirect lighting from a discreet luminaire perfect for meeting rooms and circulation areas

Location: Surface & Suspended

Kometa LED

Kometa LED provides a vital design tool by combining ambient lighting with downlighting in a simple stylish luminaire with efficiency up to 99lm/w

Location: Downlights

Colossal

Colossal is designed to compliment any interior surface mounted or as a pendant and is beautiful to look with an output of 3,800 lumens and 120lm/w efficacy

Location: Ambient Decorative

SylBay

SylBay LED is an efficient highbay range delivering high up to 37,700lm and high efficiency with up to 140lm/w with wide and aisle versions

Location: Industrial

RANA LED Custom

Allows design of tailor made luminaires for any ceiling type. Available with 3 choices of diffuser and 11 different light engines upto 7,800lm

Location: Recessed Modular

SylSmart Controls

SylSmart-enabled luminaires deliver the most advanced lighting control solution to help you maximise energy savings and user comfort, without the drawbacks of traditional controls

Location: Sylsmart

New Upgraded Efficient Performance

- Officelyte Concave up to 148lm/w
- Mini Continuum II up to 126lm/w
- Beacon Muse II up to 20% power saving
- Beacon / Beacon Accent up to 20% power saving
- Ascent 100 II up to 144lm/w
- Myriad / Myriad Deco up to 117lm/w
- Glace II up to 99lm/w
- Brio II / Sterling II / Monitor II up to 25% power saving

Contents

Recessed Modular
Pages 14 - 43

Officelyte Concave
Page 18

Officelyte Linear
Page 19

Officelyte Classic
Page 20

Lytepanel II
Page 23

SylLab
Page 27

RANA LED Custom
Page 31

Start LED Panel
Gen 4
Page 41

Surface & Suspended
Pages 44 - 79

Curvelyte
Page 47

Mini Continuum II
Page 51

Lytepanel II
Page 58

Unity II
Page 61

Ovation 65
Page 67

DeltaWing LED
Page 75

Spotlights
Pages 80 - 143

Tide
Page 83

Beacon Muse Tune
Page 89

Beacon Tune
Page 93

Beacon Projector
Page 97

Beacon XL Muse
Page 103

Beacon Muse II
Page 107

Beacon XXL
Page 111

Beacon XL Accent
/ Beacon XL
Page 117

Beacon Accent II
Page 125

Beacon II
Page 129

Beacon Minor II &
Major II
Page 134

Beacon Wallwash
LED
Page 141

Track
Pages 144 - 169

Lytespan 1
Page 147

Lytespan 3
Page 155

Lytebeam
Page 161

Universal
Suspensions
Page 165

Lytespan 3 LED
Emergency
Page 168

Lytebeam LED
Emergency
Page 169

Downlights
Pages 170 - 203

Ascent 150 II
Page 173

Ascent 100 II
Page 183

Ascent 50
Page 193

Kometa LED
Page 197

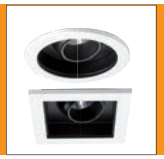
Beacon Recessed
Adjustable
Page 201

Accent Downlights

Pages 204 - 235

Myriad V
Page 207

Myriad Deco
Page 210


Myriad Adjustable
Page 221

Ocullo LED
Page 227

Signo LED
Page 231

Pendant

Pages 236 - 253

Glace
Page 239

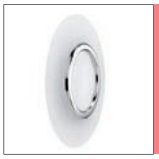
Myriad V
Page 243

InVerto
Page 247

Nephos V2
Page 251

Ambient Decorative

Pages 254 - 281

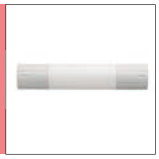

Glace II
Page 257

Colossal
Page 261

Cassini II
Page 265

Giotto LED
Page 269

Lumistrip
Page 273


Elite
Page 280

Weatherproof

Pages 282 - 295

Sylproof Tubular LED
Page 289

Sylproof Superia & Hydroproof LED G3
Page 293

Industrial

Pages 296 - 319

Syl-LIne
Page 299

HSXG2 Retrofit
Page 307

HSX Syl-Line
Page 311

Sylbay
Page 315

Sportsbay
Page 319

Emergency Lighting

Pages 320 - 327

Route LED II
Page 324

Syl Safe - Recessed/Flush
Page 326

Syl Safe - Wall Mounted
Page 326

Syl Safe - IP65 M3
Page 327

Syl Safe - Twin LED projector
Page 327

Contents

Exterior Surface
Pages 328 - 343

Brio II
Page 332

Sterling II
Page 335

Monitor II
Page 336

InVerto
Page 340

SylSmart (intelligent lighting control)
Pages 344 - 363

Sylsmart Connected Building
Page 346

Sylsmart Standalone Scene Setting
Page 363

Lighting Controls
Pages 364 - 381

Integrated controls within luminaires
Page 369

Lighting Control Modules
Page 370

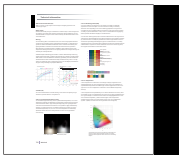
Colour Changing Lighting Controls
Page 372

DIN-rail controls for Dali systems
Page 374

OriDIM Small Room Controls
Page 375

Stand Alone energy saving controls
Page 381

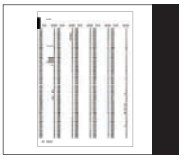
Technical
Pages 382 - 399



Page 382

Specifications and Terms & Conditions of sale
Pages 400 - 403

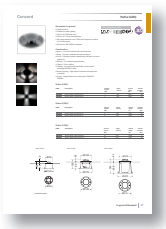
Index
Pages 404



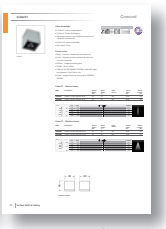
Architectural Exterior Lighting

For full details on Concord Architectural Lighting - please refer to CAT1428

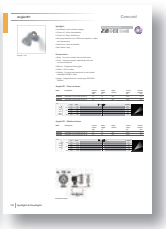
CAT1428



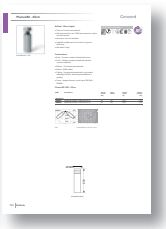
Inground & Inground Linear



Recessed / Surface Wall & Ceiling



Spotlights & Floodlights



Bollards & Lanterns

Also available from Feilo Sylvania

Sylvania Contractor Guide CAT0750

Sylvania EVO LED lamps and fixtures CAT6495

Leeds Art Gallery, U.K.

We are recognised as industry leaders

reddot award 2016
winner lighting design

2013

Concord Glace **Winner** – Lighting Design Awards

Concord Beacon Projector **Finalist** – Lighting Design Awards

Sylvania PanelLED **Finalist** – The Electrical industry awards

2014

Concord Officelyte LED incorporating SylSmart Control **Winner** – Lighting Design Awards

Manufacturer of the Year **Finalist** – Lighting Design Awards

2015

Concord Officelyte LED incorporating SylSmart Control **Winner** – Energy Managers Awards

2016

SylSmart Control - **Commended** – LUX Middle East Awards

Sylcone Retro **Winner** – RedDot Awards

Lumiance Insaver II - **Shortlisted** – Lux Awards

SylSmart Control **Finalist** – Energy Awards

2017

Smart Lighting **Shortlisted** – Lighting Design Awards

Concord is Made in the U.K. in our Newhaven factory

Made In Europe

Feilo Sylvania is proud of its strong manufacturing heritage in Europe. For over 100 years, group brands: Concord and Sylvania have manufactured lamps and luminaires in Germany, France and the UK. These centres of excellence are our foundation, ensuring innovative design, development and production are aligned with the ever changing requirements of this dynamic marketplace

- **Newhaven (UK):** Concord and Sylvania
- **Saint-Etienne (France)**: Sylvania luminaires
- **Erlangen (Germany):** Sylvania Lamps and Luminaires

Certifications

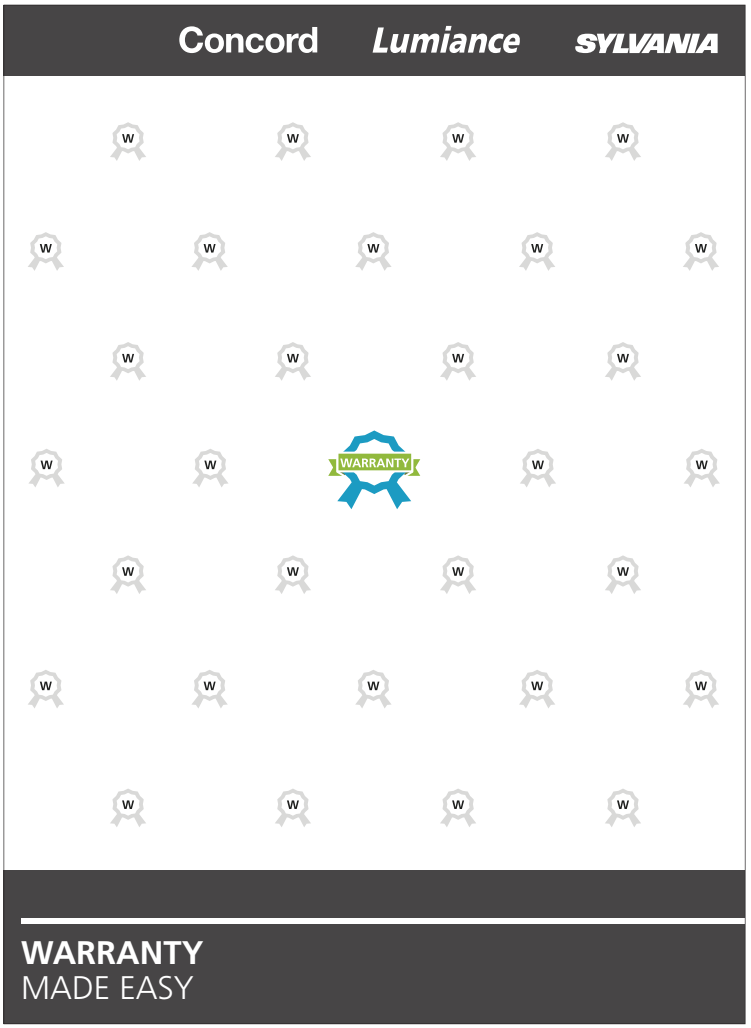
All our Feilo Sylvania factories have received ISO 9001 certification from authorized certification bodies.

Warranty

At Feilo Sylvania, we pride ourselves on the quality of our products. An LED product warranty of upto 5 years is available linked to LED rated life and subject to conditions. e.g 50,000hrs = 5 years, 30,000hrs = 3 years. Please follow the link to our website for more information http://www.feilosylvania.com/en-gb/warranty/warranties

LED LUMINAIRES: 1 YEAR OF WARRANTY PER 10,000 HOURS PREDICTED LIFETIME (UP TO 5 YEARS WARRANTY):

- No need to register, your invoice / proof of purchase is all you need
- No cap on maximum LED burning hours per year
- Traditional light source luminaires: 2 years of warranty



Exploring the catalogue

All pages follow a similar format, making it easier for you to identify the information you require quickly. Generally, the page format will include the information detailed below:

1 **Chapter colour code**

2 **Brand**
Concord, Lumiance or Sylvania

3 **Product name**

4 **Product image**

5 **Product features**

6 **Light source included**
Will inform if the light source is included on all the range, on selected items or not included

7 **Product icons / symbols**
Please refer to Icons & symbols guide at the back of the catalogue for more information

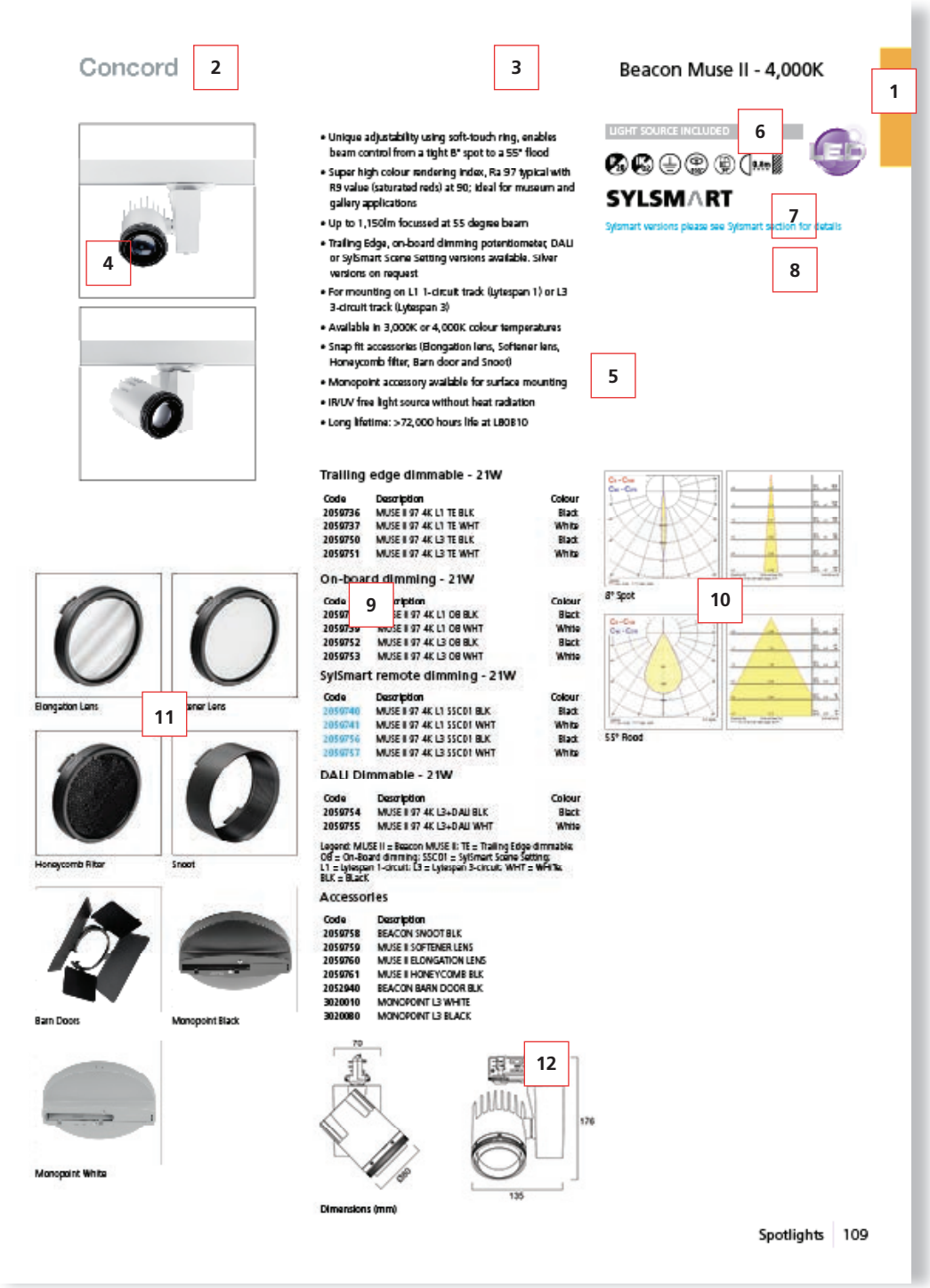
8 **Lamp information**
Including wattages, lamp base and lumens output (if applicable)

9 **Ordering guide**

10 **Photometric data and related information**

11 **Accessories or further product information**

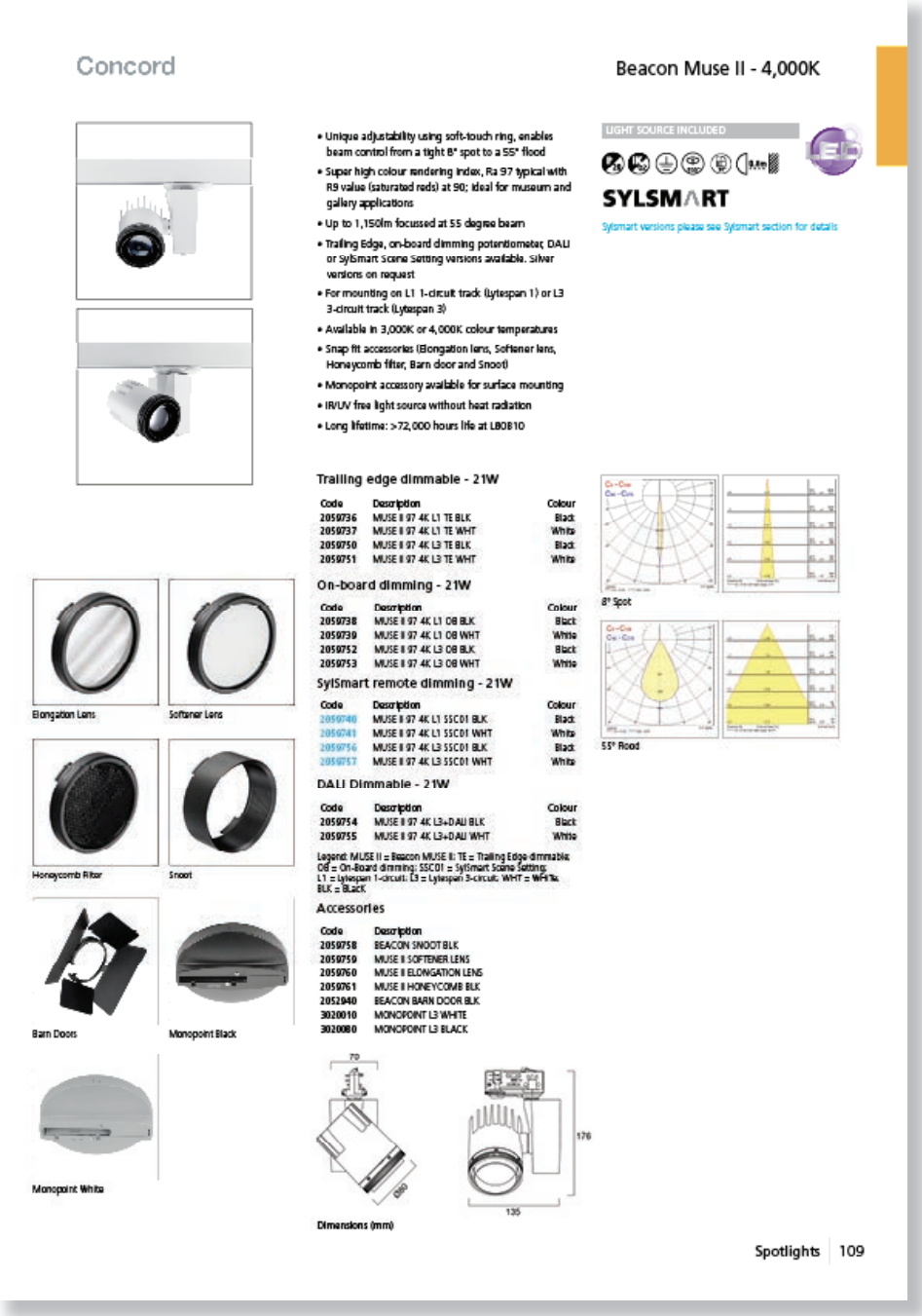
12 **Line drawings (mm)**



Guidance for raising a product specification

In order to create a succinct specification for each product, please use the following list to select from. The relevant information can be found on either the product introduction pages at the beginning of each section or on individual product pages.

1 **Product reference code:**
2 **Lamp type and quantity:**
3 **Gear type:**
4 **IP rating:**
5 **IK rating:**
6 **Test marks/approvals:**
7 **Beam angle/Cut off angle/surface brightness:**
8 **Adjustment - Tilt/Rotation:**
9 **LOR/DLOR/ULOR: (LED = 100%)**
10 **Cutout and recess depth:**
11 **Product dimensions:**
12 **Material specification/body/diffuser/reflector:**



An example of an ideal specification is shown below

To specify, select in order from the following list:

1	**Product reference code**	2059736
2	**Lamp type and quantity**	1 x 21W LED
3	**Gear type**	Remote
4	**IP rating**	IP20
5	**IK rating**	-
6	**Test marks/approvals**	-
7	**Beam angle/Cut off angle/surface brightness**	Beam angle 8-55°
8	**Adjustment - Tilt/Rotation**	0-90° tilt & 355° rotation
9	**LOR/DLOR/ULOR**	DLOR 1.00
10	**Cutout and recess depth**	-
11	**Product dimensions**	176mm x 135mm
	Reflector aperture	60mm
12	**Connections/Mounting**	Single/three circuit, SylSmart DALI
13	**Material specification/ body/diffuser/reflector**	Reflector super pure specular Housing die cast aluminium powder coated textured black RAL 9005

Grosvenor House - Guildford, UK

RECESSED MODULAR

Concord

18 Officelyte Concave

19 Officelyte Linear

20 Officelyte Classic

23 Lytepanel II

SYLVANIA

27 SylLab LED

31 RANA LED Custom

41 Start Panel LED Gen 4

Eldon House, London, UK

- OfficeLyte LED is perfect for Office, Education, Meeting rooms
- High luminaire efficiency of up to 148lm/w and UGR < 19)
- Double width CDP (conical de-glaring prism) , linear version and micro prismatic central refractor (600x600 version) to minimise glare and provide complete homogenous light distribution
- Officelyte's unique performance is based upon two incurvated highly transmissive satin acrylic wings
- New improved, patented design, plasterboard fixing and pull up kit solution with Lumafix - available as an accessory
- Variant version - Concave Officelyte Air Handling allows for the luminaires to be integrated into a buildings ventilation system, resulting in installation savings and a less cluttered ceiling
- Long lifetime : 50,000 hours life at 70% of the original output L70

Officelyte LED

- Efficient LED modular luminaire incorporating cutting edge chip technology
- High Efficiency and High Output solutions providing the optimum energy efficient lighting schemes depending on ceiling heights and required spacings.
- Introduces uniform light distribution greatly enhancing the lit space
- High efficiency up to 148lm/W
- High lumen output up to 4,570lm
- Low glare ratio conforming to EN 12464-1
- UGR < 19 HE and HO versions

LIGHT SOURCE INCLUDED

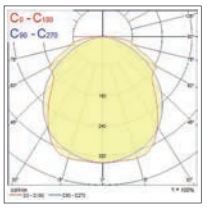
IP20 650°C SYLSMART LED

SylSmart versions. Please see SylSmart section for details

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Officelyte Concave 600 x 600mm module - High Efficiency

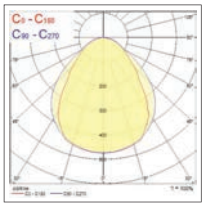
Code	Descrption	Lumen output (lm)	Type
3,000K			
2069000	OFFICELYTE 600 HE 3,000K	3,345	Standard
2069241	OFFICELYTE 600 HE 3,000K DALI	3,345	DALI
2069242	OFFICELYTE 600 HE 3,000K SSH01	3,345	SylSmart Connected
4,000K			
2069243	OFFICELYTE 600 HE 4,000K	3,542	Standard
2069246	OFFICELYTE 600 HE 4,000K EM	3,542	Emergency
2069244	OFFICELYTE 600 HE 4,000K DALI	3,542	DALI
2069245	OFFICELYTE 600 HE 4,000K DALI EMPRO	3,542	DALI emergency
2069247	OFFICELYTE 600 HE 4.000K SSH01	3,542	SylSmart Connected
2069248	OFFICELYTE 600 HE 4,000K SSH01 EM	3,542	SylSmart Emergency
2069270	OFFICELYTE 600 HE 4,000K SSC01	3,542	SylSmart Standalone



High Efficiency

Officelyte Concave 600 x 600mm module - High Output

Code	Descrption	Lumen output (lm)	Type
3,000K			
2069252	OFFICELYTE 600 HO 3,000K	4,314	Standard
2069253	OFFICELYTE 600 HO 3,000K DALI	4,314	DALI
2069254	OFFICELYTE 600 HO 3,000K SSH01	4,314	SylSmart Connected
4,000K			
2069255	OFFICELYTE 600 HO 4,000K	4,570	Standard
2069258	OFFICELYTE 600 HO 4,000K EM	4,570	Emergency
2069256	OFFICELYTE 600 HO 4,000K DALI	4,570	DALI
2069257	OFFICELYTE 600 HO 4,000K DALI EMPRO	4,570	DALI emergency
2069259	OFFICELYTE 600 HO 4,000K SSH01	4,570	SylSmart Connected
2069260	OFFICELYTE 600 HO 4,000K SSH01 EM	4,570	SylSmart Emergency
2069272	OFFICELYTE 600 HO 4,000K SSC01	4,570	SylSmart Standalone



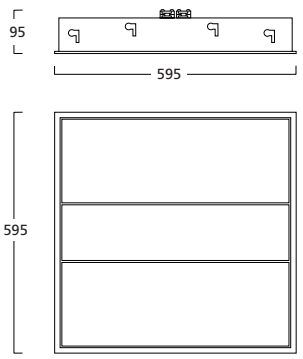
High Output

Officelyte Accessories

Code	Description
2069281	Lumafix plasterboard / pull up kit

Officelyte LED Performance Matrix		
Fixture	HE version 4,000K	HO version 4,000K
Diffusers	Acrylic	Acrylic
Fixture Lumens	3,542	4,570
Actual Power	24W	32W
Lumens / Circuit Watt *	148lm/w	144lm/w

*Lumens / Circuit Watt = (Fixture Lumens) / Power



* remote driver

- New Linear version in 1200 x 300mm- Original OfficeLyte Concave Low Profile design
- High efficiency up to 135lm/W
- Lumen output up to 3,430lm
- CRI 85 typical
- Low glare ratio conforming to EN 12464-1
- UGR < 19
- Variant versions available upon request to conform to SAS ceiling requirements

LIGHT SOURCE INCLUDED

SYLSMART

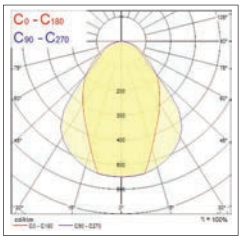
SylSmart versions. Please see SylSmart section for details

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

1200 x 300mm module

Code	Description	Lumen output (lm)	Type
3,000K			
2069264	OFFICELYTE 1200 HE 3,000K DALI	3,237	DALI
2069265	OFFICELYTE 1200 HE 3,000K SSH01	3,237	SylSmart Connected
4,000K			
2069266	OFFICELYTE 1200 HE 4,000K DALI	3,430	DALI
2069267	OFFICELYTE 1200 HE 4,000K DALI EMPRO	3,430	DALI EMPRO
2069268	OFFICELYTE 1200 HE 4,000K SSH01	3,430	SylSmart Connected
2069269	OFFICELYTE 1200 HE 4,000K SSH01 EM	3,430	SylSmart Emergency
2069271	OFFICELYTE 1200 HE 4,000K SSC01	3,430	SylSmart Standalone

SAS 330 versions with and without gaskets plus variant ceiling grid types available upon request. Air Handling versions available upon request.



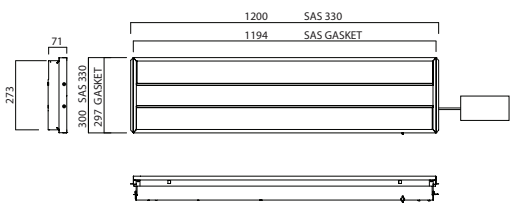
Officelyte Linear HE - 4,000K

Officelyte Accessories

Code	Description
2069281	Lumafix plasterboard / pull up kit

Officelyte LED Performance Matrix	
Fixture	1200 x 300 HE
Fixture Lumens	3,430lm
Actual Power	24W
Luminaire efficacy (lm/W)	143lm/w

*Lumens / Circuit Watt = (Fixture Lumens) / Power



Dimensions (mm)

** SAS 330 ceiling variant version*

- High Efficiency and High Output versions for LED
- Designed to provide light onto horizontal ceiling surfaces, to assist with LG7 compliance
- Low Glare UGR <19
- Unique patented design incorporating satin prismatic wings and a Conical De-glaring Prism (CDP) centre panel
- Enclosed design reduces dust ingress and improves Luminaire Maintenance Factor (LMF)
- Slot-in wing design allows for quick and simple installation, maintenance and cleaning
- 3,000K versions available upon request
- Custom product solutions to suit different ceiling grid systems - available on request

LIGHT SOURCE INCLUDED

IP40 850°C

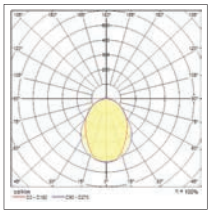
Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Officelyte Classic LED 600 x 600mm module - High efficiency

Code	Description	Lumen Output (lm)	Type
2058050	Officelyte Classic LED HE 4,000K	2,824	Standard
2058051	Officelyte Classic LED HE 4,000K EM	2,824	Emergency
2058052	Officelyte Classic LED HE 4,000K DALI	2,824	DALI
2058053	Officelyte Classic LED HE 4,000K DALI EM	2,824	DALI emergency
2058054	Officelyte Classic LED HE 4,000K DALI EMPRO	2,824	DALI emergency pro

Officelyte Classic LED 600x600mm module - High output

Code	Description	Lumen output (lm)	Type
2058060	Officelyte Classic LED HO 4,000K	3,750	Standard
2058061	Officelyte Classic LED HO 4,000K EM	3,750	Emergency
2058062	Officelyte Classic LED HO 4,000K DALI	3,750	DALI
2058063	Officelyte Classic LED HO 4,000K DALI EM	3,750	DALI emergency
2058064	Officelyte Classic LED HO 4,000K DALI EMPRO	3,750	DALI emergency pro



Officelyte Classic LED HO 4K

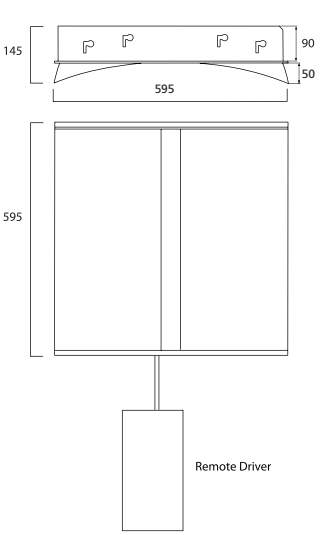
Officelyte Accessories

Code	Description
2047754	Lumafix plasterboard / pull up kit
2058049	3 pole male T connector
2058047	3 pole female connector

Officelyte LED Performance Matrix		
Fixture	HE version 4,000K	HO version 4,000K
Diffusers	Opal	Opal
Fixture Lumens	2,824	3,750
Actual Power	34W	48W
Lumens / Circuit Watt *	83 lm/W	78 lm/W

* Lumens / Circuit Watt = (Fixture Lumens) / Power

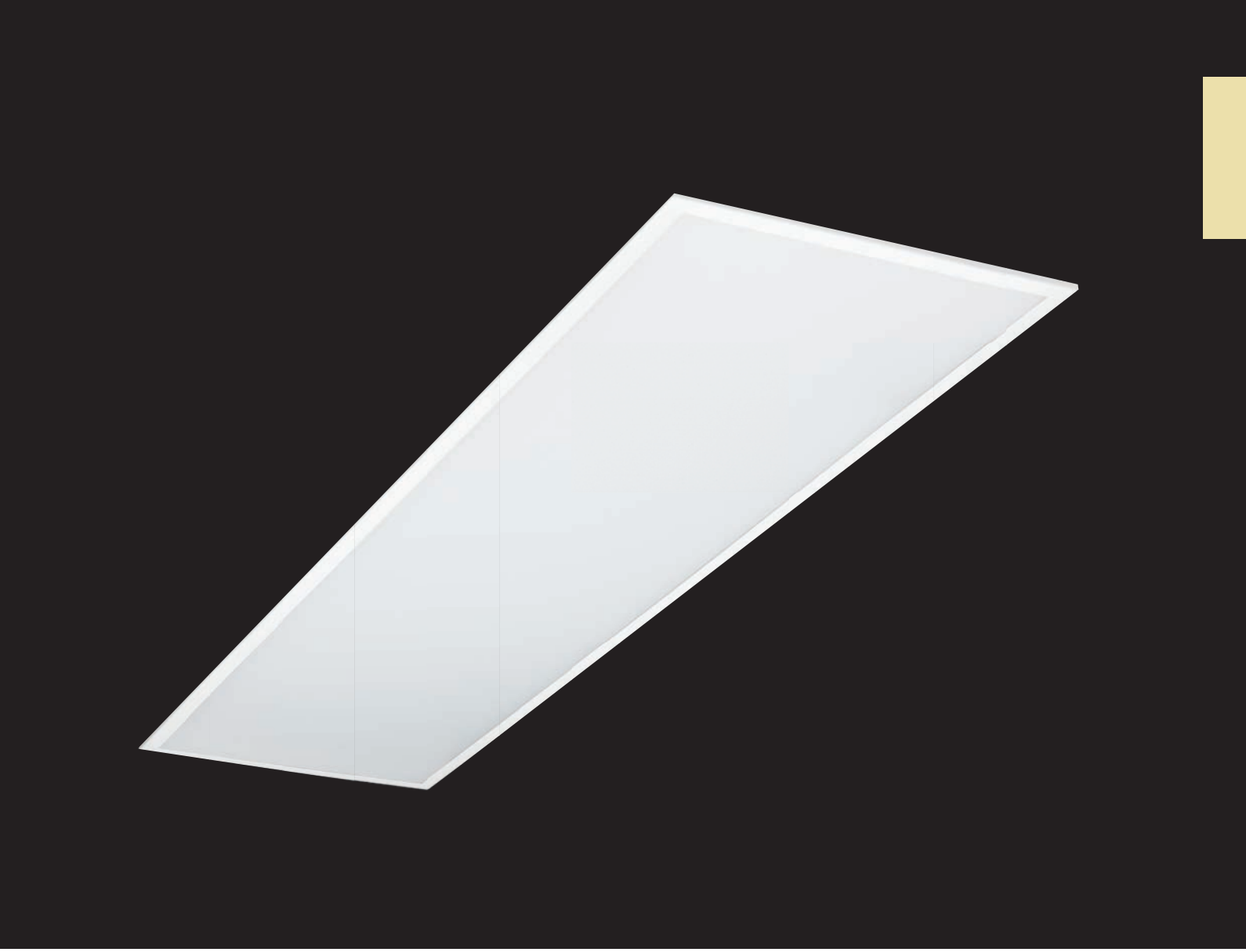
Officelyte Classic LED



Dimensions (mm)

Fenchurch Avenue, U.K.

Carbomat Halle - Belgium



Super efficient LED modular luminaire incorporating cutting edge LED chip technology

- Introduces excellent uniform light distribution greatly enhancing the lit space
- High lumen efficacy of up to 144lm/W
- UGR<18 compliant versions available with specially designed diffuser optics
- DALI as standard and available with integrated emergency
- Long lifetime 60,000hrs (L90B10)
- Lytepanel II is design for "lay-in" tiled ceiling but the deisgn makes it easily customizable for various ceiling types such as SAS or Burgess

Lytepanel II

- Architectural flat panel with even homogenous light distribution
- Lay-in for 600 x 600 & 1200 x 300 exposed T bar grid systems with SAS330/SAS330G versions available
- Surface mounted versions available
- Up to 4454 fixture lumens
- Up to 144 lumens per watt efficiency
- Special sizes and 3,000K versions available on request
- Uses new highly transmissive LED diffuser material
- Minimum 80 CRI and 60,000 hrs L90/B10

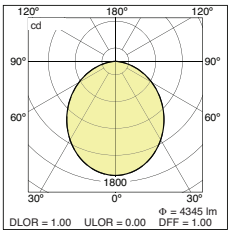
LIGHT SOURCE INCLUDED

IP40 650°C 1.5m

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Lytepanel II 600 x 600mm - 4,000K

Code	Description	Lumen Output (lm)	Type
2059432	LYTEPANEL II 600 4,000K DALI	4,454	Standard/DALI
2059433	LYTEPANEL II 600 4,000K DALI EM	4,454	Standard/DALI Emergency



Lytepanel II 1200 x 300mm - 4,000K

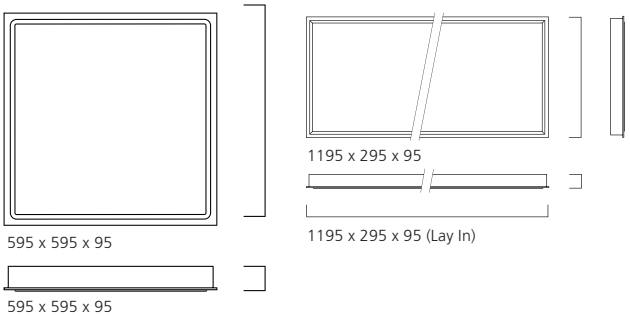
Code	Description	Lumen Output (lm)	Type
2059436	LYTEPANEL II 1200x300 4,000K DALI	4,349	Standard/DALI
2059437	LYTEPANEL II 1200x300 4,000K DALI EM	4,349	Standard/DALI Emergency

Lytepanel II 1200 x 300mm SAS 330 / SAS 330G - 4,000K

Code	Description	Lumen Output (lm)	Type
2059440	LYTEPANEL II S330 4,000K DALI	4,349	Standard/DALI
2059441	LYTEPANEL II S330 4,000K DALI EM	4,349	Standard/DALI Emergency
2059442	LYTEPANEL II S330G 4,000K DALI	4,349	Standard/DALI
2059443	LYTEPANEL II S330G 4,000K DALI EM	4,349	Standard/DALI Emergency

Lytepanel II - High Efficiency Performance Matrix

Fixture	600 x 600 4,000K	1,200 x 300 4,000K (incl S330)
Fixture lumens	4,454lm	4,349lm
Actual Power	31W	31W
Luminaire efficiacy	144lm/W	140lm/W



Dimensions (mm)

- Architectural flat panel with even homogenous light distribution
- Lay-in for 600 x 600 & 1200 x 300 exposed T bar grid systems with SAS330 versions available
- Low Glare, UGR < 18
- Surface mounted versions available
- Up to 3,920 fixture lumens
- Up to 126 lumens per watt efficiency
- Special sizes and 3,000K versions available on request
- Uses new LED diffuser material highly transmissive and diffuser
- Minimum 80 CRI and 60,000 hrs L90/B10

LIGHT SOURCE INCLUDED

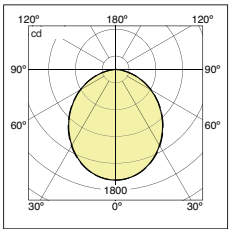
IP40 650°C 1.5m

LED

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Lytepanel II 600 x 600mm - 4,000K

Code	Description	Lumen Output (lm)	Type
2059500	LYTEPANEL II 600 4,000K UGR DALI	3,920	Standard/DALI
2059501	LYTEPANEL II 600 4,000K UGR DALIEM	3,920	Standard/DALI Emergency

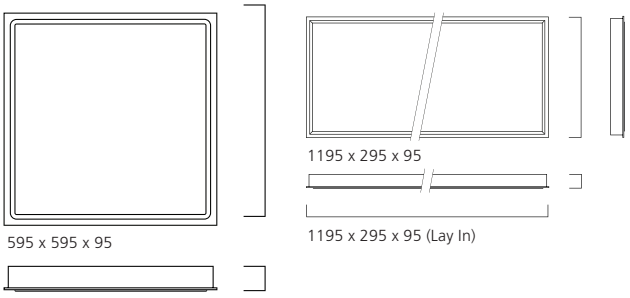


Lytepanel II 1,200 x 300mm - 4,000K

Code	Description	Lumen Output (lm)	Type
2059504	LYTEPANEL II 1,200 x 300 4,000K UGR DALI	3,775	Standard/DALI
2059505	LYTEPANEL II 1,200 x 300 4,000K UGR DALI EM	3,775	Standard/DALI Emergency

Lytepanel II - Low Glare Performance Matrix

Fixture	600 x 600 4,000K	1200 x 300 4,000K
Fixture lumens	3,920lm	3,775lm
Actual Power	31W	31W
Luminaire efficiacy	126lm/W	122lm/W
UGR (4H-8H)	< 18	< 18



Dimensions (mm)

Control Gear: Electronic
Dimmable: DALI dimmable
Optic: Choice of opal plexiglass diffuser or glass diffuser with matt louvre for low glare (UGR<19)
Housing: Housing: White housing

- Syl-Lab LED IP65 is a range of IP65 recessed and surface mounted luminaires ideal for easy to clean luminaires
- Dual IP rated (from above and below) along with a rigid steel construction (IK09) and tamper proof secure diffuser
- Syl-Lab LED IP65 has a choice of two diffusers: a robust opal plexiglass diffuser or a glass diffuser with matt louvre for reduced glare (UGR<19)
- The range is also available as standard with energy efficient DALI dimmable options and in the standard 600 x 600mm or 1200 x 300mm grid sizes
- Syl-Lab LED IP65 is built with the latest LED technology, the range offers up to 111lm/W, savings of up to 50% compared to the fluorescent equivalent
- The range also delivers a reduction in downtime as the lifetime of 50,000 hours means no need for changing fluorescent tubes
- Syl-Lab LED IP65 recessed is compatible with modular exposed T-grid ceilings and also features a pull up frame kit for more specialised ceiling grids

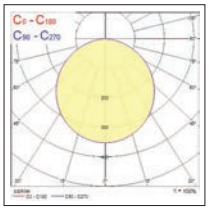
Syl-Lab LED IP65

- A range of IP65 recessed and surface mounted luminaires for applications requiring easy cleaning
- Superior steel construction with IP65 rating from above and below
- Available in 36W / 3900lm (4x14W fluorescent equivalent) or high output version 44W / 4900lm (4x24W fluorescent equivalent)
- Available with opal plexiglass diffuser or glass diffuser with matt louvre for low glare (UGR<19)
- Excellent lumen efficacy of upto 111lm/W
- Warm white (3K) or neutral white (4K)
- Slim minimum profile of 105mm for minimal impact into ceiling void
- Quick and easy to install - recessed versions come with steel security cable for additional safety
- Long lifetime - 50,000 hours (L70)

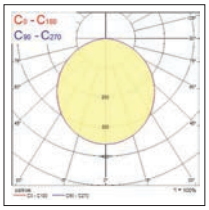
LIGHT SOURCE INCLUDED

IP65 · IK08* · IK09** · 650°C* · 850°C**

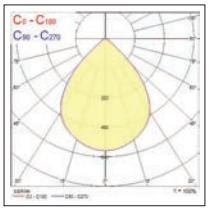
*Opal diffuser
**Glass difffuser



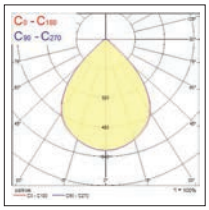
Syl-Lab - Recessed - Opal 600 x 600 diffuser - 44W



Syl-Lab - Recessed - Opal 1200 x 300 - 38W



Syl-Lab - Recessed - Matt Louvre 600 x 600 diffuser - 46W



Syl-Lab - Recessed - Matt Louvre 1200 x 300 - 36W

600 x 600mm Opal Diffuser

Code	Description
0055320	SYL-LAB LED IP65 REC 44W 3K OPAL 600
0055321	SYL-LAB LED IP65 REC 44W 3K OPAL 600 DALI
0055322	SYL-LAB LED IP65 REC 44W 4K OPAL 600
0055323	SYL-LAB LED IP65 REC 44W 4K OPAL 600 DALI
0055310	SYL-LAB LED IP65 REC 36W 3K OPAL 600
0055311	SYL-LAB LED IP65 REC 36W 3K OPAL 600 DALI
0055312	SYL-LAB LED IP65 REC 36W 4K OPAL 600
0055313	SYL-LAB LED IP65 REC 36W 4K OPAL 600 DALI

600 x 600mm Opal Diffuser Emergency

Code	Description
0055398	SYL-LAB LED IP65 REC 44W 4K OPAL 600 EM
0055399	SYL-LAB LED IP65 REC 44W 4K OPAL 600 DALI EM
0055400	SYL-LAB LED IP65 REC 36W 4K OPAL 600 EM
0055401	SYL-LAB LED IP65 REC 36W 4K OPAL 600 DALI EM

1200 x 300mm Opal Diffuser

Code	Description
0055314	SYL-LAB LED IP65 REC 38W 3K OPAL 1200
0055315	SYL-LAB LED IP65 REC 38W 3K OPAL 1200 DALI
0055316	SYL-LAB LED IP65 REC 38W 4K OPAL 1200
0055317	SYL-LAB LED IP65 REC 38W 4K OPAL 1200 DALI

1200 x 300mm Opal Diffuser Emergency

Code	Description
0055402	SYL-LAB LED IP65 REC 38W 4K OPAL 1200 EM
0055427	SYL-LAB LED IP65 REC 38W 4K OPAL 1200 DALI EM

600 x 600mm Matt Louvre

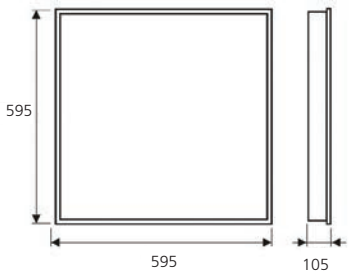
Code	Description
0055328	SYL-LAB LED IP65 REC 46W 3K PAR 600
0055329	SYL-LAB LED IP65 REC 46W 3K PAR 600 DALI
0055330	SYL-LAB LED IP65 REC 46W 4K PAR 600
0055331	SYL-LAB LED IP65 REC 46W 4K PAR 600 DALI
0055324	SYL-LAB LED IP65 REC 36W 3K PAR 600
0055325	SYL-LAB LED IP65 REC 36W 3K PAR 600 DALI
0055326	SYL-LAB LED IP65 REC 36W 4K PAR 600
0055327	SYL-LAB LED IP65 REC 36W 4K PAR 600 DALI

1200 x 300mm Matt Louvre

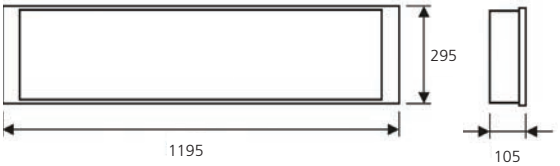
Code	Description
0055332	SYL-LAB LED IP65 REC 36W 3K PAR 1200
0055333	SYL-LAB LED IP65 REC 36W 3K PAR 1200 DALI
0055334	SYL-LAB LED IP65 REC 36W 4K PAR 1200
0055335	SYL-LAB LED IP65 REC 36W 4K PAR 1200 DALI

Legend: PAR = Parabolic matt louvre with tempered glass; OPAL = Opal diffuser - plexiglass; DA = DALI dimmable

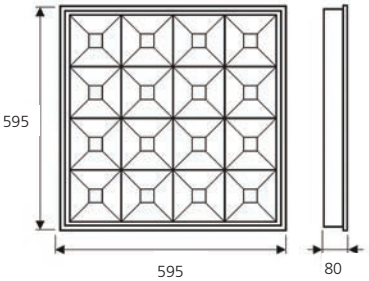
Recessed 600 - Opal



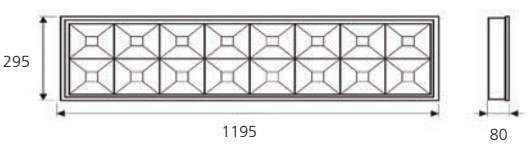
Recessed 1200x300 Opal

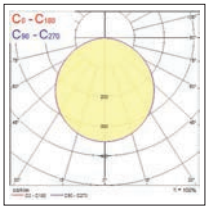


Recessed 600 - Matt Louvre

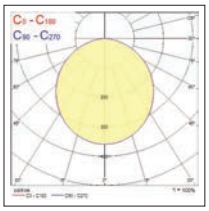


Recessed 1200x300 Matt Louvre

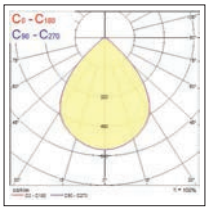




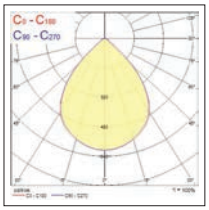
Syl-Lab - Surfaced mounted - Opal 600 x 600 diffuser - 44W



Syl-Lab - Surfaced mounted - Opal 1200 x 300 - 38W



Syl-Lab - Surfaced mounted - Matt Louvre 600 x 600 diffuser - 46W



Syl-Lab - Surfaced mounted - Matt Louvre 1200 x 300 - 36W

600 x 600mm Opal Diffuser

Code	Description
0055387	SYL-LAB LED IP65 SUR 44W 3K OPAL 600
0055388	SYL-LAB LED IP65 SUR 44W 3K OPAL 600 DALI
0055389	SYL-LAB LED IP65 SUR 44W 4K OPAL 600
0055390	SYL-LAB LED IP65 SUR 44W 4K OPAL 600 DALI
0055374	SYL-LAB LED IP65 SUR 36W 3K OPAL 600
0055375	SYL-LAB LED IP65 SUR 36W 3K OPAL 600 DALI
0055376	SYL-LAB LED IP65 SUR 36W 4K OPAL 600
0055377	SYL-LAB LED IP65 SUR 36W 4K OPAL 600 DALI

1200 x 300mm Opal Diffuser

Code	
0055391	SYL-LAB LED IP65 SUR 38W 3K OPAL 1200
0055392	SYL-LAB LED IP65 SUR 38W 3K OPAL 1200 DALI
0055393	SYL-LAB LED IP65 SUR 38W 4K OPAL 1200
0055394	SYL-LAB LED IP65 SUR 38W 4K OPAL 1200 DALI

1200 x 300mm Matt Louvre

Code	Description
0055383	SYL-LAB LED IP65 SUR 36W 3K PAR 1200
0055384	SYL-LAB LED IP65 SUR 36W 3K PAR 1200 DALI
0055385	SYL-LAB LED IP65 SUR 36W 4K PAR 1200
0055386	SYL-LAB LED IP65 SUR 36W 4K PAR 1200 DALI

600 x 600mm Matt Louvre

Code	Description
0055379	SYL-LAB LED IP65 SUR 46W 3K PAR 600
0055380	SYL-LAB LED IP65 SUR 46W 3K PAR 600 DALI
0055381	SYL-LAB LED IP65 SUR 46W 4K PAR 600
0055382	SYL-LAB LED IP65 SUR 46W 4K PAR 600 DALI
0055370	SYL-LAB LED IP65 SUR 36W 3K PAR 600
0055371	SYL-LAB LED IP65 SUR 36W 3K PAR 600 DALI
0055372	SYL-LAB LED IP65 SUR 36W 4K PAR 600
0055373	SYL-LAB LED IP65 SUR 36W 4K PAR 600 DALI

Legend: PAR = Parabolic matt louvre with tempered glass; OPAL = Opal diffuser - plexiglass; DA = DALI dimmable

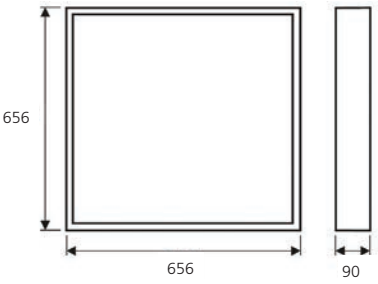
LIGHT SOURCE INCLUDED

IP65 · IK08* · IK09** · 650°C* · 850°C**

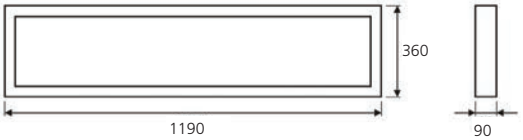
*Opal diffuser
**Glass difffuser

Syl-Lab LED - Accessories

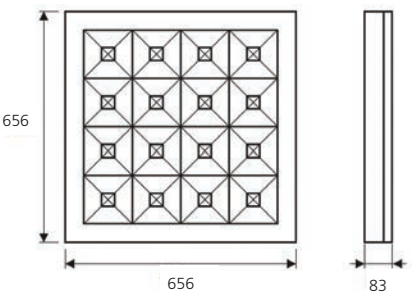
Code	Description
0055397	SYL-LAB LED IP65 PULL UP FRAME ACCESSORY



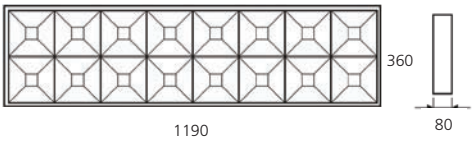
Surface Mount 600 - Opal



Surface Mount 1200x300 Opal



Surface Mount 600 - Matt Louvre



Surface Mount 1200x300 - Matt Louvre

RANA LED Custom allows you to design tailor-made luminaires for any ceiling type. The range is available in 3 different light distributions: Louvre + MicroPrismatic optic, MicroPrismatic optic and Opal diffuser, 11 different light engine lengths: from 290mm to 1690mm), and lumen packages from 280lm up to 7800lm.
RANA LED Custom light engines are available in Warm White (3000K), or Neutral White (4000K) with any lighting control (remote or onboard / stand-alone).
RANA LED Custom offers the ultimate lighting design freedom.

RANA LED Custom

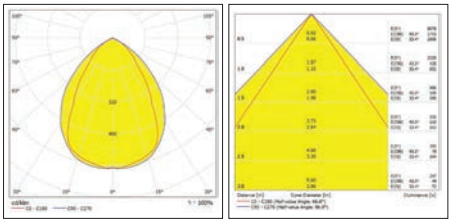
Choose the type of luminaire & light distribution

3 x Types of Luminaires

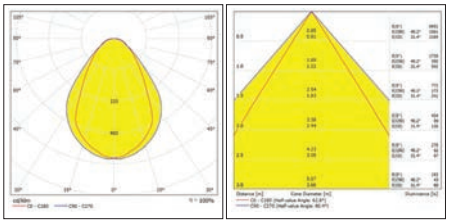
Type 10

Type 11

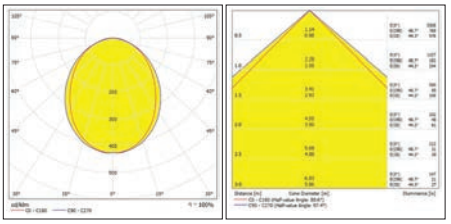
Type 12



Louvre + Prismatic Optic (LOUV+PRI) UGR<19



MicroPrismatic Optic (MPO) UGR<21



Opal Diffuser (OPAL) UGR<23

Type 10

Type 11

Type 12

3 x Donor / Sample codes

Types	IPC	Description
TYPE10	0052382	RANA CUSTOM TYPE10 596X296 LED 1770LM 4K LOUV+PRI
TYPE11	0052383	RANA CUSTOM TYPE11 596x146 LED 1460LM 4K MPO
TYPE12	0052384	RANA CUSTOM TYPE12 CLIP 576 LED 1640LM 4K OPAL

Choose the required light engine length, colour temperature & lumen package

- Light engine lengths from 290mm up to 1690mm.
- Lumen packages from 280lm up to 7760lm

4,000K									
Light engine dimensions	MPO			LOUVRE+PRISM			OPAL		
	Ø(lm)	P(W)	η(lm/W)	Ø(lm)	P(W)	η(lm/W)	Ø(lm)	P(W)	η(lm/W)
290mmx65mm	280	3	108	310	3	119	310	3	119
	420	4	108	440	4	114	460	4	119
	560	5	108	580	5	112	610	5	118
	610	6	94	700	6	108	690	6	107
	730	8	94	830	8	107	820	8	105
	840	9	93	960	9	106	930	9	102
	940	10	91	1100	10	106	1030	10	99
	1050	12	90	1220	12	104	1160	12	99
430mmx65mm	420	4	108	460	4	118	460	4	118
	630	6	108	670	6	115	690	6	119
	840	8	108	860	8	111	920	8	119
	910	10	94	1060	10	109	1040	10	107
	1100	12	94	1250	12	107	1230	12	105
	1270	14	93	1430	14	105	1390	14	102
	1410	16	91	1650	16	106	1550	16	100
	1580	18	90	1820	18	104	1740	18	99
570mmx65mm	560	5	108	620	5	119	610	5	117
	840	8	108	890	8	115	920	8	119
	1120	10	108	1150	10	111	1230	10	119
	1220	13	94	1410	13	109	1380	13	107
	1460	16	94	1660	16	107	1640	16	105
	1690	18	93	1910	18	105	1860	18	102
	1880	21	91	2200	21	106	2060	21	99
	2110	23	90	2430	23	104	2320	23	99
710mmx65mm	700	7	108	770	7	118	770	7	118
	1050	10	108	1110	10	115	1150	10	119
	1390	13	107	1440	13	111	1530	13	118
	1520	16	94	1760	16	109	1730	16	107
	1830	19	94	2080	19	107	2050	19	105
	2110	23	93	2390	23	105	2320	23	102
	2340	26	90	2760	26	106	2580	26	99
	2640	29	90	3040	29	104	2900	29	99
850mmx65mm	840	8	108	930	8	119	920	8	118
	1250	12	108	1330	12	114	1380	12	119
	1670	16	108	1730	16	111	1840	16	119
	1830	19	94	2110	19	109	2070	19	107
	2190	23	94	2490	23	107	2460	23	105
	2530	27	93	2870	27	105	2780	27	102
	2810	31	90	3310	31	106	3090	31	99
	3160	35	90	3650	35	104	3480	35	99
990mmx65mm	980	9	108	1080	9	119	1070	9	118
	1460	14	108	1550	14	114	1610	14	119
	1950	18	108	2020	18	112	2140	18	118
	2130	23	94	2470	23	109	2420	23	107
	2560	27	94	2910	27	107	2870	27	105
	2960	32	93	3340	32	105	3250	32	102
	3280	36	90	3860	36	106	3610	36	99
	3690	41	90	4250	41	104	4060	41	99

3,000K									
Light engine dimensions	MPO			LOUVRE+PRISM			OPAL		
	Ø(lm)	P(W)	η(lm/W)	Ø(lm)	P(W)	η(lm/W)	Ø(lm)	P(W)	η(lm/W)
290mmx65mm	270	3	104	300	3	115	300	3	115
	400	4	103	420	4	108	440	4	114
	530	5	102	550	5	106	580	5	112
	580	6	90	670	6	103	660	6	102
	700	8	90	790	8	102	780	8	100
	800	9	88	910	9	100	890	9	98
	900	10	87	1050	10	101	980	10	94
	1000	12	86	1160	12	99	1100	12	94
430mmx65mm	400	4	103	440	4	113	440	4	113
	600	6	103	640	6	110	660	6	114
	800	8	103	820	8	106	880	8	113
	870	10	90	1010	10	104	990	10	102
	1050	12	90	1190	12	102	1170	12	100
	1210	14	89	1360	14	100	1320	14	97
	1340	16	86	1570	16	101	1480	16	95
	1500	18	86	1730	18	99	1660	18	95
570mmx65mm	530	5	102	590	5	113	580	5	112
	800	8	103	850	8	110	880	8	114
	1070	10	103	1100	10	106	1170	10	113
	1160	13	90	1340	13	103	1310	13	101
	1390	16	89	1580	16	102	1560	16	100
	1610	18	89	1820	18	100	1770	18	98
	1790	21	86	2100	21	101	1960	21	94
	2010	23	86	2310	23	99	2210	23	95
710mmx65mm	670	7	103	730	7	112	730	7	112
	1000	10	103	1060	10	109	1100	10	114
	1320	13	102	1370	13	106	1460	13	113
	1450	16	90	1680	16	104	1650	16	102
	1740	19	90	1980	19	102	1950	19	100
	2010	23	89	2280	23	100	2210	23	97
	2230	26	86	2630	26	101	2460	26	95
	2510	29	86	2900	29	99	2760	29	95
850mmx65mm	800	8	103	890	8	114	880	8	113
	1190	12	102	1270	12	109	1310	12	113
	1590	16	102	1650	16	106	1750	16	113
	1740	19	90	2010	19	103	1970	19	101
	2090	23	90	2370	23	102	2340	23	100
	2410	27	89	2730	27	100	2650	27	97
	2680	31	86	3150	31	101	2940	31	94
	3010	35	86	3480	35	99	3310	35	95
990mmx65mm	930	9	102	1030	9	113	1020	9	112
	1390	14	102	1480	14	109	1530	14	113
	1860	18	103	1920	18	106	2040	18	113
	2030	23	90	2350	23	104	2300	23	101
	2440	27	90	2770	27	102	2730	27	100
	2820	32	89	3180	32	100	3100	32	98
	3120	36	86	3680	36	101	3440	36	95
	3510	41	86	4050	41	99	3870	41	95

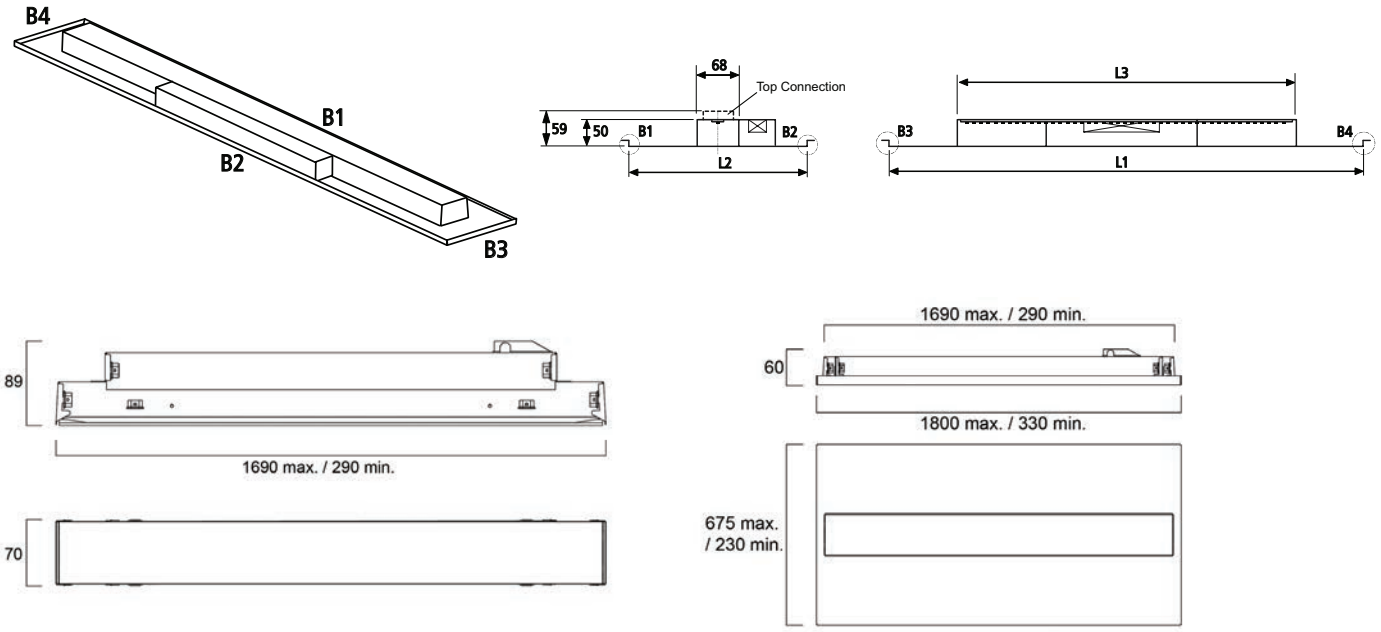
Choose the required light engine length, colour temperature & lumen package

4,000K									
Light engine dimensions	MPO			LOUVRE+PRISM			OPAL		
	Ø(lm)	P(W)	η(lm/W)	Ø(lm)	P(W)	η(lm/W)	Ø(lm)	P(W)	η(lm/W)
1130mmx65mm	1120	10	108	1240	10	119	1230	10	118
	1670	16	108	1770	16	114	1840	16	119
	2230	21	108	2300	21	111	2450	21	118
	2440	26	94	2820	26	109	2760	26	107
	2920	31	94	3320	31	107	3280	31	105
	3380	36	93	3820	36	105	3710	36	102
	3750	42	90	4410	42	106	4120	42	99
	4220	47	90	4860	47	104	4640	47	99
1270mmx65mm	1250	12	107	1390	12	119	1380	12	118
	1880	17	108	2000	17	115	2070	17	119
	2510	23	108	2590	23	111	2760	23	119
	2740	29	94	3170	29	109	3110	29	107
	3290	35	94	3740	35	107	3690	35	105
	3800	41	93	4300	41	105	4170	41	102
	4220	47	90	4960	47	106	4640	47	99
	4750	53	90	5470	53	104	5220	53	99
1410mmx65mm	1390	13	107	1550	13	119	1530	13	118
	2090	19	108	2220	19	115	2300	19	119
	2790	26	108	2880	26	111	3060	26	118
	3050	32	94	3520	32	109	3450	32	107
	3660	39	94	4160	39	107	4100	39	105
	4220	45	93	4780	45	105	4640	45	102
	4690	52	90	5510	52	106	5160	52	99
	5270	58	90	6080	58	104	5800	58	99
1550mmx65mm	1530	14	107	1700	14	119	1680	14	117
	2300	21	108	2440	21	114	2530	21	119
	3070	28	108	3170	28	111	3370	28	118
	3350	36	94	3870	36	109	3800	36	107
	4020	43	94	4570	43	107	4510	43	105
	4650	50	93	5250	50	105	5100	50	102
	5160	57	90	6060	57	106	5670	57	99
	5800	64	90	6680	64	104	6380	64	99
1690mmx65mm	1670	16	107	1860	16	119	1840	16	118
	2510	23	108	2660	23	114	2760	23	119
	3350	31	108	3460	31	111	3680	31	119
	3660	39	94	4230	39	109	4140	39	107
	4390	47	94	4990	47	107	4920	47	105
	5070	54	93	5730	54	105	5570	54	102
	5630	62	90	6610	62	106	6190	62	99
	6330	70	90	7290	70	104	6960	70	99

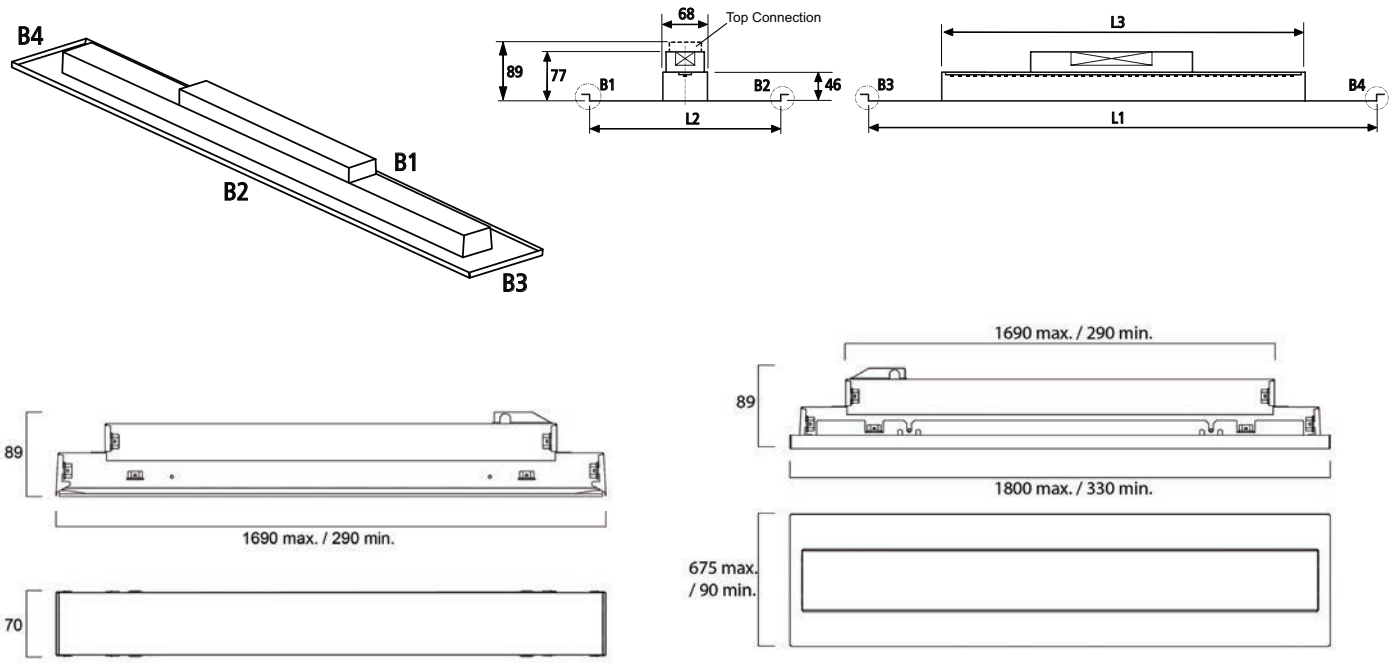
3,000K									
Light engine dimensions	MPO			LOUVRE+PRISM			OPAL		
	Ø(lm)	P(W)	η(lm/W)	Ø(lm)	P(W)	η(lm/W)	Ø(lm)	P(W)	η(lm/W)
1130mmx65mm	1070	10	103	1180	10	113	1170	10	113
	1590	16	103	1690	16	109	1750	16	113
	2120	21	102	2190	21	106	2330	21	113
	2320	26	90	2690	26	104	2630	26	102
	2780	31	89	3160	31	102	3120	31	100
	3220	36	89	3640	36	100	3530	36	97
	3570	42	86	4200	42	101	3920	42	94
	4020	47	86	4630	47	99	4420	47	95
1270mmx65mm	1190	12	102	1320	12	113	1310	12	112
	1790	17	103	1900	17	109	1970	17	113
	2390	23	103	2470	23	106	2630	23	113
	2610	29	90	3020	29	104	2960	29	102
	3130	35	89	3560	35	102	3510	35	100
	3620	41	89	4100	41	100	3970	41	97
	4020	47	86	4720	47	101	4420	47	95
	4520	53	86	5210	53	99	4970	53	95
1410mmx65mm	1320	13	102	1480	13	114	1460	13	112
	1990	19	103	2110	19	109	2190	19	113
	2660	26	103	2740	26	106	2910	26	112
	2900	32	90	3350	32	103	3290	32	102
	3490	39	90	3960	39	102	3900	39	100
	4020	45	89	4550	45	100	4420	45	97
	4470	52	86	5250	52	101	4910	52	95
	5020	58	86	5790	58	99	5520	58	95
1550mmx65mm	1460	14	102	1620	14	113	1600	14	112
	2190	21	103	2320	21	109	2410	21	113
	2920	28	103	3020	28	106	3210	28	113
	3190	36	90	3690	36	104	3620	36	102
	3830	43	90	4350	43	102	4300	43	101
	4430	50	89	5000	50	100	4860	50	97
	4910	57	86	5770	57	101	5400	57	95
	5520	64	86	6360	64	99	6080	64	95
1690mmx65mm	1590	16	102	1770	16	113	1750	16	112
	2390	23	103	2530	23	109	2630	23	113
	3190	31	103	3300	31	106	3500	31	113
	3490	39	90	4030	39	104	3940	39	101
	4180	47	90	4750	47	102	4690	47	101
	4830	54	89	5460	54	100	5300	54	97
	5360	62	86	6300	62	101	5900	62	95
	6030	70	86	6940	70	99	6630	70	95

Choose the luminaire type and dimensions

Type 10

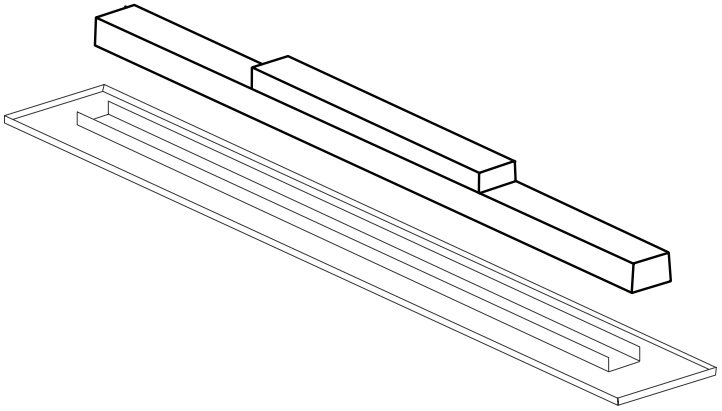


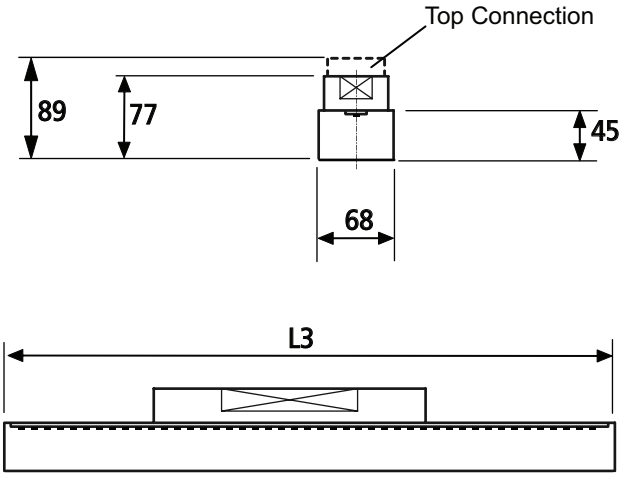
Type 11

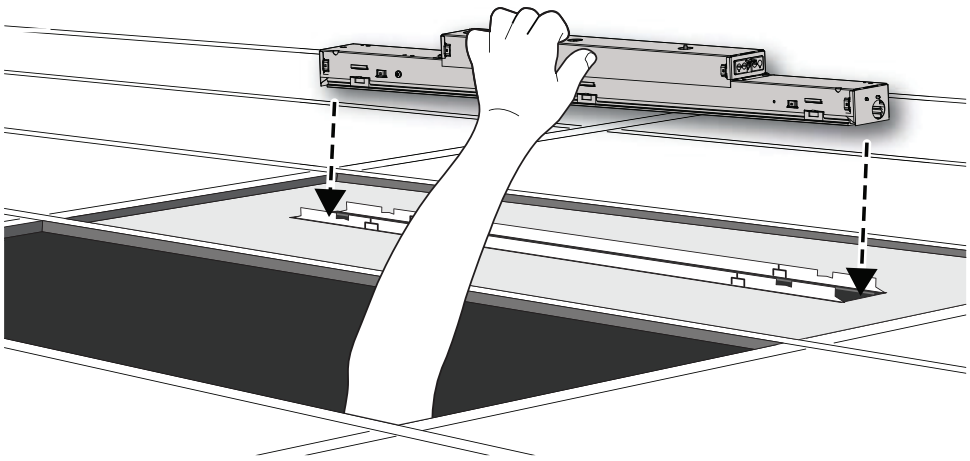


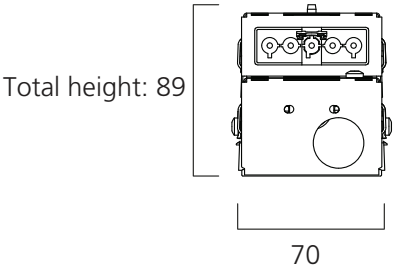
Unique partnership opportunity with ceiling manufacturer

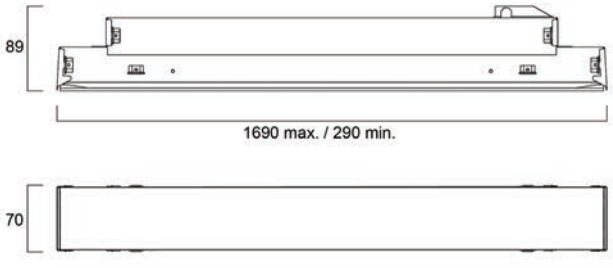
Type 12 L3 from 290 to 1690mm







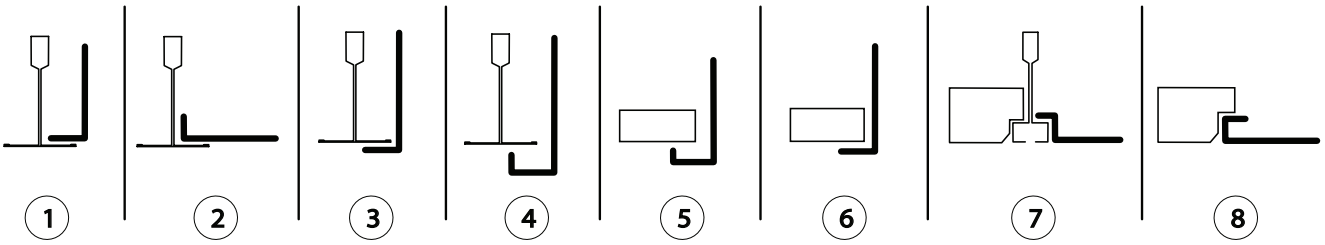


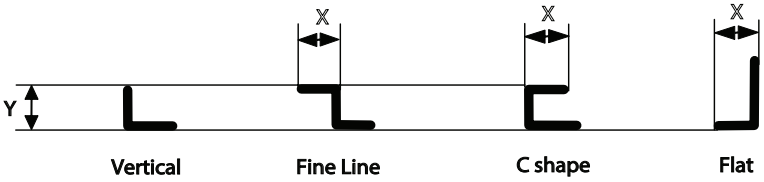


The ceiling manufacturer creates a special ceiling tile (with 3D models provided by Sylvania R&D team) ready to welcome the luminaire. It allows to bring light to any type of ceiling tile and enhance the architectural design.

Choose the ceiling installation mode

Ceiling Mounting





	Vertical	Fine Line	C Shape	Flat
X	-	6 to 10	Y x 0,75 max.	6 to 15
Y	9 tp 50	10 to 50	9 to 50	-

Lighting Control

Passive InfraRed (PIR)

MicroWave

IDIM Sense

SylSmart SSC

SylSmart SSH

Any Other Lighting Control

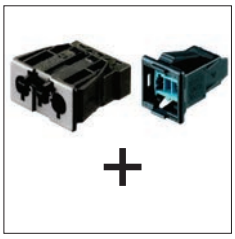
Male connector on luminaire

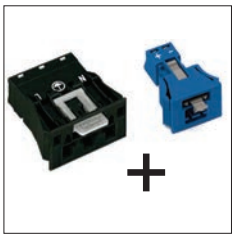
Wieland 3P

Wago 3P

Wieland 5P

Wago 5P


Wieland 3P+2P


Wago 3P+2P

Female connector (customer side) on request

Wieland 3P

Wago 3P

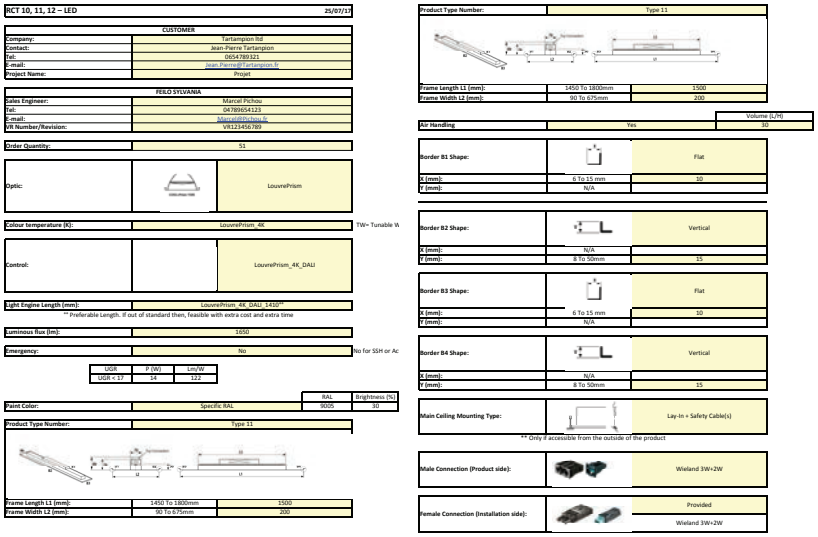
Wieland 5P

Wago 5P

Wieland 3P+2P

Wago 3P+2P

All specifications are then keyed in a configuration tool…



RCT 10, 11, 12 – LED — 25/07/17

CUSTOMER	
Company:	Tartampion ltd
Contact:	Jean-Pierre Tartanpion
Tel:	0654789321
E-mail:	jean.Pierre@Tartampion.fr
Project Name:	Projet

FEILO SYLVANIA	
Sales Engineer:	Marcel Pichou
Tel:	0478965412 3
E-mail:	Marcel@Pichou.fr
VR Number/Revision:	VR123456789

Order Quantity:	51
Optic:	LouvrePrism
Colour temperature (K):	LouvrePrism_4K — TW= Tunable W
Control:	LouvrePrism_4K_DALI
Light Engine Length (mm):	LouvrePrism_4K_DALI_1450**

** Preferable Length. If out of standard then, feasible with extra cost and extra time

Luminous flux (lm):	1650
Emergency:	No — No for SSH or Ac

UGR	P (W)	Lm/W
UGR < 17	14	122

		RAL	Brightness (%)
Paint Color:	Specific RAL	9005	30

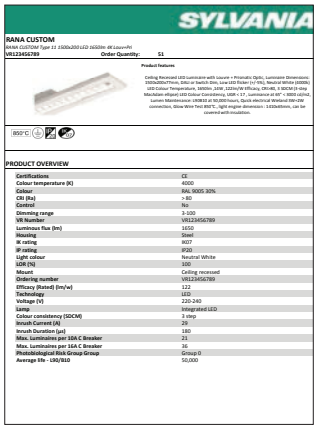
Product Type Number:	Type 11	
Frame Length L1 (mm):	1450 To 1800mm	1500
Frame Width L2 (mm):	90 To 675mm	200

Product Type Number:	Type 11		
Frame Length L1 (mm):	1450 To 1800mm	1500	
Frame Width L2 (mm):	90 To 675mm	200	
Air Handling	Yes	Volume (L/H)	30
Border B1 Shape:		Flat	
X (mm):	6 To 15 mm	10	
Y (mm):	N/A		
Border B2 Shape:		Vertical	
X (mm):	N/A		
Y (mm):	8 To 50mm	15	
Border B3 Shape:		Flat	
X (mm):	6 To 15 mm	10	
Y (mm):	N/A		
Border B4 Shape:		Vertical	
X (mm):	N/A		
Y (mm):	8 To 50mm	15	
Main Ceiling Mounting Type:		Lay-In + Safety Cable(s)	

** Only if accessible from the outside of the product

Male Connection (Product side):		Wieland 3W+2W
Female Connection (Installation side):		Provided
		Wieland 3W+2W

which automatically generates a 5 page data sheet :



SYLVANIA

RANA CUSTOM

PRODUCT OVERVIEW

Certifications	CE
Colour temperature (K)	4000
Colour	RAL 9005 30%
CRI (Ra)	>80
Control	No
Dimming range	3-100
VR Number	VR123456789
Luminous flux (lm)	1650
Housing	Steel
IK rating	IK07
IP rating	IP20
Light colour	Neutral White
UGR (h)	100
Mount	Ceiling recessed
Ordering number	VR123456789
Efficacy (Rated) (lm/w)	122
Technology	LED
Voltage (V)	220-240
Lamp	Integrated LED
Colour consistency (SDCM)	3 step
Inrush Current (A)	29
Inrush Duration (µs)	180
Max. Luminaires per 10A C Breaker	21
Max. Luminaires per 16A C Breaker	36
Photobiological Risk Group Group	Group 0
Average life - L90/B10	50,000

SYLVANIA

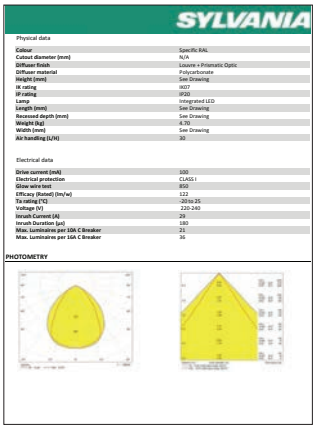
DATA TABLE

General data

Certifications	CE
Control gear type	Electronic
Dimmable	DALI or Switch Dim
VR Number	VR123456789
Environment	Internal
Fixture rating	Closed
General application	Office, Education; Retail; Hospitality
Housing	Steel
Mount	Ceiling Recessed
Product name	RC Type 11 1500x200 LED 1650lm 4K Louv+Pri
Technology	LED
Total power consumption (W)	14

Optical data

Average life - L90/B10 (H)	50,000
Colour temperature (K)	4000
CRI (Ra)	> 80
Dimming range	
Distribution type	Direct
Luminous flux (lm)	1650
Glare control	UGR < 17
Light colour	Neutral White
LOR (%)	100
Colour consistency (SDCM)	3 step
Photobiological Risk Group	Group 0



SYLVANIA

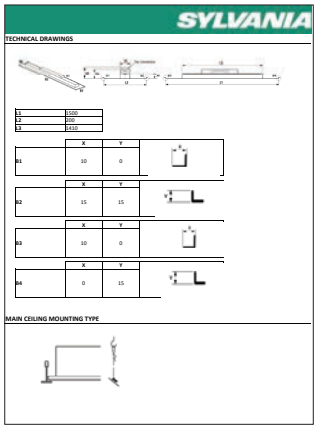
Physical data

Colour	Specific RAL
Cutout diameter (mm)	N/A
Diffuser finish	Louvre + Prismatic Optic
Diffuser material	Polycarbonate
Height (mm)	See Drawing
IK rating	IK07
IP rating	IP20
Lamp	Integrated LED
Length (mm)	See Drawing
Recessed depth (mm)	See Drawing
Weight (kg)	4.70
Width (mm)	See Drawing
Air handling (L/H)	30

Electrical data

Drive current (mA)	100
Electrical protection	CLASS I
Glow wire test	850
Efficacy (Rated) (lm/w)	122
Ta rating (°C)	25-to-25
Voltage (V)	220-240
Inrush Current (A)	29
Inrush Duration (µs)	180
Max. Luminaires per 10A C Breaker	21
Max. Luminaires per 16A C Breaker	36

PHOTOMETRY



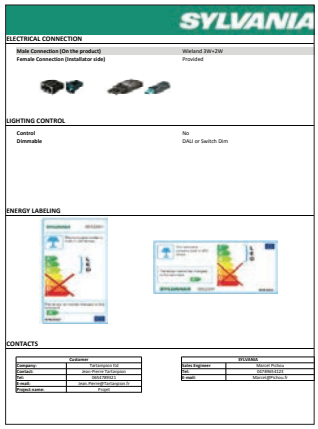
SYLVANIA

TECHNICAL DRAWINGS

L1	1500
L2	200
L3	1410

	X	Y
B1	10	0
B2	15	15
B3	10	0
B4	0	15

MAIN CEILING MOUNTING TYPE



SYLVANIA

ELECTRICAL CONNECTION

Male Connection (On the product)	Wieland 3W+2W
Female Connection (Installator side)	Provided

LIGHTING CONTROL

Control	No
Dimmable	DALI or Switch Dim

ENERGY LABELING

CONTACTS

Customer	
Company:	Tartampion ltd
Contact:	Jean-Pierre Tartanpion
Tel:	0654789321
E-mail:	Jean.Pierre@Tartampion.fr
Project name:	Projet

SYLVANIA	
Sales Engineer	Marcel Pichou
Tel:	0478965123
E-mail:	Marcel@Pichou.fr

L'arbre de vie - Marcinelle, Belgium

Control Gear: Electronic
Dimmable: DALI dimmable
Diffuser: UV stabilised polycarbonate body and diffuser

- Start Panel LED is a range of recessed LED luminaires designed for general indoor lighting applications such as corridors, breakout areas, offices and meeting rooms
- Start Panel LED range is back lit which means it generates a greater lumen efficacy (up to 119lm/W UGR<19) than standard edge lit panels
- The optical Start Panel LED range comprises of standard, high output switched DALI dimmable and UGR<19 compliant luminaires

Start Panel LED Gen 4

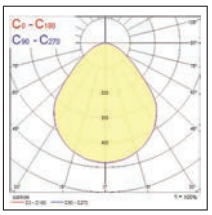
- Low glare UGR<19, below the maximum permissible value for office lighting (complies to EN12464-1)
- Back lit panel with opal diffuser and UGR<19 film behind diffuser creates a brilliant even distribution of light
- Perfect for general lighting applications such as circulation areas, corridors and breakout areas
- Delivers high efficacy: up to 119lm/W (4300lm)
- Designed for 600 x 600mm t-grid ceiling panels
- Warm white (3,000K) or neutral white (4,000K)
- Slim profile of 65mm for minimal impact into ceiling void
- Quick and easy to install
- Plasterboard ceiling accessory available for easy installation
- Less maintenance is required due to the long lifetime of 50,000hrs (L70)
- Emergency conversion kit available (50-240V forward voltage) (excluding SylSmart versions)

LIGHT SOURCE INCLUDED

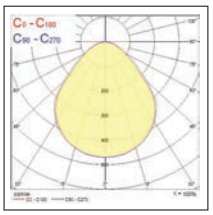
SYLSMART

SylSmart versions. Please see SylSmart section for details

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section



G4 - 3,000K



G4 - 4,000K

UGR<19 modules

Code	Description
600 x 600mm	
0047784	Start Panel UGR19 600 4100lm 3000K G4
0047785	Start Panel UGR19 600 4300lm 4000K G4

UGR<19 DALI dimmable modules

Code	Description
600 x 600mm	
0047786	Start Panel UGR19 600 4100lm 3000K DALI G4
0047787	Start Panel UGR19 600 4300lm 4000K DALI G4

UGR<19 SylSmart Controlled versions

Code	Description
600 x 600mm	
0047010	START PANEL UGR19 600 3000K G4 SSH01
0047011	START PANEL UGR19 600 4000K G4 SSH01

Legend: 600 = 600 x 600mm module; WW = Warm White; NW = Neutral White

Accessories

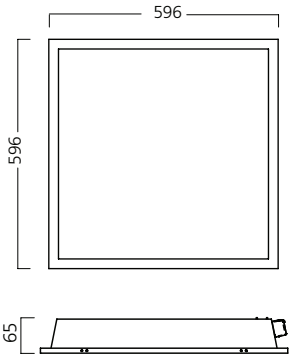
Code	Description
0047595	Panel 50-240V Emergency Kit*
0047416	Plasterboard Ceiling Frame 600x600

* excluding SylSmart versions

0047416

0047595

600 x 600mm module



Dimensions (mm)

Performance Table

Fixture	3,000K	4,000K
Lumen Output	4,100lm	4,300lm
Power	36W	36W
Efficacy	114lm/W	119lm/W

Eldon House - London,U.K

Design Museum, UK

SURFACE & SUSPENDED

Concord

47 Curvelyte

51 Mini Continuum II

58 Lytepanel II

61 Unity II

67 Ovation 65

SYLVANIA

75 DeltaWing LED

Longbow House, London, U.K.

- Concord Curvelyte exemplifies a high level detail aesthetic which appeals to designers within the built environment seeking a minimalist design. With its curved lines for a clean, sharp and sleek architectural look Curvelyte is unique.
- Not just a pretty face, Curvelyte is also innovative featuring an LED light guide with a double row of LEDs providing both direct and indirect light distribution.

CurveLyte

- Unique curved lighting shape perfect for offices, schools and conference rooms
- Direct - Indirect (70/30) lighting for ambient illumination
- UGR 19 versions for visual comfort LG, (Low Glare)
- Uniform light for aesthetics
- Powered through suspension cable for easy installation and low visual impact
- Surface mount accessories are available in different colours and shapes to enhance ceiling appearance
- Highly efficient - up to 131 lumens / Watt
- L90B10 @ 50,000 hours., Long service life with lumen maintenance of 90% at 50,000 hours
- Low LED flicker <5%
- Color Rendering Index (Ra)>80 for office applications
- LED Color consistency between luminaries <3 SDCM
- DALI (Switch-dim) dimmable
- Silver versions available upon request

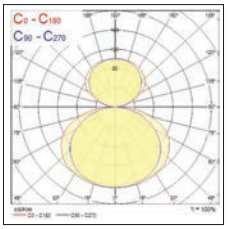
LIGHT SOURCE INCLUDED

IP20 IK06

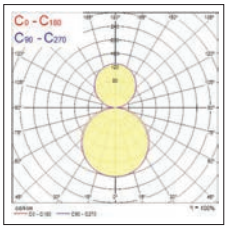
Curvelyte

Code	Description
Black	
2093175	Curvelyte 1265 HO D/I 3K DALI Black
2093176	Curvelyte 1265 HO D/I 4K DALI Black
2093186	Curvelyte 1265 HO LG D/I 3K DALI Black
2093187	Curvelyte 1265 HO LG D/I 4K DALI Black
White	
2093180	Curvelyte 1265 HO D/I 3K DALI White
2093181	Curvelyte 1265 HO D/I 4K DALI White
2093188	Curvelyte 1265 HO LG D/I 3K DALI White
2093189	Curvelyte 1265 HO LG D/I 4K DALI White

Legend: 1265 = 1265 mm; HO = High Output; LG = Low Glare (UGR=19); D/I = Direct / Indirect Lighting 70/30%; 3K = Warm White 3000K; 4K = Neutral White 4000K



Standard version



Low Glare version (LG)

Black Cylinder + Rectangular Box Surface Accessory

White Cylinder + Rectangular Box Surface Accessory

Accessories

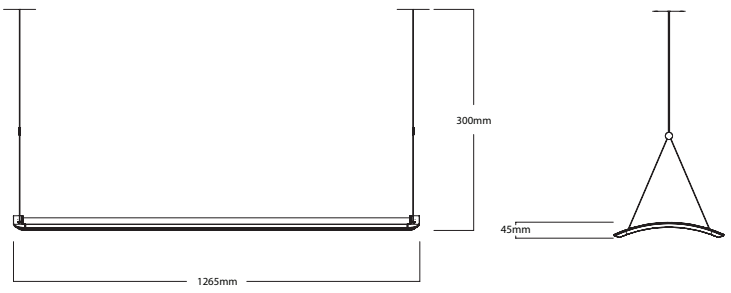
Code	Description
2093177	Surface Mount box 1 cylinder 1 rectangular Black
2093169	Surface Mount box 1 cylinder 1 rectangular White
2093168	Surface Mount box 1 cylinder 1 rectangular Silver
2093178	Surface Mount box 2 rectangular Black
2093171	Surface Mount box 2 rectangular White
2093170	Surface Mount box 2 rectangular Silver

Black 2 x Rectangular Box Surface Accessory

White 2 x Rectangular Box Surface Accessory

Curvelyte LED Performance Matrix

Description	Fixture Power (W)	Luminous Flux (lm)	Efficacy (lm/W)	UGR
Curvelyte 1265 HO D/I 3K DALI Black	55	6250	114	22
Curvelyte 1265 HO D/I 4K DALI Black	55	6750	123	22
Curvelyte 1265 HO LG D/I 3K DALI Black	55	5000	91	19
Curvelyte 1265 HO LG D/I 4K DALI Black	55	5450	99	19
Curvelyte 1265 HO D/I 3K DALI White	55	6600	120	23
Curvelyte 1265 HO D/I 4K DALI White	55	7200	131	23
Curvelyte 1265 HO LG D/I 3K DALI White	55	5300	96	19
Curvelyte 1265 HO LG D/I 4K DALI White	55	5800	105	19



Dimensions (mm)

Longbow House, London, U.K

Mazda Croydon, UK

- Mini Continuum II introduces a uniquely clean, simple LED lighting system offering continuous, highly uniform lines of light across walls and ceilings
- This highly versatile lighting tool can be recessed, semi-recessed, surface-mounted or suspended, either vertically or horizontally
- Available as direct/indirect or direct only distribution - both of which can be interconnected
- Every batten has a plug and socket arrangement for easy and rapid electrical installation
- Mini Continuum II Direct is available in two versions: one with an outside trim detail for plasterboard ceilings; and a trimless version for when a seamless effect is required
- Dimmable DALI versions and 3hr non-maintained integral emergency options are available as standard options
- Long lifetime : 60,000 hours life at 90% of the original output (L90)

Mini Continuum II

- Mini Continuum II provides a perfectly clean horizontal and vertical lines of homogenous light with no shadows
- Minimalist design based on the Golden mean or ratio; which is regarded as the secret to aesthetics
- Easy and rapid installation using the plug and socket arrangement
- End caps, suspensions and connectors accessories to be ordered seperately
- Colour rendering index, Ra80
- 65% downward light, 35% upward light
- White RAL 9016 as standard, other RAL colours available on request
- Direct / Indirect seperate switching via DALI
- DALI versions can be installed as standard on/off switchable

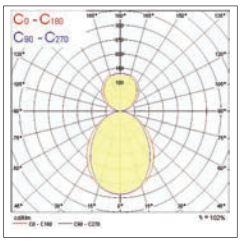
LIGHT SOURCE INCLUDED

IP20 960°C

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Opal Diffuser

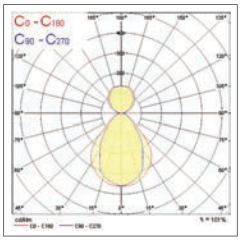
Code	Description	Length
3,000K		
2093089	MC2 DIRECT/INDIRECT 1.2M 3000K DALI WHITE OPAL	1.2M
2093090	MC2 DIRECT/INDIRECT 1.2M 3000K DALI EM WHITE OPAL	1.2M
2093091	MC2 DIRECT/INDIRECT 2.4M 3000K DALI WHITE OPAL	2.4M
2093092	MC2 DIRECT/INDIRECT 2.4M 3000K DALI EM WHITE OPAL	2.4M
4,000K		
2059332	MC2 DIRECT/INDIRECT 1.2M 4000K DALI WHITE OPAL	1.2M
2059333	MC2 DIRECT/INDIRECT 1.2M 4000K DALI EM WHITE OPAL	1.2M
2059334	MC2 DIRECT/INDIRECT 2.4M 4000K DALI WHITE OPAL	2.4M
2059335	MC2 DIRECT/INDIRECT 2.4M 4000K DALI EM WHITE OPAL	2.4M



Opal - 4,000K - 1.2M

Micro Prismatic Diffuser

Code	Description	Length
3,000K		
2093093	MC2 DIRECT/INDIRECT 1.2M 3000K DALI WHITE PRISMATIC	1.2M
2093094	MC2 DIRECT/INDIRECT 1.2M 3000K DALI EM WHITE PRISMATIC	1.2M
2093095	MC2 DIRECT/INDIRECT 2.4M 3000K DALI WHITE PRISMATIC	2.4M
2093096	MC2 DIRECT/INDIRECT 2.4M 3000K DALI EM WHITE PRISMATIC	2.4M
4,000K		
2059336	MC2 DIRECT/INDIRECT 1.2M 4000K DALI WHITE PRISMATIC	1.2M
2059337	MC2 DIRECT/INDIRECT 1.2M 4000K DALI EM WHITE PRISMATIC	1.2M
2059338	MC2 DIRECT/INDIRECT 2.4M 4000K DALI WHITE PRISMATIC	2.4M
2059339	MC2 DIRECT/INDIRECT 2.4M 4000K DALI EM WHITE PRISMATIC	2.4M



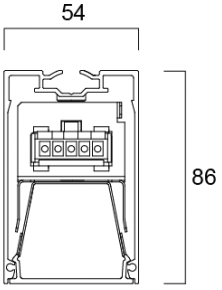
Prismatic - 4,000K - 1.2M

** End caps, connectors and suspensions to be ordered separately. See Mini Continuum II - Accessories on Page 49*

Mini Continuum II - Direct/Indirect
Performance Matrix

Fixture	1.2M	1.2M
Diffuser	Opal	Prismatic
Colour Temperature	4,000K	4,000K
Fixture Lumens	4032lm	3895lm
Actual Power	32W	32W
Lumens / Circuit Watt *	126lm/W	122lm/W

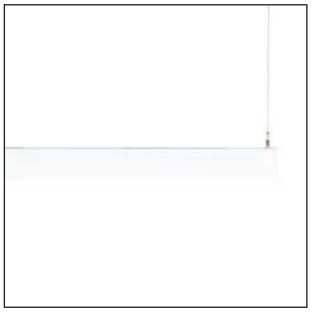
**Lumens / Circuit Watt = (Fixture Lumens)/Power*



Dimensions (mm)

* same dimensions as direct only modules

Mini Continuum II - Direct/Indirect - Suspended Kit



- Mini Continuum II provides a perfectly clean horizontal and vertical lines of homogenous light with no shadows
- Minimalist design based on the Golden mean or ratio; which is regarded as the secret to aesthetics
- Suspended Kit version comes complete with end caps and suspension cables for easy installation
- Colour rendering index, Ra80
- 65% downward light, 35% upward light
- White RAL 9016 as standard, other RAL colours available on request
- Direct / Indirect seperate switching via DALI
- DALI versions can be installed as standard on/off switchable

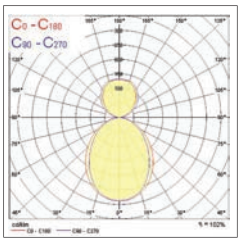
LIGHT SOURCE INCLUDED

IP20 960°C

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Opal Diffuser

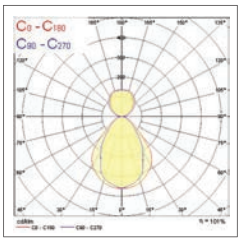
Code	Description	Length
3,000K		
2093105	MC2 DIRECT/INDIRECT KIT 1.2M 3000K DALI WHITE OPAL	1.2M
2093106	MC2 DIRECT/INDIRECT KIT 1.2M 3000K DALI EM WHITE OPAL	1.2M
2093107	MC2 DIRECT/INDIRECT KIT 2.4M 3000K DALI WHITE OPAL	2.4M
2093108	MC2 DIRECT/INDIRECT KIT 2.4M 3000K DALI EM WHITE OPAL	2.4M
4,000K		
2093097	MC2 DIRECT/INDIRECT KIT 1.2M 4000K DALI WHITE OPAL	1.2M
2093098	MC2 DIRECT/INDIRECT KIT 1.2M 4000K DALI EM WHITE OPAL	1.2M
2093099	MC2 DIRECT/INDIRECT KIT 2.4M 4000K DALI WHITE OPAL	2.4M
2093100	MC2 DIRECT/INDIRECT KIT 2.4M 4000K DALI EM WHITE OPAL	2.4M



Opal - 4,000K - 1.2M

Micro Prismatic Diffuser

Code	Description	Length
3,000K		
2093109	MC2 DIRECT/INDIRECT KIT 1.2M 3000K DALI WHITE PRISMATIC	1.2M
2093110	MC2 DIRECT/INDIRECT KIT 1.2M 3000K DALI EM WHITE PRISMATIC	1.2M
2093111	MC2 DIRECT/INDIRECT KIT 2.4M 3000K DALI WHITE PRISMATIC	2.4M
2093112	MC2 DIRECT/INDIRECT KIT 2.4M 3000K DALI EM WHITE PRISMATIC	2.4M
4,000K		
2093101	MC2 DIRECT/INDIRECT KIT 1.2M 4000K DALI WHITE PRISMATIC	1.2M
2093102	MC2 DIRECT/INDIRECT KIT 1.2M 4000K DALI EM WHITE PRISMATIC	1.2M
2093103	MC2 DIRECT/INDIRECT KIT 2.4M 4000K DALI WHITE PRISMATIC	2.4M
2093104	MC2 DIRECT/INDIRECT KIT 2.4M 4000K DALI EM WHITE PRISMATIC	2.4M



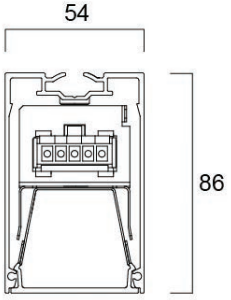
Prismatic - 4,000K - 1.2M

*Suspension Kit versions come complete with End caps (x2) and Mechanical Wire Suspensions (x2)

Mini Continuum II - Direct/Indirect Performance Matrix

Fixture	1.2M	1.2M
Diffuser	Opal	Prismatic
Colour Temperature	4,000K	4,000K
Fixture Lumens	4032lm	3895lm
Actual Power	32W	32W
Lumens / Circuit Watt *	126lm/W	122lm/W

**Lumens / Circuit Watt = (Fixture Lumens)/Power*



Dimensions (mm)

- Mini Continuum II provides a perfectly clean horizontal and vertical lines of homogenous light with no shadows
- Minimalist design based on the Golden mean or ratio; which is regarded as the secret to aesthetics
- This versatile solution can be recessed, semi-recessed, surface-mounted or suspended; either horizontally or vertically
- Trimless (for a seamless finish) versions are available for recessed or suspended installation
- Easy and rapid installation using the plug and socket arrangement
- Colour rendering index, Ra80
- End caps, suspensions and connectors accessories to be ordered seperately
- White RAL 9016 as standard, other RAL colours available
- DALI versions can be installed as standard on/off switchable

LIGHT SOURCE INCLUDED

IP20

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

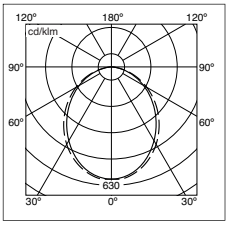
Continuum T5 - 95 mm cut-out width available upon request

Mini Continuum II - Direct - Trimless - 3000K

Code	Description	Length
2093121	MC2 1.2M 3,000K DALI WHITE OPAL	1.2M
2093122	MC2 1.2M 3,000K DALIEM WHITE OPAL	1.2M
2093123	MC2 2.4M 3,000K DALI WHITE OPAL	2.4M
2093124	MC2 2.4M 3,000K DALIEM WHITE OPAL	2.4M
2093125	MC2 3.6M 3,000K DALI WHITE OPAL	3.6M
2093126	MC2 3.6M 3,000K DALIEM WHITE OPAL	3.6M

Mini Continuum II - Direct - Trimless - 4000K

Code	Description	Length
2093115	MC2 1.2M 4,000K DALI WHITE OPAL	1.2M
2093116	MC2 1.2M 4,000K DALIEM WHITE OPAL	1.2M
2093117	MC2 2.4M 4,000K DALI WHITE OPAL	2.4M
2093118	MC2 2.4M 4,000K DALIEM WHITE OPAL	2.4M
2093119	MC2 3.6M 4,000K DALI WHITE OPAL	3.6M
2093120	MC2 3.6M 4,000K DALIEM WHITE OPAL	3.6M



Direct - 4,000K - 1.2M

Mini Continuum II - Direct - Trimless Extensions

Code	Description	Length
2093159	MC2 0.6M 3,000K DALI WHITE OPAL	0.6M
2093163	MC2 0.9M 3,000K DALI WHITE OPAL	0.9M
2093158	MC2 0.6M 4,000K DALI WHITE OPAL	0.6M
2093162	MC2 0.9M 4,000K DALI WHITE OPAL	0.9M

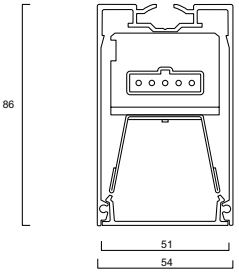
** End caps, connectors and suspensions to be ordered separately. See Mini Continuum II - Accessories on Page 49*
Legend: MC2 = Mini Continuum II; DALIEM = DALI Emergency

Mini Continuum II - Direct Performance Matrix

Fixture	1.2M
Diffuser	Opal
Colour Temperature	4,000K
Fixture Lumens	2,340lm
Actual Power	21W
Lumens / Circuit Watt *	111lm/W

**Lumens / Circuit Watt = (Fixture Lumens)/Power*

Mini Continuum Trimless



* same dimensions as direct / indirect modules

- Mini Continuum II provides a perfectly clean horizontal and vertical lines of homogenous light with no shadows
- Minimalist design based on the Golden mean or ratio; which is regarded as the secret to aesthetics
- This versatile solution can be recessed, semi-recessed, surface-mounted or suspended; either horizontally or vertically
- Trim (with an outside detail for plasterboard ceilings) versions are available for recessed installation
- Easy and rapid installation using the plug and socket arrangement
- End caps, suspensions and connectors accessories to be ordered seperately
- Colour rendering index, Ra80
- White RAL 9016 as standard, other RAL colours available on request
- DALI versions can be installed as standard on/off switchable

LIGHT SOURCE INCLUDED

IP20 960°C

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

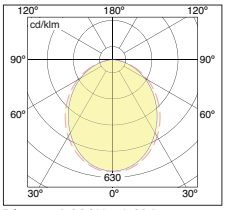
Continuum T5 - 95 mm cut-out width available upon request

Mini Continuum II - Direct - Trim - 3000K

Code	Description	Length
2093133	MC2 TRIM 1.2M 3,000K DALI WHITE OPAL	1.2M
2093134	MC2 TRIM 1.2M 3,000K DALIEM WHITE OPAL	1.2M
2093135	MC2 TRIM 2.4M 3,000K DALI WHITE OPAL	2.4M
2093136	MC2 TRIM 2.4M 3,000K DALIEM WHITE OPAL	2.4M
2093137	MC2 TRIM 3.6M 3,000K DALI WHITE OPAL	3.6M
2093138	MC2 TRIM 3.6M 3,000K DALIEM WHITE OPAL	3.6M

Mini Continuum II - Direct - Trim - 4000K

Code	Description	Length
2093127	MC2 TRIM 1.2M 4,000K DALI WHITE OPAL	1.2M
2093128	MC2 TRIM 1.2M 4,000K DALIEM WHITE OPAL	1.2M
2093129	MC2 TRIM 2.4M 4,000K DALI WHITE OPAL	2.4M
2093130	MC2 TRIM 2.4M 4,000K DALIEM WHITE OPAL	2.4M
2093131	MC2 TRIM 3.6M 4,000K DALI WHITE OPAL	3.6M
2093132	MC2 TRIM 3.6M 4,000K DALIEM WHITE OPAL	3.6M



Direct - 4,000K - 1.2M

Mini Continuum II - Direct - Trim - Extensions

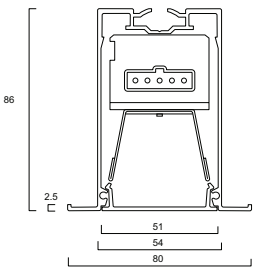
Code	Description	Length
2093161	MC2 TRIM 0.6M 3,000K DALI WHITE OPAL	0.6M
2093165	MC2 TRIM 0.9M 3,000K DALI WHITE OPAL	0.9M
2093160	MC2 TRIM 0.6M 4,000K DALI WHITE OPAL	0.6M
2093164	MC2 TRIM 0.9M 4,000K DALI WHITE OPAL	0.9M

** End caps, connectors and suspensions to be ordered separately. See Mini Continuum II - Accessories on Page 49*
Legend: MC2 = Mini Continuum II; DALIEM = DALI Emergency

Mini Continuum II - Direct/ Performance Matrix

Fixture	1.2M
Diffuser	Opal
Colour Temperature	4,000K
Fixture Lumens	2,340lm
Actual Power	21W
Lumens / Circuit Watt *	111lm/W

**Lumens / Circuit Watt = (Fixture Lumens)/Power*



Dimensions (mm)

Mini Continuum II - Direct - Suspended Kit

- Mini Continuum II provides a perfectly clean horizontal and vertical lines of homogenous light with no shadows
- Minimalist design based on the Golden mean or ratio; which is regarded as the secret to aesthetics
- Suspended Kit version comes complete with end caps and suspension cables for easy installation
- Colour rendering index, Ra80
- White RAL 9016 as standard, other RAL colours available on request
- DALI versions can be installed as standard on/off switchable

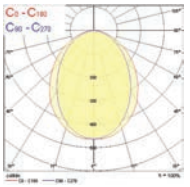
LIGHT SOURCE INCLUDED

IP20 960°C

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Opal Diffuser

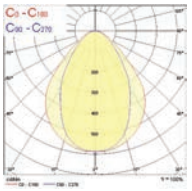
Code	Description	Length
3,000K		
2093147	MC2 KIT 1.2M 3,000K DALI WHITE OPAL	1.2M
2093148	MC2 KIT 1.2M 3,000K DALIEM WHITE OPAL	1.2M
2093149	MC2 KIT 2.4M 3,000K DALI WHITE OPAL	2.4M
2093150	MC2 KIT 2.4M 3,000K DALIEM WHITE OPAL	2.4M
4,000K		
2093139	MC2 KIT 1.2M 4,000K DALI WHITE OPAL	1.2M
2093140	MC2 KIT 1.2M 4,000K DALIEM WHITE OPAL	1.2M
2093141	MC2 KIT 2.4M 4,000K DALI WHITE OPAL	2.4M
2093142	MC2 KIT 2.4M 4,000K DALIEM WHITE OPAL	2.4M



Opal - 4,000K - 1.2M

Prismatic Diffuser

Code	Description	Length
3,000K		
2093151	MC2 KIT 1.2M 3,000K DALI WHITE PRISMATIC	1.2M
2093152	MC2 KIT 1.2M 3,000K DALIEM WHITE PRISMATIC	1.2M
2093153	MC2 KIT 2.4M 3,000K DALI WHITE PRISMATIC	2.4M
2093154	MC2 KIT 2.4M 3,000K DALIEM WHITE PRISMATIC	2.4M
4,000K		
2093143	MC2 KIT 1.2M 4,000K DALI WHITE PRISMATIC	1.2M
2093144	MC2 KIT 1.2M 4,000K DALIEM WHITE PRISMATIC	1.2M
2093145	MC2 KIT 2.4M 4,000K DALI WHITE PRISMATIC	2.4M
2093146	MC2 KIT 2.4M 4,000K DALIEM WHITE PRISMATIC	2.4M



Prismatic - 4,000K - 1.2M

**Suspension Kit versions come complete with End caps (x2) and Mechanical Wire Suspensions (x2)*

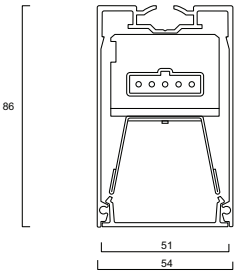
Legend: MC2 = Mini Continuum II; PRIS = PRISmatic; DALIEM = DALI Emergency

Mini Continuum II - Direct - Suspended Kit Performance Matrix

Fixture	1.2M	1.2M
Diffuser	Opal	Prismatic
Colour Temperature	4,000K	4,000K
Fixture Lumens	2,340lm	2,113lm
Actual Power	21W	21W
Lumens / Circuit Watt *	111lm/W	101lm/W

**Lumens / Circuit Watt = (Fixture Lumens)/Power*

Mini Continuum Trimless



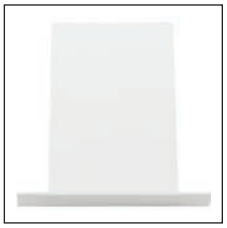
Accessories

90° HORIZONTAL-CORNER WHITE OPAL

90° VERTICAL-CORNER WHITE OPAL

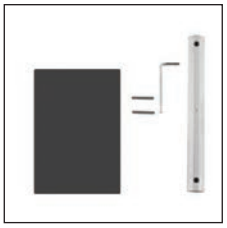
TRIM 90° HORIZONTAL-CORNER WHITE OPAL

TRIMLESS END CAP WHITE



TRIM END CAP WHITE

ELECTRICAL 5-WAY CONNECTOR MAINS+DALI



MECHANICAL JOINER & GASKET

Mini Continuum II - End caps and Connector Accessories

Code	Description
2054910	MC2 TRIMLESS END CAP WHITE
2054912	MC2 TRIM END CAP WHITE
2054914	MC2 MECHANICAL JOINER & GASKET
2055380	MC2 ELECTRICAL 5WAY CONNECTOR MAINS+DALI
2093155	MC2 90° HORIZONTAL-CORNER WHITE OPAL
2093156	MC2 90° VERTICAL-CORNER WHITE OPAL
2093157	MC2 TRIM 90° HORIZONTAL-CORNER WHITE OPAL

Mini Continuum II - Mounting Accessories

Code	Description
2054909	MC2 PLASTERBOARD BRACKET
2035031	SINGLEWIRE MECHANICAL ONLY 3M CHROME SUSPENSION CABLE

Continuum T5 - 95 mm cut-out width accessories available upon request

Lytepanel II Surface Mount - High Efficiency

- Architectural flat panel with even homogenous light distribution
- Up to 4,454 fixture lumens
- Up to 144lm/w efficiency
- Special sizes and 3,000K versions available on request
- Utilises new highly transmissive diffuser material
- Suspension kits available

LIGHT SOURCE INCLUDED

IP40 650°C

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

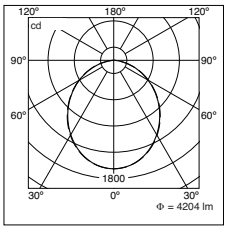
Lytepanel II 600 x 600mm - 4,000K

Code	Description	Lumen Output (lm)	Type
2059434	LYTEPANEL II 600 4K DALI SM	4,454	Standard/DALI Surface mount
2059435	LYTEPANEL II 600 4K DALI EM SM	4,454	DALI emergency surface mount

Lytepanel II 1200 x 300mm - 4,000K

Code	Description	Lumen Output (lm)	Type
2059438	LYTEPANEL II 1200x300 4K DALI SM	4,349	Standard/DALI Surface mount
2059439	LYTEPANEL II 1200x300 4K DALI EM SM	4,349	DALI emergency surface mount

Legend: SM = Surface Mount



Lytepanel 1,260 x 310 4,000K

Wire Suspension Kits

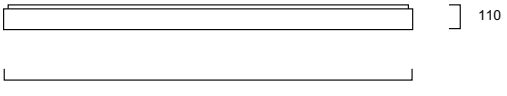
Code	Description
2035014	Single wire - Single Circuit Elec/Mech feed White
2035015	Single Wire - Three Circuit Elec/Mech feed White
2035016	Twin Wire - Mechanical only Chrome
2035017	Twin Wire - Single Circuit Elec/Mech feed Chrome
2035018	Twin wire - Three Circuit Elec/Mech feed White
2035031	Mechanical only Chrome

Lytepanel II - High Efficiency Performance Matrix - 600x600 4K

	600 x 600 4,000K	1,200 x 300 4,000K
Fixture lumens	4,454lm	4,349lm
Actual Power	31W	31W
Luminiaire Efficiency	144lm/W	140lm/W

Lytepanel 1,260 x 310

Side view



Dimensions (mm)

(1200 x 300 version)

- Architectural flat panel with even homogenous light distribution
- Low Glare, UGR < 18
- Up to 3,920 fixture lumens
- Up to 121lm/w efficiency
- Special sizes and 3,000K versions available on request
- Utilises new highly transmissive diffuser material
- Suspension kits available

LIGHT SOURCE INCLUDED

IP 40 650°C

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

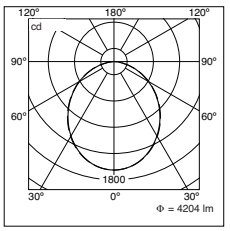
Lytepanel II 600 x 600mm - 4,000K

Code	Description	Lumen Output (lm)	Type
2059502	LYTEPANEL II 600 4K UGR DALI SM	3,920	Standard/DALI Surface mount
2059503	LYTEPANEL II 600 4K UGR DALI EM SM	3,920	DALI emergency surface mount

Lytepanel II 1200 x 300mm - 4,000K

Code	Description	Lumen Output (lm)	Type
2059506	LYTEPANEL II 1200x300 4K UGR DALI SM	3,775	Standard/DALI Surface mount
2059507	LYTEPANEL II 1200x300 4K UGR DALI EM SM	3,775	DALI emergency surface mount

Legend: SM = Surface Mount



Lytepanel 1,260 x 310 4,000K

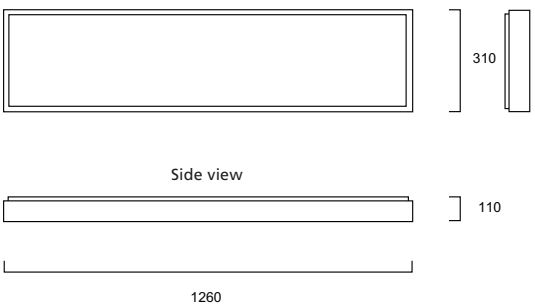
Wire Suspension Kits

Code	Description
2035014	Single wire - Single Circuit Elec/Mech feed White
2035015	Single Wire - Three Circuit Elec/Mech feed White
2035016	Twin Wire - Mechanical only Chrome
2035017	Twin Wire - Single Circuit Elec/Mech feed Chrome
2035018	Twin wire - Three Circuit Elec/Mech feed White
2035031	Mechanical only Chrome

Lytepanel II - Low Glare Performance Matrix

	600 x 600 4,000K	1200 x 300 4,000K
Fixture lumens	3,920lm	3,775lm
Actual Power	31W	31W
Luminaire efficiacy	126lm/W	121m/W
UGR (4H-8H)	< 18	< 18

Lytepanel 1,200mm x 300mm



Dimensions (mm)

(1,200 x 300 version)

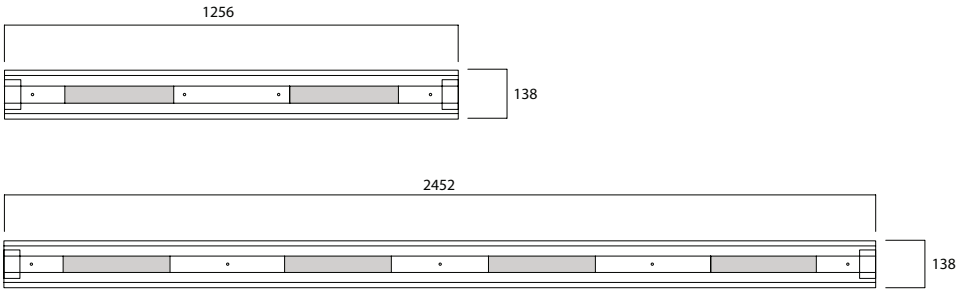
Southampton University, UK

Control Gear:	Electronic
Dimmable:	DALI
Emergency:	3 Hour and EMPRO
Optics:	Micro Prismatic
Diffuser Material:	Polycarbonate
Light Distribution:	Direct/Indirect
Housing Colour:	White (RAL 9016)
Housing Material:	Aluminium Extruded
Mounting:	Stainless steel wire suspension with griplock

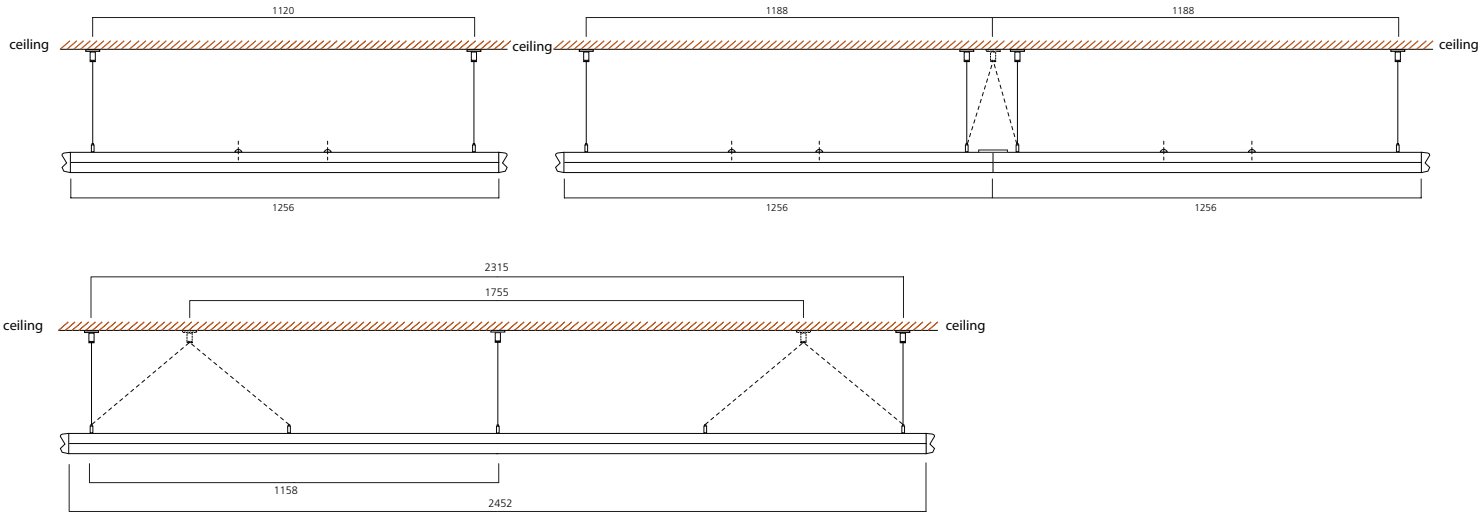
- Unity looks and performs like no other light fixture by combining uplighting and downlighting in a stylish fixture
- Unity is designed for creating innovative lighting runs and spatial frameworks in open plan office spaces, corridors, receptions, classrooms and libraries
- The Unity lighting system can be suspended both horizontally and down stairs. It is also possible to create square, rectangular and long-length formations
- Available in 1.2m and 2.4m lengths
- Long lifetime : 50,000 hours life at 70% of the original output L70

Unity II

Modules

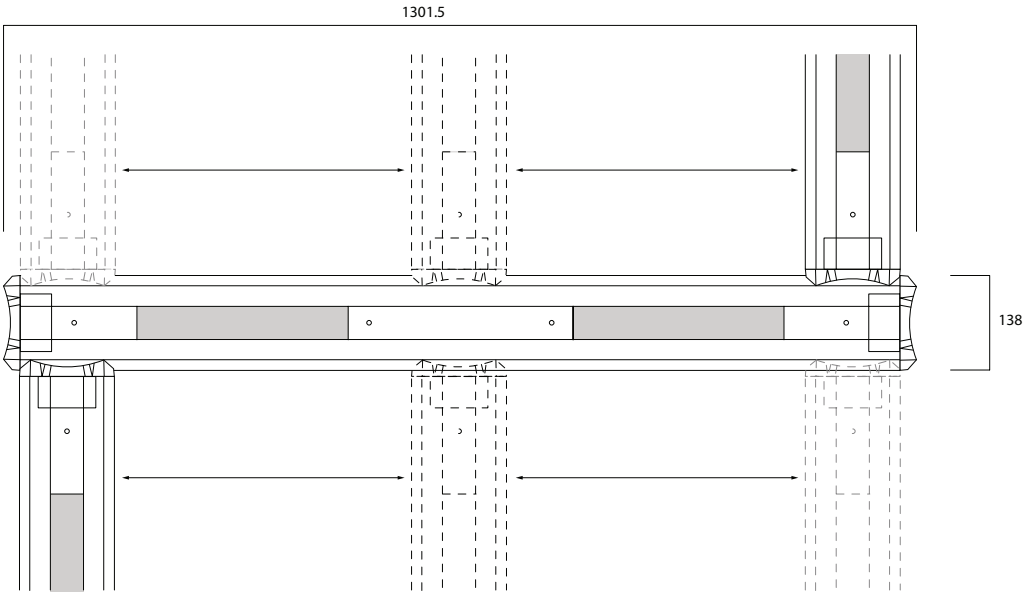


Suspension mount



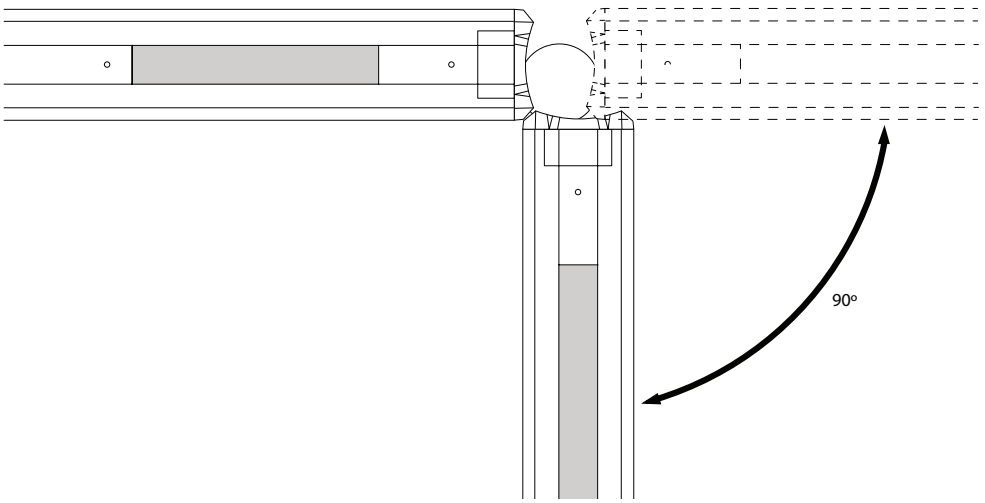
Various layouts

With Unity, there are many possibilities to light a space. The organic form and design allows for non-electrical, but seamless branching of modules along any point - as each linear run is individually powered.



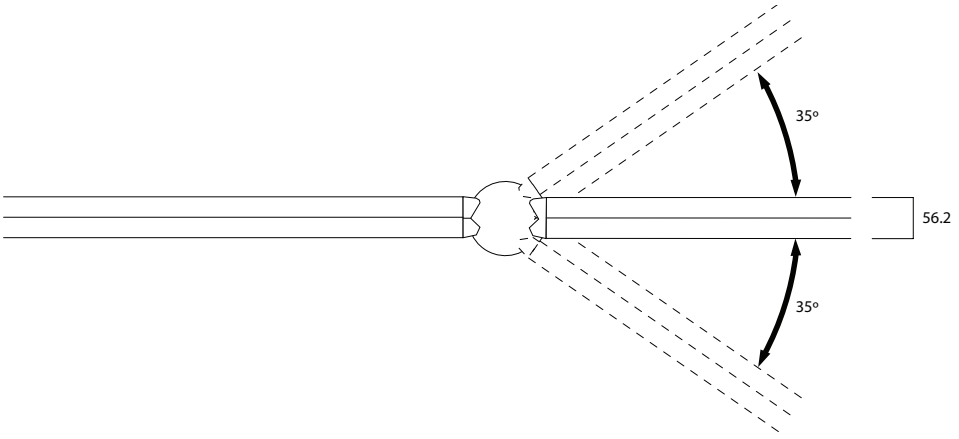
Horizontal Adjustable Corner Pivot

Pivot through 90° to create custom designs



Vertical Adjustable Pivot

Mount Unity up or downstairs or use in areas where elevation is required.



- Versatile suspended modular LED linear system
- Install horizontally or down stairwells using pivot accessories
- Create innovative lighting runs or spatial frameworks for open plan offices, corridors, classrooms or libraries
- Bi-directional lighting - 70% downwards and 30% upwards
- 1.2m and 2.4m aluminium extrusions - 'mix and match' differing lengths to create a perfect lighting system
- Rapid connector kit accessory - allowing for quick through wired installations of continuous straight runs
- PIR sensor module available
- UGR <19
- DALI, 3 hour emergency and EMPRO versions available
- 3,000K versions available on request
- White RAL9016 as standard, other RAL colours available on request
- DALI versions can be installed as standard on/off switchable

LIGHT SOURCE INCLUDED

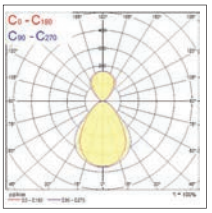
IP20 960°C

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Unity II - Micro Prismatic diffuser - 4,000K

Code	Description	Weight (Kg)	Colour
2059424	UNITY2 1.2M 4K DALI WHT	3.2	White
2059425	UNITY2 1.2M 4K DALI EM WHT	3.32	White
2059426	UNITY2 1.2M 4K DALI EMPRO WHT	3.32	White
2059427	UNITY2 2.4M 4K DALI WHT	6.6	White
2059428	UNITY2 2.4M 4K DALI EM WHT	6.62	White
2059429	UNITY2 2.4M 4K DALI EMPRO WHT	6.62	White

** End caps, connectors and suspensions to be ordered separately. See Unity II - Accessories on Page 63*

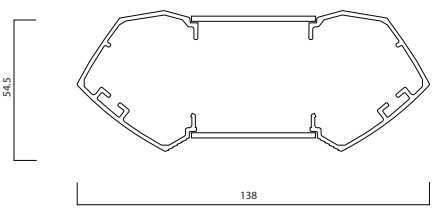


Unity II - 1.2M - 4,000K

Unity II Performance Matrix

Fixture	1.2M
Diffuser	Prismatic
Colour Temperature	4,000K
Fixture Lumens	3,422lm
Actual Power	36W
Lumens / Circuit Watt *	95lm/W

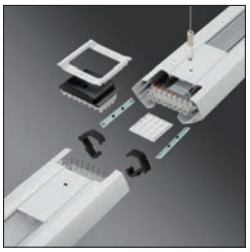
**Lumens / Circuit Watt = (Fixture Lumens)/Power*



Dimensions (mm)

Accessories

Horizontal pivot



Connector kit mech/elec exploded

Connector kit mech/elec assembled

End cap

Dummy module

Accessories

Code	Description
2057402	UNITY CONNECTOR KIT MECH/ELEC WHT
2057403	UNITY END CAP WHT x 1
2057405	UNITY H-ADJ CORNER PIVOT WHT
2057407	UNITY V-ADJ PIVOT WHT
2035031	SINGLEWIRE MECH ONLY 3M CHROME
2035016	TWINWIRE MECH ONLY 3M CHROME

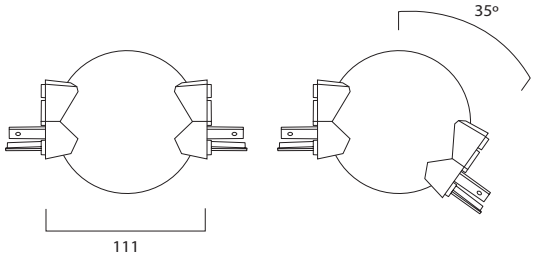
Dummy Modules

Code	Description
2057366	UNITY DUMMY 0.3M WHT
2057367	UNITY DUMMY 0.6M WHT
2057368	UNITY DUMMY 1.2M WHT

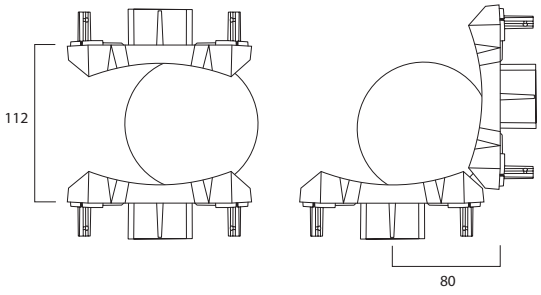
Sensor Modules

Code	Description
2058071	UNITY SENSOR MODULE 0.3M WHT PIR

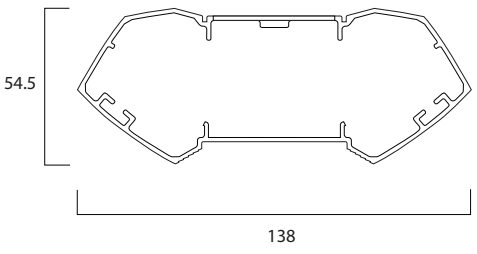
Unity Vertical-Adjustable Pivot



Unity Horizontal-Adjustable Corner Pivot



Unity Dummy profile



Dimensions (mm)

St.Gregory the Great, Oxford

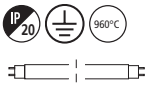
Control Gear:	Standard: integral electronic
Dimmable:	Digital dimmable PCA ECO Switch Dim and DSI compatible
Emergency:	Integral 3hr maintained Integral 3hr non maintained 2 x 1W 60˚ LED module
Connection:	Through wiring with 10A cables to five way terminal blocks
Reflector / Louvre:	Super pure aluminium, specular
Diffuser:	Direct: clear or opal prismatic Indirect: prismatic
Housing:	Extruded aluminium powder coated white RAL 9016 or silver RAL 9006
Track:	PVC carrier with copper power conductors

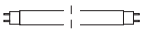
- Fluorescent, linear T5 direct / indirect and accent lighting
- All modules are interchangeable for maximum flexibility
- Low brightness controllers for minimal glare
- Contoured louvres maintain the oval profile of the modules
- Track modules accept Concord single circuit spotlights
- Rapid installation with optional plug and socket arrangement
- Digital dimmable Switch Dim and DSI compatible modules as standard
- A sleek tapered end cap to enhance the overall profile of the module
- Tapered end cap and dummy module options available with PIR occupancy and daylight management sensors
- Non maintained 3hr emergency module housing 2 x 1W 60˚ LED's

Ovation 65

- Fluorescent, linear T5 direct / indirect and accent lighting
- All modules are interchangeable for maximum flexibility
- Low brightness controllers for minimal glare
- Contoured louvres maintain the oval profile of the modules
- Rapid installation with optional plug and socket arrangement
- Supplied complete with 840 4,000K Sylvania Lamps
- High efficiency louvre with increased lumens per watt and energy savings (see next page)

LIGHT SOURCE INCLUDED





LED Versions available upon request

Luxline® Plus T5/T16 FHE
28/35W G5 2640/3320lm

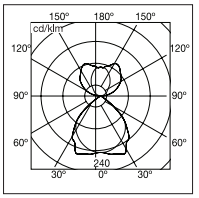
Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Direct/Indirect Module

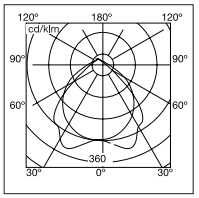
Supplied c/w Rear Prismatic Controller & 4,000K Sylvania lamps

Code	Description	Colour
2034223	2 x 28W T16 1,240mm	Electronic White
2034224	2 x 35W T16 1,540mm	Electronic White
2034225	2 x 28W T16 1,240mm	Electronic Silver
2034226	2 x 35W T16 1,540mm	Electronic Silver
2034313	2 x 28W T16 1,240mm	Emergency White
2034314	2 x 35W T16 1,540mm	Emergency White
2034315	2 x 28W T16 1,240mm	Emergency Silver
2034316	2 x 35W T16 1,540mm	Emergency Silver

NOTE: Order louvre/diffuser, end caps and suspensions separately



DLOR = 0.43 ULOR = 0.36
2034226 + 9129181



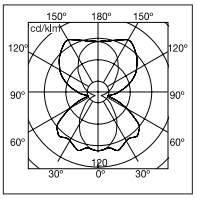
DLOR = 0.65 ULOR = 0.00
2034226 + 2038208

Direct/Indirect Digital Dimmable Module

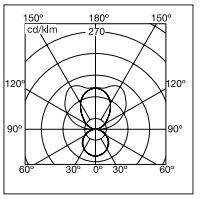
Supplied c/w Rear Prismatic Controller & 4,000K Sylvania lamps

Code	Description	Colour
2038218	2 x 28W T16 1,240mm Dimmable	Electronic White
2038220	2 x 35W T16 1,540mm Dimmable	Electronic White
2038221	2 x 28W T16 1,240mm Dimmable	Electronic Silver
2038222	2 x 35W T16 1,540mm Dimmable	Electronic Silver
2038245	2 x 28W T16 1,240mm Dimmable	Emergency White
2038246	2 x 35W T16 1,540mm Dimmable	Emergency White
2038247	2 x 28W T16 1,240mm Dimmable	Emergency Silver
2038248	2 x 35W T16 1,540mm Dimmable	Emergency Silver

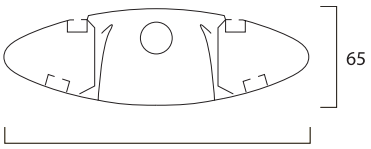
NOTE: Order louvre/diffuser, end caps and suspensions separately

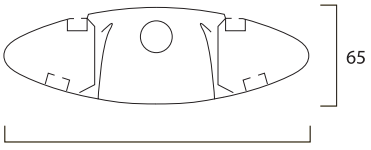


DLOR = 0.34 ULOR = 0.36
2034226 + 2034283



DLOR = 0.22 ULOR = 0.40
2034226 + 2034285





- High Efficiency Louvre 94% LOR
- Glare in accordance with EN12464-1-2011
  < 3000 cdm/²

Ovation 65 Module - High Efficiency Louvre

Code	Description
2056914	High Efficiency 28W Louvre 1,240mm
2056915	High Efficiency 35W Louvre 1,540mm

Clear Prismatic Diffuser

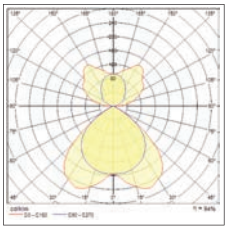
Code	Description
2034282	28W Clear Prismatic Diffuser
2034283	35W Clear Prismatic Diffuser

Ovation 65 Performance Matrix

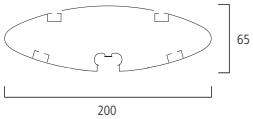
Code	Fixture	Published Lumens	Actual Lumens	LOR %	Fixture Lumens	Actual Power	Lumens / Circuit Watt	Glare @ 65°
2034223-2056914	2 x 28W DIR/IND WHT + LOUVRE	5,280	5,156	93.7	4,831	62	79.79	953

Legend: DIR/IND = Direct/Indirect; WHT = White

LOR=Fixture Lumens/Actual Lumens
Lumens/Circuit Watt = (Published Lumens x LOR) / Power



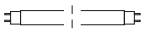
2 x 28W DIR/IND WHT + LOUVRE



- Fluorescent, linear T5 direct / indirect and accent lighting
- All modules are interchangeable for maximum flexibility
- Low brightness controllers for minimal glare
- Contoured louvres maintain the oval profile of the modules
- Rapid installation with optional plug and socket arrangement
- A sleek tapered end cap to enhance the overall profile of the module

LIGHT SOURCE INCLUDED

IP20 960°C



Luxline® Plus T5/T16 FHE
28/35W G5 2900/3650lm

Indirect Module with Single Circuit Track Supplied c/w rear prismatic controller, Lytespan 1 track (10A max) & 840 4,000K Sylvania lamps

Use with any Concord single circuit spotlight

Code	Description	Weight (Kg)	Colour
2034233	2 x 35W T16 1,540mm Indirect module	5.50	White
2034235	2 x 35W T16 1,540mm Indirect module	5.50	Silver

NOTE: Order end caps and suspensions separately

Track Module with Single Circuit Track Supplied c/w Lytespan 1 track (10A max)

Use with any Concord single circuit spotlight

Code	Description	Weight (Kg)	Colour
2034243	1,240mm Track module Single Cicuit	4.52	Silver

NOTE: Order end caps and suspensions separately

Dummy Module

Removable back cover. Variant lengths must be cut by Concord

Code	Description	Weight (kg)	Colour
2034254	1,240mm Dummy Module	4.12	White
2034255	1,540mm Dummy Module	5.15	White
2038196	620mm Dummy Module	2.50	White
2034256	1,240mm Dummy Module	4.12	Silver
2034257	1,540mm Dummy Module	5.15	Silver
2038197	620mm Dummy Module	2.50	Silver

NOTE: Order end caps and suspensions separately

Emergency LED Module

Code	Description	Weight (kg)	Colour
2038195	2 x 1W LED 620mm Dummy Module	2.30	Silver

NOTE: Order end caps and suspensions separately
** white versions available on request*

- DSI-SMART provides a simple yet effective means of controlling luminaires independently
- Based on PIR occupancy sensing and ambient light measurement
- The artificial light is regulated so the ambient light (artificial + natural light) remains constant
- Reduction in energy use and operation costs
- Programming of functions is made by the SMART-Programmer without the need to access the luminaire or DSI-SMART sensor
- All adjustments and settings are made via infra-red hand held remote control
- DSI-SMART amplifier available on request allows for the control of up to 20 modules
- **Each sensor can control up to a maximum of 4 modules**
- **For use with digitally dimmable modules only**
  Digitally Dimmable Modules Order separately

DSI-SMART Sensor Module or End cap

Code	Description	Weight (Kg)	Colour
2038203	DSI-SMART Tapered End Cap 120mm	0.75	White
2038204	DSI-SMART Tapered End Cap 120mm	0.75	Silver

Order a programmer and controller separately

DSI-SMART Programmer & Controller

Code	Description
9139060	DSI-SMART Programmer one per installation
9139061	DSI-SMART Controller Infra Red control for multiple sensors

Order both in addition to sensors and digitally dimmable modules

Accessories

X Coupler

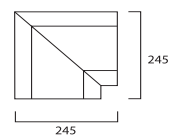
Vertical Adjustable Corner

Corner Pivot

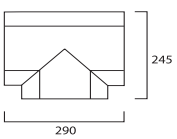
Flat End Cap

Tapered End Cap

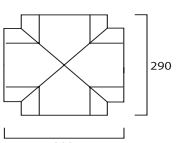
Rapid Connector



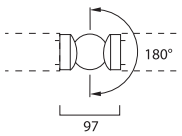
L Coupler



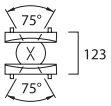
T Coupler



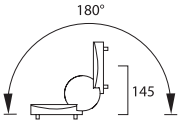
X Coupler



Centre



Centre



Corner

Couplers For module to module connection

Supplied c/w Concealed Straight Couplers

Code	Description	Weight (Kg)	Colour
2034261	L Coupler	1.05	White
2034263	T Coupler	1.15	White
2034262	L Coupler	1.05	Silver
2034264	T Coupler	1.15	Silver
2034276	Concealed Straight Coupler – pack of 4 splines		

Adjustable Corners Through wired

Code	Description	Weight (Kg)	Colour
2034266	Horizontal Corner Pivot	0.65	White
2034267	Horizontal Corner Pivot	0.65	Silver
2034276	Concealed Straight Coupler – pack of 4 splines		

Supplied c/w Concealed Straight Couplers

Flat End Caps Supplied as singles

Code	Length (mm)	Weight (Kg)	Colour
2034272	25	0.18	White
2034273	25	0.18	Silver

Tapered End Caps Supplied as singles

Code	Length (mm)	Weight (Kg)	Colour
2038201	120	0.75	White
2038202	120	0.75	Silver

Rapid connectors For module to module electrical connection

Code	Description
2039062	Rapid connectors

Rod Suspension Mechanical

Rod Suspension Electrical/ Mechanical

Wire Suspension Mechanical

Wall Bracket

- Suspensions supplied in either mechanical or mechanical/electrical versions
- Mechanical/electrical versions have hidden cable entry for mains supply
- Mechanical/electrical supplied with 5 way mains cable
- Minimum of 2 suspensions per module. Max load 15kg

Rod Suspension Supplied as singles

Can be modified on site. Can be cut from the ceiling end

Code	Description	Colour
2032344	Mechanical 500mm Rod Suspension	White
2032342	Mechanical/electrical 500mm Rod Suspension	White
2032345	Mechanical 500mm Rod Suspension	Silver
2032343	Mechanical/electrical 500mm Rod Suspension	Silver

Wire Suspension Supplied as singles

Can be modified on site. Longer lengths available to special order

Code	Description	Colour
2032322	Mechanical/electrical 3,000mm Wire Suspension	White
2038193	Mechanical 3,000mm Wire Suspension	Nickel
2032323	Mechanical/electrical 3,000mm Wire Suspension	Silver

Wall Bracket Supplied as singles

Can be modified on site. Longer lengths available to special order

Code	Description	Outreach (mm)	Colour
2032333	Mechanical Wall Bracket	1,000	White
2032326	Mechanical/electrical Wall Bracket	1,000	White
2032336	Mechanical Wall Bracket	1,000	Silver
2032330	Mechanical/electrical Wall Bracket	1,000	Silver

Accessories

Pivoting Suspension Cables

Pivoting Suspension Cables

Supplied as singles Can be modified on site.
Longer lengths available to special order

Code	Description	Length (mm)
2034268	Mechanical Pivoting Suspension Cable	3,000

Orchard Information Systems, UK

Control gear: Electronic
Dimmable: DALI dimmable
Sensor: Sylvania microwave sensor
Emergency: 3 hour maintained
Diffuser: Smooth Polycarbonate extruded diffusers
Housing: White

- Large range of IP44 shallow profiled luminaires, with curved diffuser
- Suitable for both surface and suspended mounting (with accessory up to 1.2m)
- The range has been designed to fulfil a wide range of applications including educational environments, medical buildings, storage facilities and circulation areas including stairwells
- Benefits from extruded diffusers, providing high efficiency, whilst minimising glare
- It is constructed from high strength polycarbonate, with smooth surfaces for ease of cleaning and precision prisms for optimising light control
- The shallow design and side emitting diffuser optics spread light onto the ceiling creating a better lit environment
- Incorporates an internal reflector to maximise light output, and ensure internal components are not visible from below
- Additionally, integrated microwave sensors discreetly mounted behind the diffuser is offered as standard. This provides for lighting controls to be incorporated into a project, without the necessity of remote sensors

DeltaWing LED

- Low profile surface and suspended LED diffuser luminaire
- DeltaWing LED is perfect to fulfil a wide range of applications, including educational environments, medical buildings, storage facilities and circulation areas including stairwells
- High performance: delivers up to 6,984lm (luminaire lumen output on 3,000K version), equating to 98lm/W (total system efficiency)
- Smooth Polycarbonate extruded diffuser provides high efficiency, while minimising glare
- Precision prisms designed to optimise light output and reduce glare
- Options of non-dimmable, DALI, 3 hour maintained Emergency and Integrated Microwave sensor as standard
- Integrated Microwave sensor mounted discretely behind the diffuser helps further reduce energy and maintenance bills
- Suitable for suspended mounting using wire suspension kit (to be ordered seperately)
- BESA box connection possibility standard on product
- Long lifetime: 50,000 hours life at 70% of the original output L70

LIGHT SOURCE INCLUDED

IP44 IK08

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Electronic

Code	Description	Luminaire lumen output (lm)
0044870	DELTAWING LED38 3K 1200mm	3,828
0044872	DELTAWING LED50 3K 1200mm	5,029
0044874	DELTAWING LED69 3K 1200mm	6,984

Emergency 3 hour

Code	Description	Luminaire lumen output (lm)
0044876	DELTAWING LED38 3K E3 1200mm	3,828
0044878	DELTAWING LED50 3K E3 1200mm	5,029
0044880	DELTAWING LED69 3K E3 1200mm	6,984

DALI dimmable

Code	Description	Luminaire lumen output (lm)
0044882	DELTAWING LED38 DALI 3K 1200mm	3,828
0044884	DELTAWING LED50 DALI 3K 1200mm	5,029
0044886	DELTAWING LED69 DALI 3K 1200mm	6,984

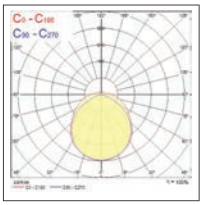
DALI EMPRO

Code	Description	Luminaire lumen output (lm)
0044900	DELTAWING LED38 DALI 3K EMPRO 1200	3,828
0044902	DELTAWING LED50 DALI 3K EMPRO 1200	5,029
0044904	DELTAWING LED69 DALI 3K EMPRO 1200	6,984

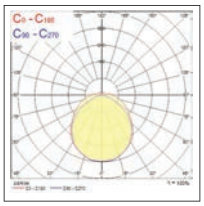
Microwave sensor & DALI dimmable

Code	Description	Luminaire lumen output (lm)
0044894	DELTAWING LED38 DALI MW 3K 1200mm	3,828
0044896	DELTAWING LED50 DALI MW 3K 1200mm	5,029
0044898	DELTAWING LED69 DALI MW 3K 1200mm	6,984

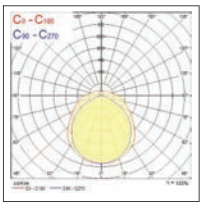
Legend: LED38 = 3828lm; LED50 = 5029lm; LED69 = 6984lm: EB = Electronic: DALI = DALI Dimmable: E3 = Emergency 3 hour: MW = Microwave Sensor, 3K = 3,000K Warm White; 4K = 4,000K Neutral White: 1200 = 1200mm length



DeltaWing LED - LED38 - 3,000K



DeltaWing LED - LED50 - 3,000K



DeltaWing LED - LED69 - 3,000K

Deltawing LED Performance Table

Description	Lumen Output (lm)	Power Consumption (W)	Efficiency (lm/W)
LED38	3,828	36	106
LED50	5,029	50	101
LED69	6,984	71	98

- Low profile surface and suspended LED diffuser luminaire
- DeltaWing LED is perfect to fulfil a wide range of applications, including educational environments, medical buildings, storage facilities and circulation areas including stairwells
- High performance: delivers up to 7,260lm (luminaire lumen output on 4,000K version), and up to 102lm/W (total system efficiency)
- Smooth Polycarbonate extruded diffuser provides high efficiency, while minimising glare
- Precision prisms designed to optimise light output and reduce glare
- Options of non-dimmable, DALI, 3 hour maintained Emergency and Integrated Microwave sensor as standard
- Integrated Microwave sensor mounted discretely behind the diffuser helps further reduce energy and maintenance bills
- Suitable for suspended mounting using wire suspension kit (to be ordered seperately)
- BESA box connection possibility standard on product
- Long lifetime: 50,000 hours life at 70% of the original output L70

LIGHT SOURCE INCLUDED

IP44 IK08

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Electronic

Code	Description	Luminaire lumen output (lm)
0044871	DELTAWING LED40 4K 1200mm	4,030
0044873	DELTAWING LED51 4K 1200mm	5,144
0044875	DELTAWING LED72 4K 1200mm	7,260

Emergency 3 hour

Code	Description	Luminaire lumen output (lm)
0044877	DELTAWING LED40 4K E3 1200mm	4,030
0044879	DELTAWING LED51 4K E3 1200mm	5,144
0044881	DELTAWING LED72 4K E3 1200mm	7,260

DALI dimmable

Code	Description	Luminaire lumen output (lm)
0044883	DELTAWING LED40 DALI 4K 1200mm	4,030
0044885	DELTAWING LED51 DALI 4K 1200mm	5,144
0044887	DELTAWING LED72 DALI 4K 1200mm	7,260

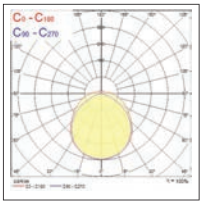
DALI EMPRO

Code	Description	Luminaire lumen output (lm)
0044901	DELTAWING LED40 DALI 4K EMPRO 1200	4,030
0044903	DELTAWING LED51 DALI 4K EMPRO 1200	5,144
0044905	DELTAWING LED72 DALI 4K EMPRO 1200	7,260

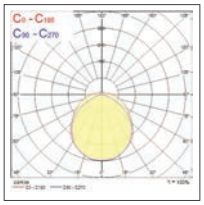
Microwave sensor & DALI dimmable

Code	Description	Luminaire lumen output (lm)
0044895	DELTAWING LED40 DALI MW 4K 1200mm	4,030
0044897	DELTAWING LED51 DALI MW 4K 1200mm	5,144
0044899	DELTAWING LED72 DALI MW 4K 1200mm	7,260

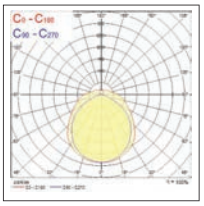
Legend: LED40 = 4030lm; LED51 = 5144lm; LED72 = 7260lm: EB = Electronic: DALI = DALI Dimmable: E3 = Emergency 3 hour: MW = Microwave Sensor, 3K = 3,000K Warm White; 4K = 4,000K Neutral White: 1200 = 1200mm length



DeltaWing LED - LED40 - 4,000K



DeltaWing LED - LED51 - 4,000K



DeltaWing LED - LED72 - 4,000K

Deltawing LED Performance Table

Description	Lumen Output (lm)	Power Consumption (W)	Efficiency (lm/W)
LED40	4,030	36	112
LED51	5,144	50	103
LED72	7,260	71	102

Accessories

Wing suspension kit

Wing horizontal wire anchor

Wing adjustable bracket

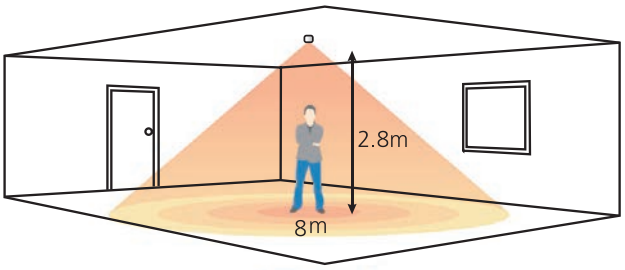
Wing secure bracket

Wing 45° Support On 90° Corner

Accessories

Code	Description
3044720	Wing Suspension Kit
3044724	Wing Horizontal Wire Anchors
3044725	Wing Adjustable Bracket
3044726	Wing Secure Bracket
3044727	Wing 45° Support on 90° Corner
5050598	ACC Power 3Core T
5050601	ACC Power 5Core T

Microwave sensor detection pattern



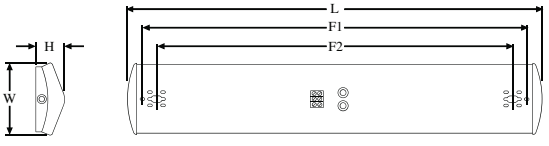
Area of high sensitivity

Area of low sensitivity

Microwave features:

- Dual adjustable sensitivities (on and off)
- Wide detection area (see diagram below)
- Uses microwave technology for better detection
- IR handset for override-on/off and sensitivity adjustment
- Multi-luminaire grouped control options available on request

Deltawing LED



Dimensions (mm)

Deltawing LED Dimensions (mm)

Version	L	W	H	F1	F2
Deltawing LED	1,218	201	85	1,050	1,130

KKS Bridgepoint, UK

Leeds Art Gallery, U.K.

SPOTLIGHTS

Concord

83 Tide

89 Beacon Muse Tune

93 Beacon Tune

97 Beacon Projector

103 Beacon XL Muse

107 Beacon Muse II

111 Beacon XXL

117 Beacon XL Accent / Beacon XL

125 Beacon Accent II

129 Beacon II

134 Beacon Minor II & Major II

141 Beacon Wallwash LED

Ashmolean Museum, U.K.

Tide Symmetric in Track with Beacon Spotlight

The new Tide range from Concord delivers clean, crisp lines of light for subtle ambient effects or wall washing of vertical surfaces. Combining LED technology and lens innovation, to provide stand alone solutions the miniaturized lighting units are housed within existing track or ceiling recessed systems - a unique Architectural Lighting solution. Asymmetric - providing perfect vertical illuminance. Symmetric - providing subtle ambient lighting around perimeters. Double Asymmetric - ideal for applications requiring illumination of walls on both sides of a corridor.

Tide

Tide Asymmetric in Track

Asymmetric

Double-Asymmetric

Symmetric Wide

- Provides clean, crisp lines of light for horizontal or vertical surfaces
- Symmetric for subtle ambient lighting, Asymmetric for wall washing and Double Asymmetric for corridor applications
- Available in 3000K and 4000K colour temperature
- High colour rendering index, Ra 93
- Available as non dimmable or DALI dimmable versions
- For mounting on Lytespan 3 (3-circuit track)
- Lumen output up to 2000lm
- 27W power consumption
- Fixed length 600mm
- Long lifetime 60,000 hours life at 70% of the original output (L70B50)

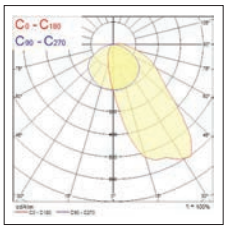
LIGHT SOURCE INCLUDED

IP20 IK02 0.8m

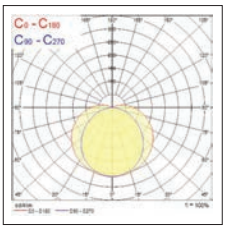
Tide - Track Version - High Efficiency

Code	Description	Colour
Asymmetric		
2059800	TIDE ASYM 93 3K L3 LEFT	White
2059801	TIDE ASYM 93 3K L3+DALI LEFT	White
2059802	TIDE ASYM 93 4K L3 LEFT	White
2059803	TIDE ASYM 93 4K L3+DALI LEFT	White
2059804	TIDE ASYM 93 3K L3-RIGHT	White
2059805	TIDE ASYM 93 3K L3+DALI RIGHT	White
2059806	TIDE ASYM 93 4K L3-RIGHT	White
2059807	TIDE ASYM 93 4K L3+DALI RIGHT	White
Symmetric Wide		
2059808	TIDE WIDE 93 3K L3	White
2059809	TIDE WIDE 93 3K L3+DALI	White
2059810	TIDE WIDE 93 4K L3	White
2059811	TIDE WIDE 93 4K L3+DALI	White
Double Asymmetric		
2059812	TIDE DASYM 93 3K L3	White
2059813	TIDE DASYM 93 3K L3+DALI	White
2059814	TIDE DASYM 93 4K L3	White
2059815	TIDE DASYM 93 4K L3+DALI	White

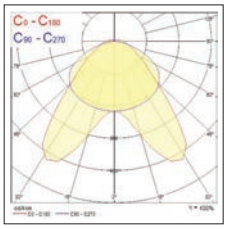
Legend: TIDE = Tide; ASYM = Asymmetric; WIDE = Symmetric Wide; DASYM = Double Asymmetric; 3K = 3000K; 4K = 4000K; L3 = Lytespan 3-circuit; LEFT = Left Push Up Live Polarisation; RIGHT = Right Push Up Live Polarisation; DALI = DALI Dimmable; 93 = CRI indication; HO = High Output



Tide asymmetric

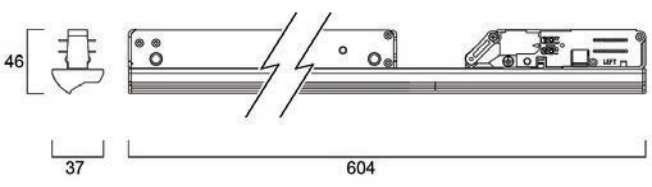


Tide symmetric wide

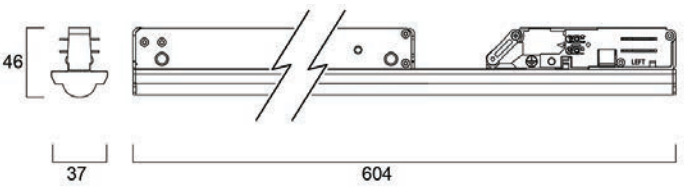


Tide double asymmetric

Tide Asymmetric track



Tide Symmetric Wide / Double-Asymmetric track



Dimensions (mm)

Tide Asymmetric in Track

Asymmetric

Double-Asymmetric

Symmetric Wide

- Provides clean, crisp lines of light for horizontal or vertical surfaces
- Symmetric for subtle ambient lighting, Asymmetric for wall washing and Double Asymmetric for corridor applications
- Available in 3000K and 4000K colour temperature
- High colour rendering index, Ra 93
- Available as non dimmable or DALI dimmable versions
- For mounting on Lytespan 3 (3-circuit track)
- Lumen output up to 2600lm
- 40W power consumption
- Fixed length 600mm
- Long lifetime 60,000 hours life at 70% of the original output (L70B50)

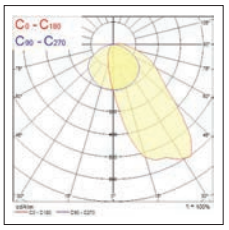
LIGHT SOURCE INCLUDED

IP20 IK02 0.8m

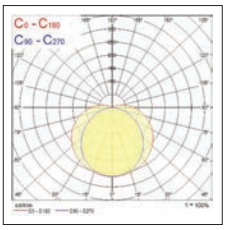
Tide - Track Version - High Output

Code	Description	Colour
Asymmetric		
2059828	TIDE HO ASYM 93 3K L3 LEFT	White
2059829	TIDE HO ASYM 93 3K L3+DALI LEFT	White
2059830	TIDE HO ASYM 93 4K L3 LEFT	White
2059831	TIDE HO ASYM 93 4K L3+DALI LEFT	White
2059832	TIDE HO ASYM 93 3K L3-RIGHT	White
2059833	TIDE HO ASYM 93 3K L3+DALI RIGHT	White
2059834	TIDE HO ASYM 93 4K L3-RIGHT	White
2059835	TIDE HO ASYM 93 4K L3+DALI	White
Symmetric Wide		
2059836	TIDE HO WIDE 93 3K L3	White
2059837	TIDE HO WIDE 93 3K L3+DALI	White
2059838	TIDE HO WIDE 93 4K L3	White
2059839	TIDE HO WIDE 93 4K L3+DALI	White
Double Asymmetric		
2059840	TIDE HO DASYM 93 3K L3	White
2059841	TIDE HO DASYM 93 3K L3+DALI	White
2059842	TIDE HO DASYM 93 4K L3	White
2059843	TIDE HO DASYM 93 4K L3+DALI	White

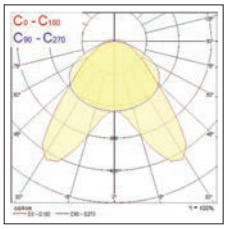
Legend: TIDE = Tide; ASYM = Asymmetric; WIDE = Symmetric Wide; DASYM = Double Asymmetric; 3K = 3000K; 4K = 4000K; L3 = Lytespan 3-circuit; LEFT = Left Push Up Live Polarisation; RIGHT = Right Push Up Live Polarisation; DALI = DALI Dimmable; 93 = CRI indication; HO = High Output



Tide asymmetric

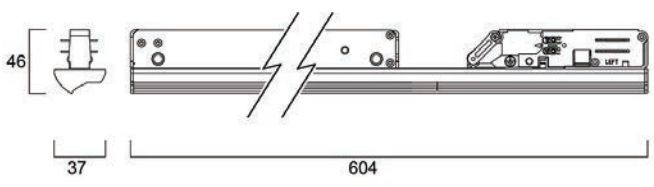


Tide symmetric wide

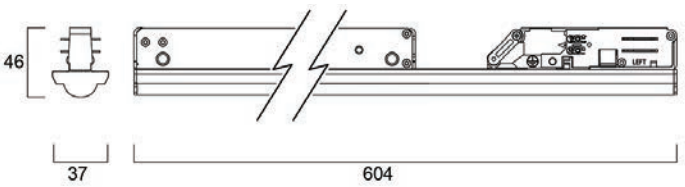


Tide double asymmetric

Tide Asymmetric track



Tide Symmetric Wide / Double-Asymmetric track



Dimensions (mm)

Tide - Recessed Version - High Efficiency

Recessed Symmetric

Recessed Asymmetric

- Provides clean, crisp lines of light for horizontal or vertical surfaces
- Symmetric for subtle ambient lighting, Asymmetric for wall washing and Double Asymmetric for corridor applications
- Available in 3000K and 4000K colour temperature
- High colour rendering index, Ra 93
- Available as non dimmable or DALI dimmable versions
- Ceiling recessed
- Lumen output up to 2000lm
- 27W power consumption
- Fixed length 600mm
- Long lifetime 60,000 hours life at 70% of the original output (L70B50)

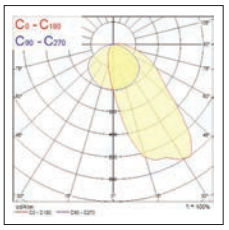
LIGHT SOURCE INCLUDED

IP20 IK02 0.8m

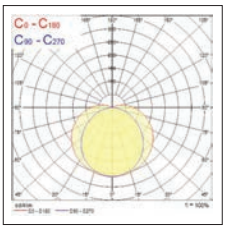
Tide - Recessed Version - High Efficiency

Code	Description	Colour
Asymmetric		
2059816	TIDE ASYM 93 3K RECESS	White
2059817	TIDE ASYM 93 3K RECESS DALI	White
2059818	TIDE ASYM 93 4K RECESS	White
2059819	TIDE ASYM 93 4K RECESS DALI	White
Symmetric Wide		
2059820	TIDE WIDE 93 3K RECESS	White
2059821	TIDE WIDE 93 3K RECESS DALI	White
2059822	TIDE WIDE 93 4K RECESS	White
2059823	TIDE WIDE 93 4K RECESS DALI	White
Double Asymmetric		
2059824	TIDE DASYM 93 3K RECESS	White
2059825	TIDE DASYM 93 3K RECESS DALI	White
2059826	TIDE DASYM 93 4K RECESS	White
2059827	TIDE DASYM 93 4K RECESS DALI	White

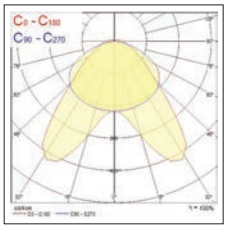
Legend: TIDE = Tide; ASYM = Asymmetric; WIDE = Symmetric Wide; DASYM = Double Asymmetric; 3K = 3000K; 4K = 4000K; RIGHT = Right Push Up Live Polarisation; RECESS = Recessed Version; DALI = DALI Dimmable; 93 = CRI indication



Tide asymmetric

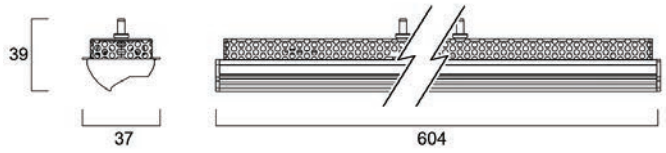


Tide symmetric wide

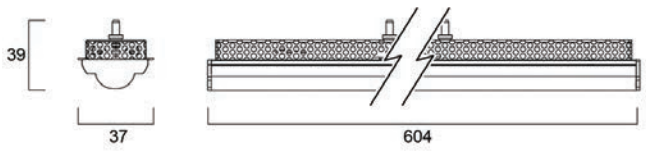


Tide double asymmetric

Tide Asymmetric recessed



Tide Symmetric Wide / Double-Asymmetric recessed



Dimensions (mm)

Recessed Symmetric

Recessed Asymmetric

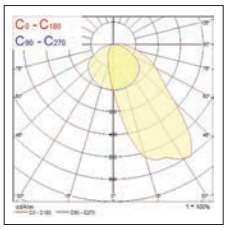
- Provides clean, crisp lines of light for horizontal or vertical surfaces
- Symmetric for subtle ambient lighting, Asymmetric for wall washing and Double Asymmetric for corridor applications
- Available in 3000K and 4000K colour temperature
- High colour rendering index, Ra 93
- Available as non dimmable or DALI dimmable versions
- Ceiling recessed
- Lumen output up to 2600lm
- 40W power consumption
- Fixed length 600mm
- Long lifetime 60,000 hours life at 70% of the original output (L70B50)

LIGHT SOURCE INCLUDED

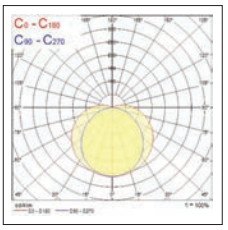
Tide - Recessed Version - High Efficiency

Code	Description	Colour
Asymmetric		
2059844	TIDE HO ASYM 93 3K RECESS	White
2059845	TIDE HO ASYM 93 3K RECESS DALI	White
2059846	TIDE HO ASYM 93 4K RECESS	White
2059847	TIDE HO ASYM 93 4K RECESS DALI	White
Symmetric Wide		
2059848	TIDE HO WIDE 93 3K RECESS	White
2059849	TIDE HO WIDE 93 3K RECESS DALI	White
2059850	TIDE HO WIDE 93 4K RECESS	White
2059851	TIDE HO WIDE 93 4K RECESS DALI	White
Double Asymmetric		
2059852	TIDE HO DASYM 93 3K RECESS	White
2059853	TIDE HO DASYM 93 3K RECESS DALI	White
2059854	TIDE HO DASYM 93 4K RECESS	White
2059855	TIDE HO DASYM 93 4K RECESS DALI	White

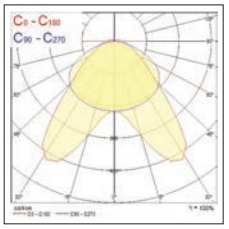
Legend: TIDE = Tide; ASYM = Asymmetric; WIDE = Symmetric Wide; DASYM = Double Asymmetric; 3K = 3000K; 4K = 4000K; RIGHT = Right Push Up Live Polarisation; RECESS = Recessed Version; DALI = DALI Dimmable; 93 = CRI indication



Tide asymmetric

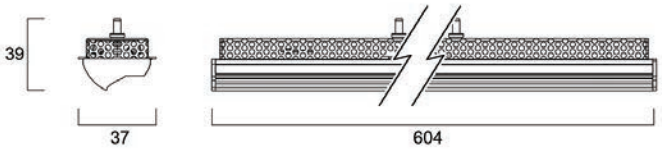


Tide symmetric wide

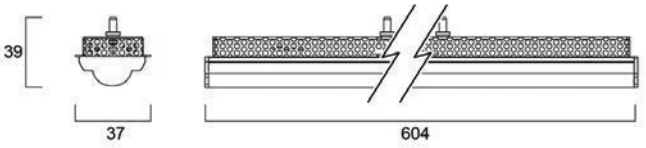


Tide double asymmetric

Tide Asymmetric recessed

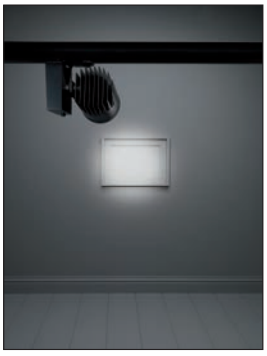


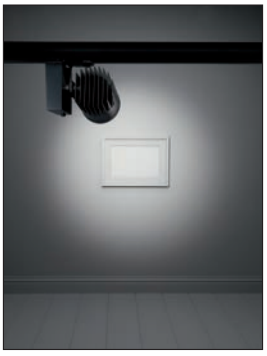
Tide Symmetric Wide / Double-Asymmetric recessed

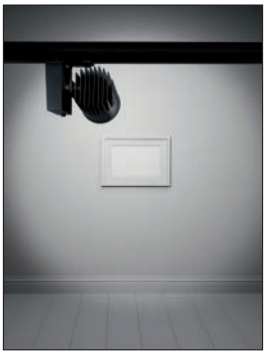


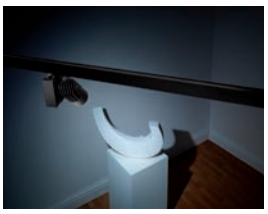
Dimensions (mm)

Ashmolean Museum, U.K.


Narrow Beam


Medium Beam


Wide Beam



Beacon Muse Tune combines tuneable colour temperature and beam angle adjustment in a single fitting, further developing the award winning Beacon range from Concord. Combining cutting-edge LED technology and ancient lens principles to create a fully adjustable spotlight, the unique soft-touch ring enables the end-user to manually adjust the beam from a wide flood (40˚) down to a tight spot (10˚); without the need of any additional lenses or reflectors. Additionally the colour tuning functionality allows colour temperature selection from a cool 4,300K to a warm 2,100K to tailor the lit effect to match the exact requirements of the exhibition or gallery display space.

Beacon Muse Tune

Manual tune - black

Manual tune - white

Side profile

- Stylish combination of tuneable colour temperature and adjustable beam angle
- Tuneable white from 4,300K down to 2,100K
- Unique adjustability using soft-touch ring, enables beam control from a tight 10° spot to a 40° flood
- On-board dimming potentiometer, DALI (version 8 protocol) or SylSmart SSC Wireless versions available
- High colour rendering index, Ra90
- For mounting on 1-circuit track (Lytespan 1) or 3-circuit track (Lytespan 3). DALI L3 only
- Snap fit accessories (Elongation lens, Honeycomb filter and Snoot)
- Monopoint accessory available for surface mounting
- IR/UV free light source without heat radiation
- Long lifetime: >70,000 hours life at 70% of original output (L70B50)
- LED technology provides an energy efficient solution with reduced maintenance costs

LIGHT SOURCE INCLUDED

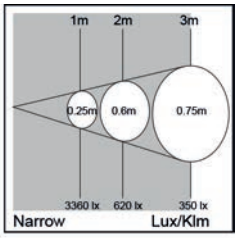
SYLSMART

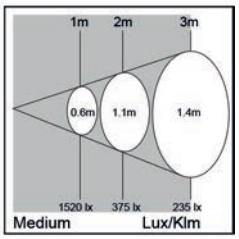
Sylsmart versions please see Sylsmart section for details

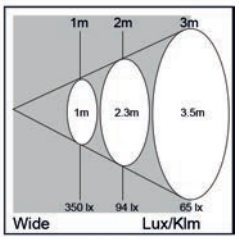
Beacon Muse Tune

Code	Description
On Board Dimming	
2059762	MUSE TUNE 90 L1 O/B BLK
2059763	MUSE TUNE 90 L1 O/B WHT
2059766	MUSE TUNE 90 L3 O/B BLK
2059767	MUSE TUNE 90 L3 O/B WHT
DALI Dimming	
2059768	MUSE TUNE 90 L3 DALI BLK
2059769	MUSE TUNE 90 L3 DALI WHT
SylSmart SSC Wireless	
2059764	MUSE TUNE 90 L1 SSC01 BLK
2059765	MUSE TUNE 90 L1 SSC01 WHT
2059770	MUSE TUNE 90 L3 SSC01 BLK
2059771	MUSE TUNE 90 L3 SSC01 WHT

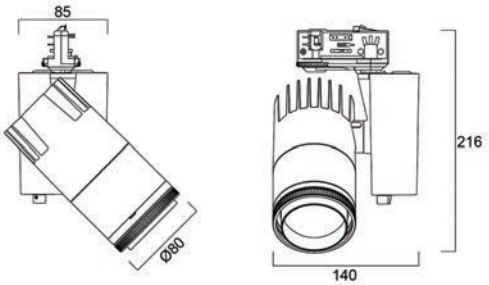
Legend: MUSE TUNE = Beacon MUSE TUNE; OB = On-Board dimming; DALI = DALI Dimming; SSC01 = SylSmart SSC Wireless; L1 = Lytespan 1-circuit; L3 = Lytespan 3-circuit; WHT = WHiTe; BLK = BLacK







3000K Light Levels



Dimensions (mm)

Accessories

Snoot

Elongation Lens

Honeycomb Filter

Barn Doors

Softener Lens

Monopoint Black

Monopoint White

Accessories

Code	Description
2059758	BEACON SNOOT BLK
2059760	MUSE II ELONGATION LENS
2059761	MUSE II HONEYCOMB BLK
2052940	BMUSE II BARN DOORs
2059759	MUSE II SOFTENER LENS
3020010	MONOPOINT L3 WHITE
3020080	MONOPOINT L3 BLACK

SylSmart SSC Wireless

It is a wireless, cost effective and flexible lighting control solution that can be programmed quickly and easily using the intuitive application on a smartphone..

SylSmart Standalone Scene enable users to change lighting levels and set different scenes as often as they like. No need to call specialised experts.

Creativity is at your finger tips. Have the perfect light setting for your application, product or art piece on display. Change dimming levels, colour temperature and set scenes exactly how you need them with very little effort.

Finite Adjustment

Beacon Muse Tune is the ultimate adjustable spotlight based on the award winning Beacon Muse. With its tuneable white LEDs which take you on a journey from warm to icy cool white, adding a sense of drama to your display.

Colour tuning can be done in either of two ways manual operation via adjustable potentiometers located at the base of the spotlight. Or wirelessly via your smartphone using our SylSmart enabled app.

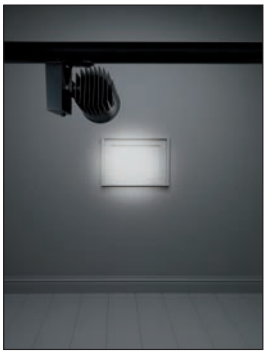
Manual Beam Control

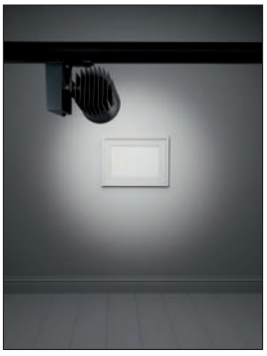
SylSmart (wireless dimming and colour tuning)

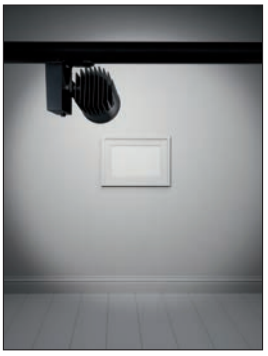
Available on the iPhone App Store

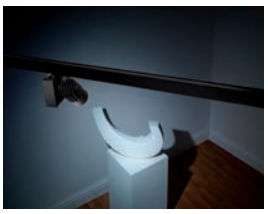
ANDROID APP ON Google play

1.0m
2100°K
2700°K
3000°K
3500°K
4300°K
Beacon tune
0
50
100


Narrow Beam


Medium Beam


Wide Beam



Beacon Tune is the first tuneable white LED spotlight from Concord. Offering unique customisation through 2 on-board potentiometers, colour tuning from a cool 4,300K down to a warm 2,100K and smooth dimming from 100-0%, allowing endusers the ability to tailor the lighting to their exact preference.

The colour and quality of light can greatly influence and determine the way in which artwork, objects or fabrics are visually perceived. Beacon Tune will bring out the best in displays and exhibitions, with a high CRI of 90, making it the perfect lighting solution for Museums and Galleries.

Beacon Tune

White

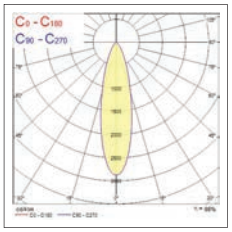
Black

- Tuneable white from 4,300K down to a warm 2,100K
- Beacon Tune is a tuneable white LED spotlight - in keeping with the award-winning Beacon design
- Ideal for museum and gallery applications for changing atmosphere from warm to cool using the same spotlight
- Smooth on-board dimming from 100 to 0%
- Individual graduated on-board potentiometers - ensuring consistency and accuracy across all installed fixtures
- Available as a Spot (26°) or Flood (42°) beam option
- Total system power: 23W
- Fixture lumens:
  - Spot (26°) = 1074lm
  - Flood (42°) = 978lm
- High colour rendering index, Ra90
- IR/UV free light source without heat radiation
- Long lifetime: 50,000 hours life at 70% of the original output (L70)

LIGHT SOURCE INCLUDED

Spot

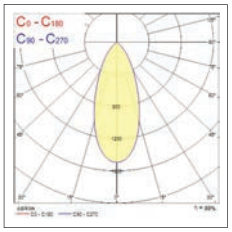
Code	Description	Colour
2059061	BEACON TUNE SPOT O/B DIM L3	White
2059062	BEACON TUNE SPOT O/B DIM L3	Black



Beacon Tune - Spot

Flood

Code	Description	Colour
2059063	BEACON TUNE FLOOD O/B DIM L3	White
2059064	BEACON TUNE FLOOD O/B DIM L3	Black

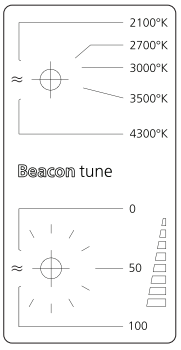


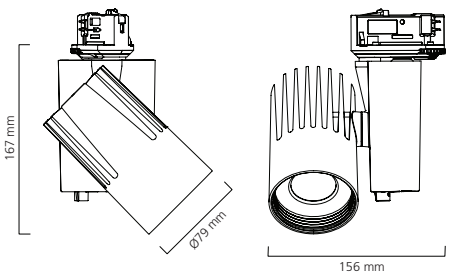
Beacon Tune - Flood

Accessories

Code	Description	Colour
2059220	BEACON TUNE PEAK	Black
2052940	BEACON BARN DOORS	Black

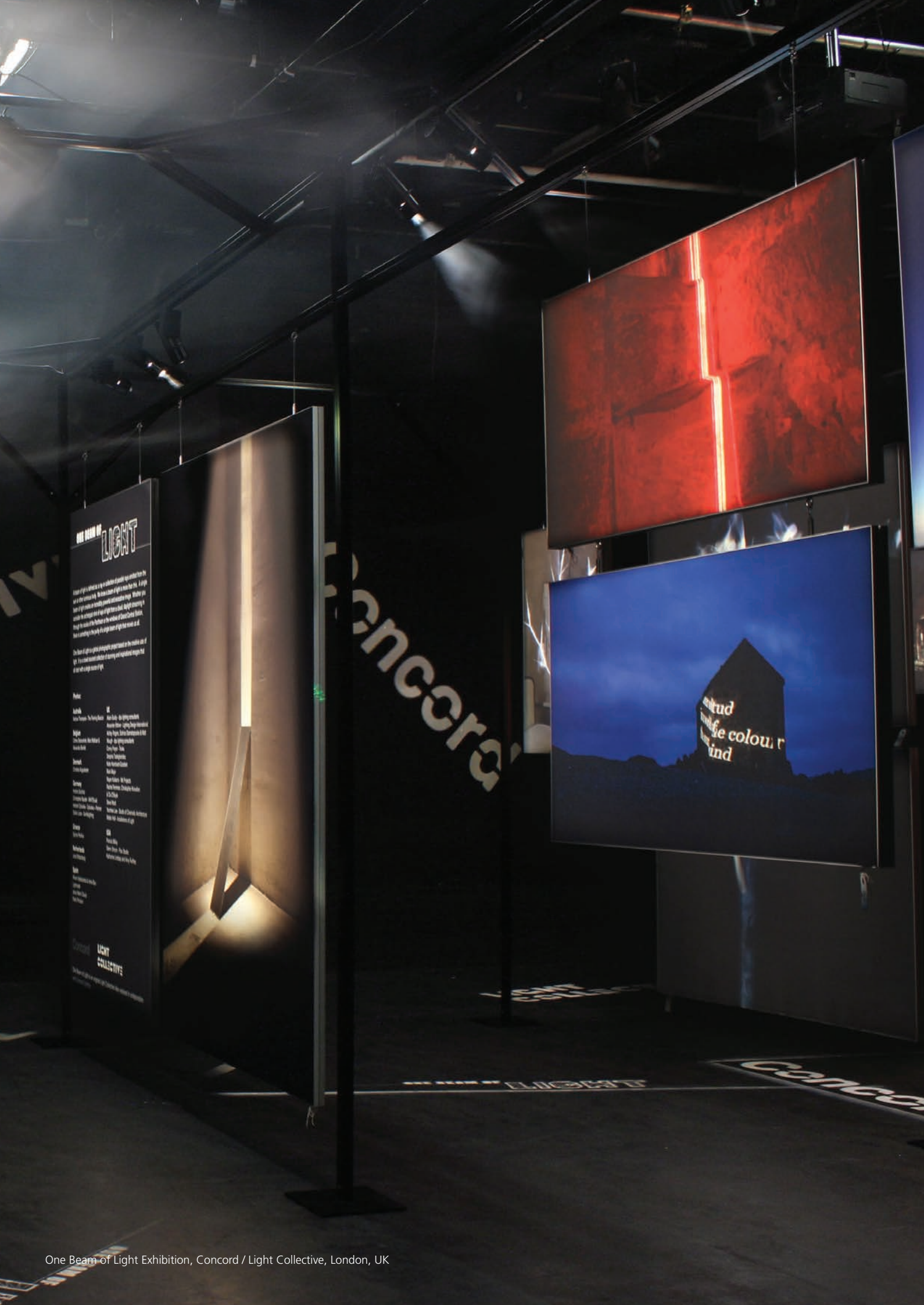
Legend: O/B DIM = Manual On board dimming; L3 = Three Circuit Track





Dimensions (mm)

Compton Verney, U.K.



One Beam of Light Exhibition, Concord / Light Collective, London, UK

Beacon Projector is part of the award winning Beacon/Beacon Muse range.
Consisting of three versions - Iris, Framing and Gobo. These impressive models meet the requirements for a fully adjustable projector in galleries, museum and retail applications.

Beacon Projector

Beacon Projector - Iris

White Beacon Projector Iris

Black Beacon Projector Iris

Silver Beacon Projector Iris

- The Beacon Projector – Iris combines the award winning Beacon housing with a connecting snoot, manual focusing lens and a high output 26W cutting-edge LED
- The Iris component produces a circular beam which enables smaller objects to be pin pointed with light, where less than a 10º beam is necessary.
- IR/UV – free light source without heat radiation
- High colour rendering index, typical Ra97, R9 - 90
- Fully dimmable from 100% to 3% using discrete on-board dimming (DALI 0%)
- Long life up to 50K hours
- Low maintenance and discrete lighting solution
- Silver versions available on request

LIGHT SOURCE INCLUDED

IP20 | 355° | 90° | 0.8m

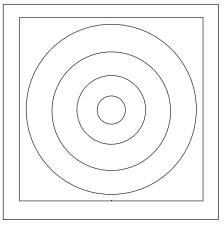
Beacon Projector Iris 3,000K

Code	Description	Colour
2055968	IRIS O/B DIM L3 3,000K	White
2055972	IRIS O/B DIM SM 3,000K	White
2055976	IRIS DALI L3 3,000K	White
2055969	IRIS O/B DIM L3 3,000K	Black
2055973	IRIS O/B DIM SM 3,000K	Black
2055977	IRIS DALI L3 3,000K	Black

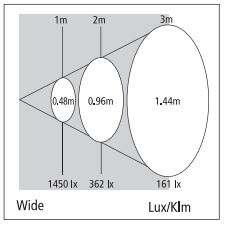
Beacon Projector Iris 4,000K

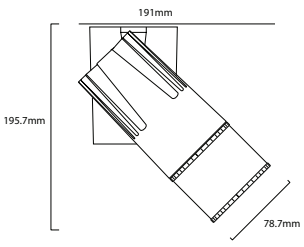
Code	Description	Colour
2055970	IRIS O/B DIM L3 4,000K	White
2055974	IRIS O/B DIM SM 4,000K	White
2055978	IRIS DALI L3 4,000K	White
2055971	IRIS O/B DIM L3 4,000K	Black
2055975	IRIS O/B DIM SM 4,000K	Black
2055979	IRIS DALI L3 4,000K	Black

Legend: L1 = Single Circuit; L3 = Three Circuit;
SM = Surface Mount; O/B Dim = Manual On board dimming; DALI = DALI Track Dimming



Iris Projector





Dimensions (mm)

Silver Beacon Projector Framing

White Beacon Projector Framing

Black Beacon Projector Framing

- The Beacon Projector – Framing combines the award winning Beacon housing with four adjustable arms allowing the beam to be framed to the desired size shape (square/rectangle – or irregular 4 sided shapes thus framing the object with light
- High output 26W cutting-edge LED
- IR/UV – free light source without heat radiation
- High colour rendering index, typical Ra97, R9 - 90
- Fully dimmable from 100% to 3% using discrete on-board dimming (DALI 0%)
- Long life up to 50K hours
- Low maintenance and discrete lighting solution
- Silver versions available on request

LIGHT SOURCE INCLUDED

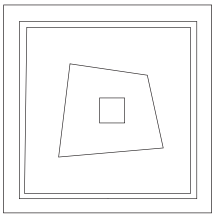
Beacon Projector Framing 3,000K

Code	Description	Colour
2055956	FRAM O/B DIM L3 3,000K	White
2055960	FRAM O/B DIM SM 3,000K	White
2055964	FRAM DALI L3 3,000K	White
2055957	FRAM O/B DIM L3 3,000K	Black
2055961	FRAM O/B DIM SM 3,000K	Black
2055965	FRAM DALI L3 3,000K	Black

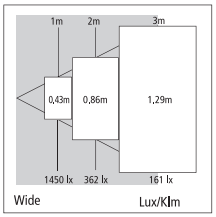
Beacon Projector Framing 4,000K

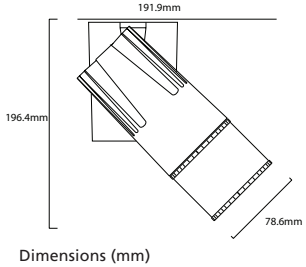
Code	Description	Colour
2055958	FRAM O/B DIM L3 4,000K	White
2055962	FRAM O/B DIM SM 4,000K	White
2055966	FRAM DALI L3 4,000K	White
2055959	FRAM O/B DIM L3 4,000K	Black
2055963	FRAM O/B DIM SM 4,000K	Black
2055967	FRAM DALI L3 4,000K	Black

Legend: L1 = Single Circuit; L3 = Three Circuit;
SM = Surface Mount; O/B Dim = Manual On board dimming;
DALI = DALI Track Dimming



Framing Projector





Dimensions (mm)

Black Projector Gobo

- The Beacon Projector – Gobo gives the ability to project an image, pattern or wording onto most surfaces.
- Ideal for retail and display environments
- 3 types of Gobo material can be inserted:
  - acetate
  - metal
  - glass
- High output 26W cutting-edge LED
- IR/UV – free light source without heat radiation
- High colour rendering index, typical Ra97, R9 - 90
- Fully dimmable from 100% to 3% using discrete on-board dimming (DALI 0%)
- Long life up to 50K hours
- Low maintenance and discrete lighting solution
- Silver versions available on request

LIGHT SOURCE INCLUDED

Beacon Projector Gobo 3,000K

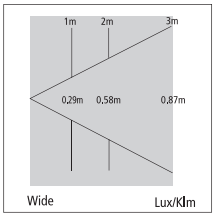
Code	Description	Colour
2055944	GOBO O/B DIM L3 3,000K	White
2055948	GOBO O/B DIM SM 3,000K	White
2055952	GOBO DALI L3 3,000K	White
2055945	GOBO O/B DIM L3 3,000K	Black
2055949	GOBO O/B DIM SM 3,000K	Black
2055953	GOBO DALI L3 3,000K	Black

Beacon Projector Gobo 4,000K

Code	Description	Colour
2055946	GOBO O/B DIM L3 4,000K	White
2055950	GOBO O/B DIM SM 4,000K	White
2055954	GOBO DALI L3 4,000K	White
2055947	GOBO O/B DIM L3 4,000K	Black
2055951	GOBO O/B DIM SM 4,000K	Black
2055955	GOBO DALI L3 4,000K	Black

Legend: L1 = Single Circuit; L3 = Three Circuit;
SM = Surface Mount; O/B Dim = Manual On board dimming;
DALI = DALI Track Dimming

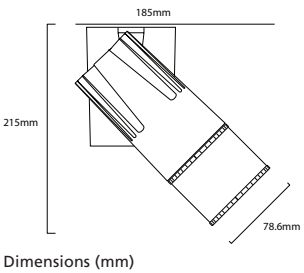
GoboHolder(with20mmimage)



Light level not taken.
Dependant on image

Note: to purchase Gobos please contact Rosco Limited: www.rosco.com

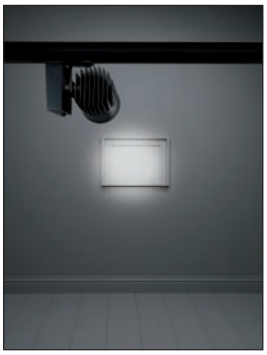
Size 'D' Diameter 53.3mm



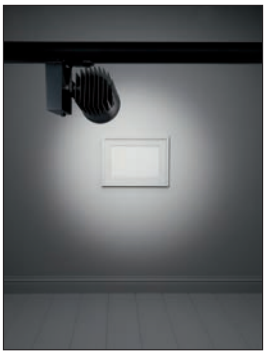
Dimensions (mm)

Design Museum - London, UK

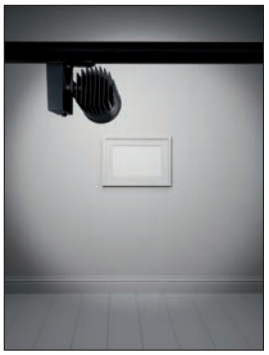
Compton Verney Art Gallery, Gaydon, UK



Narrow Beam



Medium Beam



Wide Beam

Beacon XL Muse is a new addition to the innovative and award winning Beacon Muse range of spotlights. Beacon XL Muse introduces an exciting new accent and display lighting concept using cutting-edge LED technology and ancient lens principles to create a fully adjustable spotlight. The soft-touch ring enables the end-user to manually adjust the beam to from a wide flood (70˚) down to a tight spot (10˚); without the need of any additional lenses or reflectors.
Beacon XL Muse boasts a super high CRI of Ra97 with the R9 value at 90 - ensuring vibrant reds - the ideal spotlight for museum, gallery and retail applications where a high quality of light is required. Available with on-board, DALI or SylSmart remote dimming, a wireless technology that enables the end-user to easily control the light output via their smart device.

Beacon XL Muse

Beacon XL Muse - White

Beacon XL Muse - Black

- Unique adjustablity using soft-touch ring, enables beam control from a 10° spot to a 70° flood

	3,000K	4,000K
Flood 70 deg	2,544lm	2,884lm
Spot 10 deg	820lm	901lm

- Ideal for museum, gallery and retail applications
- Super high colour rendering index, Ra 97 typical
- Available in 3,000K or 4,000K colour temperatures
- On-board dimming, DALI or SylSmart Scene Setting versions available
- For mounting on 3-circuit track (Lytespan 3)
- White or Black paint finishes as standard. Silver available on request
- Barn doors, Elongation lens, Honeycomb and Snoot accessories available
- IR/UV free light source without heat radiation
- Long lifetime: 50,000 hours life at 70% of the original output (L70)

LIGHT SOURCE INCLUDED

SYLSMART

Sylsmart versions please see Sylsmart section for details

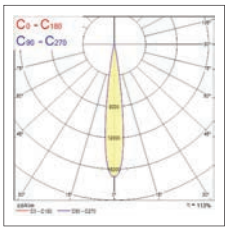
Beacon XL MUSE - 3000K (97CRI)

Code	Description	Colour
On-board dim		
2059319	XL MUSE 3K O/B DIM L3 WHT	White
2059320	XL MUSE 3K O/B DIM L3 BLK	Black
DALI		
2059323	XL MUSE 3K DALI L3 WHT	White
2059324	XL MUSE 3K DALI L3 BLK	Black
SylSmart Remote Dimming		
2059327	XL MUSE 3K SSC01 L3 WHT	White
2059328	XL MUSE 3K SSC01 L3 BLK	Black

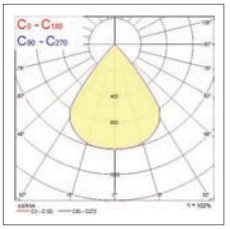
Beacon XL MUSE - 4000K (97CRI)

Code	Description	Colour
On-board dim		
2059321	XL MUSE 4K O/B DIM L3 WHT	White
2059322	XL MUSE 4K O/B DIM L3 BLK	Black
DALI		
2059325	XL MUSE 4K DALI L3 WHT	White
2059326	XL MUSE 4K DALI L3 BLK	Black
SylSmart Remote Dimming		
2059329	XL MUSE 4K SSC01 L3 WHT	White
2059330	XL MUSE 4K SSC01 L3 BLK	Black

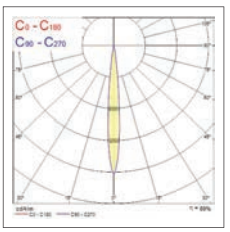
Legend: O/B DIM = On-Board DIMming; SSC01 = SylSmart Scene Setting; L3 = Lytespan 3; WHT = WHiTe; BLK = BLacK



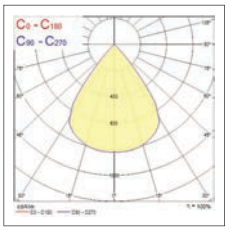
3,000K Spot



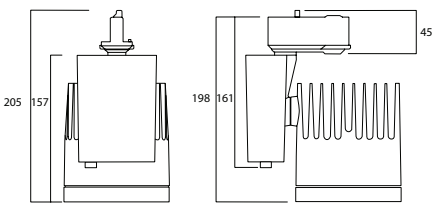
3,000K Wide



4,000K Spot



4,000K Flood

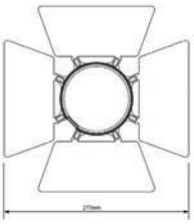


Accessories

Elongation lens

Honeycomb

Snoot



Barn doors

Accessories

Code	Description
2093113	XL MUSE ELONGATION LENS
2093114	XL MUSE HONEYCOMB BLK
2058323	XL MUSE BARN DOOR BLK
2058326	XL MUSE SNOOT BLK

SylSmart Scene Setting

- Wireless dimming of single or multiple luminaires with simple touch gestures on your smart phone
- Automatically form a wireless mesh network with the other bluetooth enabled luminaires
- Set up simple or complex scenarios with single or multiple luminaires in them. All the luminaires in one scene can have different light levels according to the needs of the end-user.
- Define the security of the network. There are four different security levels for access control.
- Control luminaires visually, by adding photographs into the app to virtually recreate the room
- The remote dimming enabled luminaires use Bluetooth Low Energy to form the direct connection and interaction between a mobile device and the luminaires
- Free app is available to download on iPhone and Android devices

Available on the iPhone App Store

ANDROID APP ON Google play

Pushkin Museum - Moscow, Russia

Beacon Muse adjustable optics providing 10 degree tight spot for accent lighting for accentuating the texture, colour and shape of exhibits

Beacon Muse optics optimised to provide a 55 degree wide flood distribution for uniform vertical and horizontal illuminance and wall washing effects

Beacon Muse II is the latest addition to the innovative and award winning Beacon Muse spotlight range. Beacon Muse II boasts improved optical control and provides an exciting accent and display lighting tool that uses cutting-edge LED technology and ancient lens principles to create a fully adjustable spotlight.

The unique soft-touch ring enables the end-user to manually adjust the beam to from a wide flood (55˚) down to a tight spot (8˚); without the need of any additional lenses or reflectors. Beacon Muse II boasts a super high CRI of 97 with the R9 value at 90 -ensuring vibrant reds - the ideal spotlight for museum, gallery and retail applications where a high quality of light is required. Available with trailing edge, on-board dimming potentiometer, DALI or SylSmart Wireless dimming.

Beacon Muse II

- Unique adjustability using soft-touch ring, enables beam control from a tight 8° spot to a 55° flood
- Super high colour rendering index, Ra 97 typical with R9 value (saturated reds) at 90; ideal for museum and gallery applications
- Up to 1,081lm focussed at 55 degree beam
- Trailing Edge, on-board dimming potentiometer, DALI or SylSmart Scene Setting versions available. Silver versions on request
- For mounting on L1 1-circuit track (Lytespan 1) or L3 3-circuit track (Lytespan 3)
- Available in 3,000K or 4,000K colour temperatures
- Snap fit accessories (Elongation lens, Softener lens, Honeycomb filter, Barn door and Snoot)
- Monopoint accessory available for surface mounting
- IR/UV free light source without heat radiation
- Long lifetime: >72,000 hours life at L80B10

LIGHT SOURCE INCLUDED

SYLSMART

Sylsmart versions please see Sylsmart section for details

Trailing edge dimmable - 21W

Code	Description	Colour
2059730	MUSE II 97 3K L1 TE BLK	Black
2059731	MUSE II 97 3K L1 TE WHT	White
2059742	MUSE II 97 3K L3 TE BLK	Black
2059743	MUSE II 97 3K L3 TE WHT	White

On-board dimming - 21W

Code	Description	Colour
2059732	MUSE II 97 3K L1 OB BLK	Black
2059733	MUSE II 97 3K L1 OB WHT	White
2059744	MUSE II 97 3K L3 OB BLK	Black
2059745	MUSE II 97 3K L3 OB WHT	White

SylSmart remote dimming - 21W

Code	Description	Colour
2059734	MUSE II 97 3K L1 SSC01 BLK	Black
2059735	MUSE II 97 3K L1 SSC01 WHT	White
2059748	MUSE II 97 3K L3 SSC01 BLK	Black
2059749	MUSE II 97 3K L3 SSC01 WHT	White

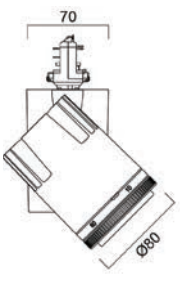
DALI Dimmable - 21W

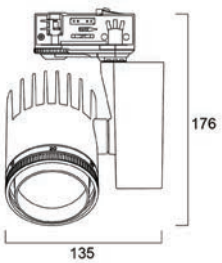
Code	Description	Colour
2059746	MUSE II 97 3K L3+DALI BLK	Black
2059747	MUSE II 97 3K L3+DALI WHT	White

Legend: MUSE II = Beacon MUSE II; TE = Trailing Edge dimmable; OB = On-Board dimming; SSC01 = SylSmart dimming; L1 = Lytespan 1-circuit; L3 = Lytespan 3-circuit; WHT = WHiTe; BLK = BLacK

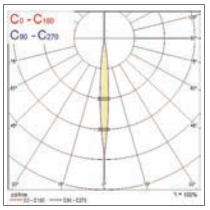
Accessories

Code	Description
2059758	BEACON SNOOT BLK
2059759	MUSE II SOFTENER LENS
2059760	MUSE II ELONGATION LENS
2059761	MUSE II HONEYCOMB BLK
2052940	BEACON BARN DOOR BLK
3020010	MONOPOINT L3 WHITE
3020080	MONOPOINT L3 BLACK

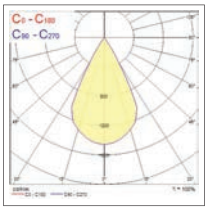




Dimensions (mm)



8° Spot



55° Flood

Elongation Lens

Softener Lens

Honeycomb Filter

Snoot

Barn Doors

Monopoint Black

Monopoint White

- Unique adjustability using soft-touch ring, enables beam control from a tight 8° spot to a 55° flood
- Super high colour rendering index, Ra 97 typical with R9 value (saturated reds) at 90; ideal for museum and gallery applications
- Up to 1,150lm focussed at 55 degree beam
- Trailing Edge, on-board dimming potentiometer, DALI or SylSmart Scene Setting versions available. Silver versions on request
- For mounting on L1 1-circuit track (Lytespan 1) or L3 3-circuit track (Lytespan 3)
- Available in 3,000K or 4,000K colour temperatures
- Snap fit accessories (Elongation lens, Softener lens, Honeycomb filter, Barn door and Snoot)
- Monopoint accessory available for surface mounting
- IR/UV free light source without heat radiation
- Long lifetime: >72,000 hours life at L80B10

LIGHT SOURCE INCLUDED

SYLSMART

Sylsmart versions please see Sylsmart section for details

Trailing edge dimmable - 21W

Code	Description	Colour
2059736	MUSE II 97 4K L1 TE BLK	Black
2059737	MUSE II 97 4K L1 TE WHT	White
2059750	MUSE II 97 4K L3 TE BLK	Black
2059751	MUSE II 97 4K L3 TE WHT	White

On-board dimming - 21W

Code	Description	Colour
2059738	MUSE II 97 4K L1 OB BLK	Black
2059739	MUSE II 97 4K L1 OB WHT	White
2059752	MUSE II 97 4K L3 OB BLK	Black
2059753	MUSE II 97 4K L3 OB WHT	White

SylSmart remote dimming - 21W

Code	Description	Colour
2059740	MUSE II 97 4K L1 SSC01 BLK	Black
2059741	MUSE II 97 4K L1 SSC01 WHT	White
2059756	MUSE II 97 4K L3 SSC01 BLK	Black
2059757	MUSE II 97 4K L3 SSC01 WHT	White

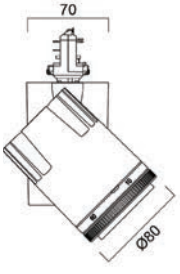
DALI Dimmable - 21W

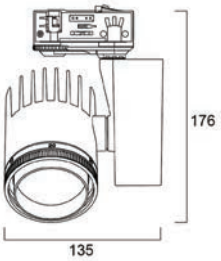
Code	Description	Colour
2059754	MUSE II 97 4K L3+DALI BLK	Black
2059755	MUSE II 97 4K L3+DALI WHT	White

Legend: MUSE II = Beacon MUSE II; TE = Trailing Edge dimmable; OB = On-Board dimming; SSC01 = SylSmart Scene Setting; L1 = Lytespan 1-circuit; L3 = Lytespan 3-circuit; WHT = WHiTe; BLK = BLacK

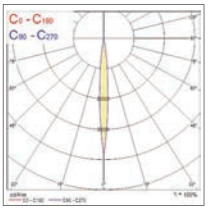
Accessories

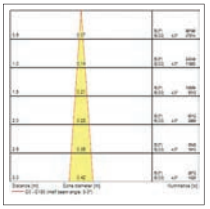
Code	Description
2059758	BEACON SNOOT BLK
2059759	MUSE II SOFTENER LENS
2059760	MUSE II ELONGATION LENS
2059761	MUSE II HONEYCOMB BLK
2052940	BEACON BARN DOOR BLK
3020010	MONOPOINT L3 WHITE
3020080	MONOPOINT L3 BLACK



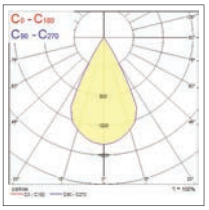


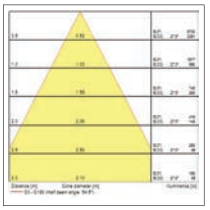
Dimensions (mm)





8° Spot





55° Flood

Elongation Lens

Softener Lens

Honeycomb Filter

Snoot

Barn Doors

Monopoint Black

Monopoint White

Mazda, Langenthal, Switzerland

Beacon XXL is set to revolutionise retail and display lighting. A performance powerhouse, Beacon XXL can deliver an impressive output of up to 5,762lm and a high quality, high intensity lit effect. A variety of CRIs, colour temperature and dimming options make the Beacon XXL the perfect LED replacement for traditional 70W CMI solutions.

Beacon XXL

Narrow Beam - Black

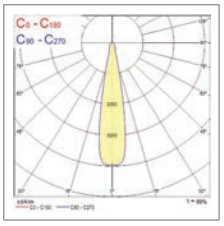
Medium Beam - Black

Wide Beam - Black

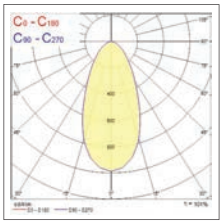
On board dimming

- Beacon XXL is an LED replacement for traditional 70W CMI spotlights, with an impressive output of up to 5,118 fixture lumens from 48W power
- 4,000K Narrow Beam 4,346lm, Medium Beam 4,122lm, Wide Beam 5,118lm
- Ideal for double height spaces, retail and display applications
- High colour rendering index, Ra 93 typical
- Available in 3,000K or 4,000K colour temperatures
- Non dimmable, On-board dimming and DALI versions available
- Narrow (21°), Medium (50°) or Wide (67°) beam options
- For mounting on 3-circuit track (Lytespan 3)
- White or Black paint finishes as standard. Silver available on request
- Barn doors, Elongation lens, Honeycomb and Snoot accessories available
- IR/UV free light source without heat radiation
- Long lifetime: 50,000 hours life at 70% of the original output (L70)

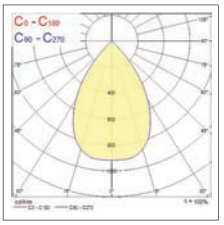
LIGHT SOURCE INCLUDED



4,000K - Narrow Beam



4,000K, Medium Beam



4,000K, Wide beam

3,000K

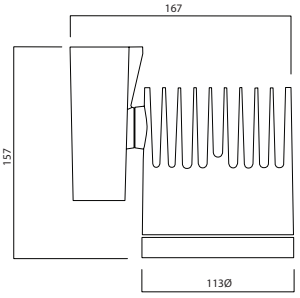
Code	Description	Colour
21° Narrow Beam		
2092990	BCON XXL NB 3K L3 BLK	Black
2092991	BCON XXL NB 3K L3 WHT	White
2092992	BCON XXL NB O/B DIM 3K L3 BLK	Black
2092993	BCON XXL NB O/B DIM 3K L3 WHT	White
2092994	BCON XXL NB DALI 3K L3 BLK	Black
2092995	BCON XXL NB DALI 3K L3 WHT	White
50° Medium Beam		
2093004	BCON XXL MB 3K L3 BLK	Black
2093005	BCON XXL MB 3K L3 WHT	White
2093006	BCON XXL MB O/B DIM 3K L3 BLK	Black
2093007	BCON XXL MB O/B DIM 3K L3 WHT	White
2093008	BCON XXL MB DALI 3K L3 BLK	Black
2093009	BCON XXL MB DALI 3K L3 WHT	White
67° Wide Beam		
2093018	BCON XXL WB 3K L3 BLK	Black
2093019	BCON XXL WB 3K L3 WHT	White
2093020	BCON XXL WB O/B DIM 3K L3 BLK	Black
2093021	BCON XXL WB O/B DIM 3K L3 WHT	White
2093022	BCON XXL WB DALI 3K L3 BLK	Black
2093023	BCON XXL WB DALI 3K L3 WHT	White

4,000K

Code	Description	Colour
21° Narrow Beam		
2093032	BCON XXL NB 4K L3 BLK	Black
2093033	BCON XXL NB 4K L3 WHT	White
2093034	BCON XXL NB O/B DIM 4K L3 BLK	Black
2093035	BCON XXL NB O/B DIM 4K L3 WHT	White
2093036	BCON XXL NB DALI 4K L3 BLK	Black
2093037	BCON XXL NB DALI 4K L3 WHT	White
50° Medium Beam		
2093046	BCON XXL MB 4K L3 BLK	Black
2093047	BCON XXL MB 4K L3 WHT	White
2093048	BCON XXL MB O/B DIM 4K L3 BLK	Black
2093049	BCON XXL MB O/B DIM 4K L3 WHT	White
2093050	BCON XXL MB DALI 4K L3 BLK	Black
2093051	BCON XXL MB DALI 4K L3 WHT	White
67° Wide Beam		
2093060	BCON XXL WB 4K L3 BLK	Black
2093061	BCON XXL WB 4K L3 WHT	White
2093062	BCON XXL WB O/B DIM 4K L3 BLK	Black
2093063	BCON XXL WB O/B DIM 4K L3 WHT	White
2093064	BCON XXL WB DALI 4K L3 BLK	Black
2093065	BCON XXL WB DALI 4K L3 WHT	White

Legend: BCON = Beacon; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; HO = High Output; O/B DIM = On-Board DIMming; L3 = Lytespan 3 track; WHT = WHiTe; BLK = BLacK

Beacon XXL



Dimensions (mm)

Narrow Beam - White

Medium Beam - White

Wide Beam - White

- Beacon XXL High Output is an LED replacement for traditional 70W CMI spotlights, with an impressive output of up to 5,762 fixture lumens from 48W power
- 4,000K Narrow Beam 5,128lm, Medium Beam 4,884lm, Wide Beam 5,762lm
- Ideal for double height spaces, retail and display applications
- High colour rendering index, Ra 85 typical
- Available in 3,000K or ,4000K colour temperatures
- Narrow (21°), Medium (50°) or Wide (67°) beam options
- For mounting on 3-circuit track (Lytespan 3)
- White or Black paint finishes as standard. Silver available on request
- Barn doors, Elongation lens, Honeycomb and Snoot accessories available
- IR/UV free light source without heat radiation
- Long lifetime: 50,000 hours life at 70% of the original output (L70)

LIGHT SOURCE INCLUDED

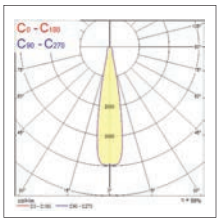
3,000K - High Output

Code	Description	Colour
21° Narrow Beam		
2059307	BCON XXL NB HO 3K L3 BLK	Black
2059308	BCON XXL NB HO 3K L3 WHT	White
50° Medium Beam		
2059311	BCON XXL MB HO 3K L3 BLK	Black
2059312	BCON XXL MB HO 3K L3 WHT	White
67° Wide Beam		
2059315	BCON XXL WB HO 3K L3 BLK	Black
2059316	BCON XXL WB HO 3K L3 WHT	White

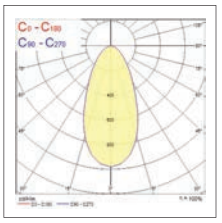
4,000K - High Output

Code	Description	Colour
21° Narrow Beam		
2059309	BCON XXL NB HO 4K L3 BLK	Black
2059310	BCON XXL NB HO 4K L3 WHT	White
50° Medium Beam		
2059313	BCON XXL MB HO 4K L3 BLK	Black
2059314	BCON XXL MB HO 4K L3 WHT	White
67° Wide Beam		
2059317	BCON XXL WB HO 4K L3 BLK	Black
2059318	BCON XXL WB HO 4K L3 WHT	White

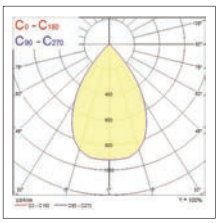
Legend: BCON = Beacon; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; HO = High Output; L3 = Lytespan 3 track; WHT = WHiTe; BLK = BLacK



4,000K - Narrow Beam - High Output

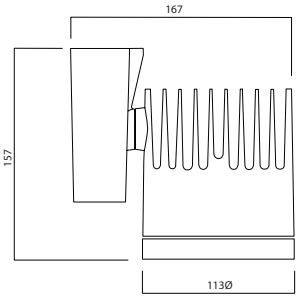


4,000K - Medium Beam - High Output



4,000K - Wide Beam - High Output

Beacon XXL



Dimensions (mm)

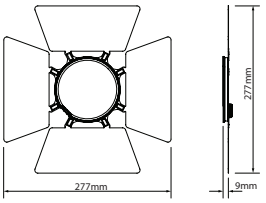
Accessories

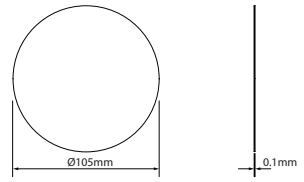
Barn Doors

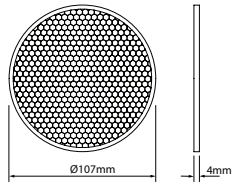
Elongation Lens

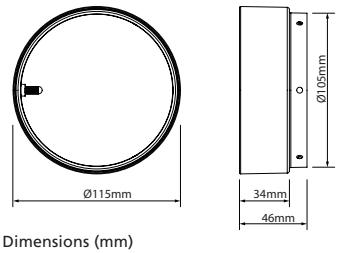
Honeycomb

Snoot









Dimensions (mm)

Accessories

Code	Description
2058323	Beacon XXL Barn Doors BLK
2058324	Beacon XXL Elongation Lens
2058325	Beacon XXL Honeycomb BLK
2058326	Beacon XXL Snoot BLK

Elephane Paname, Paris, France

York Minster, U.K.

Beacon XL is one of the latest editions to Concord's award-winning Beacon family. This impressive LED spotlight pushes the boundaries of technology to provide up to 3300 fixture lumens at 42 Watts. Design specifically for shop and display applications, the stylish Beacon XL replaces CMI-T (HID) luminaires and delivers a CRI of 85 (CRI of 97 available on request). Available in black and white, track (L1 / L3) and surface mounted options - 3,000K or 4,000K. Dependent upon your application a variety of beam angles: 12˚ narrow, 25˚ medium and 50˚ wide beams are standard. Beacon XL is also available in non-dimmable, on-board dimming and DALI dimming models.

Beacon XL

- A comprehensive range of high quality accent LED spotlights; ideal for museum and gallery applications
- 3,000K Wide Beam 2,275lm, 4,000K Wide beam 2,478lm
- 3,000K Narrow Beam 1,675lm, 4,000K Narrow Beam 1,827lm
- Super high colour rendering with CRI 97 typical; with R9 value at 90
- Low glare, dark-light detail for increased accentuation and visual comfort
- Intense Narrow (14°), Medium (33°) and Wide (44°) beam options
- Dimming via On-board potentiometer
- For mounting on 3-circuit track (Lytespan 3)
- Available in 3000K or 4000K colour temperatures
- White or Black paint finish as standard. Silver available on request
- Accessories available (Elongation lens, Honeycomb filter, Barn door and Snoot)
- IR/UV free light source without heat radiation
- Long lifetime: >72,000 hours life at L80B10

LIGHT SOURCE INCLUDED

IP20 · 355° · 90° · 1m

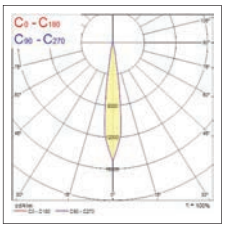
Beacon XL Accent - 97 CRI - 3000K

Code	Description	Colour
Narrow Beam Three Circuit		
2059568	BCON XL ACT97 3K NB L3 OB BLK	Black
2059569	BCON XL ACT97 3K NB L3 OB WHT	White
Medium Beam Three Circuit		
2059570	BCON XL ACT97 3K MB L3 OB BLK	Black
2059571	BCON XL ACT97 3K MB L3 OB WHT	White
Wide Beam Three Circuit		
2059572	BCON XL ACT97 3K WB L3 OB BLK	Black
2059573	BCON XL ACT97 3K WB L3 OB WHT	White

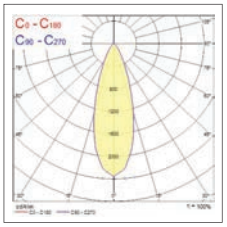
Beacon XL Accent - 97 CRI - 4000K

Code	Description	Colour
Narrow Beam Three Circuit		
2059576	BCON XL ACT97 4K NB L3 OB BLK	Black
2059577	BCON XL ACT97 4K NB L3 OB WHT	White
Medium Beam Three Circuit		
2059574	BCON XL ACT97 4K MB L3 OB BLK	Black
2059575	BCON XL ACT97 4K MB L3 OB WHT	White
Wide Beam Three Circuit		
2059578	BCON XL ACT97 4K WB L3 OB BLK	Black
2059579	BCON XL ACT97 4K WB L3 OB WHT	White

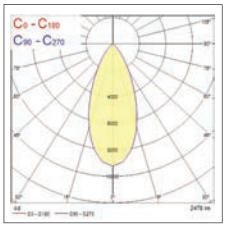
Legend: BCON = BeaCON; ACT = ACcenT; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; L3 = Lytespan 3-circuit; OB = On-Board dimming; WHT = WHiTe; BLK = BLacK



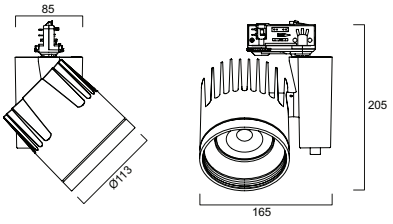
Intense Narrow Beam



Medium Beam



Wide Beam



Dimensions (mm)

Accessories

Elongation Lens

Honeycomb Filter

Snoot

Barn Doors

Monopoint Black

Monopoint White

Accessories

Code	Description
2058324	BCON XL/XXL ELONGATION LENS
2058325	BCON XL/XXL HONEYCOMB BLK
2058326	BCON XL/XXL SNOOT BLK
2058323	BCON XL/XXL BARN DOOR BLK
3020010	MONOPOINT L3 WHITE
3020080	MONOPOINT L3 BLACK

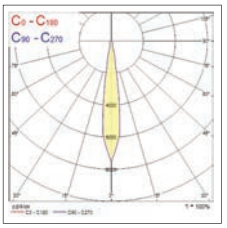
- A comprehensive range of efficient and high performing LED spotlights; ideal for retail and display applications
- 3,000K upto 3,103lm output
- High colour rendering with CRI 93 typical
- High output versions also available with CRI 85 typical
- Narrow (15°), Medium (34°) and Wide (50°) beam options
- Non-dimmable, On-board dimming potentiometer or DALI versions available
- For mounting on 3-circuit track (Lytespan 3)
- Available in 3,000K or 4,000K colour temperatures
- White or Black paint finish as standard. Silver available on request
- Accessories available (Elongation lens, Honeycomb filter, Barn door and Snoot)
- IR/UV free light source without heat radiation
- Long lifetime: >72,000 hours life at L80B10

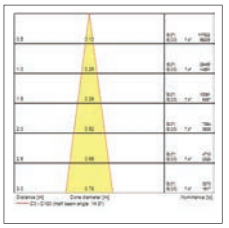
LIGHT SOURCE INCLUDED

Beacon XL - 93 CRI - 3,000K

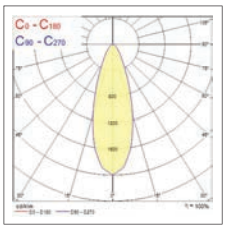
Code	Description	Colour
Narrow Beam Three Circuit		
2059676	BCON XL 93 3K NB L3 BLK	Black
2059677	BCON XL 93 3K NB L3 WHT	White
2059678	BCON XL 93 3K NB L3 OB BLK	Black
2059679	BCON XL 93 3K NB L3 OB WHT	White
2059680	BCON XL 93 3K NB L3+DALI BLK	Black
2059681	BCON XL 93 3K NB L3+DALI WHT	White
Medium Beam Three Circuit		
2059682	BCON XL 93 3K MB L3 BLK	Black
2059683	BCON XL 93 3K MB L3 WHT	White
2059684	BCON XL 93 3K MB L3 OB BLK	Black
2059685	BCON XL 93 3K MB L3 OB WHT	White
2059686	BCON XL 93 3K MB L3+DALI BLK	Black
2059687	BCON XL 93 3K MB L3+DALI WHT	White
Wide Beam Three Circuit		
2059688	BCON XL 93 3K WB L3 BLK	Black
2059689	BCON XL 93 3K WB L3 WHT	White
2059690	BCON XL 93 3K WB L3 OB BLK	Black
2059691	BCON XL 93 3K WB L3 OB WHT	White
2059692	BCON XL 93 3K WB L3+DALI BLK	Black
2059693	BCON XL 93 3K WB L3+DALI WHT	White

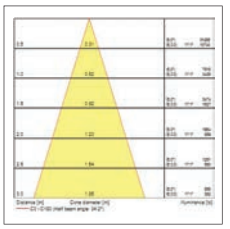
Legend: BCON XL = BeaCON XL; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; L3 = Lytespan 3-circuit; OB = On-Board dimming; WHT = WHiTe; BLK = BLacK



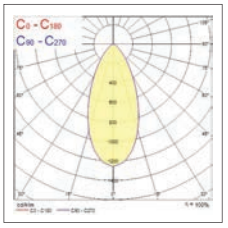


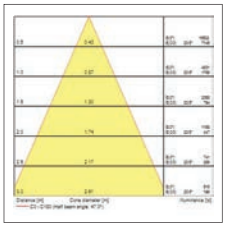
Narrow Beam



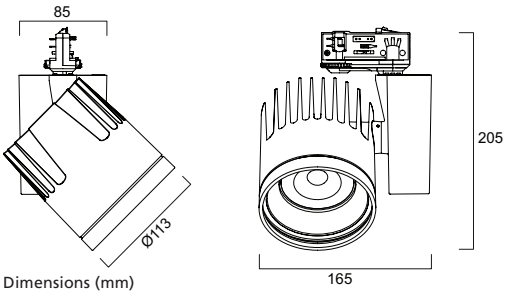


Medium Beam





Wide Beam



Dimensions (mm)

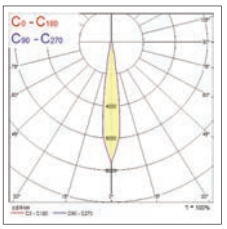
- A comprehensive range of efficient and high performing LED spotlights; ideal for retail and display applications
- 4,000K upto 3,312lm output
- High colour rendering with CRI 93 typical
- High output versions also available with CRI 85 typical
- Narrow (15°), Medium (34°) and Wide (50°) beam options
- Non-dimmable, On-board dimming potentiometer or DALI versions available
- For mounting on 3-circuit track (Lytespan 3)
- Available in 3,000K or 4,000K colour temperatures
- White or Black paint finish as standard. Silver available on request
- Accessories available (Elongation lens, Honeycomb filter, Barn door and Snoot)
- IR/UV free light source without heat radiation
- Long lifetime: >72,000 hours life at L80B10

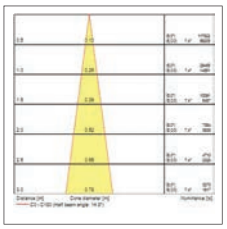
LIGHT SOURCE INCLUDED

Beacon XL - 93 CRI - 4000K

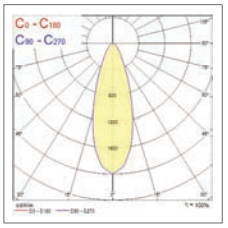
Code	Description	Colour
Narrow Beam Three Circuit		
2059694	BCON XL 93 4K NB L3 BLK	Black
2059695	BCON XL 93 4K NB L3 WHT	White
2059696	BCON XL 93 4K NB L3 OB BLK	Black
2059697	BCON XL 93 4K NB L3 OB WHT	White
2059698	BCON XL 93 4K NB L3+DALI BLK	Black
2059699	BCON XL 93 4K NB L3+DALI WHT	White
Medium Beam Three Circuit		
2059700	BCON XL 93 4K MB L3 BLK	Black
2059701	BCON XL 93 4K MB L3 WHT	White
2059702	BCON XL 93 4K MB L3 OB BLK	Black
2059703	BCON XL 93 4K MB L3 OB WHT	White
2059704	BCON XL 93 4K MB L3+DALI BLK	Black
2059705	BCON XL 93 4K MB L3+DALI WHT	White
Wide Beam Three Circuit		
2059706	BCON XL 93 4K WB L3 BLK	Black
2059707	BCON XL 93 4K WB L3 WHT	White
2059708	BCON XL 93 4K WB L3 OB BLK	Black
2059709	BCON XL 93 4K WB L3 OB WHT	White
2059710	BCON XL 93 4K WB L3+DALI BLK	Black
2059711	BCON XL 93 4K WB L3+DALI WHT	White

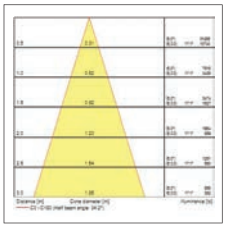
Legend: BCON XL = BeaCON XL; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; L3 = Lytespan 3-circuit; OB = On-Board dimming; WHT = WHiTe; BLK = BLacK



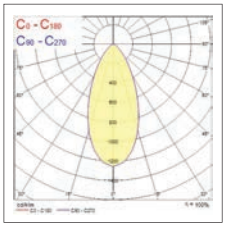


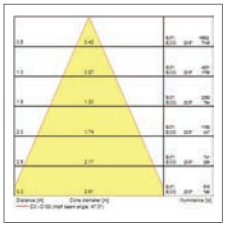
Narrow Beam



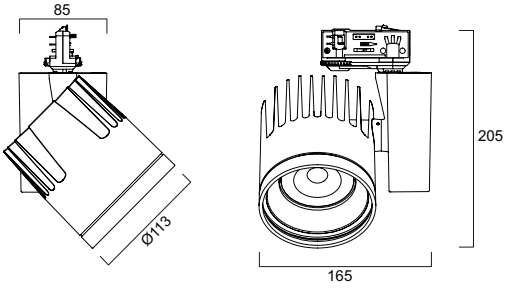


Medium Beam





Wide Beam



Dimensions (mm)

- A comprehensive range of high output, efficient and high performing LED spotlights; ideal for retail and display applications
- 3,000K upto 3,805lm output, 4,000K upto 3,911lm
- High output versions with CRI 85 typical
- Narrow (15°), Medium (34°) and Wide (50°) beam options
- For mounting on 3-circuit track (Lytespan 3)
- Available in 3,000K or 4,000K colour temperatures
- White or Black paint finish as standard. Silver available on request
- Accessories available (Elongation lens, Honeycomb filter, Barn door and Snoot)
- IR/UV free light source without heat radiation
- Long lifetime: >72,000 hours life at L80B10

LIGHT SOURCE INCLUDED

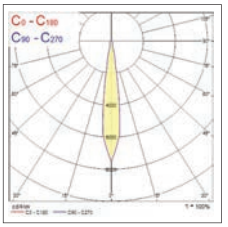
Beacon XL (High Output) - 85 CRI - 3000K

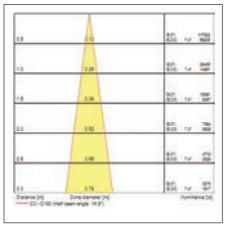
Code	Description	Colour
Narrow Beam Three Circuit		
2059712	BCON XL 85 3K NB L3 BLK	Black
2059713	BCON XL 85 3K NB L3 WHT	White
Medium Beam Three Circuit		
2059714	BCON XL 85 3K MB L3 BLK	Black
2059715	BCON XL 85 3K MB L3 WHT	White
Wide Beam Three Circuit		
2059716	BCON XL 85 3K WB L3 BLK	Black
2059717	BCON XL 85 3K WB L3 WHT	White

Beacon XL (High Output) - 85 CRI - 4000K

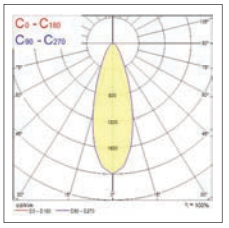
Code	Description	Colour
Narrow Beam Three Circuit		
2059718	BCON XL 85 4K NB L3 BLK	Black
2059719	BCON XL 85 4K NB L3 WHT	White
Medium Beam Three Circuit		
2059720	BCON XL 85 4K MB L3 BLK	Black
2059721	BCON XL 85 4K MB L3 WHT	White
Wide Beam Three Circuit		
2059722	BCON XL 85 4K WB L3 BLK	Black
2059723	BCON XL 85 4K WB L3 WHT	White

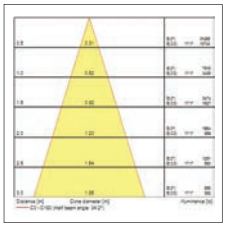
Legend: BCON XL = BeaCON XL; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; L3 = Lytespan 3-circuit; OB = On-Board dimming; WHT = WHiTe; BLK = BLacK



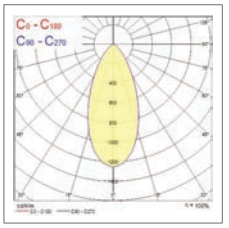


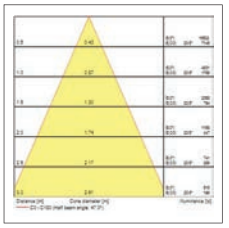
Narrow Beam



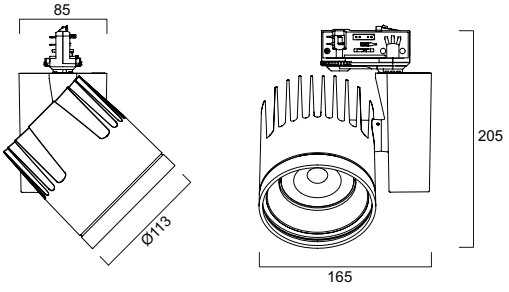


Medium Beam





Wide Beam



Dimensions (mm)

Accessories

Elongation Lens

Honeycomb Filter

Snoot

Barn Doors

Monopoint Black

Monopoint White

Accessories

Code	Description
2058324	BCON XL/XXL ELONGATION LENS
2058325	BCON XL/XXL HONEYCOMB BLK
2058326	BCON XL/XXL SNOOT BLK
2058323	BCON XL/XXL BARN DOOR BLK
3020010	MONOPOINT L3 WHITE
3020080	MONOPOINT L3 BLACK

Design Museum, London, UK

From Concord's award-winning Beacon Family, we present Beacon Accent. This range of LED spotlights has been specifically designed for museums, galleries and high-end retail where colour rendition plays an important and active role.

With a super high CRI of 97 and the R9 value (saturated red) at 90; the Beacon Accent range ensures for truer, richer and more vibrant colours.

The addition of the dark-light detail helps to reduce glare and increase visual comfort. Available in 3000K and 4000K CCT's, dimming via an on-board potentiometer and a choice of 3 beam angles – Intense Narrow, Medium and Wide.

Beacon Accent II

- A comprehensive range of high quality accent LED spotlights; ideal for museum and gallery applications
- 3,000K 1,451lm wide beam, 4,000K 1,578lm wide beam
- 3,000K 503lm narrow beam, 4,000K 576lm narrow beam
- Super high colour rendering with CRI 97 typical; with R9 value at 90
- Low glare, dark-light detail for increased accentuation and visual comfort
- Intense Narrow (10°), Medium (37°) and Wide (52°) beam options
- Dimming via On-board potentiometer
- For mounting on 1-circuit track (Lytespan 1) or 3-circuit track (Lytespan 3)
- Available in 3000K or 4000K colour temperatures
- White or Black paint finish as standard. Silver available on request
- Accessories available (Elongation lens, Softner lens, Honeycomb filter, Barn door and Snoot)
- IR/UV free light source without heat radiation
- Long lifetime: >72,000 hours life at L80B10

LIGHT SOURCE INCLUDED

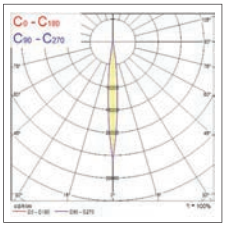
Beacon Accent - 97 CRI - 3000K

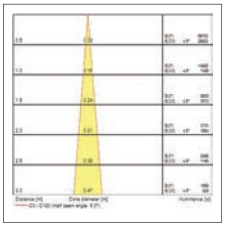
Code	Description	Colour
Narrow Beam Single Circuit		
2059544	BCON ACT97 3K NB L1 OB BLK	Black
2059545	BCON ACT97 3K NB L1 OB WHT	White
Medium Beam Single Circuit		
2059546	BCON ACT97 3K MB L1 OB BLK	Black
2059547	BCON ACT97 3K MB L1 OB WHT	White
Wide Beam Single Circuit		
2059548	BCON ACT97 3K WB L1 OB BLK	Black
2059549	BCON ACT97 3K WB L1 OB WHT	White
Narrow Beam Three Circuit		
2059556	BCON ACT97 3K NB L3 OB BLK	Black
2059557	BCON ACT97 3K NB L3 OB WHT	White
Medium Beam Three Circuit		
2059558	BCON ACT97 3K MB L3 OB BLK	Black
2059559	BCON ACT97 3K MB L3 OB WHT	White
Wide Beam Three Circuit		
2059560	BCON ACT97 3K WB L3 OB BLK	Black
2059561	BCON ACT97 3K WB L3 OB WHT	White

Beacon Accent - 97 CRI - 4000K

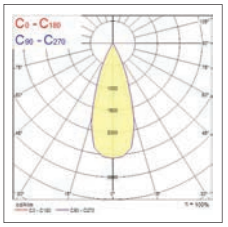
Code	Description	Colour
Narrow Beam Single Circuit		
2059550	BCON ACT97 4K NB L1 OB BLK	Black
2059551	BCON ACT97 4K NB L1 OB WHT	White
Medium Beam Single Circuit		
2059552	BCON ACT97 4K MB L1 OB BLK	Black
2059553	BCON ACT97 4K MB L1 OB WHT	White
Wide Beam Single Circuit		
2059554	BCON ACT97 4K WB L1 OB BLK	Black
2059555	BCON ACT97 4K WB L1 OB WHT	White
Narrow Beam Three Circuit		
2059562	BCON ACT97 4K NB L3 OB BLK	Black
2059563	BCON ACT97 4K NB L3 OB WHT	White
Medium Beam Three Circuit		
2059564	BCON ACT97 4K MB L3 OB BLK	Black
2059565	BCON ACT97 4K MB L3 OB WHT	White
Wide Beam Three Circuit		
2059566	BCON ACT97 4K WB L3 OB BLK	Black
2059567	BCON ACT97 4K WB L3 OB WHT	White

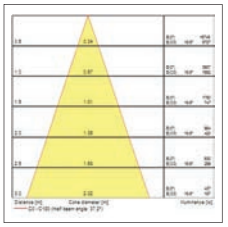
Legend: BCON = BeaCON; ACT = ACcenT; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; L1 = Lytespan 1-circuit; L3 = Lytespan 3-circuit; OB = On-Board dimming; WHT = WHiTe; BLK = BLacK



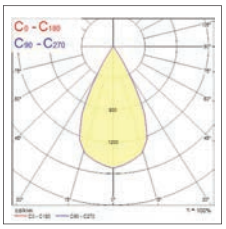


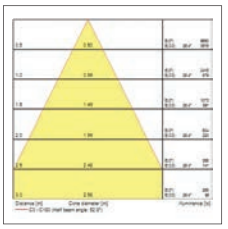
Intense Narrow Beam



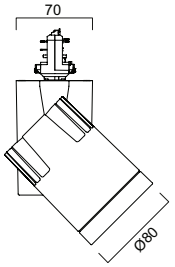


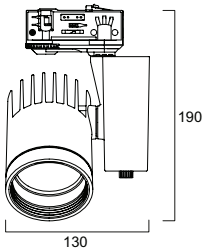
Medium Beam





Wide Beam





Dimensions (mm)

Accessories

Elongation Lens

Softner Lens

Honeycomb Filter

Snoot

Barn Doors

Monopoint Black

Monopoint White

Accessories

Code	Description
2059772	BEACON ELONGATION LENS
2059774	BEACON SOFTNER LENS
2059773	BEACON HONEYCOMB
2059758	BEACON SNOOT
2052940	BEACON BARN DOORS
3020010	MONOPOINT L3 WHITE
3020080	MONOPOINT L3 BLACK

St.William's Church, Bradford, UK

The Concord Beacon range of Spotlights is one of the most comprehensive on the market, providing complete versatility for display and accent lighting applications. Beacon introduces a timeless but contemporary all die-cast aluminium design based around simple geometric shapes offering a selection of beam angles and additional filters and accessories to complete the range.

The Beacon LED spotlight introduces a new lighting dimension to retail and display spaces. Beacon meets the tough demands of these environments by providing good colour rendering, zero UV/IR radiation, reduction in maintenance costs and an energy saving solution over existing lamp sources such as low voltage halogen.

Beacon II

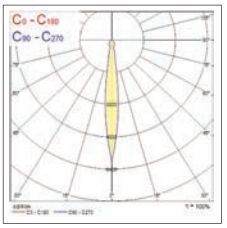
- A comprehensive range of efficient and high performing LED spotlights; ideal for retail and display applications
- 3000K 1,700lm wide beam, 1,512lm narrow beam
- High colour rendering with CRI 93 typical
- Narrow (12°), Medium (38°) and Wide (55°) beam options
- Trailing Edge (TE), On-board dimming potentiometer or DALI versions available
- For mounting on 1-circuit track (Lytespan 1) or 3-circuit track (Lytespan 3)
- Available in 3000K or 4000K colour temperatures
- White or Black paint finish as standard. Silver available on request
- Accessories available (Elongation lens, Softner lens, Honeycomb filter, Barn door and Snoot)
- IR/UV free light source without heat radiation
- Long lifetime: >72,000 hours life at L80B10

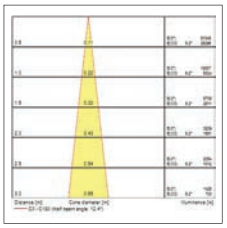
LIGHT SOURCE INCLUDED

Beacon - 93 CRI - 3,000K

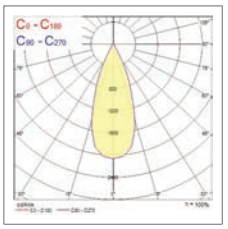
Code	Description	Colour
Narrow Beam Single Circuit		
2059580	BCON 93 3K NB L1 TE BLK	Black
2059581	BCON 93 3K NB L1 TE WHT	White
2059582	BCON 93 3K NB L1 OB BLK	Black
2059583	BCON 93 3K NB L1 OB WHT	White
Medium Beam Single Circuit		
2059586	BCON 93 3K MB L1 TE BLK	Black
2059587	BCON 93 3K MB L1 TE WHT	White
2059588	BCON 93 3K MB L1 OB BLK	Black
2059589	BCON 93 3K MB L1 OB WHT	White
Wide Beam Single Circuit		
2059592	BCON 93 3K WB L1 TE BLK	Black
2059593	BCON 93 3K WB L1 TE WHT	White
2059594	BCON 93 3K WB L1 OB BLK	Black
2059595	BCON 93 3K WB L1 OB WHT	White
Narrow Beam Three Circuit		
2059616	BCON 93 3K NB L3 TE BLK	Black
2059617	BCON 93 3K NB L3 TE WHT	White
2059618	BCON 93 3K NB L3 OB BLK	Black
2059619	BCON 93 3K NB L3 OB WHT	White
2059620	BCON 93 3K NB L3+DALI BLK	Black
2059621	BCON 93 3K NB L3+DALI WHT	White
Medium Beam Three Circuit		
2059622	BCON 93 3K MB L3 TE BLK	Black
2059623	BCON 93 3K MB L3 TE WHT	White
2059624	BCON 93 3K MB L3 OB BLK	Black
2059625	BCON 93 3K MB L3 OB WHT	White
2059626	BCON 93 3K MB L3+DALI BLK	Black
2059627	BCON 93 3K MB L3+DALI WHT	White
Wide Beam Three Circuit		
2059628	BCON 93 3K WB L3 TE BLK	Black
2059629	BCON 93 3K WB L3 TE WHT	White
2059630	BCON 93 3K WB L3 OB BLK	Black
2059631	BCON 93 3K WB L3 OB WHT	White
2059632	BCON 93 3K WB L3+DALI BLK	Black
2059633	BCON 93 3K WB L3+DALI WHT	White

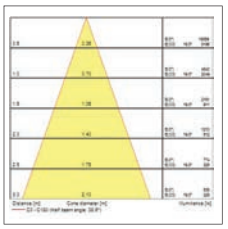
Legend: BCON = BeaCON; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; L1 = Lytespan 1-circuit; L3 = Lytespan 3-circuit; TE = Trailing Edge dimmable; OB = On-Board dimming; WHT = WHiTe; BLK = BLacK



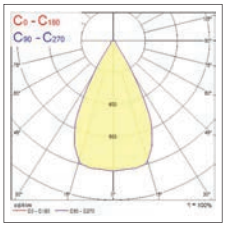


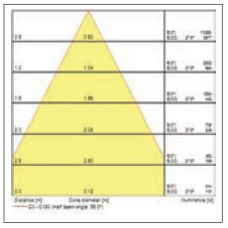
Narrow Beam



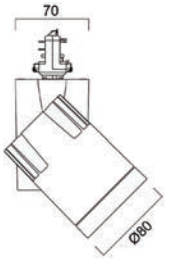


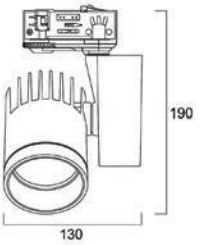
Medium Beam





Wide Beam





Dimensions (mm)

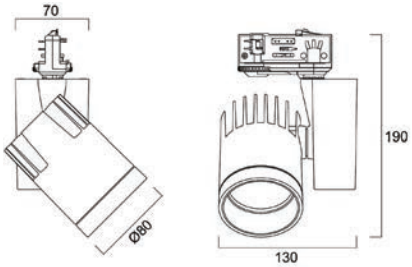
- A comprehensive range of efficient and high performing LED spotlights; ideal for retail and display applications
- 4000K 1,853lm wide beam, 1,669lm narrow beam
- High colour rendering with CRI 93 typical
- Narrow (12°), Medium (38°) and Wide (55°) beam options
- Trailing Edge, On-board dimming potentiometer or DALI versions available
- For mounting on 1-circuit track (Lytespan 1) or 3-circuit track (Lytespan 3)
- Available in 3000K or 4000K colour temperatures
- White or Black paint finish as standard. Other colours available on request.
- Accessories available (Elongation lens, Softner lens, Honeycomb filter, Barn door and Snoot)
- IR/UV free light source without heat radiation
- Long lifetime: >72,000 hours life at L80B10

LIGHT SOURCE INCLUDED

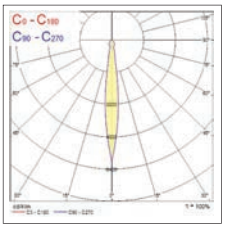
Beacon - 93 CRI - 4,000K

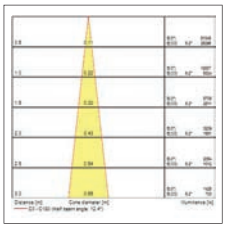
Code	Description	Colour
Narrow Beam Single Circuit		
2059598	BCON 93 4K NB L1 TE BLK	Black
2059599	BCON 93 4K NB L1 TE WHT	White
2059600	BCON 93 4K NB L1 OB BLK	Black
2059601	BCON 93 4K NB L1 OB WHT	White
Medium Beam Single Circuit		
2059604	BCON 93 4K MB L1 TE BLK	Black
2059605	BCON 93 4K MB L1 TE WHT	White
2059606	BCON 93 4K MB L1 OB BLK	Black
2059607	BCON 93 4K MB L1 OB WHT	White
Wide Beam Single Circuit		
2059610	BCON 93 4K WB L1 TE BLK	Black
2059611	BCON 93 4K WB L1 TE WHT	White
2059612	BCON 93 4K WB L1 OB BLK	Black
2059613	BCON 93 4K WB L1 OB WHT	White
Narrow Beam Three Circuit		
2059634	BCON 93 4K NB L3 TE BLK	Black
2059635	BCON 93 4K NB L3 TE WHT	White
2059636	BCON 93 4K NB L3 OB BLK	Black
2059637	BCON 93 4K NB L3 OB WHT	White
2059638	BCON 93 4K NB L3+DALI BLK	Black
2059639	BCON 93 4K NB L3+DALI WHT	White
Medium Beam Three Circuit		
2059640	BCON 93 4K MB L3 TE BLK	Black
2059641	BCON 93 4K MB L3 TE WHT	White
2059642	BCON 93 4K MB L3 OB BLK	Black
2059643	BCON 93 4K MB L3 OB WHT	White
2059644	BCON 93 4K MB L3+DALI BLK	Black
2059645	BCON 93 4K MB L3+DALI WHT	White
Wide Beam Three Circuit		
2059646	BCON 93 4K WB L3 TE BLK	Black
2059647	BCON 93 4K WB L3 TE WHT	White
2059648	BCON 93 4K WB L3 OB BLK	Black
2059649	BCON 93 4K WB L3 OB WHT	White
2059650	BCON 93 4K WB L3+DALI BLK	Black
2059651	BCON 93 4K WB L3+DALI WHT	White

Legend: BCON = BeaCON; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; L1 = Lytespan 1-circuit; L3 = Lytespan 3-circuit; TE = Trailing Edge dimmable; OB = On-Board dimming; WHT = WHiTe; BLK = BLacK

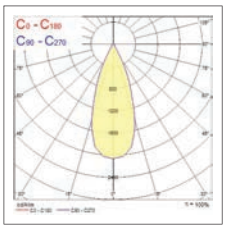


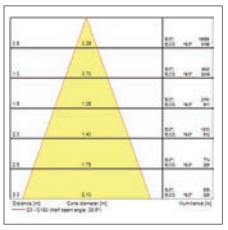
Dimensions (mm)



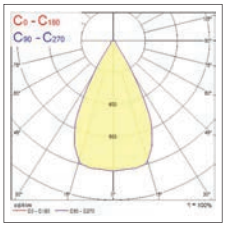


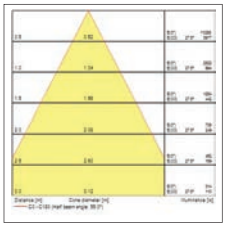
Narrow Beam





Medium Beam





Wide Beam

- A comprehensive range of high output, efficient and high performing LED spotlights; ideal for retail and display applications
- 3,000K 2,269lm wide beam, 2,013lm narrow beam
- 4,000K 2,301lm wide beam, 2,136lm narrow beam
- High output versions with CRI 85 typical
- Narrow (12°), Medium (38°) and Wide (55°) beam options
- Trailing Edge (TE)
- For mounting on 1-circuit track (Lytespan 1) or 3-circuit track (Lytespan 3)
- Available in 3000K or 4000K colour temperatures
- White or Black paint finish as standard. Silver available on request
- Accessories available (Elongation lens, Softner lens, Honeycomb filter, Barn door and Snoot)
- IR/UV free light source without heat radiation
- Long lifetime: >72,000 hours life at L80B10

LIGHT SOURCE INCLUDED

IP20 355° 90° 1m

LED

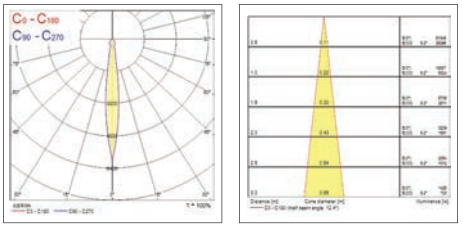
Beacon (High Output) - 85 CRI - 3000K

Code	Description	Colour
Narrow Beam Single Circuit		
2059652	BCON 85 3K NB L1 TE BLK	Black
2059653	BCON 85 3K NB L1 TE WHT	White
Medium Beam Single Circuit		
2059654	BCON 85 3K MB L1 TE BLK	Black
2059655	BCON 85 3K MB L1 TE WHT	White
Wide Beam Single Circuit		
2059656	BCON 85 3K WB L1 TE BLK	Black
2059657	BCON 85 3K WB L1 TE WHT	White
Narrow Beam Three Circuit		
2059664	BCON 85 3K NB L3 TE BLK	Black
2059665	BCON 85 3K NB L3 TE WHT	White
Medium Beam Three Circuit		
2059666	BCON 85 3K MB L3 TE BLK	Black
2059667	BCON 85 3K MB L3 TE WHT	White
Wide Beam Three Circuit		
2059668	BCON 85 3K WB L3 TE BLK	Black
2059669	BCON 85 3K WB L3 TE WHT	White

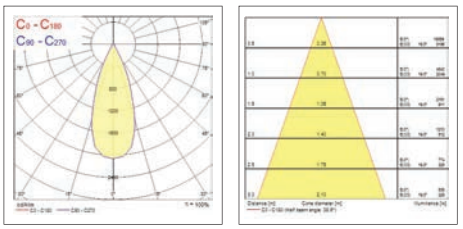
Beacon (High Output) - 85 CRI - 4000K

Code	Description	Colour
Narrow Beam Single Circuit		
2059658	BCON 85 4K NB L1 TE BLK	Black
2059659	BCON 85 4K NB L1 TE WHT	White
Medium Beam Single Circuit		
2059660	BCON 85 4K MB L1 TE BLK	Black
2059661	BCON 85 4K MB L1 TE WHT	White
Wide Beam Single Circuit		
2059662	BCON 85 4K WB L1 TE BLK	Black
2059663	BCON 85 4K WB L1 TE WHT	White
Narrow Beam Three Circuit		
2059670	BCON 85 4K NB L3 TE BLK	Black
2059671	BCON 85 4K NB L3 TE WHT	White
Medium Beam Three Circuit		
2059672	BCON 85 4K MB L3 TE BLK	Black
2059673	BCON 85 4K MB L3 TE WHT	White
Wide Beam Three Circuit		
2059674	BCON 85 4K WB L3 TE BLK	Black
2059675	BCON 85 4K WB L3 TE WHT	White

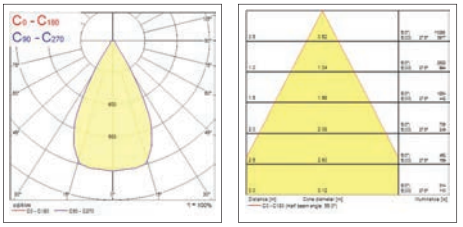
Legend: BCON = BeaCON; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; L1 = Lytespan 1-circuit; L3 = Lytespan 3-circuit; TE = Trailing Edge dimmable; WHT = WHiTe; BLK = BLacK



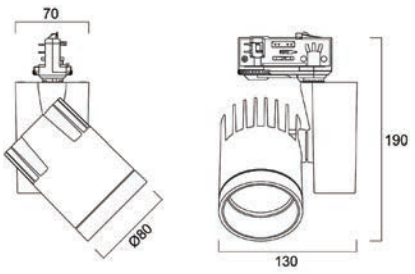
Narrow Beam



Medium Beam



Wide Beam



Dimensions (mm)

Accessories

Elongation Lens

Softner Lens

Honeycomb Filter

Snoot

Barn Doors

Monopoint Black

Monopoint White

Accessories

Code	Description
2059772	BEACON ELONGATION LENS
2059774	BEACON SOFTNER LENS
2059773	BEACON HONEYCOMB
2059758	BEACON SNOOT
2052940	BEACON BARN DOORS
3020010	MONOPOINT L3 WHITE
3020080	MONOPOINT L3 BLACK

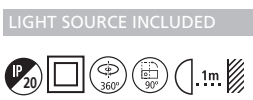
Beacon Minor II - Spot

Spot L3 Track

Spot L3 Track

- Beacon Mains II is a compact mains voltage LED spotlight family ideal for retail and shop lighting applications
- Using the latest generation AC LED means no visible driver box and a smaller head for a cleaner look-and-feel
- 25 deg Spot versions 916lm, 92lm/W
- Colour Rendering index >80
- Phase dimmable (see list of compatible dimmers)
- For mounting on 1-circuit track (Lytespan 1) or 3-circuit track (Lytespan 3)
- Available in 3000K or 4000K colour temperatures
- Monopoint accessory available for surface mounting
- IR/UV free light source without heat radiation
- Long lifetime: 50,000 hours life at L70B50

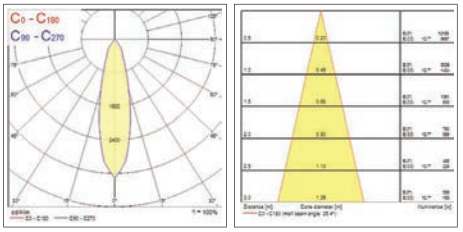
LIGHT SOURCE INCLUDED



Beacon Minor II Spot

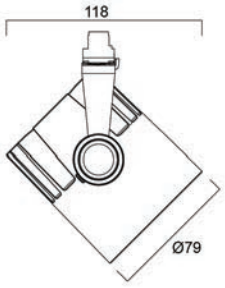
Code	Description	Colour
Beacon Minor II - 80 CRI - 3,000K		
2059860	BEACON MINOR II 3K SPT L1 WHT	White
2059861	BEACON MINOR II 3K SPT L1 BLK	Black
2059868	BEACON MINOR II 3K SPT L3 WHT	White
2059869	BEACON MINOR II 3K SPT L3 BLK	Black
Beacon Minor II - 80 CRI - 4,000K		
2059862	BEACON MINOR II 4K SPT L1 WHT	White
2059863	BEACON MINOR II 4K SPT L1 BLK	Black
2059870	BEACON MINOR II 4K SPT L3 WHT	White
2059871	BEACON MINOR II 4K SPT L3 BLK	Black

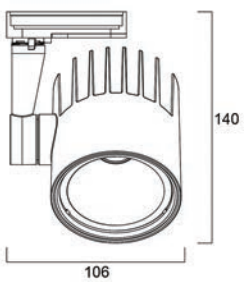
L1 = Single Circuit Track; L3 = Three Circuit Track



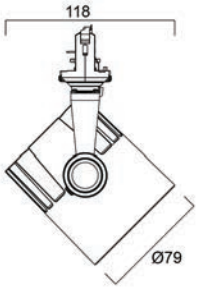
Beacon Minor II - Spot

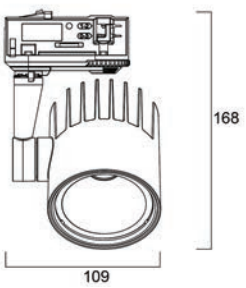
Single Circuit (L1)





Three Circuit (L3)





Dimensions (mm)

Flood L3 Track

Flood L3 Track

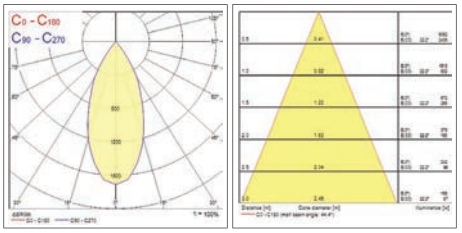
- Beacon Mains II is a compact mains voltage LED spotlight family ideal for retail and shop lighting applications
- Using the latest generation AC LED means no visible driver box and a smaller head for a cleaner look-and-feel
- 44 deg Flood versions 886lm, 89lm/W
- Colour Rendering index >80
- Phase dimmable (see list of compatible dimmers)
- For mounting on 1-circuit track (Lytespan 1) or 3-circuit track (Lytespan 3)
- Available in 3000K or 4000K colour temperatures
- Monopoint accessory available for surface mounting
- IR/UV free light source without heat radiation
- Long lifetime: 50,000 hours life at L70B50

LIGHT SOURCE INCLUDED

Beacon Minor Flood

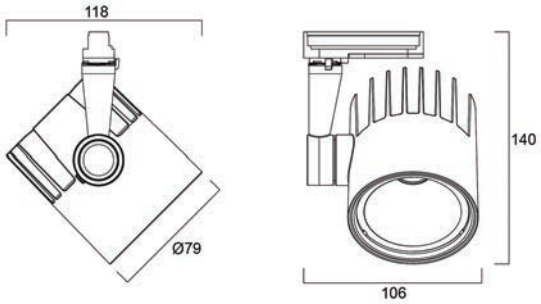
Code	Description	Colour
Beacon Minor Flood - 80 CRI - 3,000K		
2059864	BEACON MINOR II 3K FLD L1 WHT	White
2059865	BEACON MINOR II 3K FLD L1 BLK	Black
2059872	BEACON MINOR II 3K FLD L3 WHT	White
2059873	BEACON MINOR II 3K FLD L3 BLK	Black
Beacon Minor Flood - 80 CRI - 4,000K		
2059866	BEACON MINOR II 4K FLD L1 WHT	White
2059867	BEACON MINOR II 4K FLD L1 BLK	Black
2059874	BEACON MINOR II 4K FLD L3 WHT	White
2059875	BEACON MINOR II 4K FLD L3 BLK	Black

L1 = Single Circuit Track; L3 = Three Circuit Track

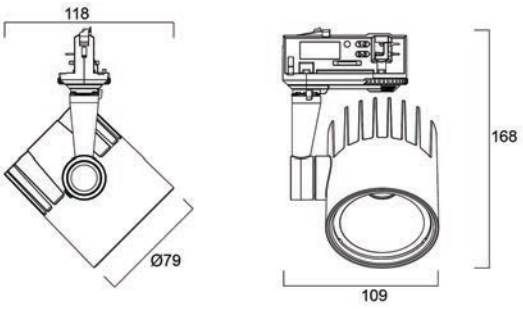


Beacon Minor II - Flood

Single Circuit (L1)



Three Circuit (L3)



Dimensions (mm)

Beacon Major II - Spot

L1/L3 Track - Spot White

L1/L3 Track - Spot White

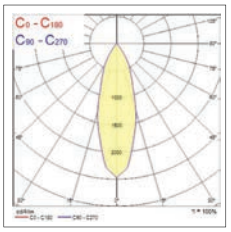
- Beacon Mains II is a compact mains voltage LED spotlight family ideal for retail and shop lighting applications
- Using the latest generation AC LED means no visible driver box and a smaller head for a cleaner look-and-feel
- 25 deg Spot versions 1,716lm, 90lm/W
- Colour Rendering index >80
- Phase dimmable (see list of compatible dimmers)
- For mounting on 1-circuit track (Lytespan 1) or 3-circuit track (Lytespan 3)
- Available in 3,000K or 4,000K colour temperatures
- Monopoint accessory available for surface mounting
- IR/UV free light source without heat radiation
- Long lifetime: 50,000 hours life at L70B50

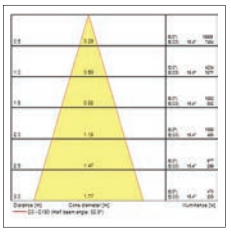
LIGHT SOURCE INCLUDED

Beacon Major II - 80 CRI - Spot

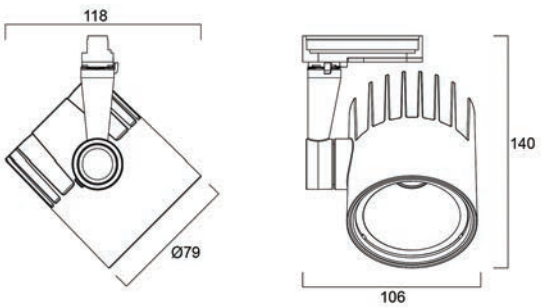
Code	Description	Colour
Beacon Major II - 80 CRI - 3,000K		
2059876	BEACON MAJOR II 3K SPT L1 WHT	White
2059877	BEACON MAJOR II 3K SPT L1 BLK	Black
2059884	BEACON MAJOR II 3K SPT L3 WHT	White
2059885	BEACON MAJOR II 3K SPT L3 BLK	Black
Beacon Major II - 80 CRI - 4,000K		
2059878	BEACON MAJOR II 4K SPT L1 WHT	White
2059879	BEACON MAJOR II 4K SPT L1 BLK	Black
2059886	BEACON MAJOR II 4K SPT L3 WHT	White
2059887	BEACON MAJOR II 4K SPT L3 BLK	Black

L1 = Single Circuit Track; L3 = Three Circuit Track

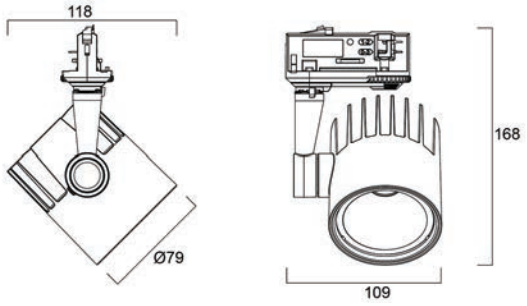




Single Circuit (L1)



Three Circuit (L3)



Dimensions (mm)

L1/L3 Track - Flood White

L1/L3 Track - Flood White

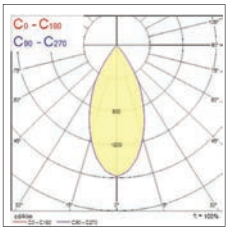
- Beacon Mains II is a compact mains voltage LED spotlight family ideal for retail and shop lighting applications
- Using the latest generation AC LED means no visible driver box and a smaller head for a cleaner look-and-feel
- 44 deg Flood versions 1,656lm, 87lm/W
- Colour Rendering index >80
- Phase dimmable (see list of compatible dimmers)
- For mounting on 1-circuit track (Lytespan 1) or 3-circuit track (Lytespan 3)
- Available in 3000K or 4000K colour temperatures
- Monopoint accessory available for surface mounting
- IR/UV free light source without heat radiation
- Long lifetime: 50,000 hours life at L70B50

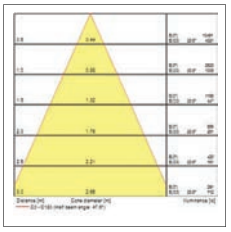
LIGHT SOURCE INCLUDED

Beacon Major II - Flood

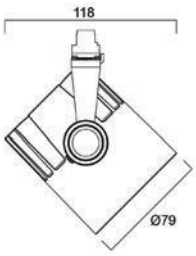
Code	Description	Body Colour
Beacon Major II - 80 CRI - 3,000K		
2059880	BEACON MAJOR II 3K FLD L1 WHT	White
2059881	BEACON MAJOR II 3K FLD L1 BLK	Black
2059888	BEACON MAJOR II 3K FLD L3 WHT	White
2059889	BEACON MAJOR II 3K FLD L3 BLK	Black
Beacon Major II - 80 CRI - 4,000K		
2059882	BEACON MAJOR II 4K FLD L1 WHT	White
2059883	BEACON MAJOR II 4K FLD L1 BLK	Black
2059890	BEACON MAJOR II 4K FLD L3 WHT	White
2059891	BEACON MAJOR II 4K FLD L3 BLK	Black

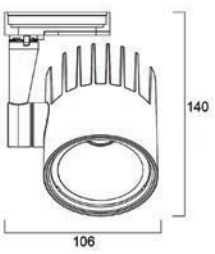
L1 = Single Circuit Track; L3 = Three Circuit Track



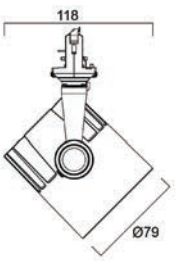


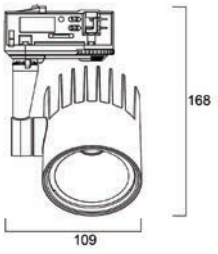
Single Circuit (L1)





Three Circuit (L3)





Dimensions (mm)

Accessories

Monopoint White

Monopoint Black

Accessories

Code	Description
3020010	MONOPOINT L3 WHITE
3020080	MONOPOINT L3 BLACK

Dimmer Compatibility												
Dimmer Manufacturer		Part Number	Type	Dimming Speed									
				min. ⅓ max. (slowly)					min. ⅓ max. (quickly)				
				min.	-	mid.	-	max.	min.	-	mid.	-	max.
No Visible Flicker	Berker	286710	Trailing Edge	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	Busch	2247U	Leading Edge	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	Goldstar Lonon	1308000077	Leading Edge	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	Goldstar Lonon	1380000188	Leading Edge	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	HE	NV-Halogenapen	Leading Edge	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	Siemens	5TG0200-1CC1	Leading Edge	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	Lonon	SHNB18012	Leading Edge	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	Lonon	1380000073	Leading Edge	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔

Zaraysk Kremlin Museum - Moscow, Russia

Compton Verney, Warwickshire, UK

Beacon Wallwash LED utilizes a specially adapted asymmetric lens to provide a high quality wallwashing effect within any given display environment be it museums & galleries or retail. Uniform ceiling to floor vertical illuminance of up to 3.5 metres in height at 4.5 metre spacings.

Beacon Wallwash LED

Beacon Wallwash - White

Beacon Wallwash - Black

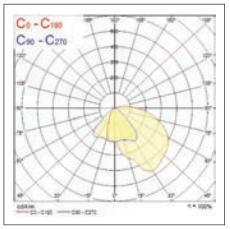
- Beacon Wallwash LED uses a specially adapted asymmetric lens to provide a punchy LED wallwash solution, upto 4,916lm
- Uniform ceiling to floor vertical illuminance up to 3.5m height at 4.5m spacings
- Ideal for museum and gallery applications
- High colour rendering index, Ra 95 typical or 85 (High output version) typical
- Available in 3000K or 4000K colour temperatures
- Non dimmable, On-board dimming and DALI versions available
- For mounting on 3-circuit track (Lytespan 3)
- White or Black paint finishes as standard. Silver available on request
- IR/UV free light source without heat radiation
- Long lifetime: 50,000 hours life at 70% of the original output (L70)

LIGHT SOURCE INCLUDED

IP20 IK02 90° 355° 0.8m LED

3,000K

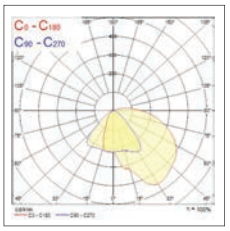
Code	Description	Colour
2059065	BEACON WW LED 3K L3 BLK	Black
2059066	BEACON WW LED 3K L3 WHT	White
2059067	BEACON WW LED O/B DIM 3K L3 BLK	Black
2059068	BEACON WW LED O/B DIM 3K L3 WHT	White
2059073	BEACON WW LED DALI 3K L3 BLK	Black
2059074	BEACON WW LED DALI 3K L3 WHT	White



3,000K

4,000K

Code	Description	Colour
2059080	BEACON WW LED 4K L3 BLK	Black
2059081	BEACON WW LED 4K L3 WHT	White
2059087	BEACON WW LED O/B DIM 4K L3 BLK	Black
2059088	BEACON WW LED O/B DIM 4K L3 WHT	White
2059094	BEACON WW LED DALI 4K L3 BLK	Black
2059095	BEACON WW LED DALI 4K L3 WHT	White



4,000K

3,000K - High Output

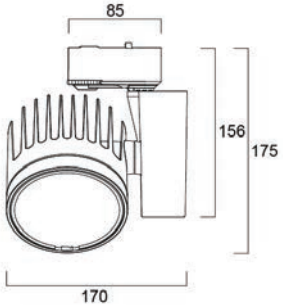
Code	Description	Colour
2059101	BEACON WW LED HO 3K L3 BLK	Black
2059102	BEACON WW LED HO 3K L3 WHT	White

4,000K - High Output

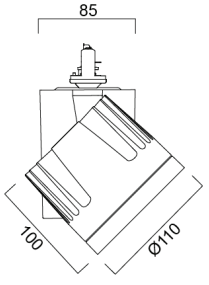
Code	Description	Colour
2059108	BEACON WW LED HO 4K L3 BLK	Black
2059109	BEACON WW LED HO 4K L3 WHT	White

Legend: WW=WallWash; HO = High Output; O/B DIM = On-Board DIMming; L3 = Lytespan 3; WHT = WHiTe; BLK = BLacK

Beacon Wallwash (front view)



Beacon Wallwash (side view)



Dimensions (mm)

Discovery Museum, , UK

Leeds Art Gallery, U.K.

TRACK

Concord

147 Lytespan 1

151 Lytespan 1 Low Profile

155 Lytespan 3

161 Lytebeam

165 Universal Suspensions

168 Lytespan 3 LED Emergency

169 Lytebeam LED emergency

Strellson - Moscow, Russia

Construction: Extruded aluminium profile.
PVC liner housing 2 copper conductors

Total Max Load: 240 (230) VAC supply
3840w (3680w)
Single fuse rated at 16amps
Supply cable 3 x 1.5mm²

Finish: Smooth polyester powder paint finish, white RAL 9016, silver RAL 9006 or black RAL 9005

- Polarised 16amp single circuit track system with two conductors
- Suitable for use with Concord single circuit adaptor types
- Choice of formats including low profile
- Universal feeds and couplers with polarisation determined during installation with polarisation tab
- Unique Push-up feed allows power to be fed on or off anywhere along the length of track
- Can be cut on site
- Broad range of universal suspensions
- Polarised and fully earthed to latest international standards

Single Circuit Track Systems

Starter Track Kit

Joiner Track Kit

Starter Track Kit

- Ideal for surface mounted runs
- Single length or to start a run
- Supplied with Track Unit, Plug-in Live End, End Caps and Surface Mount Clips

Joiner Track Kit

- Ideal for surface mounted runs
- Extends Starter Track to create straight runs
- Supplied with Track Unit, Plug-in Live Coupler and Surface Mount Clips

Starter Track Kit

Code	Length (m)	Weight (kg)	Colour
2036010	1	0.57	White
2036011	2	1.09	White
2036012	3	1.61	White
2046525	1	0.57	Black
2046526	2	1.09	Black
2046527	3	1.61	Black

Joiner Track Kit/Adjustable Coupler

Code	Length (m)	Weight (kg)	Colour
2036013	2	1.06	White
2036014	3	1.58	White
2046528	2	0.57	Black
2046529	3	1.09	Black

Standard Track Unit

Recessed Track Unit

Standard Track Unit

- For single or continuous runs, bends and grids
- Ideal for surface mounting or suspension
- Order components and accessories separately

Recessed Track Unit

- For single or continuous straight runs
- Ideal for suspended ceilings
- Order components and accessories separately

1. Standard Track Unit

Code	Length (m)	Weight (kg)	Colour
2036015	1	0.52	White
2036016	2	1.04	White
2036017	3	1.56	White
2036018	1	0.52	Black
2036020	2	1.04	Black
2036021	3	1.56	Black
2046531	1	0.52	Silver
2046532	2	1.04	Silver
2046533	3	1.56	Silver

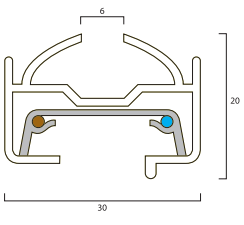
1. Recessed Track Unit

Code	Length (m)	Weight (kg)	Colour
2036022	1	0.67	White
2036023	2	1.19	White
2036024	3	1.71	White

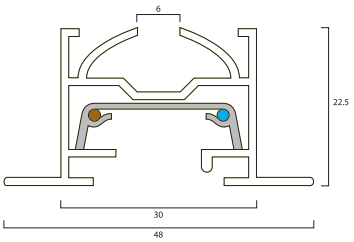
Basic components required for a track scheme:
1. Track Unit
2. Live Feed: Feeds power onto track
3. Coupler: Only required if creating runs
4. End Cap: Safely terminates track ends
5. Suspensions: Safely and securely mounts track

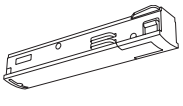
Optional Accessories

Standard

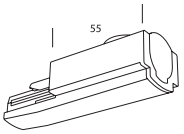


Recessed

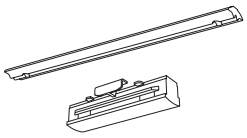




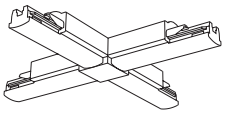
Push-up Live Feed



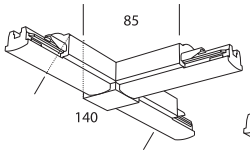
Plug-in Live Feed



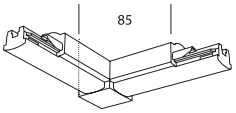
Straight Plug-in Coupler



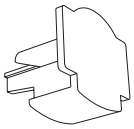
X Coupler



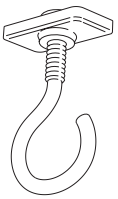
T Coupler



L Coupler



End Cap



Display Hook

2. Live Feeds

Code	Description	Finish	Top
2011305	Push-up Live Feed Feeds power on or off anywhere along length of track	Recessed & Standard Track White	Universal
2011348	Plug-in Live Feed Feeds power on or off at end of track	Standard Track White	Universal
2011833	Push-up Live Feed Feeds power on or off anywhere along length of track	Standard Track Black	Universal
2011285	Plug-in Live Feed Feeds power on or off at end of track	Standard Track Black	Universal

3. Couplers

Code	Description	Finish	Top
2011303	Straight Plug-in Coupler Connects tracks mech/elec to create straight runs	Standard Track White	Mech/Elec
2011379	L Coupler Couplers supplied with wires.* Polarisation determined on site	Standard Track White	Mech/Elec
2011381	T Coupler Couplers supplied with wires.* Polarisation determined on site	Standard Track White	Mech/Elec
2011383	X Coupler Couplers supplied with wires.* Polarisation determined on site	Standard Track White	Mech/Elec
2036027	Flexible Coupler Closes to a minimum of 45º horizontally	Standard Track White	Mech/Elec
2011303	Straight Plug-in Coupler Connects tracks mech/elec to create straight runs	Recessed Track White	Mech/Elec
2011835	Straight Plug-in Coupler Connects tracks mech/elec to create straight runs	Standard Track Black	Mech/Elec
2011297	L Coupler Couplers supplied with wires.* Polarisation determined on site	Standard Track Black	Mech/Elec
2011299	T Coupler Couplers supplied with wires.* Polarisation determined on site	Standard Track Black	Mech/Elec
2036028	Flexible Coupler Closes to a minimum of 45deg horizontally	Standard Track Black	Mech/Elec
2046535	L Couplers supplied with wires* Polarisation determined on site	Standard Track Silver	Mech/Elec
2046536	T Couplers supplied with wires* Polarisation determined on site	Standard Track Silver	Mech/Elec
2046539	Flexible Coupler Closes to a minimum of 45deg horizontally	Standard Track Silver	Mech/Elec

All couplers can easily be converted to mechanical only couplers.
** Can be used to feed power on/off of track once internal wires are removed*

4. Track or Starter Track

See previous page for model numbers

5. End Cap

Code	Description	Finish
2011345	End Cap Must be used to safely terminate track ends	Recessed & Standard Track White
2011283	End Cap Must be used to safely terminate track ends	Standard Track Black
2046538	End Cap Must be used to safely terminate track ends	Standard Silver

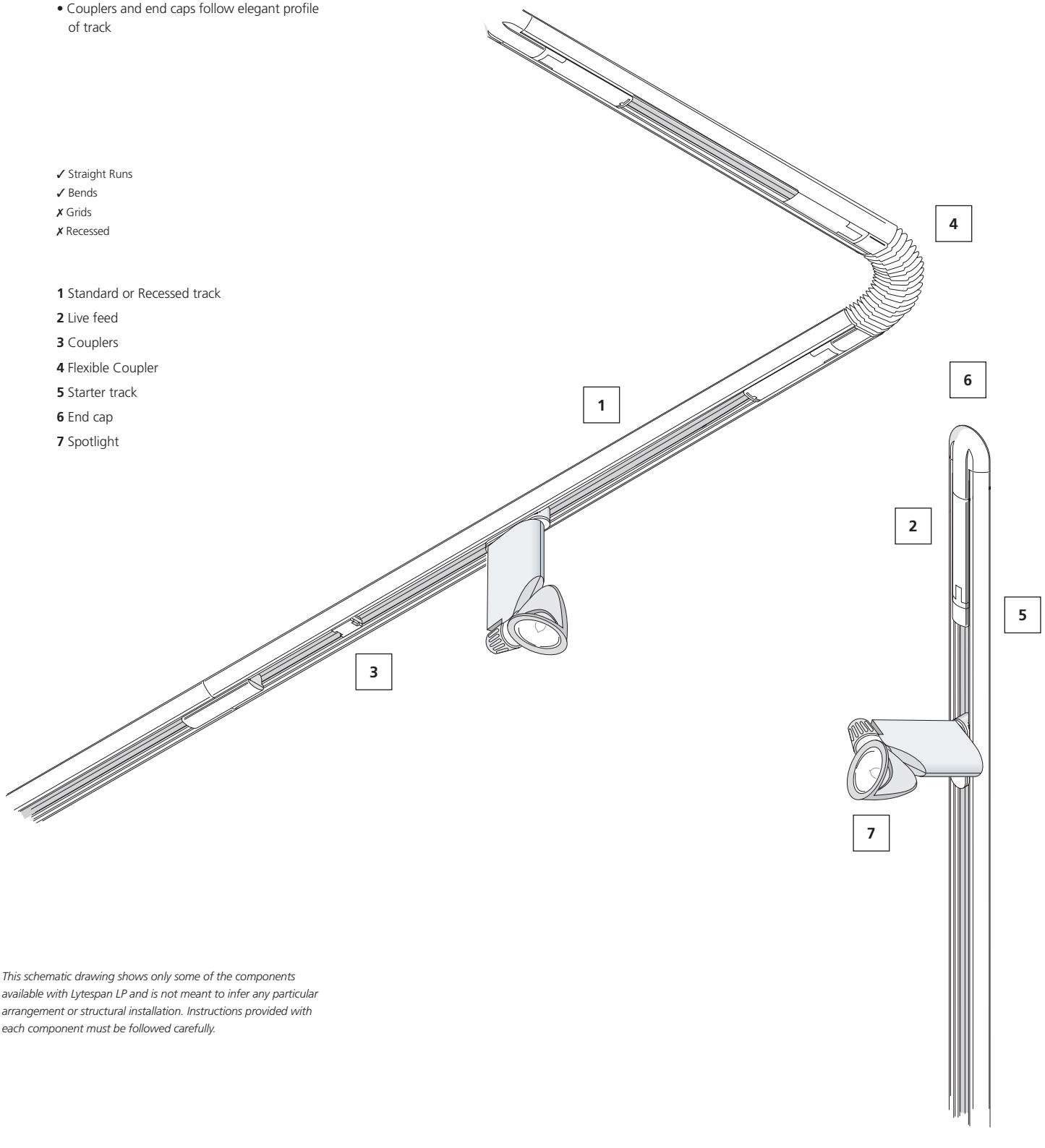
Accessories

Code	Description	Finish	Weight (kg)
2007631	Display Hook Suspends signs, cords etc	Standard/Recessed Track White	Max Load 5.00

- Slim, broad based, low profile for surface mounting, onto walls, ceilings or floors
- Track kits consisting of starter or joiner tracks with all the components needed for single or continuous straight runs
- Flexible coupler for bends
- Supplied with screws for surface mounting. Option of concealed method or through fixing using caps and covers supplied
- Couplers and end caps follow elegant profile of track

✓ Straight Runs
✓ Bends
✗ Grids
✗ Recessed

1 Standard or Recessed track
2 Live feed
3 Couplers
4 Flexible Coupler
5 Starter track
6 End cap
7 Spotlight



This schematic drawing shows only some of the components available with Lytespan LP and is not meant to infer any particular arrangement or structural installation. Instructions provided with each component must be followed carefully.

Starter Track Kit

Joiner Track Kit

Starter Track Kit

- Ideal for surface mounted runs
- Single length or to start a run
- Supplied with Track Unit, Push-up Live Feed, End Caps and Mounting Screws and Screw Cap Covers

Joiner Track Kit

- Ideal for surface mounted runs
- Extends Starter Track to create straight runs.
- Supplied with Track Unit, Plug-in Live Coupler and Screws and Screw Cap Covers

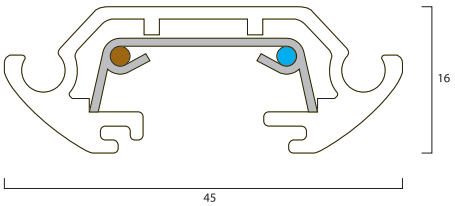
Starter Track Kit

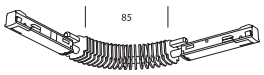
Code	Length (m)	Weight (kg)	Colour
2019502	1	0.60	White
2019503	2	1.20	White
2019504	3	1.80	White
2025709	1	0.60	Silver
2025710	2	1.20	Silver
2025711	3	1.80	Silver
2046525	1	0.60	Black
2046526	2	1.20	Black
2046527	3	1.80	Black

Joiner Track Kit

Code	Length (m)	Weight (kg)	Colour
2019505	2	1.20	White
2019506	3	1.80	White
2025712	2	1.20	Silver
2025713	3	1.80	Silver
2046528	2	1.20	Black
2046529	3	1.80	Black

Standard LP



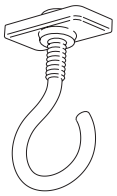


Flexible Coupler

Couplers

Code	Description	Colour
2025994	Flexible Coupler*	Mech/Elec White
2025995	Flexible Coupler*	Mech/Elec Silver
2046530	Flexible Coupler*	Mech/Elec Black

Flexible Coupler Closes to a minimum of 45° horizontally Can easily be converted to mechanical only



Display Hook

Accessories

Code	Description	Weight (kg)	Colour
2007631	Display Hook Suspends signs, cords etc	Max load 5.00	White

Concealed Fixing Starter track

(Single run only) Fixing screw supplied

- Slide PVC Conductor Strip from aluminium extrusion
- Slotted screw keyholes are revealed
- The extrusion can be used as a template
- Screws can be installed at the predetermined centres
- The track can then be offered up and the screws tightened
- PVC conductor strip can then be returned to the extrusion

Through Fixing Starter and Joiner track

(Continuous runs) Fixing screws and screw caps supplied

- Screw caps push into the track at determined distances
- Screw caps can be used as a drilling guide
- When track section is firmly fixed, screw cap covers are pushed on to conceal the screw heads.

Safety! Screw caps must be used

Design Museum - UK

Construction: Extruded aluminium profile
PVC liner housing 4 copper conductors

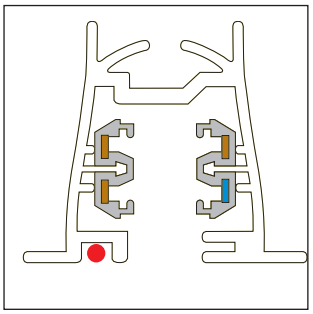
Total Max Load: 240 (230) VAC supply
3840w (3680w) ÷ 3
Single fuse rated at 16amps
Supply cable 5 x 1.5mm2
415 (400) VAC supply*
3840w (3680w) x 3
Each circuit separately fused at 16amps
Supply cable 5 x 2.5mm2
* 3 phase track connection not allowed in the UK For other countries please check local wiring regulations

Finish: Smooth polyester powder paint finish white RAL 9016, silver RAL 9006 or black RAL 9005

- Polarised 16amp three circuit track system with a common neutral
- Suitable for use with Concord, Lumiance and other European three circuit adaptors
- Each of the three circuits can be independently dimmed
- Unique Lytespan 3 'venturi' trunk profile in standard or recessed form
- Lytebeam deep trunk profile with empty back channel for cable way, T5 or Lytespan 3 module
- Couplers and feeds are pre-wired and polarised for ease of installation.
- Broad range of universal suspensions
- Polarised and fully earthed to latest international standards

* When dimming – Other circuits cannot contain non-dimmable luminaires such as metal halide

Three Circuit Track System



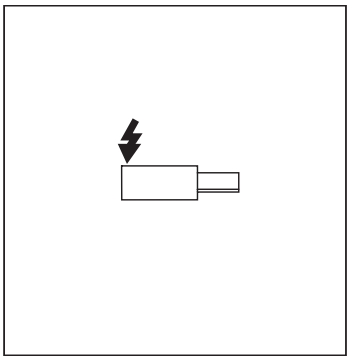
Polarisation Channel

Planning Aid

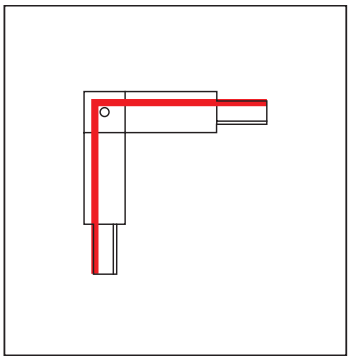
- Lytespan 3 track features a polarisation channel running along one side of its entire length. (See opposite)
- All Lytespan 3 feeds and couplers except Live Ends are supplied pre-polarised, with wires for ease of installation
- When planning a scheme it is important that:

– The polarisation channel is continuous around corners and grids

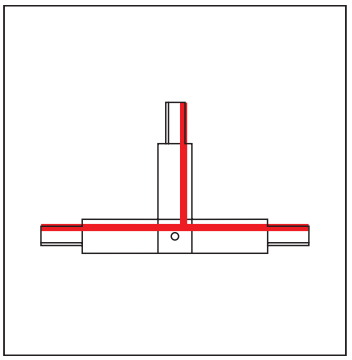
– The layout shows the correct view from above



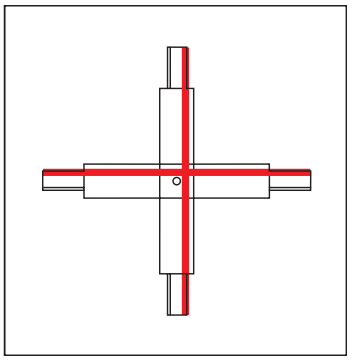
Plug-in live End
UNIVERSAL
Polarity tab indicates correct way to wire



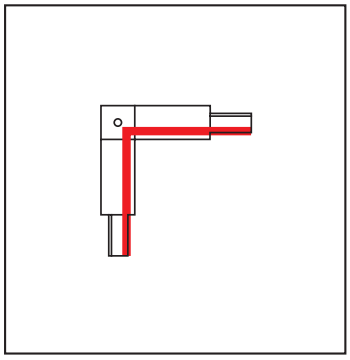
L Coupler
OUTSIDE



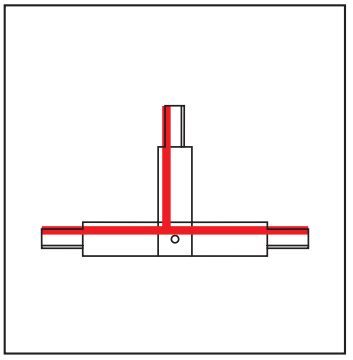
T Coupler
RIGHT



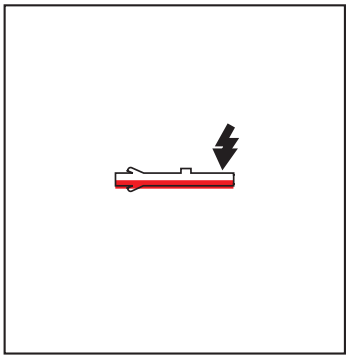
X Coupler
UNIVERSAL



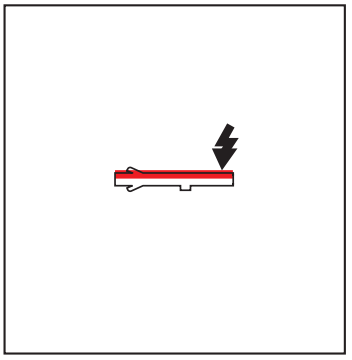
L Coupler
INSIDE



T Coupler
LEFT

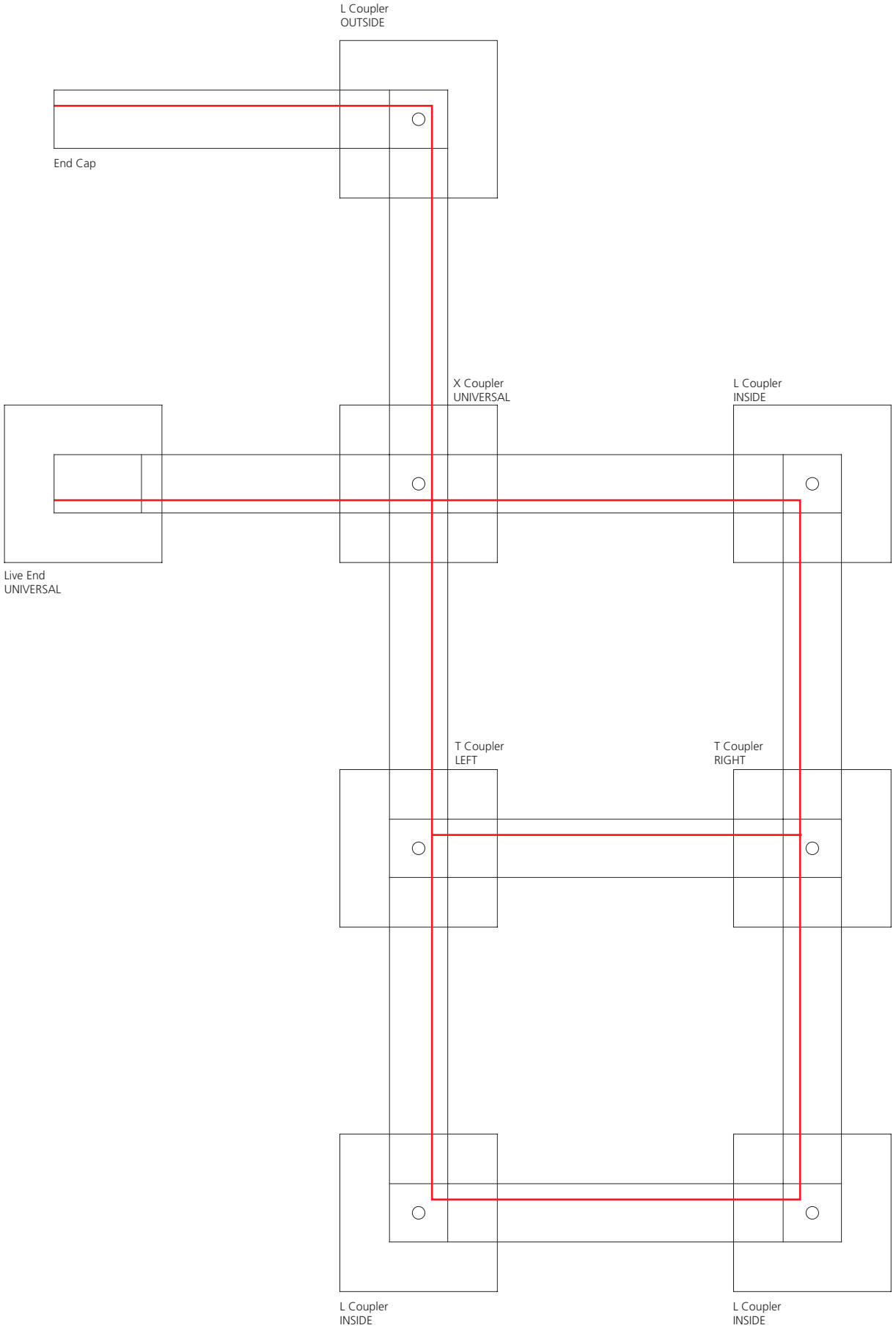


Push-up Feed
LEFT



Push-up Feed
RIGHT

Planning from above



Starter Track Kit

Starter Track Kit

- Ideal for surface mounted runs
- Single length or to start a run
- Supplied with Track Unit, Push-up Live Feed, End Caps and Surface Mount Clips

Joiner Track Kit

- Ideal for surface mounted runs
- Extends Starter Track to create straight runs
- Supplied with Track Unit, Plug-in Live Coupler and Surface Mount Clips

Starter Track Kit

Code	Description	Weight (Kg)	Colour
L3 Starter Track White			
2030732	L3 Starter Track 1M	0.925	White
2030733	L3 Starter Track 2M	1.85	White
2030734	L3 Starter Track 3M	2.75	White
L3 Starter Track Silver			
2057410	L3 Starter Track 1M	0.925	Silver
2057411	L3 Starter Track 2M	1.85	Silver
2057412	L3 Starter Track 3M	2.75	Silver

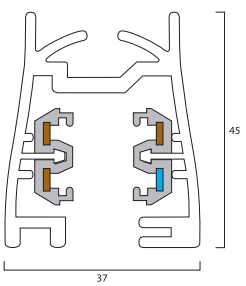
Joiner Track Kit

Joiner Track Kit

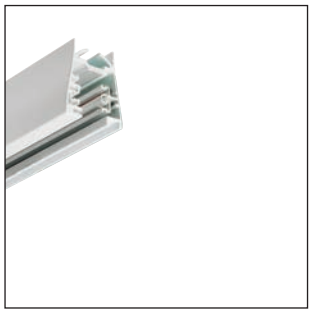
Code	Length (m)	Weight (kg)	Colour
2030736	3	2.90	White

Emergency lighting
solutions for track mounting

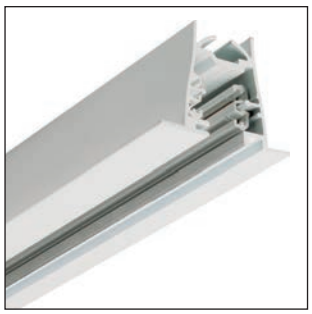
Standard



Dimensions (mm)



Standard Track Unit



Recessed Track Unit

Standard Track Unit

- For single or continuous runs and grids
- Ideal for surface mounting or suspension
- Order components and accessories separately

Recessed Track Unit

- For single or continuous runs
- Ideal for suspended ceilings
- Order components and accessories separately

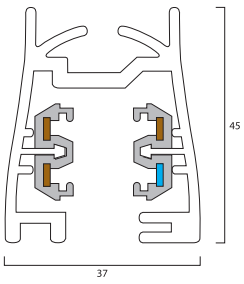
1. Standard Track Unit

Code	Length (m)	Weight (kg)	Colour
2020760	1	0.90	White
2020762	2	1.80	White
2020751	3	2.70	White
2020761	1	0.90	Silver
2020763	2	1.80	Silver
2020759	3	2.70	Silver
2025500	1	0.90	Black
2025501	2	1.80	Black
2025502	3	2.70	Black

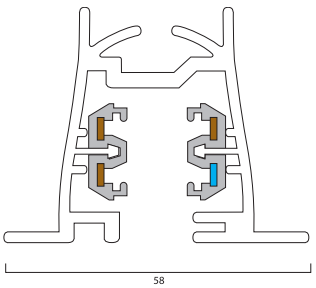
1. Recessed Track Unit

Code	Length (m)	Weight (kg)	Colour
2020718	2	1.95	White
2020719	3	2.85	White

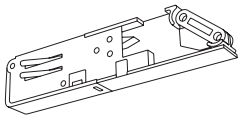
Standard



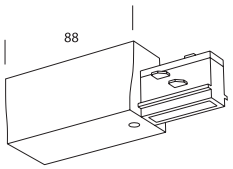
Recessed



Dimensions (mm)



Push-up Live Feed



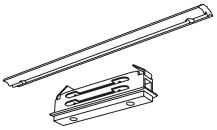
Plug-in Live Feed

2. Live Feeds

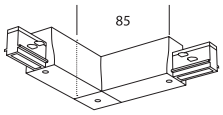
Code	Description	Finish	Type
2027546	Push-Up Live Feed	White	Left
2027549	Push-Up Live Feed	White	Right
2020790	Plug-In Live	White	Universal
2020799	Live Feed	Black	Recessed
2027547	Push-Up Live Feed	Silver	Right
2027550	Push-Up Live Feed	Silver	Left
2021318	Plug-In Live Feed	Silver	Universal
2027548	Push-Up Live Feed	Black	Left
2027551	Push-Up Live Feed	Black	Right
2025507	Plug-In Live Feed	Black	Universal

2. DALI Live Feeds

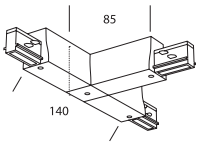
Code	Description	Finish	Type
2051485	Push-Up Live Feed	White	Right
2051488	Push-Up Live Feed	White	Left
2051486	Push-Up Live Feed	Silver	Right
2051489	Push-Up Live Feed	Silver	Left
2051487	Push-Up Live Feed	Black	Right
2051490	Push-Up Live Feed	Black	Left



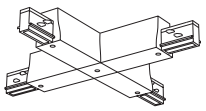
Straight Plug-in Coupler



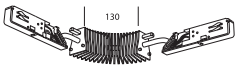
L Coupler



T Coupler



X Coupler



Flexible Coupler

3. Couplers

Code	Description	Finish	Type
2020797	Straight Plug-in Coupler	White	Mech/Elec
2020792	L Coupler*	White	Inside
2020793	L Coupler*	White	Outside
2020795	T Coupler*	White	Left
2020796	T Coupler*	White	Right
2020794	X Coupler*	White	Universal
2020798	Flexible Coupler	White	Mech/Elec
2027542	Straight Plug-in Coupler	Silver	Mech/Elec
2021315	L Coupler*	Silver	Inside
2021314	L Coupler*	Silver	Outside
2021310	Flexible Coupler	Silver	Mech/Elec
2025508	Straight Plug-in Coupler	Black	Mech/Elec
2025511	L Coupler*	Black	Inside
2025512	L Coupler*	Black	Outside
2025514	T Coupler*	Black	Left
2025513	T Coupler*	Black	Right
2025515	X Coupler*	Black	Universal
2025516	Flexible Coupler	Black	Mech/Elec

Wires can be removed to create mechanical only connections. Once wires are removed couplers can be used to feed power on/off of track

3. DALI Couplers

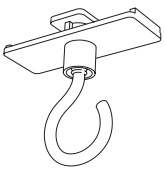
Code	Description	Finish	Type
2020797	Straight Plug-in Coupler	White	Mech/Elec
2051497	L Coupler*	White	Inside
2051500	L Coupler*	White	Outside
2051494	T Coupler*	White	Left
2051491	T Coupler*	White	Right
2051503	X Coupler*	White	Universal
2051506	Flexible Coupler	White	Mech/Elec
2027542	Straight Plug-in Coupler	Silver	Mech/Elec
2501498	L Coupler*	Silver	Inside
2501501	L Coupler*	Silver	Outside
2051507	Flexible Coupler	Silver	Mech/Elec
2025508	Straight Plug-in Coupler	Black	Mech/Elec
2051499	L Coupler*	Black	Inside
2051502	L Coupler*	Black	Outside
2051496	T Coupler*	Black	Left
2051493	T Coupler*	Black	Right
2051505	X Coupler*	Black	Universal
2051508	Flexible Coupler	Black	Mech/Elec

Wires can be removed to create mechanical only connections. Once wires are removed couplers can be used to feed power on/off of track

End Cap

4. End Cap

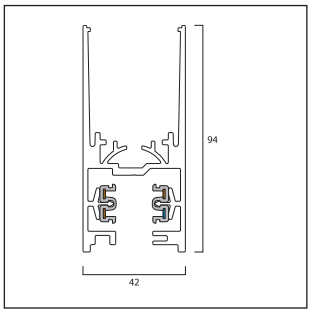
Code	Description	Finish
2020789	Must be used to safely terminate track ends	White
2021317	Must be used to safely terminate track ends	Silver
2025517	Must be used to safely terminate track ends	Black



Display Hook

5. Accessories

Code	Description	Weight (kg)	Finish
2025697	Suspends signs, cords etc.	Max load 5.00	White

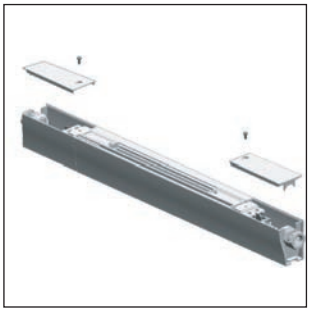


Standard Lytebeam Unit

1. Standard Lytebeam Unit

Code	Length (m)	Weight (kg)	Colour
2037837	2	5.00	White
2037838	3	7.50	White
2037841	2	5.00	Silver
2037842	3	7.50	Silver

1. Empty Back Channel for Cable Way

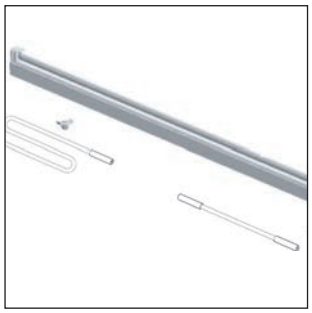


Indirect L3 track module

1a. Indirect L3 track module

Code	Length (m)	Colour
2037845	1.180	White

1a. L3 Track for Indirect Accent



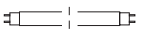
Standard Lytebeam Unit

1b. Indirect T5 batten module

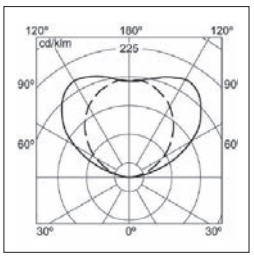
Code	Length (m)	Lamp Type
9137867	1.186	28W T5

* LED versions using LED Pipe with LED Pipe mounting boss 2691855 available as a variant upon request

1b. T5 Fluorescent Modules for Indirect Ambient

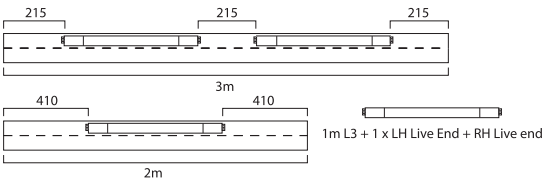


Luxline Plus T5 FHE T16
28W G5 2640lm

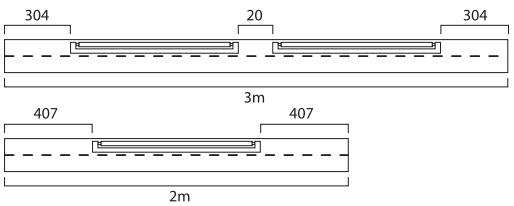


DLOR = 0.62

Lytebeam Indirect L3 Modules – suggested spacings



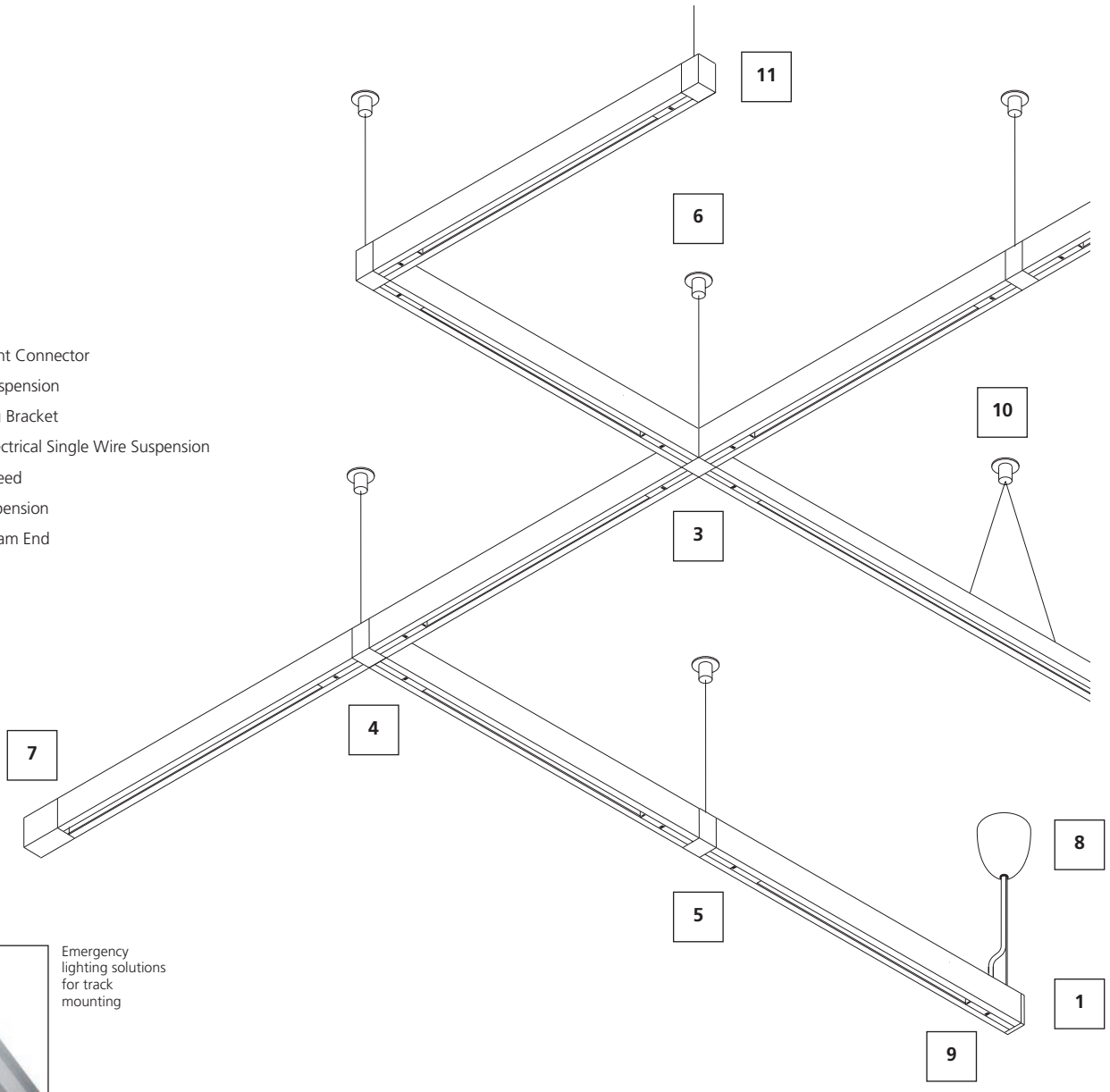
Lytebeam Indirect T5 Modules – suggested spacings



Concord DALI Track Adaptor

- Architectural three circuit and DALI deep beam section
- Indirect ambient lighting using T5 batten accessory
- Indirect accent lighting using L3 Track assembly
- Wide selection of suspension options, wires, rods and wall brackets
- Rigid section provides maximum suspension spacing of up to 4m
- Rear beam section may be used to carry other electrical services
- Wall brackets allow for wall to wall installation, maximum spacing 4m (longer with suspensions)
- Individual section, continuous runs and complex grids
- LED Emergency modules
- Straight Runs
- Grids
- Bends

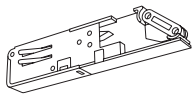
1 End Cap
2 'L' Outside
3 'X'
4 'T' Right
5 'I' Inline Straight Connector
6 Single Wire Suspension
7 Wall Mounting Bracket
8 Mechanical/Electrical Single Wire Suspension
9 Push-up Live Feed
10 Twin Wire Suspension
11 Suspension Beam End



Emergency lighting solutions for track mounting

Basic components required for a track scheme:

1. Track Unit
1a. Indirect L3 track module
1b. Indirect T5 batten module
2 Live Feed: Feeds power onto track
3. Coupler: Only required if creating runs
4. End Cap: Safely terminates track ends
5. Suspensions: Safely and securely mounts track
6. Optional Accessories



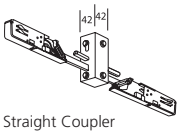
Push-up Live Feed

2. Live Feeds

Code	Description	Colour	Type
2027546	Push-Up Live Feed Feeds power on or off anywhere along length of track	White	Left
2027549	Push-Up Live Feed Feeds power on or off anywhere along length of track	White	Right
2027547	Push-Up Live Feed Feeds power on or off anywhere along length of track	Silver	Left
2027550	Push-Up Live Feed Feeds power on or off anywhere along length of track	Silver	Right

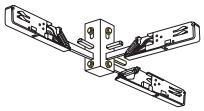
2. DALI Live Feeds

Code	Description	Colour	Type
2051488	Push-Up Live Feed Feeds power on or off anywhere along length of track	White	Left
2051485	Push-Up Live Feed Feeds power on or off anywhere along length of track	White	Right
2051489	Push-Up Live Feed Feeds power on or off anywhere along length of track	Silver	Left
2051486	Push-Up Live Feed Feeds power on or off anywhere along length of track	Silver	Right

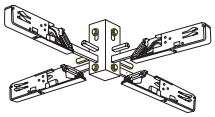


I – Straight Coupler

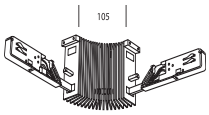
L – Coupler Inside/outside (converts)



T – Left Hand and Right Hand



X – Universal



Flexible Coupler – Universal

3. Couplers

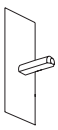
Code	Description	Colour	Type
2037853	I Straight Coupler Connects tracks to create straight runs	White	Mech/Elec
2037854	L Coupler Polarised couplers supplied pre-wired for ease of installation*	White	Inside/Outside
2037855	T Coupler Polarised couplers supplied pre-wired for ease of installation*	White	Left
2037856	T Coupler Polarised couplers supplied pre-wired for ease of installation*	White	Right
2037858	I Straight Coupler Connects tracks to create straight runs	Silver	Mech/Elec
2037860	L Coupler Polarised couplers supplied pre-wired for ease of installation*	Silver	Inside/Outside

** Wires can be removed to create mechanical only connections. Once wires are removed couplers can be used to feed power on/off of track*

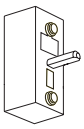
3. DALI Couplers

Code	Description	Colour	Type
2051521	I Straight Coupler Connects tracks to create straight runs	White	Mech/Elec
2051527	L Coupler Polarised couplers supplied pre-wired for ease of installation*	White	Inside/Outside
2051524	T Coupler Polarised couplers supplied pre-wired for ease of installation*	White	Left
2051522	I Straight Coupler Connects tracks to create straight runs	Silver	Mech/Elec
2051528	L Coupler Polarised couplers supplied pre-wired for ease of installation*	Silver	Inside/Outside

** Wires can be removed to create mechanical only connections. Once wires are removed couplers can be used to feed power on/off of track*



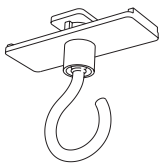
End Cap



Beam End

4. End Cap

Code	Description	Colour
2037848	End Cap must be used to safely terminate track ends	White
2037851	Beam End must be used to safely terminate track ends and provides suspension points	White
2037850	End Cap must be used to safely terminate track ends	Silver
2037852	Beam End must be used to safely terminate track ends and provides suspension points	Silver



Display Hook

5. Accessories

Code	Description	Colour	Max Load (kg)
2025697	Display Hook Suspends signs, cords etc	White	5.00

Compton Verney, U.K.

- Rod and Floating suspensions provide rigid fixing up to 1m straight down from ceiling. Required for uneven loads or areas exposed to air movement
- Adjustable 3m wire suspensions provide the flexibility to fix from any angle, ideal for sloping ceilings
- Longer lengths available as variants
- Clutch adjustment mechanism allows quick and easy installation and levelling. Excess wire can safely be removed
- Twin pivoting suspensions ideal for grids and corners
- Easy to wire mechanical and electrical rod and wire suspensions enable discrete mains supply
- Wall mounting brackets for wall to wall installations (Lytebeam only)

Universal Suspensions

Single, Three Circuit & DALI Track

Wire suspensions - chrome

Rod suspensions - white

Single/three circuit - white

- Rod and Floating suspensions provide rigid fixing up to 1m straight down from ceiling. Required for uneven loads or areas exposed to air movement
- Adjustable 3m wire suspensions provide the flexibility to fix from any angle, ideal for sloping ceilings Longer lengths available as variants
- Clutch adjustment mechanism allows quick and easy installation and levelling. Excess wire can safely be removed
- Twin pivoting suspensions ideal for grids and corners
- Easy to wire mechanical and electrical rod and wire suspensions enable discrete mains supply
- Wall mounting brackets for wall to wall installations (Lytebeam only)

Wire Suspensions

Code	Description	Length (m)	Max Load (kg)	Colour
2035031	Single Wire Suspension Length easily adjusted	3.00	20.00	Mech Only Chrome
2035016	Twin Wire Suspension Length easily adjusted	3.00	20.00	Mech Only Chrome
2035014	Single Wire Suspension Length easily adjusted	3.00	20.00	Single Circuit Elec/Mech White
2035017	Twin Wire Suspension Length easily adjusted	3.00	20.00	Single Circuit Elec/Mech White
2035015	Single Wire Suspension Length easily adjusted	3.00	20.00	Three Circuit Elec/Mech White
2035018	Twin Wire Suspension Length easily adjusted	3.00	20.00	Three Circuit Elec/Mech White

Rod Suspensions

Code	Description	Length (m)	Max Load (kg)	Colour
2035020	Rod Suspension Can be cut on site from ceiling only +/5mm levelling adjustment	0.50	-	Mech Only White
2035023	Rod Suspension Can be cut on site from ceiling only +/5mm levelling adjustment	1.00	25.00	Mech Only White
2035026	Rod Extension Screws onto Mechanical only rod suspensions Can not be cut on site. Max drop 3.00m +/5mm levelling adjustment	0.50	25.00	Mech Only White
2035024	Rod Suspension Can be cut on site from ceiling side only +/5mm levelling adjustment	1.00	25.00	Single Circuit Elec/Mech White
2035022	Rod Suspension Can be cut on site from ceiling side only +/5mm levelling adjustment	0.50	-	Three Circuit Elec/Mech White
2035025	Rod Suspension Can be cut on site from ceiling side only +/5mm levelling adjustment	1.00	25.00	Three Circuit Elec/Mech White

Recessed Mounting

Code	Description	Max Load (kg)	Type
2010997	Suspension Bracket For fixing recessed track into suspended ceilings	25.00	Steel

Surface Mounting (Not suitable for Lytebeam)

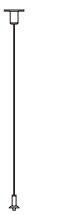
Code	Description	Length (m)	Max Load (kg)	Colour
2011999	Mount Clip, Clip screw onto fixing surface. Track snaps onto back, secured with allen key supplied	0.14	15.00	White
2011841	Mount Clip Clip screw onto fixing surface. Track snaps onto back, secured with allen key supplied	0.14	15.00	Black

Wall Mounting Bracket (For Lytebeam only)

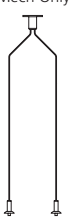
Code	Description	Max Load (kg)	Colour
2037846	Wall Mount Bracket	20.00	White
2037847	Wall Mount Bracket	20.00	Silver

** Length refers to distance from mounting surface to back of track*
Max spacing for all Single Circuit and Three Circuit Track systems 1.2m
Max spacing for Lytebeam 4m

Single Wire Suspension (Mech only)

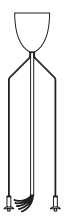


Twin Wire Suspension (Mech Only)



Single Wire Suspension (Mech/Elec)

Twin Wire Suspension (Mech/Elec)



- Rod and Floating suspensions provide rigid fixing up to 1m straight down from ceiling. Required for uneven loads or areas exposed to air movement
- Adjustable 3m wire suspensions provide the flexibility to fix from any angle, ideal for sloping ceilings Longer lengths available as variants
- Clutch adjustment mechanism allows quick and easy installation and levelling. Excess wire can safely be removed
- Twin pivoting suspensions ideal for grids and corners
- Easy to wire mechanical and electrical rod and wire suspensions enable discrete mains supply
- Wall mounting brackets for wall to wall installations (Lytebeam only)

Track Deflection Data

The data below gives an indication of the max distributed and point loads that can be taken before deflection of track will occur.

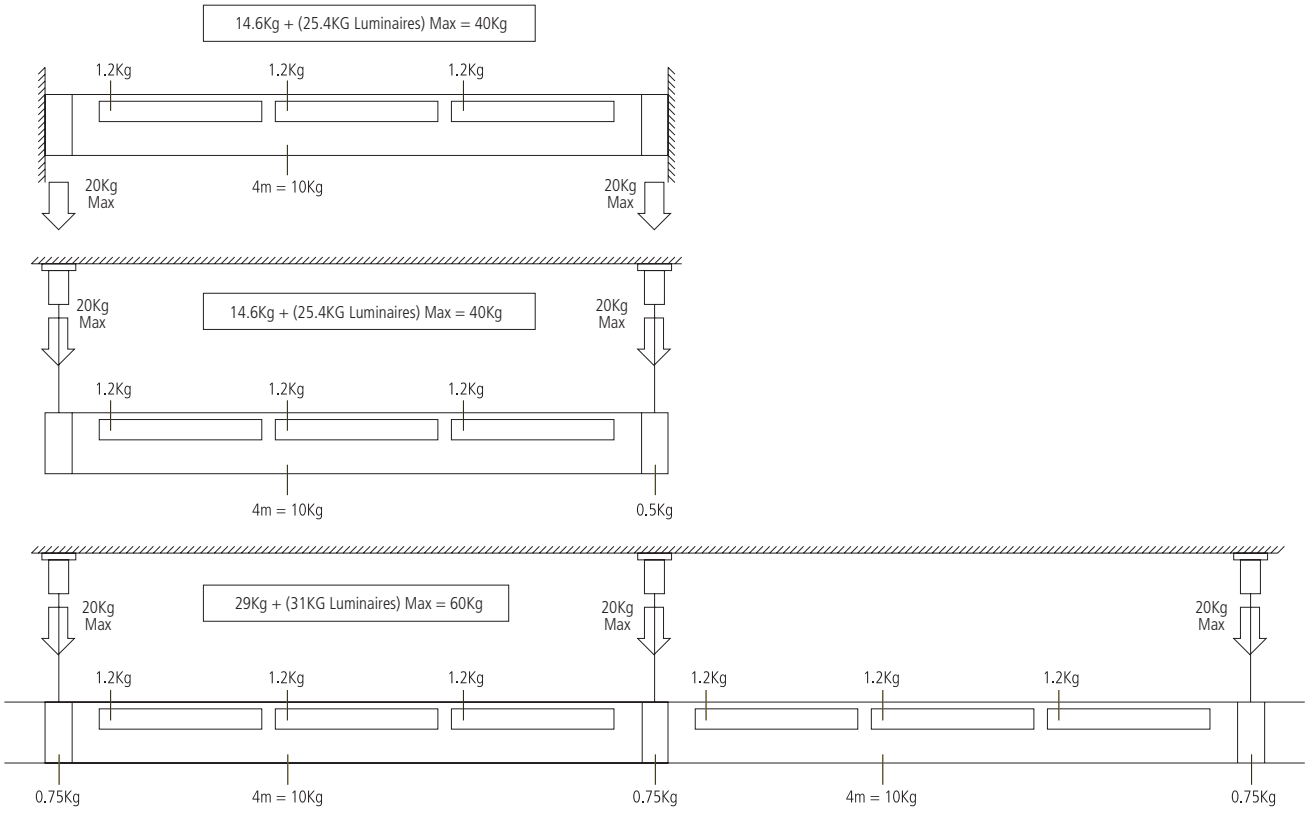
Do not exceed max load for individual suspensions.

Data is for max spacing or 1.2m

Lytebeam track deflection data and maximum load

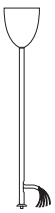
Max spacing for all Lytebeam suspensions 4m

Other Track Systems – Max spacing is 1.2m	Maximum Allowable Load	
Track System	Distributed	Point
Lytespan 1	7.40kg	4.60kg
Recessed Lytespan 1	21.60kg	13.50kg
Lytespan 3	32.00kg	20.00kg
Recessed Lytespan 3	46.00kg	28.50kg



Rod Extension (Mech only)

Rod Suspension (Mech/Elec)



Wall Mounting Bracket **(Lytebeam only)**

Mount Clip **(Not Lytebeam)**

- LED 3 hour non-maintained emergency module
- LED solutions offers considerable extended lamp life
- Can avoid requirement for additional emergency solution
- Module can be installed anywhere along a Lytespan 3 track installation
- Module consists of;

– Gear with inverter and LED driver for high power LED connected to push-up live feed

– 1 LED housing and one green charge indicator

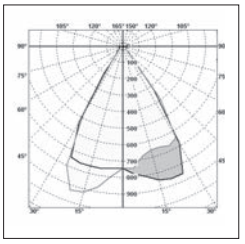
- Module easily fits into track with double ended track fixings – feed connection discretely hidden behind module
- Not suitable for wall or floor mounting
- **Unique to Concord L3 track (not for use on other track systems)**

LIGHT SOURCE INCLUDED

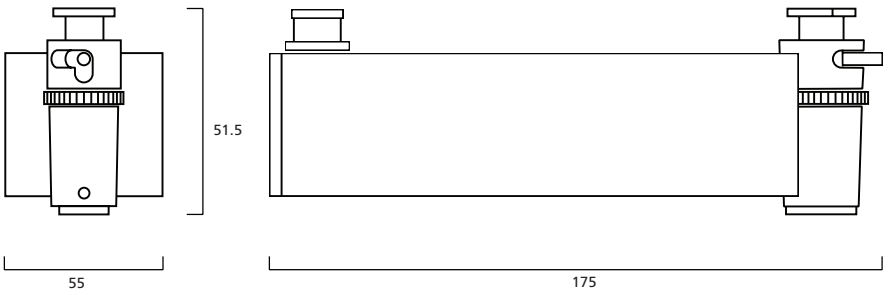
Module fits into track with double ended adaptor

Emergency Module - for Three Circuit Track

Code	Description	Weight (kg)	Colour
2038962	Emergency Track Module	1.13	White
2038963	Emergency Track Module	1.13	Silver



Construction: Die cast aluminium
Mounting: Track: Metal track fixings Polycarbonate live feed
Control Gear: 3 hour non-maintained emergency Integral electronic gear
Battery: Three cell NI-Cd/NiMH Battery 3.6V
Finish: powder coated, white RAL 9016, silver RAL 9006



Dimensions (mm)

See page 183 for Lytebeam

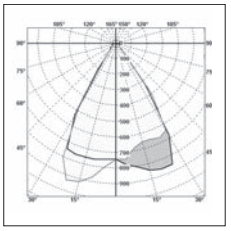
- Lytebeam LED 3 hour non-maintained emergency kit
- LED solutions offers considerable extended lamp life
- Can avoid requirement for additional emergency solution
- Kit can be installed anywhere along a Lytebeam track installation
- Kits consists;
  – Gear tray with inverter and LED driver for 2 x 1W LED's
  – 2 LED housings and one green charge indicator
  – 1m safety rear cover plate
- LED Housings easily clip into front of Lytebeam by drilling 2 x 12mm holes
- Gear fits into rear channel and connected to LED's via terminal block
- Rear safety cover plate conceals gear tray and internal wiring

LIGHT SOURCE INCLUDED

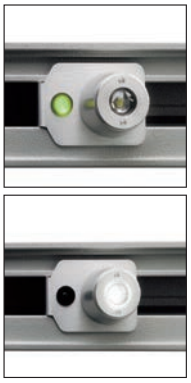
Inverter pack and driver housed in the back of Lytebeam track sections.

Emergency Kit - for Lytebeam

Code	Description	Weight (kg)
2038312	Lytebeam Emergency Kit	0.75

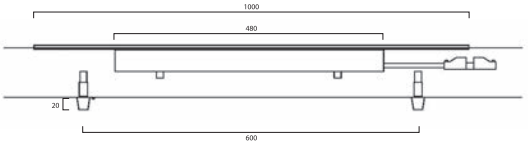


2038312



Discrete LED housings with green charge indicator in normal and emergency mode.

Construction: Aluminium and steel
Control Gear: 3 hour non-maintained emergency Inverter and Batteries
Battery: Three cell NI-Cd/NiMH Battery 3.6V
Finish: anodised LED Housings and rear cover



Dimensions (mm)

Kenwick Spa, U.K.

DOWNLIGHTS

Concord

173 Ascent 150 II

183 Ascent 100 II

193 Ascent 50

197 Kometa 300 LED

201 Beacon Recessed Adjustable

Orchard Information Systems, U.K.

Concord was the original designer and manufacturer of architectural downlights and had a registered patent on the term "downlighter", which lasted from 1966 to 2006.

With over 40 years experience in downlighter technology, Concord introduced the Ascent 150 to redefine the genre of Low Energy Downlights, providing a cost effective and energy efficient replacement for existing CFL downlights offering equivalent lumen output with greatly reduced power consumption. The new Ascent 150 II takes this to the next level with efficiencies of up to 131lm/W using high efficiency boards and a die cast aluminium heat sink to combine high output with long lifetime. The Ascent 150 II range replaces the original Concord, LED 150-TE II (versions available upon request).

Ascent 150 II

- A true economic and efficient replacement for existing CF-L downlights suitable for a wide range of applications
- Efficacy upto 127lm/W (19W, 4,000K version)
- Long life, 50,000 hours plus at 70% luminous flux, fit and forget maintenance free lighting solution
- For workspace applications and very low glare < 200 Cd/m/2 @ 65˚ and above
- Complimentary Wallwasher for the provision of vertical illuminance
- 4,000K neutral white, colour rendering index Ra80
- 3,000K warm white also available
- Wide selection of decorative accessories including floating glass rings and IP54 attachments

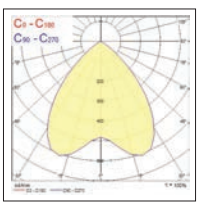
LIGHT SOURCE INCLUDED

IP44 IP54 650°C with accessories

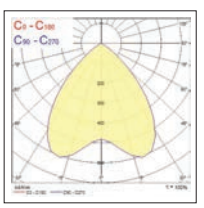
Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Ascent 150 II 1100/1200lm, 10W

Code	Description	Lumen output (lm)	Type
3,000K			
2059340	ASCENT 150 II 1100 3K STD	1,123	Standard
2059341	ASCENT 150 II 1100 3K DALI	1,123	DALI/Switch DIM
2059342	ASCENT 150 II 1100 3K STD EM	1,123	Standard EM
2059343	ASCENT 150 II 1100 3K DALI EM	1,123	DALI/Switch DIM emergency
4,000K			
2059344	ASCENT 150 II 1200 4K STD	1,215	Standard
2059345	ASCENT 150 II 1200 4K DALI	1,215	DALI/Switch DIM
2059346	ASCENT 150 II 1200 4K STD EM	1,215	Standard Emergency
2059347	ASCENT 150 II 1200 4k DALI EM	1,215	DALI/Switch DIM emergency



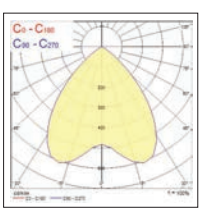
Ascent 150 II 10W - 3,000K



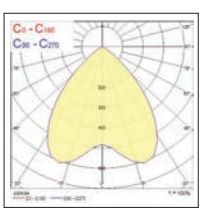
Ascent 150 II 10W - 4,000K

Ascent 150 II 1600/1700lm, 14W

Code	Description	Lumen output (lm)	Type
3,000K			
2059348	ASCENT 150 II 1600 3K STD	1,600	Standard
2059349	ASCENT 150 II 1600 3K DALI	1,600	DALI/Switch DIM
2059350	ASCENT 150 II 1600 3K STD EM	1,600	Standard EM
2059351	ASCENT 150 II 1600 3K DALI EM	1,600	DALI/Switch DIM emergency
4,000K			
2059352	ASCENT 150 II 1700 4K STD	1,738	Standard
2059353	ASCENT 150 II 1700 4K DALI	1,738	DALI/Switch DIM
2059354	ASCENT 150 II 1700 4K STD EM	1,738	Standard EM
2059355	ASCENT 150 II 1700 4k DALI EM	1,738	DALI/Switch DIM emergency

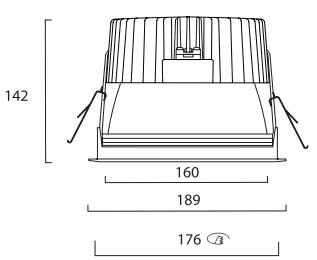


Ascent 150 II 14W - 3,000K



Ascent 150 II 14W - 4,000K

4,000K versions	Ascent 150 II 1200	Ascent 150 II 1700
Fixture power (W)	10	14
Fixture Lumens (lm)	1,215	1,738
ULuminaire efficacy Lm/W	122	124



Dimensions (mm)

- A true economic and efficient replacement for existing CF-L downlights suitable for a wide range of applications
- Efficacy upto 127lm/w (19w, 4000k version)
- Long life, 50,000 hours plus at 70% luminous flux, fit and forget maintenance free lighting solution
- For workspace applications and very low glare < 200 Cd/m/2 @ 65˚ and above
- Complimentary Wallwasher for the provision of vertical illuminance
- 4,000K neutral white, colour rendering index Ra80
- 3,000K warm white also available
- Wide selection of decorative accessories including floating glass rings and IP54 attachments

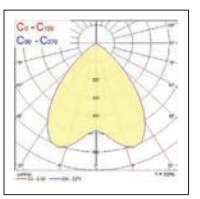
LIGHT SOURCE INCLUDED

IP44 IP54 650°C

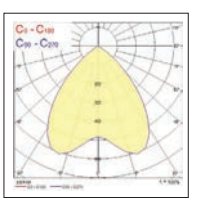
with accessories

Ascent 150 II 2200/2400lm, 19W

Code	Description	Lumen output (lm)	Type
3,000K			
2059356	ASCENT 150 II 2200 3K STD	2,246	Standard
2059357	ASCENT 150 II 2200 3K DALI	2,246	DALI/Switch DIM
2059358	ASCENT 150 II 2200 3K STD EM	2,246	Standard EM
2059359	ASCENT 150 II 2200 3K DALI EM	2,246	DALI/Switch DIM emergency
4,000K			
2059360	ASCENT 150 II 2400 4K STD	2,414	Standard
2059361	ASCENT 150 II 2400 4K DALI	2,414	DALI/Switch DIM
2059362	ASCENT 150 II 2400 4K STD EM	2,414	Standard EM
2059363	ASCENT 150 II 2400 4K DALI EM	2,414	DALI/Switch DIM emergency



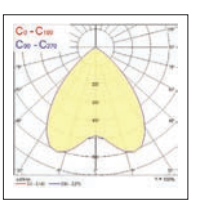
Ascent 150 II -19W - 3,000K



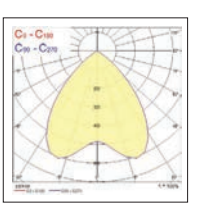
Ascent 150 II - 19W - 4,000K

Ascent 150 II 3200/3400lm, 28W

Code	Description	Lumen output (lm)	Type
3,000K			
2059364	ASCENT 150 II 3200 3K STD	3,250	Standard
2059365	ASCENT 150 II 3200 3K DALI	3,250	DALI/Switch DIM
2059366	ASCENT 150 II 3200 3K STD EM	3,250	Standard EM
2059367	ASCENT 150 II 3200 3K DALI EM	3,250	DALI/Switch DIM emergency
4,000K			
2059368	ASCENT 150 II 3400 4K STD	3,435	Standard
2059369	ASCENT 150 II 3400 4K DALI	3,435	DALI/Switch DIM
2059370	ASCENT 150 II 3400 4K STD EM	3,435	Standard EM
2059371	ASCENT 150 II 3400 4K DALI EM	3,435	DALI/Switch DIM emergency

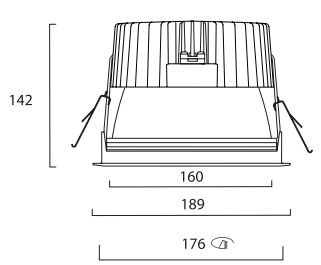


Ascent 150 II -28W - 3,000K



Ascent 150 II -28W - 4,000K

4,000K versions	Ascent 150 II 2400	Ascent 150 II 3400
Fixture power (W)	19	28
Fixture lumens (lm)	2,414	3,435
Efficacy Lm/W	127	123



Dimensions (mm)

- A true economic and efficient replacement for existing CF-L downlights suitable for a wide range of applications
- Long life, 50,000 hours plus at 70% luminous flux, fit and forget maintenance free lighting solution
- 4,000K neutral white and 3,000K warm white options with typical colour rendering index of Ra85
- IP44 rated
- Wide selection of decorative accessories including floating glass rings and IP54 attachments

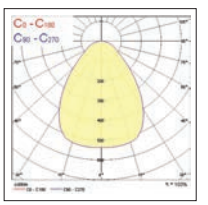
LIGHT SOURCE INCLUDED

IP44 IP54 650°C with accessories

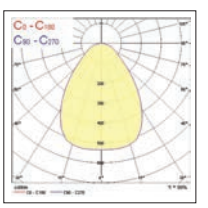
Ascent 150 II 2000/2400lm - 19W

Code	Description	Lumen output (lm)	Type
3,000K			
2059446	ASCENT 150 II 2000 3K DALI WHT	2,082	DALI/Switch DIM
4,000K			
2059448	ASCENT 150 II 2400 4K DALI WHT	2,413	DALI/Switch DIM

** Emergency versions available on request*



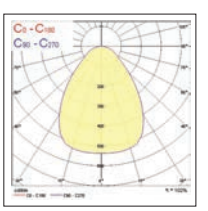
Ascent 150 II 19W - 3,000K



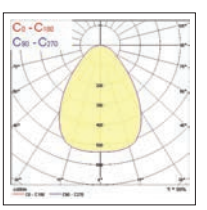
Ascent 150 II 19W - 4,000K

Ascent 150 II 2900/3400lm - 28W

Code	Description	Lumen output (lm)	Type
3,000K			
2059447	ASCENT 150 II 2900 3K DALI WHT	2,967	DALI/Switch DIM
4,000K			
2059449	ASCENT 150 II 3400 4K DALI WHT	3,403	DALI/Switch DIM
2059450	ASCENT150 II 3400 4K DALIEM WHT	3,403	DALI/Switch DIM emergency



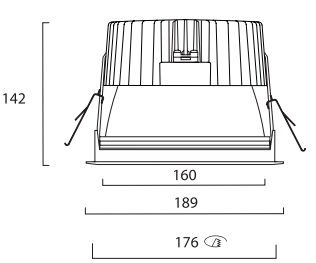
Ascent 150 II 28W - 3,000K



Ascent 150 II 28W - 4,000K

4,000K versions

	Ascent 150 II 2400	Ascent 150 II 3400
Fixture Lumens (lm)	2,413	3,403
Actual Power (W)	19	28
Efficacy Lm/W	110	110



Dimensions (mm)

Accessories

Silver Bezel

White Bezel + IP54 Vandal Resistant Cover

White Bezel + IP44 Glass Cover

Floating Glass Ring Blue Gel

Floating Profile Cut Glass Disc

Floating Frosted Glass Ring

Floating Frosted Cylinder Blue Ring

- A range of accessories designed to beautify and enhance ceilings
- For that minimalist, uncluttered look, choose one of our plaster up accessories available in various finishes

160mm Ø Accessories

Order separately

Code	Description	Weight (kg)	Colour
2028614	Bezel Only	0.11	White Bezel
2028034	Clear Glass IP44 Cover	0.20	White Bezel
2028036	Etched Glass IP44 Cover	0.20	White
2039013	Polycarbonate IP54 Cover	0.18	White
2038980	Floating Frosted Glass Ring	0.50	White Bezel
2038984	Floating Glass Ring Blue Gel	0.50	White Bezel
2039021	Floating Profile Cut Glass Disc	0.56	White
2028060	Floating Glass Disc Fully Etched	0.45	White
2034493	Floating Frosted Cylinder Blue Ring	0.16	White
2028549	Floating Frosted Cylinder Clear Ring	0.16	White
2028038	Bezel Only	0.11	Silver Bezel
2028600	Clear Glass IP44 Cover	0.20	Silver Bezel
2028602	Etched Glass IP44 Cover	0.20	Silver
2028608	Floating Glass Disc Fully Etched	0.45	Silver
2028612	Floating Frosted Cylinder Clear Ring	0.16	Silver

2056146

2056147

2056148

2059446 and 2056147

Ascent 150 Plaster Up Accessories

Code	Description
2056146	ASNT150 PL UP RD SIL ACC
2056147	ASNT150 PL UP RD WHT ACC
2056148	ASNT150 PL UP RD BLK ACC

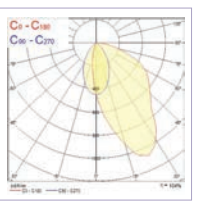
- A true economic and efficient replacement for existing CF-L downlights suitable for a wide range of applications
- Long life, 50,000 hours plus at 70% luminous flux, fit and forget maintenance free lighting solution
- Cutting-edge nano diffuser technology provides excellent flashing with even illumination and reduction of multiple shadowing caused by individual LED chips.
- Highly reflective aluminised diffuser 99.98% super pure aluminium reflector irridescence free providing optimum visual comfort
- 3,000K warm white also available
- Cannot be used with 160mm accessories

LIGHT SOURCE INCLUDED

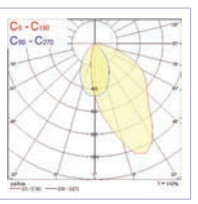
IP23 650°C

Ascent 150 II 1600/1700lm Wallwash, 14W

Code	Description	Lumen output (lm)	Type
3,000K			
2059372	ASCENT 150 II WALL 1600 3K STD	1,613	Standard
2059373	ASCENT 150 II WALL 1600 3K DALI	1,613	DALI/Switch DIM
4,000K			
2059374	ASCENT 150 II WALL 1700 4K STD	1,718	Standard
2059375	ASCENT 150 II WALL 1700 4K DALI	1,718	DALI/Switch DIM



Ascent 150 II 14W - 3,000K

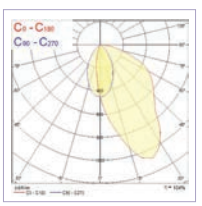


Ascent 150 II 14W - 4,000K

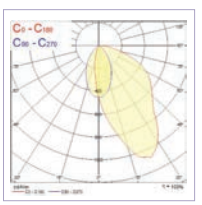
Ascent 150 II 3200/3400lm Wallwash, 28W

Code	Description	Lumen output (lm)	Type
3,000K			
2059376	ASCENT 150 II WALL 3200 3K STD	3,222	Standard
2059377	ASCENT 150 II WALL 3200 3K DALI	3,222	DALI/Switch DIM
4,000K			
2059378	ASCENT 150 II WALL 3400 4K STD	3,405	Standard
2059379	ASCENT 150 II WALL 3400 4K DALI	3,405	DALI/Switch DIM

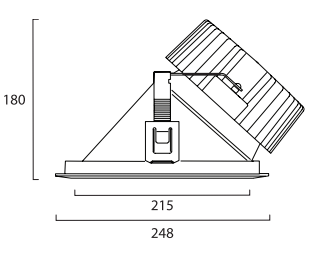
Legend: WALL = Wallwash



Ascent 150 II 28W - 3,000K



Ascent 150 II 28W - 4,000K



4,000K versions

	Ascent 150 II 1700	Ascent 150 II 3400
Fixture Lumens (lm)	1718	3405
Actual Power (W)	14	28
Efficacy Lm/W	123	122

- Utilising cutting edge LED chip technology
- Efficacy upto 131lm/w 19w 4000k version
- A true economic and efficient replacement for existing CF-L downlights
- For workspace applications and very low glare < 200 Cd/m2 @ 65° and below
- 4,000K neutral white and 3,000K warm white with typical colour rendering index of Ra85

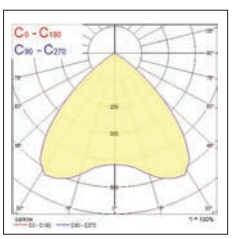
LIGHT SOURCE INCLUDED

IP44 IK02 650°C

LED

Ascent 150 II 1100/1200lm, 10W

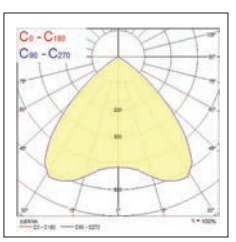
Code	Description	Lumen output (lm)	Type
3,000K			
2059380	ASCENT 150 II SQ 1100 3K STD	1,163	Standard
2059381	ASCENT 150 II SQ 1100 3K DALI	1,163	DALI/Switch DIM
2059382	ASCENT 150 II SQ 1100 3K STD EM	1,163	Standard EM
2059383	ASCENT 150 II SQ 1100 3K DALI EM	1,163	DALI/Switch DIM emergency
4,000K			
2059384	ASCENT 150 II SQ 1200 4K STD	1,246	Standard
2059385	ASCENT 150 II SQ 1200 4K DALI	1,246	DALI/Switch DIM
2059386	ASCENT 150 II SQ 1200 4K STD EM	1,246	Standard EM
2059387	ASCENT 150 II SQ 1200 4k DALI EM	1,246	DALI/Switch DIM Emergency



Ascent 150 II 10W 3,000K

Ascent 150 II 1600/1700lm, 14W

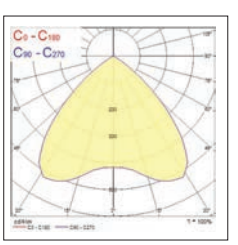
Code	Description	Lumen output (lm)	Type
3,000K			
2059388	ASCENT 150 II SQ 1600 3K STD	1600	Standard
2059389	ASCENT 150 II SQ 1600 3K DALII	1,600	DALI
2059390	ASCENT 150 II SQ 1600 3K STD EM	1,600	Standard EM
2059391	ASCENT 150 II SQ 1600 3K DALI EM	1,600	DALI/Switch DIM emergency
4,000K			
2059392	ASCENT 150 II SQ 1700 4K STD	1,778	Standard
2059393	ASCENT 150 II SQ 1700 4K DALI	1,778	DALI/Switch DIM
2059394	ASCENT 150 II SQ 1700 4K STD EM	1,778	Standard EM
2059395	ASCENT 150 II SQ 1700 4K DALI EM	1,778	DALI/Switch DIM Emergency



Ascent 150 II 14W 3,000K

Ascent 150 II 2300/2400lm, 19W

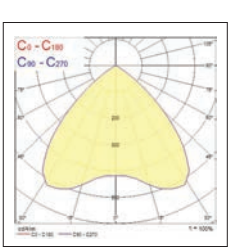
Code	Description	Lumen output (lm)	Type
3,000K			
2059396	ASCENT 150 II SQ 2300 3K STD	2,322	Standard
2059397	ASCENT 150 II SQ 2300 3K DALI	2,322	DALI/Switch DIM
2059398	ASCENT 150 II SQ 2300 3K STD EM	2,322	Standard EM
2059399	ASCENT 150 II SQ 2300 3K DALI EM	2,322	DALI/Switch DIM emergency
4,000K			
2059400	ASCENT 150 II SQ 2400 4K STD	2,483	Standard
2059401	ASCENT 150 II SQ 2400 4K DALI	2,483	DALI/Switch DIM
2059402	ASCENT 150 II SQ 2400 4K STD EM	2,483	Standard EM
2059403	ASCENT 150 II SQ 2400 4K DALI EM	2,483	DALI/Switch DIM emergency



Ascent 150 II 19W 3,000K

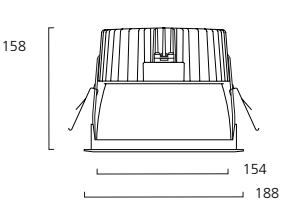
Ascent 150 II 3200/3500lm, 28W

Code	Description	Lumen output (lm)	Type
3,000K			
2059404	ASCENT 150 II SQ 3200 3K STD	3,284	Standard
2059405	ASCENT 150 II SQ 3200 3K DALI	3,284	DALI/Switch DIM
2059406	ASCENT 150 II SQ 3200 3K STD EM	3,284	Standard EM
2059407	ASCENT 150 II SQ 3200 3K DALI EM	3,284	DALI/Switch DIM emergency
4,000K			
2059408	ASCENT 150 II SQ 3500 4K STD	3,512	Standard
2059409	ASCENT 150 II SQ 3500 4K DALI	3,512	DALI/Switch DIM
2059410	ASCENT 150 II SQ 3500 4K STD EM	3,512	Standard EM
2059411	ASCENT 150 II SQ 3500 4K DALI EM	3,512	DALI/Switch DIM emergency



Ascent 150 II 28W 3,000K

Legend: SQ = Square

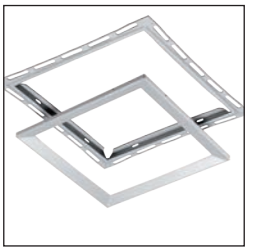


Dimensions (mm)

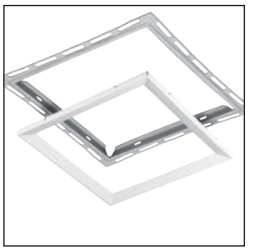
Ascent 150 II SQ Performance matrix - Aluminium reflector 4K

Fixture power (W)	10W	14W	19W	28W
Fixture lumens	1,246lm	1,778m	2,483lm	3,512m
Luminaire efficacy (lm/W)	125	127	131	125

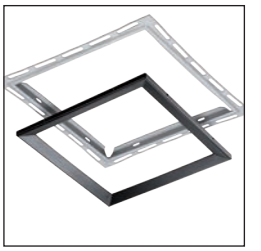
Accessories



2056149

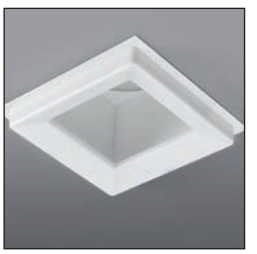


2056150



2056151

2055782



2055783

- A range of accessories designed to beautify and enhance any ceiling
- For that minimalist, uncluttered look, choose one of our plaster up accessories available in various finishes
- Need to throw light back toward the ceiling? Our square Kometa accessory is the perfect solution for tiled T-Grid and plasterboard ceilings

Ascent 150 II Square Plaster Up Accessories

Code	Description
2056149	ASNT150 PL UP SQ SIL ACC
2056150	ASNT150 PL UP SQ WHT ACC
2056151	ASNT150 PL UP SQ BLK ACC
2055782	ASNT150 SQ DROP GLASS
2055783	ASNT150 SQ KOMETA

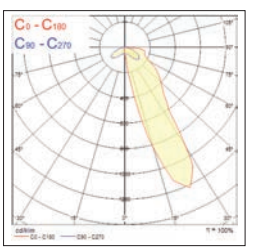
- A true economic and efficient replacement for existing CF-L wallwashers
- Suitable for a wide range of applications e.g. Retail or Display
- Complete ceiling to floor uniformity of light
- Provides excellent vertical illuminance utilising the latest LED technology
- High efficiency, high output and very high output versions depending upon your requirements
- Same ceiling cut out as Ascent 150 Square downlight model to enhance visual continuity within ceiling
- Lumen output (lm) 906 (17W) 1,195 (22W) 1,557 (30W)
- CRI: 85

LIGHT SOURCE INCLUDED

IP20 IK02 650°C

Ascent 150 II 850/900lm WallWash, 17W

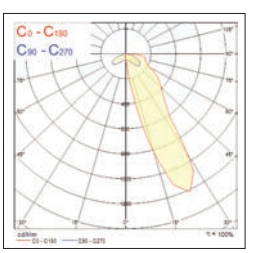
Code	Description	Lumen output (lm)	Type
3,000K			
2055986	ASCENT 150 II SQWALL 850 3K STD	896	Standard
2055987	ASCENT 150 II SQWALL 850 3K DALI	896	DALI
4,000K			
2055988	ASCENT 150 II SQWALL 900 4K STD	906	Standard
2055989	ASCENT 150 II SQWALL 900 4K DALI	906	DALI



2055988 High Efficiency 17W - 4,000K

Ascent 150 II 1000/1100lm Wallwash, 22W

Code	Description	Lumen output (lm)	Type
3,000K			
2055990	ASCENT 150 II SQWALL 1000 3K STD	1,174	Standard
2055991	ASCENT 150 II SQWALL 1000 3K DALI	1,174	DALI
4,000K			
2055992	ASCENT 150 II SQWALL 1100 4K STD	1,195	Standard
2055993	ASCENT 150 II SQWALL 1100 4K DALI	1,195	DALI

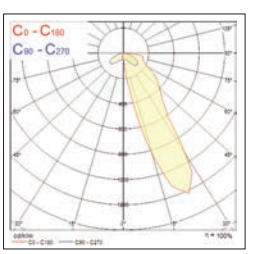


2055992 High Output 22W - 4,000K

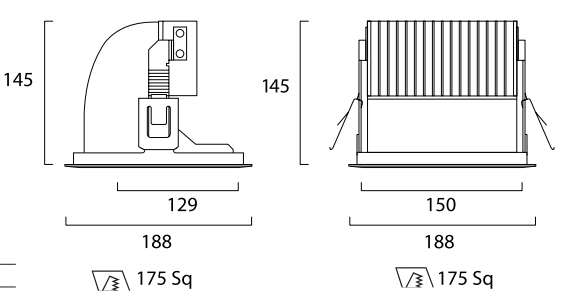
Ascent 150 II 1500/1550lm Wallwash, 30W

Code	Description	Lumen output (lm)	Type
3,000K			
2055994	ASCENT 150 II SQWALL 1500 3K STD	1,521	Standard
2055995	ASCENT 150 II SQWALL 1500 3K DALI	1,521	DALI
4,000K			
2055996	ASCENT 150 II SQWALL 1550 4K STD	1,557	Standard
2055997	ASCENT 150 II SQWALL 1550 4K DALI	1,557	DALI

Legend: SQWALL= Square Wallwash



2055996 Very High Output 30W - 4,000K



Dimensions (mm)

Ascent 150 II SQWALL Performance matrix - Aluminium reflector 4K

Fixture power (W)	17W	22W	30W
Fixture lumens	906lm	1,195lm	1,557lm
Luminaire efficacy (lm/W)	53	54	52

Fenchurch Avenue - London, England

Ascent 100, an efficient direct LED retrofit downlight for the original LED 100-TE luminaire. Ascent 100 - 'Heritage redesigned' is designed for small ceiling apertures. A perfect lighting solution for corridors, circulation spaces and washrooms with typically half the wattage of traditional CFL. The Ascent 100 range replaces with original CFL Low Energy Downlight from Concord, LED 100-TE Architectural, Deco and Eco 120mm and 160mm (available upon request)

Ascent 100 II

Ascent 100 Architectural 120

Ascent 100 Architectural 120 installed

- Direct LED retro fit for original LED 100 Arch (120) single CFL lamp offering
- Matching lumen levels and improved light distribution of original LED 100 CFL lamp equivalents
- Typically half the power consumption compared to CFL
- Up to 131lm/W
- 120mm aperture
- 4,000K neutral white, colour rendering index Ra85
- 3,000K warm white also available
- Architectural reflector accepts range of decorative glass accessories from existing LED 100 120 Arch
- 5W, 8W, 10W versions equivalent of single 1 x 13W, 1 x 18W, 1 x 26W CFL
- 18W versions which offer the performance circa 2 x 26W CFL equivalent
- Long Life, 50,000 hours plus at 70% luminous flux.

LIGHT SOURCE INCLUDED

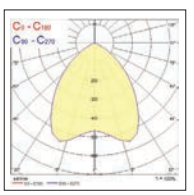
IP40 IK02 650°C

* IP44 with accessories

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Ascent 100 II Architectural 650lm - 5W

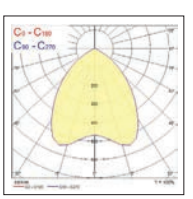
Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060500	ASCT100 II ARCH 650 3K STD	638	5	Standard
2060501	ASCT100 II ARCH 650 3K STD EMG	638	7	Standard Emergency
2060502	ASCT100 II ARCH 650 3K DALI	638	5	DALI
2060503	ASCT100 II ARCH 650 3K DALI EMG	638	7	DALI Emergency
2060504	ASCT100 II ARCH 650 3K EMPRO	638	7	EMPRO
4,000K				
2060505	ASCT100 II ARCH 650 4K STD	653	5	Standard
2060506	ASCT100 II ARCH 650 4K STD EMG	653	7	Standard Emergency
2060507	ASCT100 II ARCH 650 4K DALI	653	5	DALI
2060508	ASCT100 II ARCH 650 4K DALI EMG	653	7	DALI Emergency
2060509	ASCT100 II ARCH 650 4K EMPRO	653	7	EMPRO



4,000K 5W Round

Ascent 100 II Architectural 900lm - 8W

Code	Description	Lumen output (lm)	Watt (W)	Type)
3,000K				
2060510	ASCT100 II ARCH 900 3K STD	900	8	Standard
2060511	ASCT100 II ARCH 900 3K STD EMG	900	10	Standard Emergency
2060512	ASCT100 II ARCH 900 3K DALI	900	8	DALI
2060513	ASCT100 II ARCH 900 3K DALI EMG	900	10	DALI Emergency
2060514	ASCT100 II ARCH 900 3K EMPRO	900	10	EMPRO
4,000K				
2060515	ASCT100 II ARCH 900 4K STD	931	8	Standard
2060516	ASCT100 II ARCH 900 4K STD EMG	931	10	Standard Emergency
2060517	ASCT100 II ARCH 900 4K DALI	931	8	DALI
2060518	ASCT100 II ARCH 900 4K DALI EMG	931	10	DALI Emergency
2060519	ASCT100 II ARCH 900 4K EMPRO	931	10	EMPRO

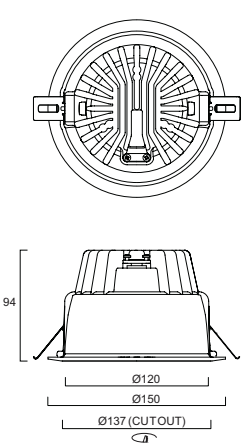


4,000K 8W Round

ASCENT 100 (120) Performance table showing direct retrofit equivalent to CFL downlights

LED100 CFL Equivalent	NEW Ascent100 II (120)	Fixture Lumens	Total Power	lm/W
1 x 13W	ASCT100 II ARCH / DECO 650 4K STD	653	5	131
1 x 18W	ASCT100 II ARCH / DECO 900 4K STD	931	8	116
1 x 26W	ASCT100 II ARCH / DECO1200 4K STD	1228	10	123
Approx 2 x 26W	ASCT100 II ARCH / DECO 2000 4K STD	2029	18	113

* emg version adds 2w to power consumption



Dimensions (mm)

Ascent 100 Architectural 120

Ascent 100 Architectural 120 installed

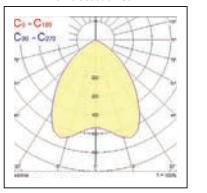
Ascent 100 II Architectural 1200lm - 10W

LIGHT SOURCE INCLUDED

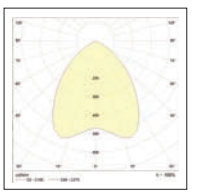
Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060520	ASCT100 II ARCH 1200 3K STD	1160	10	Standard
2060521	ASCT100 II ARCH 1200 3K STD EMG	1160	12	Standard Emergency
2060522	ASCT100 II ARCH 1200 3K DALI	1160	10	DALI
2060523	ASCT100 II ARCH 1200 3K DALI EMG	1160	12	DALI Emergency
2060524	ASCT100 II ARCH 1200 3K EMPRO	1160	12	EMPRO
4,000K				
2060525	ASCT100 II ARCH 1200 4K STD	1228	10	Standard
2060526	ASCT100 II ARCH 1200 4K STD EMG	1228	12	Standard Emergency
2060527	ASCT100 II ARCH 1200 4K DALI	1228	10	DALI
2060528	ASCT100 II ARCH 1200 4K DALI EMG	1228	12	DALI Emergency
2060529	ASCT100 II ARCH 1200 4K EMPRO	1228	12	EMPRO

IP40 IK02 650°C

* IP44 with accessories



4,000K 10W Round



4,000K 18W Round

Ascent 100 II Architectural 1900 / 2000lm - 18W

Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060530	ASCT100 II ARCH 1900 3K STD	1887	18	Standard
2060531	ASCT100 II ARCH 1900 3K STD EMG	1887	20	Standard Emergency
2060532	ASCT100 II ARCH 1900 3K DALI	1887	18	DALI
2060533	ASCT100 II ARCH 1900 3K DALI EMG	1887	20	DALI Emergency
2060534	ASCT100 II ARCH 1900 3K EMPRO	1887	20	EMPRO
4,000K				
2060535	ASCT100 II ARCH 2000 4K STD	2029	18	Standard
2060536	ASCT100 II ARCH 2000 4K STD EMG	2029	20	Standard Emergency
2060537	ASCT100 II ARCH 2000 4K DALI	2029	18	DALI
2060538	ASCT100 II ARCH 2000 4K DALI EMG	2029	20	DALI Emergency
2060539	ASCT100 II ARCH 2000 4K EMPRO	2029	20	EMPRO

Accessories

2028033

2028035

2039012

Ascent 100 II Architectural 120 : Compatible Architectural Accessories 120

Code	Description
2028033	IP44 Clear Glass 120
2028035	IP44 Frost Glass 120
2039012	IP54 Poly Cover 120

Ascent 100 Decorative 120

Ascent 100 Decorative120 + Kometa accessory

- Direct LED retro fit for original LED 100 Deco (120) single CFL lamp offering
- Matching lumen levels and improved light distribution of original LED 100 CFL lamp equivalents
- Typically half the power consumption compared to CFL
- Up to 131lm/W, 120mm aperture
- 4,000K neutral white, colour rendering index Ra85
- 3,000K warm white also available
- Decorative reflector accepts 'snap fit' polycarbonate accessories from existing LED Deco 120 offering
- New kometa accessory ring creates a diffused indirect halo of light onto the ceiling for decorative effect
- 8W, 10W, versions equivalent of single 1 x 18W, 1 x 26W
- Long life, 50,000 hours plus at 70% luminous flux.

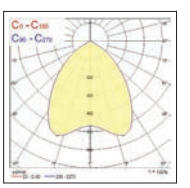
LIGHT SOURCE INCLUDED

IP40 IK02 650°C

* IP44 with accessories

Ascent 100 II Decorative 650lm - 5W

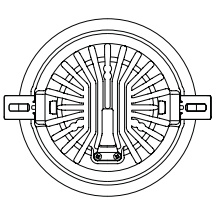
Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060600	ASCT100 II DECO 650 3K STD	638	5	Standard
2060601	ASCT100 II DECO 650 3K STD EMG	638	7	Standard Emergency
2060602	ASCT100 II DECO 650 3K DALI	638	5	DALI
2060603	ASCT100 II DECO 650 3K DALI EMG	638	7	DALI Emergency
2060604	ASCT100 II DECO 650 3K EMPRO	638	7	EMPRO
4,000K				
2060605	ASCT100 II DECO 650 4K STD	653	5	Standard
2060606	ASCT100 II DECO 650 4K STD EMG	653	7	Standard Emergency
2060607	ASCT100 II DECO 650 4K DALI	653	5	DALI
2060608	ASCT100 II DECO 650 4K DALI EMG	653	7	DALI Emergency
2060609	ASCT100 II DECO 650 4K EMPRO	653	7	EMPRO

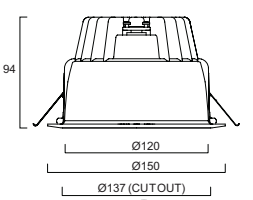


4,000K 8W Round

Ascent 100 II Decorative 900lm - 8W

Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060610	ASCT100 II DECO 900 3K STD	900	8	Standard
2060611	ASCT100 II DECO 900 3K STD EMG	900	10	Standard Emergency
2060612	ASCT100 II DECO 900 3K DALI	900	8	DALI
2060613	ASCT100 II DECO 900 3K DALI EMG	900	10	DALI Emergency
2060614	ASCT100 II DECO 900 3K EMPRO	900	10	EMPRO
4,000K				
2060615	ASCT100 II DECO 900 4K STD	931	8	Standard
2060616	ASCT100 II DECO 900 4K STD EMG	931	10	Standard Emergency
2060617	ASCT100 II DECO 900 4K DALI	931	8	DALI
2060618	ASCT100 II DECO 900 4K DALI EMG	931	10	DALI Emergency
2060619	ASCT100 II DECO 900 4K EMPRO	931	10	EMPRO





Dimensions (mm)

ASCENT 100 (120) Performance table showing direct retrofit equivalent to CFL downlights

LED100 CFL Equivalent	NEW Ascent100 (120)	Fixture Lumens	Total Power	lm/W
1 x 13W	ASCT100 II ARCH / DECO 650 4K STD	653	5	131
1 x 18W	ASCT100 II ARCH / DECO 900 4K STD	931	8	116
1 x 26W	ASCT100 II ARCH / DECO1200 4K STD	1228	10	123

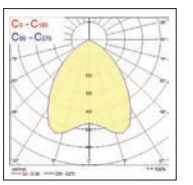
* emg version adds 2w to power consumption

Ascent 100 Decorative 120

Ascent 100 Decorative120 + Kometa accessory

Ascent 100 II Decorative 1200lm - 10W

Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060620	ASCT100 II DECO 1200 3K STD	1160	10	Standard
2060621	ASCT100 II DECO 1200 3K STD EMG	1160	12	Standard Emergency
2060622	ASCT100 II DECO 1200 3K DALI	1160	10	DALI
2060623	ASCT100 II DECO 1200 3K DALI EMG	1160	12	DALI Emergency
2060624	ASCT100 II DECO 1200 3K EMPRO	1160	12	EMPRO
4,000K				
2060625	ASCT100 II DECO 1200 4K STD	1228	10	Standard
2060626	ASCT100 II DECO 1200 4K STD EMG	1228	12	Standard Emergency
2060627	ASCT100 II DECO 1200 4K DALI	1228	10	DALI
2060628	ASCT100 II DECO 1200 4K DALI EMG	1228	12	DALI Emergency
2060629	ASCT100 II DECO 1200 4K EMPRO	1228	12	EMPRO



4,000K 10W Round

Accessories

2059235

2028039

2028041

2028043

2028045

2028047

Ascent 100 Deco 120: Compatible Deco Accessories 120

Code	Description
2059235	Ascent100 Kometa 120
2028039	IP44 Clear Diffuser 120
2028041	IP44 Opal Diffuser 120
2028043	IP44 Prismatic Diffuser 120
2028045	IP44 Asymetrical Lens 120
2028047	Opal Dropped Ring 120

Ascent 100 Architectural 160

Ascent 100 Architectural 160 installed

- Direct LED retro fit for original LED 100 Arch (160) single CFL lamp offering
- Matching lumen levels and improved light distribution of original LED 100 CFL lamp equivalents
- Typically half the power consumption compared to CFL
- Up to 144lm/W (7W version)
- 160mm aperture
- 4,000K neutral white, colour rendering index Ra85
- 3,000K warm white also available
- Architectural reflector accepts range of decorative glass accessories from existing LED 100 160 Arch
- 17W, 21W, 30W versions equivalent of single 1 x 32W, 1 x 42W, 2 x 32W
- Long life, 50, 000 hours plus at 70% luminous flux.

LIGHT SOURCE INCLUDED

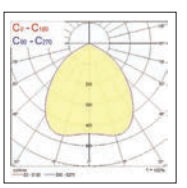
IP40 IK02 650°C

* IP44 with accessories

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Ascent 100 II Architectural 1000lm - 7W

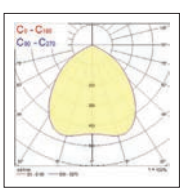
Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060540	ASCT100 II ARCH 1000 3K STD	968	7	Standard
2060541	ASCT100 II ARCH 1000 3K STD EMG	968	9	Standard Emergency
2060542	ASCT100 II ARCH 1000 3K DALI	968	7	DALI
2060543	ASCT100 II ARCH 1000 3K DALI EMG	968	9	DALI Emergency
2060544	ASCT100 II ARCH 1000 3K EMPRO	968	9	EMPRO
4,000K				
2060545	ASCT100 II ARCH 1000 4K STD	1009	7	Standard
2060546	ASCT100 II ARCH 1000 4K STD EM	1009	9	Standard Emergency
2060547	ASCT100 II ARCH 1000 4K DALI	1009	7	DALI
2060548	ASCT100 II ARCH 1000 4K DALI EMG	1009	9	DALI Emergency
2060549	ASCT100 II ARCH 1000 4K EMPRO	1009	9	EMPRO



4,000K 17W Round

Ascent 100 II Architectural 1900lm - 17W

Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060550	ASCT100 II ARCH 1900 3K STD	1847	17	Standard
2060551	ASCT100 II ARCH 1900 3K STD EMG	1847	19	Standard Emergency
2060552	ASCT100 II ARCH 1900 3K DALI	1847	17	DALI
2060553	ASCT100 II ARCH 1900 3K DALI EMG	1847	19	DALI Emergency
2060554	ASCT100 II ARCH 1900 3K EMPRO	1847	19	EMPRO
4,000K				
2060555	ASCT100 II ARCH 1900 4K STD	1921	17	Standard
2060556	ASCT100 II ARCH 1900 4K STD EM	1921	19	Standard Emergency
2060557	ASCT100 II ARCH 1900 4K DALI	1921	17	DALI
2060558	ASCT100 II ARCH 1900 4K DALI EMG	1921	19	DALI Emergency
2060559	ASCT100 II ARCH 1900 4K EMPRO	1921	19	EMPRO

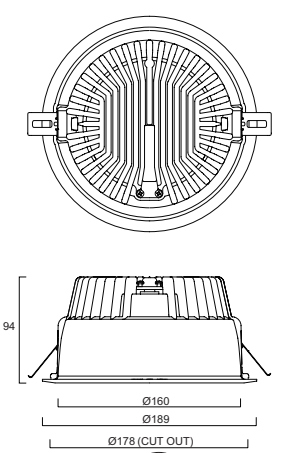


4,000K 21W Round

ASCENT 100 (160) Performance table showing Direct retrofit equivalent to CFL downlights

LED100 CFL Equivalent	NEW Ascent100 (120)	Fixture Lumens	Total Power	lm/W
1 x 32W	ASCT100 II ARCH / DECO 1900 4K STD	1912	17	113
1 x 42W	ASCT100 II ARCH / DECO 2700 4K STD	2767	21	132
Approx 2 x 32W	ASCT100 II ARCH / DECO 3700 4K STD	3766	30	126

* emg version adds 2W to power consumption



Dimensions (mm)

Ascent 100 Architectural 160

Ascent 100 Architectural 160 installed

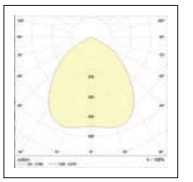
Ascent 100 II Architectural 2700lm - 21W

LIGHT SOURCE INCLUDED

IP40 IK02 650°C

* IP44 with accessories

Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060560	ASCT100 II ARCH 2700 3K STD	2649	21	Standard
2060561	ASCT100 II ARCH 2700 3K STD EMG	2649	23	Standard Emergency
2060562	ASCT100 II ARCH 2700 3K DALI	2649	21	DALI
2060563	ASCT100 II ARCH 2700 3K DALI EMG	2649	23	DALI Emergency
2060564	ASCT100 II ARCH 2700 3K EMPRO	2649	23	EMPRO
4,000K				
2060565	ASCT100 II ARCH 2700 4K STD	2767	21	Standard
2060566	ASCT100 II ARCH 2700 4K STD EMG	2767	23	Standard Emergency
2060567	ASCT100 II ARCH 2700 4K DALI	2767	21	DALI
2060568	ASCT100 II ARCH 2700 4K DALI EMG	2767	23	DALI Emergency
2060569	ASCT100 II ARCH 2700 4K EMPRO	2767	23	EMPRO



4,000K 30W Round

Ascent 100 II Architectural 3600/3700lm - 30W

Code	Description	Lumen output (lm)	Watt (W)	Type)
3,000K				
2060570	ASCT100 II ARCH 3600 3K STD	3548	30	Standard
2060571	ASCT100 II ARCH 3600 3K STD EMG	3548	32	Standard Emergency
2060572	ASCT100 II ARCH 3600 3K DALI	3548	30	DALI
2060573	ASCT100 II ARCH 3600 3K DALI EMG	3548	32	DALI Emergency
2060574	ASCT100 II ARCH 3600 3K EMPRO	3548	32	EMPRO
4,000K				
2060575	ASCT100 II ARCH 3700 4K STD	3766	30	Standard
2060576	ASCT100 II ARCH 3700 4K STD EMG	3766	32	Standard Emergency
2060577	ASCT100 II ARCH 3700 4K DALI	3766	30	DALI
2060578	ASCT100 II ARCH 3700 4K DALI EMG	3766	32	DALI Emergency
2060579	ASCT100 II ARCH 3700 4K EMPRO	3766	32	EMPRO

Accessories

2028034

2028048

2039013

Ascent 100 Architectural 160 : Compatible Architectural Accessories 160

Code	Description
2028034	IP44 Clear Glass 160
2028048	IP44 Frost Glass 160
2039013	IP54 Poly Cover 160

Ascent 100 Decorative 160

Ascent 100 Decorative 160 installed (accessory required)

- Direct LED retro fit for original LED 100 Deco (160) single CFL lamp offering
- Matching lumen levels and improved light distribution of original LED 100 CFL lamp equivalents
- Typically half the power consumption compared to CFL
- Up to 144lm/W (7W version)
- 160mm aperture
- 4,000K neutral white, colour rendering index Ra85
- 3,000K warm white also available
- Decorative reflector accepts 'snap fit' polycarbonate accessories from existing LED Deco 160 offering
- New kometa accessory ring creates a diffused indirect halo of light onto the ceiling for decorative effect
- 17W, 21W versions equivalent of single 1 x 32W, 1 x 42W
- Long life, 50,000 hours plus at 70% luminous flux.

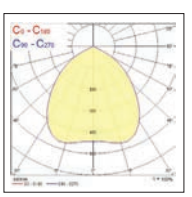
LIGHT SOURCE INCLUDED

IP40 IK02 650°C

* IP44 with accessories

Ascent 100 II Decorative 1000lm - 7W

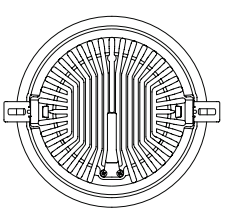
Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060630	ASCT100 II DECO 1000 3K STD	968	7	Standard
2060631	ASCT100 II DECO 1000 3K STD EMG	968	9	Standard Emergency
2060632	ASCT100 II DECO 1000 3K DALI	968	7	DALI
2060633	ASCT100 II DECO 1000 3K DALI EMG	968	9	DALI Emergency
2060634	ASCT100 II DECO 1000 3K EMPRO	968	9	EMPRO
4,000K				
2060635	ASCT100 II DECO 1000 4K STD	1009	7	Standard
2060636	ASCT100 II DECO 1000 4K STD EM	1009	9	Standard Emergency
2060637	ASCT100 II DECO 1000 4K DALI	1009	7	DALI
2060638	ASCT100 II DECO 1000 4K DALI EMG	1009	9	DALI Emergency
2060639	ASCT100 II DECO 1000 4K EMPRO	1009	9	EMPRO

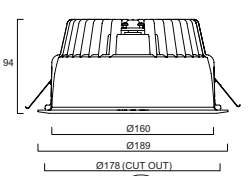


4,000K 17W Round

Ascent 100 II Decorative 1900lm - 17W

Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060640	ASCT100 II DECO 1900 3K STD	1847	17	Standard
2060641	ASCT100 II DECO 1900 3K STD EMG	1847	19	Standard Emergency
2060642	ASCT100 II DECO 1900 3K DALI	1847	17	DALI
2060643	ASCT100 II DECO 1900 3K DALI EMG	1847	19	DALI Emergency
2060644	ASCT100 II DECO 1900 3K EMPRO	1847	19	EMPRO
4,000K				
2060645	ASCT100 II DECO 1900 4K STD	1921	17	Standard
2060646	ASCT100 II DECO 1900 4K STD EMG	1921	19	Standard Emergency
2060647	ASCT100 II DECO 1900 4K DALI	1921	17	DALI
2060648	ASCT100 II DECO 1900 4K DALI EMG	1921	19	DALI Emergency
2060649	ASCT100 II DECO 1900 4K EMPRO	1921	19	EMPRO





Dimensions (mm)

Ascent 100 (160) Performance table showing Direct retrofit equivalent to CFL downlights

LED100 CFL Equivalent	NEW Ascent100 (120)	Fixture Lumens	Total Power	lm/W
1 x 32W	ASCT100 II ARCH / DECO 1900 4K STD	1921	17	113
1 x 42W	ASCT100 II ARCH / DECO 2700 4K STD	2767	21	132

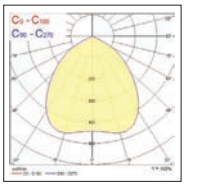
* emg version adds 2W to power consumption

Ascent 100 Decorative 160

Ascent 100 Decorative 160 installed (accessory required)

Ascent 100 II Decorative 2700lm - 21W

Code	Description	Lumen output (lm)	Watt (W)	Type
3,000K				
2060650	ASCT100 II DECO 2700 3K STD	2649	21	Standard
2060651	ASCT100 II DECO 2700 3K STD EMG	2649	23	Standard Emergency
2060652	ASCT100 II DECO 2700 3K DALI	2649	21	DALI
2060653	ASCT100 II DECO 2700 3K DALI EMG	2649	23	DALI Emergency
2060654	ASCT100 II DECO 2700 3K EMPRO	2649	23	EMPRO
4,000K				
2060655	ASCT100 II DECO 2700 4K STD	2767	21	Standard
2060656	ASCT100 II DECO 2700 4K STD EMG	2767	23	Standard Emergency
2060657	ASCT100 II DECO 2700 4K DALI	2767	21	DALI
2060658	ASCT100 II DECO 2700 4K DALI EMG	2767	23	120
2060659	ASCT100 II DECO 2700 4K EMPRO	2767	23	120



4,000K 21W Round

Accessories

2028036

2028040

2028042

2028044

2028046

2028048

Ascent 100 Deco 160: Compatible Deco Accessories 160

Code	Description
2059236	Asct100 Kometa 160 (New)
2028040	IP44 Clear Diffuser 160
2028042	IP44 Opal Diffuser 160
2028044	IP44 Opal Diffuser 160
2028046	IIP44 Wallwasher 160
2028048	Opal Dropped Ring 160

Prince's Trust, London, UK

Ascent 50 an efficient, super shallow LED downlighter with a depth of only 50mm, available in round die cast aluminium housing it provides the perfect lighting solution for circulation spaces and areas with shallow recess depth.

Ascent 50

- Super slim highly efficient LED downlight with only 50mm recessing depth
- A true economic and efficient replacement for existing CF-L downlights
- Provides efficiency up to 122 lumens per circuit watt
- Long life, 50,000 hours plus @ 70% luminous flux, fit and forget maintenance free lighting solution
- 4,000K options typical CRI Ra80
- Round Die Cast Housing
- Uniformity of design with the same housing 120mm aperture for all options

LIGHT SOURCE INCLUDED

IP44* IP54* 850°C

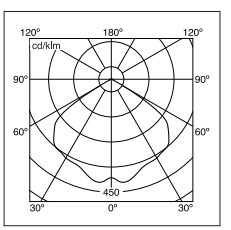
with accessories

Ascent 50 1,700 lm 14W Round

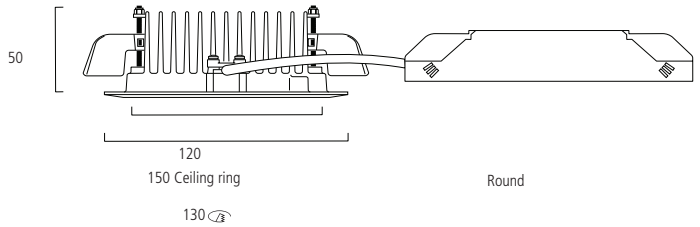
Code	Description	Type
2053870	Ascent 50 1700 STD	3,000K
2053871	Ascent 50 1700 STD Emg	3,000K
2053872	Ascent 50 1700 DALI	3,000K
2053873	Ascent 50 1700 DALI Emg	3,000K

Ascent 50 1,730lm 14W Round

Code	Description	Type
2053874	Ascent 50 1730 STD	4,000K
2053875	Ascent 50 1730 STD Emg	4,000K
2053876	Ascent 50 1730 DALI	4,000K
2053877	Ascent 50 1730 DALI Emg	4,000K



4,000K 1,730lm Round



Luminaire Description 4,000K	Fixture Lumens	Total Circuit Watts	Lumens per Circuit Watt
Ascent 50 High Output	1,730	14W	122

Ascent 50 Accessories 120mmØ Accessories Order separately

Code	Description	Colour
2028033	Clear Glass IP44 Cover	White
2028035	Etched Glass IP44 Cover	White
2039012	Polycarbonate IP54 Cover	White

Technology Comparison Table

Description		Fixture Lumens	TOTAL W	Total lm/W
Ascent 50 LED		1,730	14	122
LED 100 TE	1 x 26W	1,188	27	44

Musselborough Hospital, U.K.

Control Gear:	Standard: Integral electronic x 2 DALI Dimmable: Integral electronic x 2
Emergency:	Integral, 3hr maintained
Reflector:	Central Downlight: Aluminium, anodised Ambient Reflector: Aluminium, powder coated white RAL 9016
Ambient Diffuser:	Polycarbonate, opal

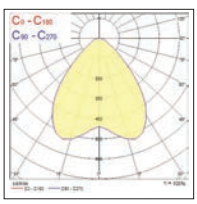
- Kometa looks and performs like no other lighting fixture by combining ambient lighting with downlighting in a simple stylish luminaire
- It provides a complete lighting solution, without the need to supplement the installation with uplighters and wallwashers, by providing a ceiling illuminance which is 30% of working plane levels and a wall illuminance equivalent to 50%
- This innovative concept provides a good light ratio on all room surfaces.

Kometa 300 LED

- An innovative circular 300 mm diameter luminaire
- Combines ambient and downlight technologies in one
- Ultimate flexibility with independent switching and dimming options
- Kometa can be housed within a 600 x 600 ceiling tile using lay in tile accessory
- Provides optimum visual conditions ensuring light falls on all surfaces
- Emergency versions available
- Kometa plasterboard ceiling accessory available
- Long life, 50,000 hours plus at 70% luminous flux.

LIGHT SOURCE INCLUDED

Code	Description	Lumen output (lm)	Type
3,000K			
2038585	KOMETA 300 LED 3,400lm 3,000K	3,400	Twin Ballast
2038593	KOMETA 300 LED 3,400lm 3,000K DALI	3,400	Twin Ballast DALI
4,000K			
2038586	KOMETA 300 LED 3500lm 4,000K	3,565	Twin Ballast
2038587	KOMETA 300 LED 3500lm 4,000K EM3	3,565	Twin Ballast Emergency
2038594	KOMETA 300 LED 3500lm 4,000K DALI	3,565	Twin Ballast DALI
2038595	KOMETA 300 LED 3500lm 4,000K DALI EMPRO	3,565	Twin Ballast EMPRO



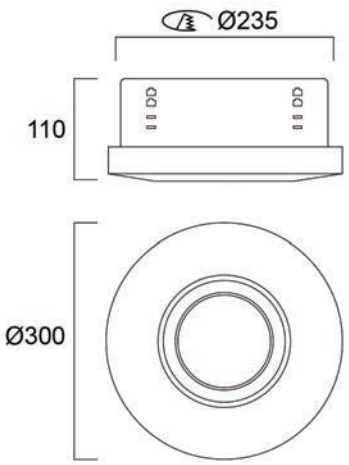
Kometa 300 with Tile Accessory

Accessories

Code	Description
2038590	KOMETA 600X600 LAY-IN TILE ACCESSORY
2038592	KOMETA PULL-UP PLASTERBOARD ACCESSORY

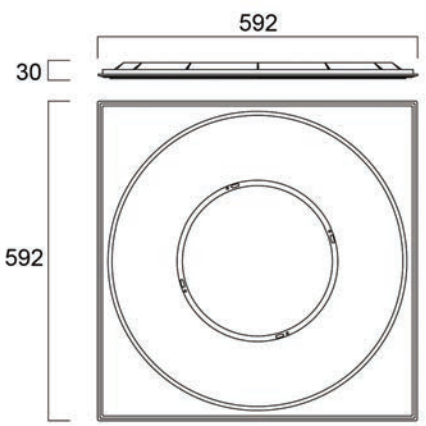
Kometa 300 LED - Performance Matrix

Fixture	4,000K Ambient + Downlight	4,000K Downlight only	4,000K Ambient only
Fixture Lumens	3,565lm	2,521lm	1,044lm
Actual Power (W)	36W	20W	16W
Luminaire efficacy (lm/W)	99lm/w	124lm/w	65lm/w

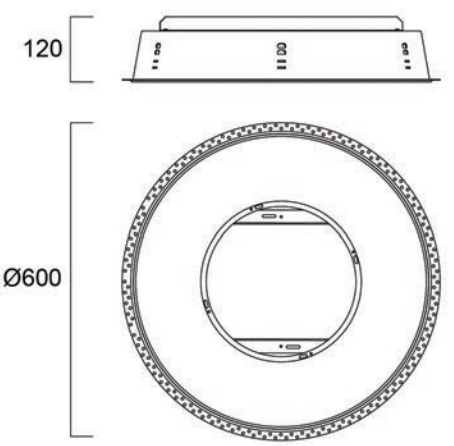


Dimensions (mm)

Kometa 300 Lay In Tile



Kometa 300 Plasterboard Accessory



Derby Academy, U.K.

KKS Bridgepoint, U.K.

The Beacon Recessed Adjustable spotlight introduces a new lighting dimension to retail and display space. It meets the tough demands of these environments by providing high quality colour rendering , zero UV/IR radiation, reduction in maintenance costs and an energy saving solution over existing lamp sources such as low voltage halogen.

Beacon Recessed Adjustable II

Round, White

Adjustable Barn Doors

- Unique adjustability using soft-touch ring, enables beam control from a tight 8º spot to a 55º flood
- High colour rendering index, Ra 97 typical with R9 value (saturated reds) at 90 ; ideal for museum and gallery applications
- 35 degree tilt from ceiling to adjust beam direction
- 21W power consumption, up to 1,150lm, 4,000K
- Compatible with Beacon Muse II accessories

LIGHT SOURCE INCLUDED

SYLSMART

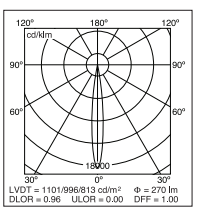
SylSmart versions, please see SylSmart section for details

Remote Dimmable 3,000K

Code	Description	Type	Colour
2052982	Beacon Recessed Adjustable SSC01	Round	White

Switched / DALI Dimmable 3,000K

Code	Description	Type	Colour
2052980	Beacon Recessed Adjustable	Round	White



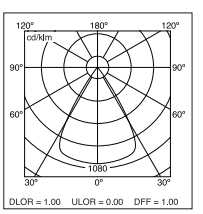
Spot - 3,000K

Remote Dimmable 4,000K

Code	Description	Type	Colour
2052983	Beacon Recessed Adjustable SSC01	Round	White

Switched / DALI Dimmable 4,000K

Code	Description	Type	Colour
2052981	Beacon Recessed Adjustable	Round	White

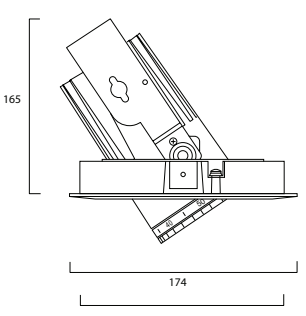


Flood - 4,000K

Accessories

Code	Description
2059760	Elongation Lens
2052940	Adjustable Barn Doors

Round



Dimensions (mm)

Cafe 1809, Hildenborough, UK

Design Museum, U.K.

ACCENT DOWNLIGHTS

Concord

207 Myriad V

210 Myriad Deco

221 Myriad Adjustable

SYLVANIA

227 Ocullo LED V2

231 Signo LED

Jermyn Street, London

The Myriad range is designed to create innovative interior lighting and is ideal for a range of applications - offering the ability to mix a number of different colour temperature LED light sources with a range of reflector and bezel colours - giving a uniform and yet flexible appearance throughout a scheme.

Myriad V provides a range of Trim and Trimless versions with a choice of decorative accessories for the IP20 versions and the option for plaster up kits for a smooth finish, both IP20 and IP65.

Myriad Deco allows for a choice of black, silver or white reflectors and a choice of bezel colours in both Round and Square versions.

The Myriad range has a long life, 50,000 hours plus at 70% luminous flux.

Myriad V

Trimless (plaster up version)

Trim

- Accent downlight range up to 1,114lm 3,000K, up to 1,093lm, with 109lm/w efficiency 4,000K
- Total circuit power 10W
- 30 degree beam angle
- Architectural accessories offering a choice of visual effects
- Choice of colour temperatures warm 2,700K, 3,000K and neutral 4,000K
- Emergency versions pass through cut out
- Flush plaster up accessory ring for clean ceiling lines and smooth finish
- For plaster up version order Myriad V LED + Plaster up accessory
- Long life up to 50K hours, fit and forget maintenance free lighting solution
- For housing only version, order Myriad V LED (not applicable for IP65 versions) + accessory

LIGHT SOURCE INCLUDED

IP65 IP44*

*IP20 housing with selected accessories

30° Housing Only

(order accessory seperately)

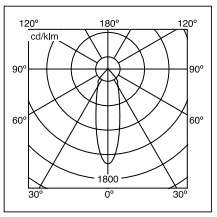
Code	Description
2,700K	
2057921	Electronic / Phase Dimmable
2057922	DALI Dimmable
2057923	Electronic / Phase Dim Emergency
2057924	DALI Emergency
3,000K	
2049513	Electronic / Phase Dimmable
2049519	DALI Dimmable
2049514	Electronic / Phase Dim Emergency
2049520	DALI Emergency
4,000K	
2049515	Electronic / Phase Dimmable
2049521	DALI Dimmable
2049516	Electronic / Phase Dim Emergency
2049522	DALI Emergency

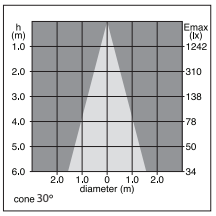
30° IP65 Glass White Bezel

Code	Description
2,700K	
2057925	Electronic / Phase Dimmable
2057926	DALI Dimmable
2057927	Electronic / Phase Dim Emergency
2057928	DALI Emergency
3,000K	
2049525	Electronic / Phase Dimmable
2049537	DALI Dimmable
2049526	Electronic / Phase Dim Emergency
2049538	DALI Emergency
4,000K	
2049529	Electronic / Phase Dimmable
2049541	DALI Dimmable
2049530	Electronic / Phase Dim Emergency
2049542	DALI Emergency

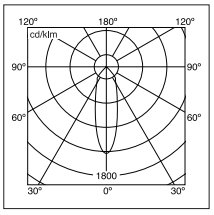
30° IP65 Glass Chrome Bezel

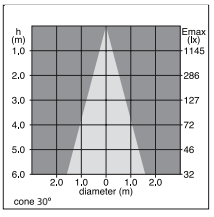
Code	Description
2,700K	
2057929	Electronic / Phase Dimmable
2057930	DALI Dimmable
2057931	Electronic / Phase Dim Emergency
2057932	DALI Emergency
3,000K	
2049527	Electronic / Phase Dimmable
2049539	DALI Dimmable
2049528	Electronic / Phase Dim Emergency
2049540	DALI Emergency
4,000K	
2049531	Electronic / Phase Dimmable
2049543	DALI Dimmable
2049532	Electronic / Phase Dim Emergency
2049544	DALI Emergency





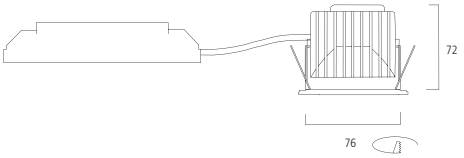
3,000K 30° Housing only





4,000K 30° IP65

	Colour Temp (K)	CRI	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
MYRIAD ROUND HOUSING ONLY	2700	85	791	10	79
MYRIAD ROUND IP65 GLASS WITH BEZEL	2700	85	755	10	76
MYRIAD ROUND HOUSING ONLY	3000	85	1114	10	111
MYRIAD ROUND IP65 GLASS WITH BEZEL	3000	85	1069	10	107
MYRIAD ROUND HOUSING ONLY	4000	85	1093	10	109
MYRIAD ROUND IP65 GLASS WITH BEZEL	4000	85	1050	10	105



Dimensions (mm)

Accessories

Kometa Ring

Bezel + Floating Micro Glass Stack

Bezel + Cover Glass

Bezel + Opal Dish

Bezel + Floating Clear Glass

Bezel + Metal Ring

Bezel + Kick Deflector

Bezel + Frosted Shallow Ring

Bezel + Frosted Glow Ring

2056913

2056911

2056912

Decorative Accessories – round

Code	Description	Colour
2049561	Kometa Ring	White
2049565	Bezel + Floating Micro Glass Stack	White
2017359	Bezel + Cover Glass	White
2017375	Bezel + Opal Dish	White
2017401	Bezel + Floating Clear Glass	White
2017378	Bezel + Metal Ring	White
2017398	Bezel + Kick Deflector	White
2017362	Bezel + Frosted Shallow Ring	White
2017369	Bezel + Frosted Deep Ring	White
2017370	Bezel + Blue Deep Ring	White
2017358	Bezel + Cover Glass	Silver
2017374	Bezel + Opal Dish	Silver
2017400	Bezel + Floating Clear Glass	Silver
2017361	Bezel + Frosted Shallow Ring	Silver
2017368	Bezel + Blue Deep Ring	Silver
2017357	Bezel + Cover Glass	Bright Chrome
2017373	Bezel + Opal Dish	Bright Chrome
2017365	Bezel + Frosted Deep Ring	Bright Chrome
2017364	Bezel + Frosted Deep Ring	Gold

These accessories will not function with IP65 models.

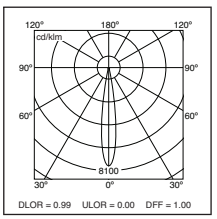
Plaster up Accessories for IP65 versions

Code	Description
2056911	(Silver) shallow trim to fit with bezel
2056912	(White) shallow trim to fit with bezel
2056913	(Black) shallow trim to fit with bezel

OPTICAL Accessories

Code	Description	Colour
2052730	Accent spot 10˚ lens accessory	White
2052731	Accent spot 10˚ lens accessory	Silver
2052732	Accent spot 10˚ lens accessory	Chrome

These accessories will not function with IP65 models.



Myriad Deco Fixed - Spot 28 degrees

Silver Reflector

White Reflector

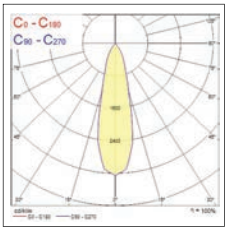
- 10W, CRI 85 LED light engine mimic MR16 50W perfect for domestic installations
- Offers Silver, White reflectors to match any interior
- 2,700K colour temperature offering (Amber Warm White) perfect for domestic installations. Plus 3000K (Warm White) and 4,000K (Neutral White)
- Order bezel trim seperately

LIGHT SOURCE INCLUDED

IP20

IP20 Housing Only - Spot 2,700K

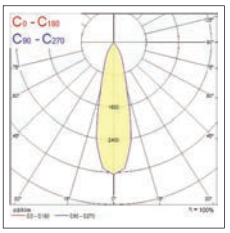
Code	Description	Reflector Colour
2057957	Electronic / Phase Dimmable	Silver
2057958	DALI Dimmable	Silver
2057959	Electronic / Phase Dim Emergency	Silver
2057960	DALI Emergency	Silver
2057981	Electronic / Phase Dimmable	White
2057982	DALI Dimmable	White
2057983	Electronic / Phase Dim Emergency	White
2057984	DALI Emergency	White



2,700K

IP20 Housing Only - Spot 3,000K

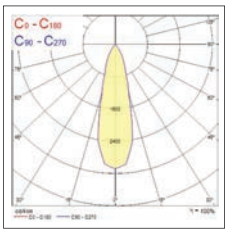
Code	Description	Reflector Colour
2057961	Electronic / Phase Dimmable	Silver
2057962	DALI Dimmable	Silver
2057963	Electronic / Phase Dim Emergency	Silver
2057964	DALI Emergency	Silver
2057985	Electronic / Phase Dimmable	White
2057986	DALI Dimmable	White
2057987	Electronic / Phase Dim Emergency	White
2057988	DALI Emergency	White



3,000K

IP20 Housing Only - Spot 4,000K

Code	Description	Reflector Colour
2057965	Electronic / Phase Dimmable	Silver
2057966	DALI Dimmable	Silver
2057967	Electronic / Phase Dim Emergency	Silver
2057968	DALI Emergency	Silver
2057989	Electronic / Phase Dimmable	White
2057990	DALI Dimmable	White
2057991	Electronic / Phase Dim Emergency	White
2057992	DALI Emergency	White



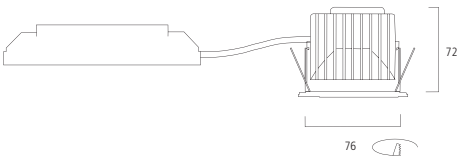
4,000K

Trim (Bezel) Accessories

Order Separately to fit IP20 Housing

Code	Description	Reflector Colour
2059059	White Trim (Bezel)	White
2059060	Silver Trim (Bezel)	Silver

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
2,700K Silver Reflector	1286	10	129
3,000K Silver Reflector	1119	10	112
4,000K Silver Reflector	1170	10	117



Dimensions (mm)

Silver Reflector

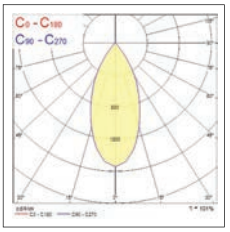
White Reflector

- 10W, CRI 85 LED light engine mimic MR16 50W perfect for domestic installations
- Offers Silver, White reflectors to match any interior
- New 2,700K colour temperature offering (Amber Warm White) perfect for domestic installations. Plus 3,000K (Warm White) and 4,000K (Neutral White)
- Order bezel trim seperately

LIGHT SOURCE INCLUDED

IP20 Housing Only - Flood 2,700K

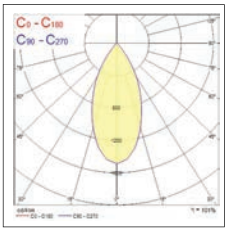
Code	Description	Reflector Colour
2057969	Electronic / Phase Dimmable	Silver
2057970	DALI Dimmable	Silver
2057971	Electronic / Phase Dim Emergency	Silver
2057972	DALI Emergency	Silver
2057993	Electronic / Phase Dimmable	White
2057994	DALI Dimmable	White
2057995	Electronic / Phase Dim Emergency	White
2057996	DALI Emergency	White



2,700K

IP20 Housing Only - Flood 3,000K

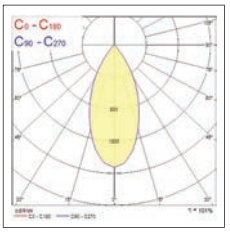
Code	Description	Reflector Colour
2057973	Electronic / Phase Dimmable	Silver
2057974	DALI Dimmable	Silver
2057975	Electronic / Phase Dim Emergency	Silver
2057976	DALI Emergency	Silver
2057997	Electronic / Phase Dimmable	White
2057998	DALI Dimmable	White
2057999	Electronic / Phase Dim Emergency	White
2058000	DALI Emergency	White



3,000K

IP20 Housing Only - Flood 4,000K

Code	Description	Reflector Colour
2057977	Electronic / Phase Dimmable	Silver
2057978	DALI Dimmable	Silver
2057979	Electronic / Phase Dim Emergency	Silver
2057980	DALI Emergency	Silver
2058001	Electronic / Phase Dimmable	White
2058002	DALI Dimmable	White
2058003	Electronic / Phase Dim Emergency	White
2058004	DALI Emergency	White



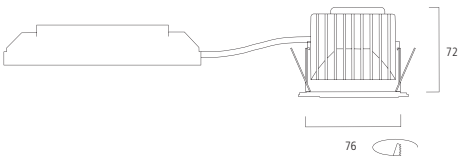
4,000K

Trim (Bezel) Accessories

Order Separately to fit IP20 Housing

Code	Description	Reflector Colour
2059059	White Trim (Bezel)	White
2059060	Silver Trim (Bezel)	Silver

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
2,700K Silver Reflector	1167	10	117
3,000K Silver Reflector	1037	10	104
4,000K Silver Reflector	1023	10	102



Dimensions (mm)

Myriad Deco - IP65 Spot White Bezel

Silver Reflector

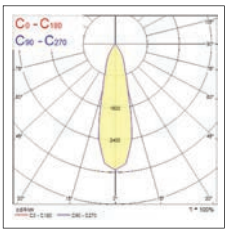
White Reflector

- 10W, CRI 85 LED light engine mimic MR16 50W perfect for domestic installations
- Silver, White reflectors to match any interior
- New 2,700K colour temperature offering (Amber Warm White) perfect for domestic installations.
- 3,000K (Warm White) and 4,000K (Neutral White)
- 28 degree beam

LIGHT SOURCE INCLUDED

IP65 Spot with White Bezel 2,700K

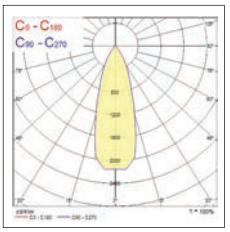
Code	Description	Reflector Colour
2059237	Electronic / Phase Dimmable	Silver
2059238	DALI Dimmable	Silver
2059239	Electronic / Phase Dim Emergency	Silver
2059240	DALI Emergency	Silver
2058856	Electronic / Phase Dimmable	White
2058857	DALI Dimmable	White
2058858	Electronic / Phase Dim Emergency	White
2058859	DALI Emergency	White



2,700K

IP65 Spot with White Bezel 3,000K

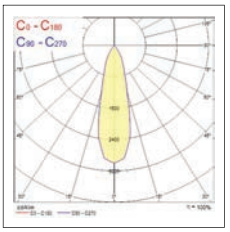
Code	Description	Reflector Colour
2059241	Electronic / Phase Dimmable	Silver
2059242	DALI Dimmable	Silver
2059243	Electronic / Phase Dim Emergency	Silver
2059244	DALI Emergency	Silver
2058860	Electronic / Phase Dimmable	White
2058861	DALI Dimmable	White
2058862	Electronic / Phase Dim Emergency	White
2058863	DALI Emergency	White



3,000K

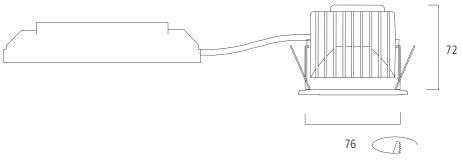
IP65 Spot with White Bezel 4,000K

Code	Description	Reflector Colour
2059245	Electronic / Phase Dimmable	Silver
2059246	DALI Dimmable	Silver
2059247	Electronic / Phase Dim Emergency	Silver
2059248	DALI Emergency	Silver
2058864	Electronic / Phase Dimmable	White
2058865	DALI Dimmable	White
2058866	Electronic / Phase Dim Emergency	White
2058867	DALI Emergency	White



4,000K

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
2,700K Silver Reflector	1241	10	124
3,000K Silver Reflector	1106	10	111
4,000K Silver Reflector	1132	10	113



Dimensions (mm)

Silver Reflector

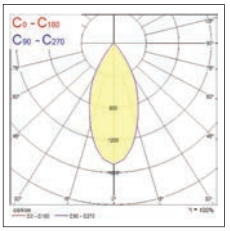
White Reflector

- 10W, CRI 85 LED light engine mimic MR16 50W perfect for domestic installations
- Offers Silver, White reflectors to match any interior
- New 2,700K colour temperature offering (Amber Warm White) perfect for domestic installations. Plus 3,000K (Warm White) and 4,000K (Neutral White)
- 46 degree beam

LIGHT SOURCE INCLUDED

IP65 Flood with White Bezel 2,700K

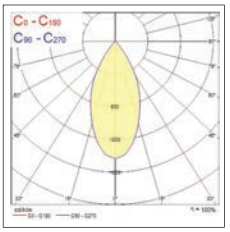
Code	Description	Reflector Colour
2059249	Electronic / Phase Dimmable	Silver
2059250	DALI Dimmable	Silver
2059251	Electronic / Phase Dim Emergency	Silver
2059252	DALI Emergency	Silver
2058868	Electronic / Phase Dimmable	White
2058869	DALI Dimmable	White
2058870	Electronic / Phase Dim Emergency	White
2058871	DALI Emergency	White



2,700K

IP65 Flood with White Bezel 3,000K

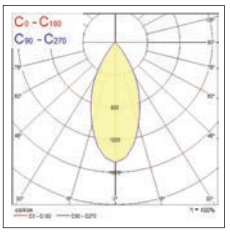
Code	Description	Reflector Colour
2059253	Electronic / Phase Dimmable	Silver
2059254	DALI Dimmable	Silver
2059255	Electronic / Phase Dim Emergency	Silver
2059256	DALI Emergency	Silver
2058872	Electronic / Phase Dimmable	White
2058873	DALI Dimmable	White
2058874	Electronic / Phase Dim Emergency	White
2058875	DALI Emergency	White



3,000K

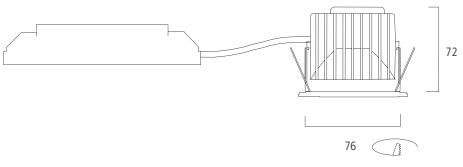
IP65 Flood with White Bezel 4,000K

Code	Description	Reflector Colour
2059257	Electronic / Phase Dimmable	Silver
2059258	DALI Dimmable	Silver
2059259	Electronic / Phase Dim Emergency	Silver
2059260	DALI Emergency	Silver
2058876	Electronic / Phase Dimmable	White
2058877	DALI Dimmable	White
2058878	Electronic / Phase Dim Emergency	White
2058879	DALI Emergency	White



4,000K

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
2,700K Silver Reflector	1128	10	113
3,000K Silver Reflector	988	10	99
4,000K Silver Reflector	977	10	98



Dimensions (mm)

Myriad Deco - IP65 Spot with Chrome Bezel

Silver Reflector

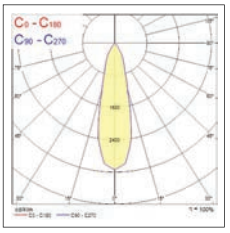
White Reflector

- IP65 10W, CRI 85 LED light engine mimic MR16 50W perfect for domestic installations
- Offers Silver, White reflectors to match any interior
- New 2,700K colour temperature offering (Amber Warm White) perfect for domestic installations.
- 3,000K (Warm White) and 4,000K (Neutral White)
- 28 degree beam

LIGHT SOURCE INCLUDED

IP65 with Chrome Bezel - Spot 2,700K

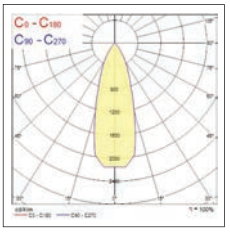
Code	Description	Reflector Colour
2058904	Electronic / Phase Dimmable	Silver
2058905	DALI Dimmable	Silver
2058906	Electronic / Phase Dim Emergency	Silver
2058907	DALI Emergency	Silver
2058928	Electronic / Phase Dimmable	White
2058929	DALI Dimmable	White
2058930	Electronic / Phase Dim Emergency	White
2058931	DALI Emergency	White



2,700K

IP65 with Chrome Bezel - Spot 3,000K

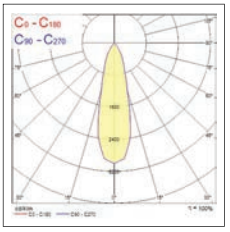
Code	Description	Reflector Colour
2058908	Electronic / Phase Dimmable	Silver
2058909	DALI Dimmable	Silver
2058910	Electronic / Phase Dim Emergency	Silver
2058911	DALI Emergency	Silver
2058932	Electronic / Phase Dimmable	White
2058933	DALI Dimmable	White
2058934	Electronic / Phase Dim Emergency	White
2058935	DALI Emergency	White



3,000K

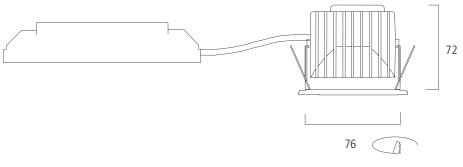
IP65 with Chrome Bezel - Spot 4,000K

Code	Description	Reflector Colour
2058912	Electronic / Phase Dimmable	Silver
2058913	DALI Dimmable	Silver
2058914	Electronic / Phase Dim Emergency	Silver
2058915	DALI Emergency	Silver
2058936	Electronic / Phase Dimmable	White
2058937	DALI Dimmable	White
2058938	Electronic / Phase Dim Emergency	White
2058939	DALI Emergency	White



4,000K

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
2,700K Silver Reflector	1241	10	124
3,000K Silver Reflector	1106	10	111
4,000K Silver Reflector	1132	10	113



Dimensions (mm)

Silver Reflector

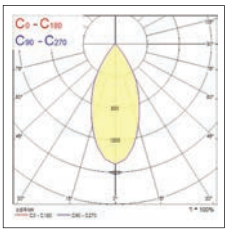
White Reflector

- IP65 10W, CRI 85 LED light engine mimic MR16 50W perfect for domestic installations
- Offers Silver, White reflectors to match any interior
- New 2,700K colour temperature offering (Amber Warm White) perfect for domestic installations.
- 3,000K (Warm White) and 4,000K (Neutral White)
- 46 degree beam

LIGHT SOURCE INCLUDED

IP65 with Chrome Bezel - Flood 2,700K

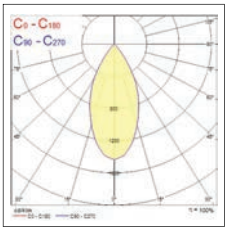
Code	Description	Reflector Colour
2058916	Electronic / Phase Dimmable	Silver
2058917	DALI Dimmable	Silver
2058918	Electronic / Phase Dim Emergency	Silver
2058919	DALI Emergency	Silver
2058940	Electronic / Phase Dimmable	White
2058941	DALI Dimmable	White
2058942	Electronic / Phase Dim Emergency	White
2058943	DALI Emergency	White



2,700K

IP65 with Chrome Bezel - Flood 3,000K

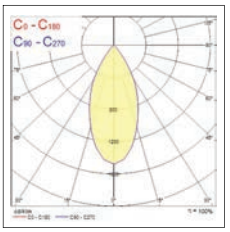
Code	Description	Reflector Colour
2058920	Electronic / Phase Dimmable	Silver
2058921	DALI Dimmable	Silver
2058922	Electronic / Phase Dim Emergency	Silver
2058923	DALI Emergency	Silver
2058944	Electronic / Phase Dimmable	White
2058945	DALI Dimmable	White
2058946	Electronic / Phase Dim Emergency	White
2058947	DALI Emergency	White



3,000K

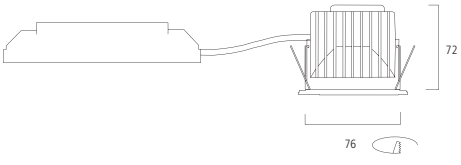
IP65 with Chrome Bezel - Flood 4,000K

Code	Description	Reflector Colour
2058924	Electronic / Phase Dimmable	Silver
2058925	DALI Dimmable	Silver
2058926	Electronic / Phase Dim Emergency	Silver
2058927	DALI Emergency	Silver
2058948	Electronic / Phase Dimmable	White
2058949	DALI Dimmable	White
2058950	Electronic / Phase Dim Emergency	White
2058951	DALI Emergency	White



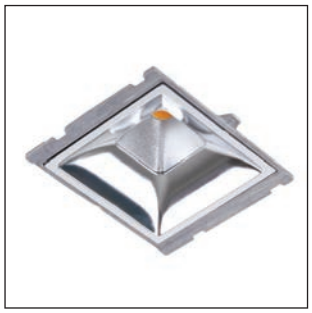
4,000K

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
2,700K Silver Reflector	1128	10	113
3,000K Silver Reflector	988	10	99
4,000K Silver Reflector	977	10	98



Dimensions (mm)

Myriad V LED Square - Silver Reflector



- Square decorative downlight with a silver reflector and choice of additional accessories
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- IP44 with the appropriate accessory
- New range of Architectural accessories each providing a different lit dimension
- Choice of colour temperatures 3,000K, 4,000K
- Luminaires supplied complete with LED drivers
- Emergency versions pass through cut out
- New completely flush plaster up accessory ring for clean ceiling lines and smooth finish
- Total circuit power 10W, CRI 85
- For bezel version, order Myriad V LED Square + coloured bezel accessory
- For plaster up version, order Myriad V LED Square + Plaster up accessory
- For plaster up versions, order corresponding/relevant plaster up accessory e.g.

  IP65 model - 2057925 + 2056912

  Housing only - 2057933 + 2056908

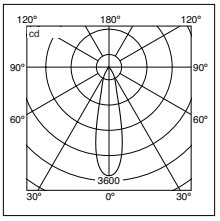
LIGHT SOURCE INCLUDED

IP44 IP20

with accessories

Myriad Square Spot - Housing Only

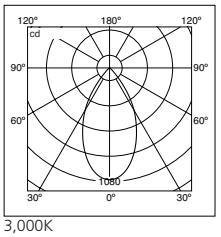
Code	Description
Myriad Square Spot - Silver Reflector 3,000K	
2056274	Electronic / Phase Dimmable
2056276	DALI Dimmable
2056275	Electronic / Phase Dim Emergency
2056277	DALI Emergency
Myriad Square Spot - Silver Reflector 4,000K	
2056280	Electronic / Phase Dimmable
2056282	DALI Dimmable
2056281	Electronic / Phase Dim Emergency
2056283	DALI Emergency



3,000K

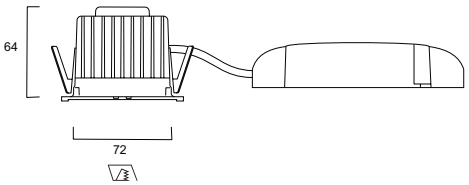
Myriad Square Flood - Housing Only

Code	Description
Myriad Square Flood - Silver Reflector 3,000K	
2056310	Electronic / Phase Dimmable
2056312	DALI Dimmable
2056311	Electronic / Phase Dim Emergency
2056313	DALI Emergency
Myriad Square Flood - Silver Reflector 4,000K	
2056316	Electronic / Phase Dimmable
2056318	DALI Dimmable
2056317	Electronic / Phase Dim Emergency
2056319	DALI Emergency



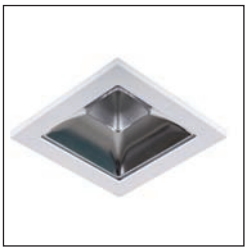
3,000K

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
3,000K Spot	1092	10	109
4,000K Spot	1084	10	108
3,000K Flood	1165	10	117
4,000K Flood	1142	10	114



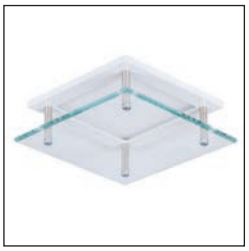
Dimensions (mm)

Accessories



2056274 + 2056901

2056907



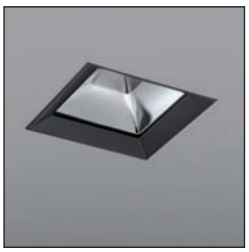
2056903

2056905

2056906

Myriad Square Accessories

Code	Description
2056901	MYRIAD White Bezel Square Only
2056902	MYRIAD Silver Bezel Square Only
2056903	MYRIAD White Bezel Square+Float Glass
2056904	MYRIAD Silver Bezel Square+Float Glass
2056905	MYRIAD Kometa Square
2056906	MYRIAD White Bezel Dropped Square
2056907	MYRIAD Silver Bezel Dropped Square
2056488	MYRIAD White Bezel Square & Glass IP44
2056489	MYRIAD Silver Bezel Square & Glass IP44



2056274 + 2056910

2056316 + 2056908

Plaster Up Accessories

(Colour quoted applies to the trim only and not the reflector)

Code	Description
2056908	MYRIAD Plaster Up Square Silver trim
2056909	MYRIAD Plaster Up Square White trim
2056910	MYRIAD Plaster Up Square Black Trim

Myriad V LED Square IP65 Chrome Bezel - Silver Reflector

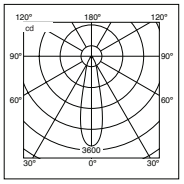
Chrome Bezel Silver Reflector

- New high output high efficiency LED downlight modules
- IR/UV - free light source without heat radiation
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Dimmable options including DALI as standard
- IP65
- Choice of colour temperatures: 3,000K and 4,000K
- Luminaires supplied complete with LED driver
- Emergency versions passes through cut out
- Total circuit power 10W, CRI 85

LIGHT SOURCE INCLUDED

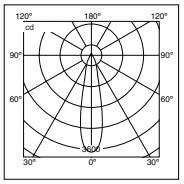
Myriad Square - IP65 Chrome Bezel

Code	Description
Myriad Square Spot - IP65 Housing Silver Reflector 3,000K	
2056418	Electronic / Phase Dimmable
2056420	DALI Dimmable
2056419	Electronic / Phase Dim Emergency
2056421	DALI Emergency



3,000K

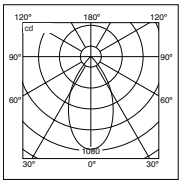
Myriad Square Spot - IP65 Housing Silver Reflector 4,000K	
2056424	Electronic / Phase Dimmable
2056426	DALI Dimmable
2056425	Electronic / Phase Dim Emergency
2056427	DALI Emergency



4,000K

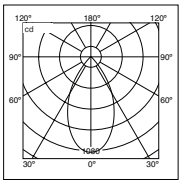
Myriad Square Flood - IP65 Chrome Bezel

Code	Description
Myriad Square Flood - IP65 Housing Silver Reflector 3,000K	
2056454	Electronic / Phase Dimmable
2056456	DALI Dimmable
2056455	Electronic / Phase Dim Emergency
2056457	DALI Emergency



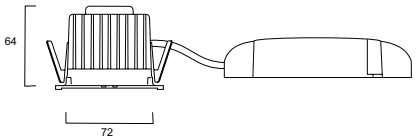
3,000K

Myriad Square Flood - IP65 Housing Silver Reflector 4,000K	
2056460	Electronic / Phase Dimmable
2056462	DALI Dimmable
2056461	Electronic / Phase Dim Emergency
2056463	DALI Emergency



4,000K

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
3,000K Spot	1032	10	103
4,000K Spot	1054	10	105
3,000K Flood	1105	10	111
4,000K Flood	1122	10	112



Dimensions (mm)

Myriad V LED Square IP65 White Bezel - Silver Reflector

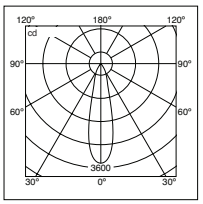
White Bezel Silver Reflector

- New high output high efficiency LED downlight modules
- IR/UV - free light source without heat radiation
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Dimmable options including DALI as standard
- IP65
- Choice of colour temperatures: 3,000K and 4,000K
- Luminaires supplied complete with LED driver
- Emergency versions passes through cut out
- Total circuit power 10W, CRI 85

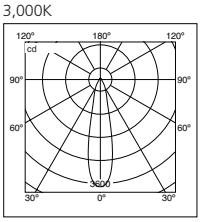
LIGHT SOURCE INCLUDED

Myriad Square - IP65 White Bezel

Code	Description
Myriad Square Spot - IP65 Housing Silver Reflector 3,000K	
2056346	Electronic / Phase Dimmable
2056348	DALI Dimmable
2056347	Electronic / Phase Dim Emergency
2056349	DALI Emergency
Myriad Square Spot - IP65 Housing Silver Reflector 4,000K	
2056352	Electronic / Phase Dimmable
2056354	DALI Dimmable
2056353	Electronic / Phase Dim Emergency
2056355	DALI Emergency



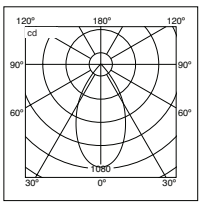
3,000K



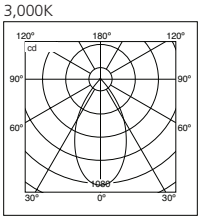
4,000K

Myriad Square Flood - IP65 White Bezel

Code	Description
Myriad Square Flood - IP65 Housing Silver Reflector 3,000K	
2056382	Electronic / Phase Dimmable
2056384	DALI Dimmable
2056383	Electronic / Phase Dim Emergency
2056385	DALI Emergency
Myriad Square Flood - IP65 Housing Silver Reflector 4,000K	
2056388	Electronic / Phase Dimmable
2056390	DALI Dimmable
2056389	Electronic / Phase Dim Emergency
2056391	DALI Emergency

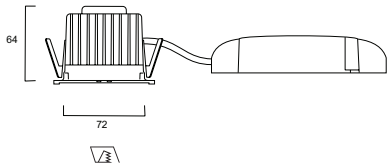


3,000K



4,000K

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
3,000K Spot	1032	10	103
4,000K Spot	1054	10	105
3,000K Flood	1105	10	111
4,000K Flood	1122	10	112



Dimensions (mm)

Myriad Adjustable the next generation in accent downlighting, has the ability to place light wherever you want to create ambience and drama. Ideal for a diverse range of applications, Myriad Adjustable is adjustable through 25° tilt and 360° rotation and features a wide 24° beam angle. Designed to be similar in appearance with other models in the Myriad range this offers uniformity within a lighting scheme.
The usual benefits of LED technology apply here in the form of long life, low maintainance and high quality of light

Myriad Adjustable

Myriad Adjustable - Round

White Housing, White Bezel

White Housing, Silver Bezel

Black Housing, White Bezel

Black Housing, Silver Bezel

- Unique adjustable LED accent downlight delivering warm and comforting light
- Place light where you need it with a 25° tilt angle
- 24° beam angle provides a rich beam of light
- Features efficient LED technology an ideal Halogen replacement
- 10 Watt Power Consumption
- Lumen output: 567lm (2,700K), 702lm (3,000K), 684lm (4,000K)
- CRI: 85
- Complimentary internal body and bezel colours
- Choice of versions White or Silver Bezels
- Ideal for high end residential solutions, receptions and hospitality

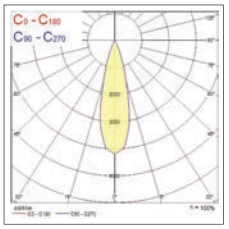
LIGHT SOURCE INCLUDED

IP20

LED

Myriad Adjustable Round - 2,700K

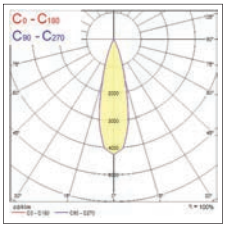
Code	Description	Housing Colour
2058029	Electronic / Phase Dimmable White Bezel	White
2058030	DALI Dimmable White Bezel	White
2058031	Electronic / Phase Dimmable Silver Bezel	White
2058032	DALI Dimmable Silver Bezel	White
2058033	Electronic / Phase Dimmable White Bezel	Black
2058034	DALI Dimmable White Bezel	Black
2058035	Electronic / Phase Dimmable Silver Bezel	Black
2058036	DALI Dimmable Silver Bezel	Black



2,700K

Myriad Adjustable Round - 3,000K

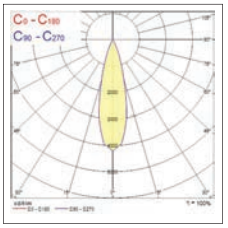
Code	Description	Housing Colour
2056208	Electronic / Phase Dimmable White Bezel	White
2056209	DALI Dimmable White Bezel	White
2056210	Electronic / Phase Dimmable Silver Bezel	White
2056211	DALI Dimmable Silver Bezel	White
2056216	Electronic / Phase Dimmable White Bezel	Black
2056217	DALI Dimmable White Bezel	Black
2056218	Electronic / Phase Dimmable Silver Bezel	Black
2056219	DALI Dimmable Silver Bezel	Black



3,000K

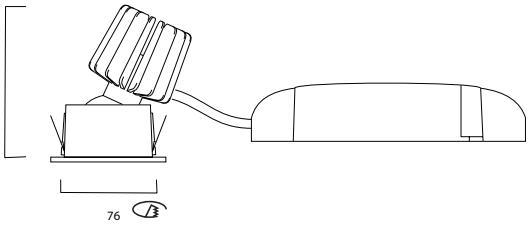
Myriad Adjustable Round - 4,000K

Code	Description	Housing Colour
2056212	Electronic / Phase Dimmable White Bezel	White
2056213	DALI Dimmable White Bezel	White
2056214	Electronic / Phase Dimmable Silver Bezel	White
2056215	DALI Dimmable Silver Bezel	White
2056220	Electronic / Phase Dimmable White Bezel	Black
2056221	DALI Dimmable White Bezel	Black
2056222	Electronic / Phase Dimmable Silver Bezel	Black
2056223	DALI Dimmable Silver Bezel	Black



4,000K

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
3,000K	702	10	70
4,000K	684	10	68



Dimensions (mm)

White Housing, White Bezel

White Housing, Silver Bezel

Black Housing, White Bezel

Black Housing, Silver Bezel

- Unique adjustable LED accent downlight delivering warm and comforting light
- Place light where you need it with a 25° tilt angle
- 24° beam angle provides a rich beam of light
- Features ultra efficient LED technology an ideal Halogen replacement
- 10 Watt Power Consumption
- Lumen output: 567lm (2,700K), 702lm (3,000K), 684lm (4,000K)
- CRI: 85
- Complimentary internal body and bezel colours
- Choice of versions, Silver or White bezels
- Ideal for high end residential solutions, receptions and hospitality

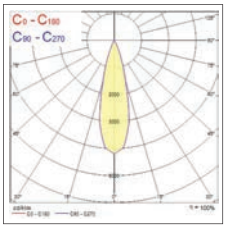
LIGHT SOURCE INCLUDED

IP20 360°

LED

Myriad Adjustable Square - 2,700K

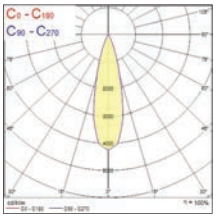
Code	Description	Housing Colour
2058037	Electronic / Phase Dimmable White Bezel	White
2058038	DALI Dimmable White Bezel	White
2058039	Electronic / Phase Dimmable Silver Bezel	White
2058040	DALI Dimmable Silver Bezel	White
2058041	Electronic / Phase Dimmable White Bezel	Black
2058042	DALI Dimmable White Bezel	Black
2058043	Electronic / Phase Dimmable Silver Bezel	Black
2058044	DALI Dimmable Silver Bezel	Black



2,700K

Myriad Adjustable Square - 3,000K

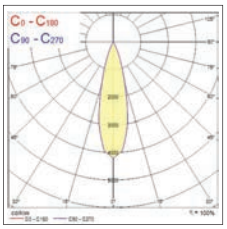
Code	Description	Housing Colour
2056224	Electronic / Phase Dimmable White Bezel	White
2056225	DALI Dimmable White Bezel	White
2056226	Electronic / Phase Dimmable Silver Bezel	White
2056227	DALI Dimmable Silver Bezel	White
2056232	Electronic / Phase Dimmable White Bezel	Black
2056233	DALI Dimmable White Bezel	Black
2056234	Electronic / Phase Dimmable Silver Bezel	Black
2056235	DALI Dimmable Silver Bezel	Black



3,000K

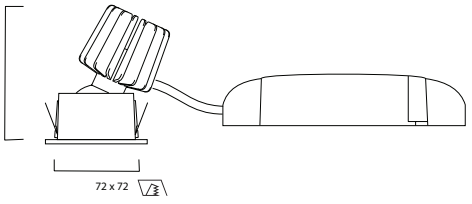
Myriad Adjustable Square - 4,000K

Code	Description	Housing Colour
2056228	Electronic / Phase Dimmable White Bezel	White
2056229	DALI Dimmable White Bezel	White
2056230	Electronic / Phase Dimmable Silver Bezel	White
2056231	DALI Dimmable Silver Bezel	White
2056236	Electronic / Phase Dimmable White Bezel	Black
2056237	DALI Dimmable White Bezel	Black
2056238	Electronic / Phase Dimmable Silver Bezel	Black
2056239	DALI Dimmable Silver Bezel	Black



4,000K

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
3,000K	702	10	70
4,000K	684	10	68



Dimensions (mm)

Myriad Adjustable - Twin

Black Housing, White Bezel

White Housing, White Bezel

Black Housing, White Bezel

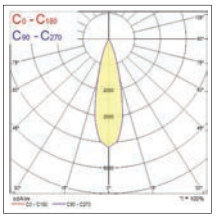
- Unique adjustable LED accent downlight delivering warm and comforting light
- Place light where you need it with a 25° tilt angle
- 24° beam angle provides a rich beam of light
- Features ultra efficient LED technology - an ideal Halogen replacement
- 20 Watt Power Consumption
- Lumen output: 1134lm (2,700K), 1404lm (3,000K), 1368lm (4,000K)
- CRI: 85
- Complimentary internal body and bezel colours
- Ideal for high end residential solutions, receptions and hospitality

LIGHT SOURCE INCLUDED

IP20 360°

Myriad Adjustable Twin - 2,700K

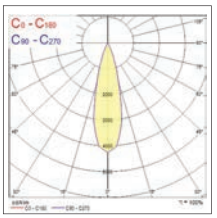
Code	Description	Housing Colour
2056242	Electronic / Phase Dimmable White Bezel	White
2056243	DALI Dimmable White Bezel	White
2056240	Electronic / Phase Dimmable White Bezel	Black
2056241	DALI Dimmable White Bezel	Black



Each 2,700K twin luminaire contains 2 of the above modules

Myriad Adjustable Twin - 3,000K

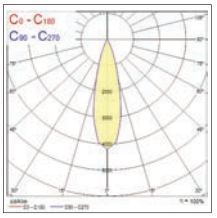
Code	Description	Housing Colour
2056246	Electronic / Phase Dimmable White Bezel	White
2056247	DALI Dimmable White Bezel	White
2056244	Electronic / Phase Dimmable White Bezel	Black
2056245	DALI Dimmable White Bezel	Black



Each 3,000K twin luminaire contains 2 of the above modules

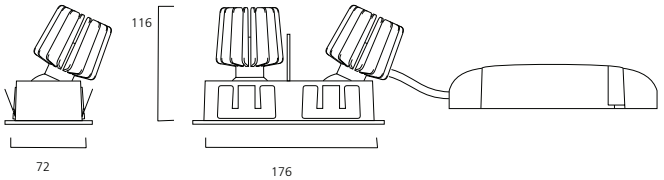
Myriad Adjustable Twin - 4,000K

Code	Description	Housing Colour
2056250	Electronic / Phase Dimmable White Bezel	White
2056251	DALI Dimmable White Bezel	White
2056248	Electronic / Phase Dimmable White Bezel	Black
2056249	DALI Dimmable White Bezel	Black



Each 4,000K twin luminaire contains 2 of the above modules

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
3,000K	1404	20	70
4,000K	1368	20	68



Dimensions (mm)

Black Housing, Silver Bezel

Black Housing, Silver Bezel

- Unique adjustable LED accent downlight delivering warm and comforting light
- Place light where you need it with a 25° tilt angle
- 24° beam angle provides a rich beam of light
- Features ultra efficient LED technology an ideal Halogen replacement
- 20 Watt Power Consumption
- Lumen output: 1,134lm (2,700K), 1,404lm (3,000K), 1,368lm (4,000K)
- CRI: 85
- Complimentary internal body and bezel colours
- Ideal for high end residential solutions, receptions and hospitality

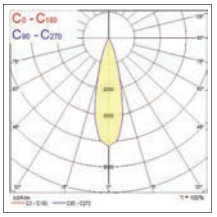
LIGHT SOURCE INCLUDED

IP20 360°

LED

Myriad Adjustable Twin - 2,700K

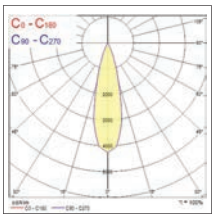
Code	Description	Housing Colour
2056255	Electronic / Phase Dimmable Silver Bezel	Black
2056256	DALI Dimmable Silver Bezel	Black
2056257	Electronic / Phase Dimmable Silver Bezel	White
2056258	DALI Dimmable Silver Bezel	White



Each 2,700K twin luminaire contains 2 of the above modules

Myriad Adjustable Twin - 3,000K

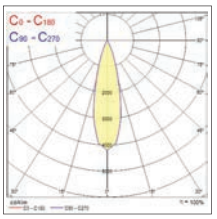
Code	Description	Housing Colour
2056259	Electronic / Phase Dimmable Silver Bezel	Black
2056260	DALI Dimmable Silver Bezel	Black
2056261	Electronic / Phase Dimmable Silver Bezel	White
2056262	DALI Dimmable Silver Bezel	White



Each 3,000K twin luminaire contains 2 of the above modules

Myriad Adjustable Twin - 4,000K

Code	Description	Housing Colour
2056263	Electronic / Phase Dimmable Silver Bezel	Black
2056264	DALI Dimmable Silver Bezel	Black
2056265	Electronic / Phase Dimmable Silver Bezel	White
2056266	DALI Dimmable Silver Bezel	White



Each 4,000K twin luminaire contains 2 of the above modules

2056252

2056253

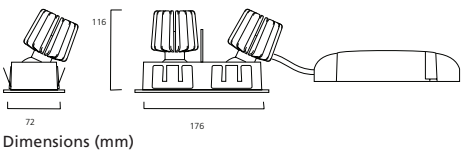
2056254

Myriad Adjustable Twin Accessories

Code	Description	Trim Colour
2056252	MYRD AD TWIN PL UP KIT	Black
2056253	MYRD AD TWIN PL UP KIT	White
2056254	MYRD AD TWIN PL UP KIT	Silver

2056242 + 2056253 (installed plaster up kit)

	Lumen output (lm)	Power Consumption (W)	Efficacy (lm/W)
3,000K	1404	20	70
4,000K	1368	20	68



Dimensions (mm)

SUPER
DRY
REPLAY

Control gear: Electronic
Finish: Powder coated white

- The Ocullo LED is `the' solution for lighting in retail whether it is for display lighting or wider general lighting
- With lumen packages ranging from 3,000lm to 4,325lm the Ocullo provides the quantity of light necessary to effectively illuminate a retail space (replacing a 35W and 50W HID lamp)
- With 90 CRI across the entire range as standard, Ocullo provides brilliant quality of light thereby providing true expressions of colour
- With the utilisation of the specially designed sparkle ring, the Ocullo LED can effectively replicate the sparkle effect observed with traditional HID solutions and with effective thermal management, the Ocullo can deliver high quality light at a very low wattage
- The Ocullo LED is available in Mono (Round and Square), Duo and Trio versions. It is offered with a host of beam angle accessories ensuring you have full freedom and flexibility in the lighting of the end user space

Ocullo LED V2

Ocullo LED V2 - Round

Ocullo LED Round

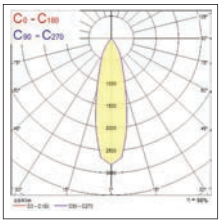
- Perfect fitting for the Retail channel with its high lumen package and quality of light
- Available with 3,045lm upto 4,325lm outputs allowing for the replacement of 35W and 50W CMI lamp sources
- 90CRI as standard delivering excellent light quality
- The use of an optimised bright aluminium design utilising a light distribution band we can replicate the sparkle effect of traditional CMI light sources
- High efficiency, will help you comply with Building regulations – up to 95lm/W (total system efficiency on Ocullo LED 4,000K version)
- Available in warm white (3,000K) or neutral white (4,000K)
- Supplied with LED driver (non-dimmable)
- Fully adjustable head allowing for gimbular adjustability
- Low maintenance cost with 50,000 hours life expectancy

LIGHT SOURCE INCLUDED

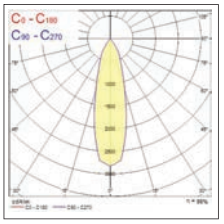
Round (White Bezel)

Code	Description
Mono	
3032404	Ocullo LED V2 RD Mono 3,000K
3032405	Ocullo LED V2 RD Mono 4,000K
Mono High Output	
3032408	Ocullo LED V2 RD Mono 3,000K HO
3032409	Ocullo LED V2 RD Mono 4,000K HO

4,000K = Neutral White, 3,000K = Warm White



Ocullo LED V2 Round



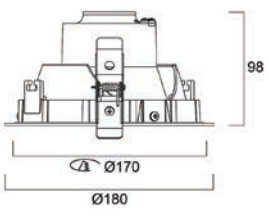
Ocullo LED V2 Round High Output

Accessories

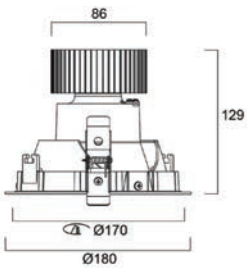
Code	Description
3033450	Ocullo LED Narrow Beam Reflector
3033451	Ocullo LED Wide Beam Reflector
3033452	Ocullo LED Flood Beam Reflector

Ocullo LED V2 Performance Matrix

Fixture	Mono	Mono HO
Colour Temperature	4,000K	4,000K
Fixture Lumens	3,139m	4,325lm
Actual Power	33W	48W
Lumens / Circuit Watt	95lm/w	90lm/w



Ocullo LED Round



Ocullo LED Round HO

Ocullo LED Square – Mono

Ocullo LED Square – Duo

Ocullo LED Square – Trio

- Perfect fitting for the Retail channel with its high lumen package and quality of light
- Available with 3,045lm upto 4,325lm (per head) outputs allowing for the replacement of 35W and 50W CMI lamp sources
- 90CRI as standard delivering excellent light quality
- The use of an optimised bright aluminium design utilising a light distribution band we can replicate the sparkle effect of traditional CMI light sources
- High efficiency, will help you comply with Building regulations – up to 95lm/W (total system efficiency on Ocullo LED 4,000K version)
- Available in warm white (3,000K) or neutral white (4,000K)
- Supplied with LED driver (non-dimmable)
- Fully adjustable head allowing for gimbular adjustability
- Low maintenance cost with 50,000 hours life expectancy.

LIGHT SOURCE INCLUDED

Square – Mono (White Bezel)

Code	Description
Mono	
3032431	Ocullo LED V2 SQ Mono 3,000K
3032432	Ocullo LED V2 SQ Mono 4,000K
Mono High Output	
3032443	Ocullo LED V2 SQ Mono 3,000K HO
3032444	Ocullo LED V2 SQ Mono 4,000K HO

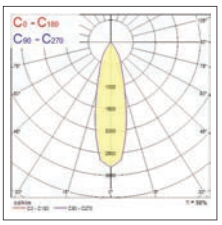
Square – Duo (White Bezel)

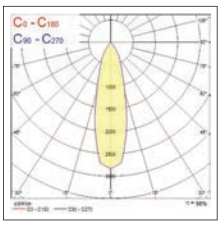
Code	Description
Duo	
3032433	Ocullo LED V2 SQ Duo 3,000K
3032434	Ocullo LED V2 SQ Duo 4,000K
Duo High Output	
3032445	Ocullo LED V2 SQ Duo 3,000K HO
3032446	Ocullo LED V2 SQ Duo 4,000K HO

Square – Trio (White Bezel)

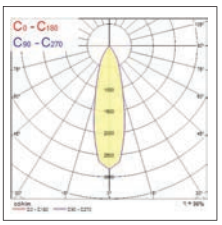
Code	Description
Trio	
3032435	Ocullo LED V2 SQ Trio 3,000K
3032436	Ocullo LED V2 SQ Trio 4,000K
Trio High Output	
3032447	Ocullo LED V2 SQ Trio 3,000K HO
3032448	Ocullo LED V2 SQ Trio 4,000K HO

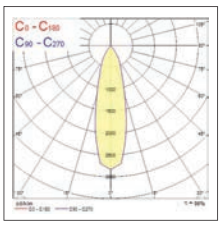
4,000K = Neutral White, 3,000K = Warm White



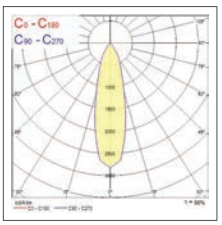


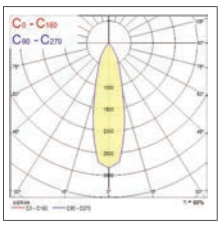
Ocullo LED Square – Mono





Ocullo LED Square – Duo





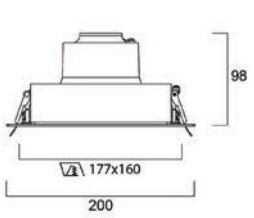
Ocullo LED Square – Trio

Accessories

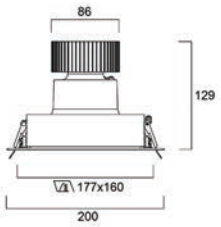
Code	Description
3033450	Ocullo LED Narrow Beam Reflector
3033451	Ocullo LED Wide Beam Reflector
3033452	Ocullo LED Flood Beam Reflector

Ocullo LED V2 Performance Matrix (per head)

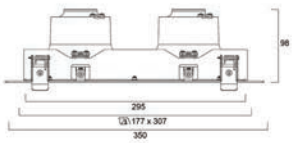
Fixture	1 head	1 head HO
Colour Temperature	4,000K	4,000K
Fixture Lumens	3,139lm	4,325lm
Actual Power	33W	48W
Lumens / Circuit Watt	95lm/w	90lm/w



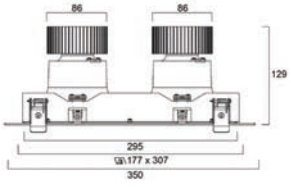
Ocullo LED Square – Mono



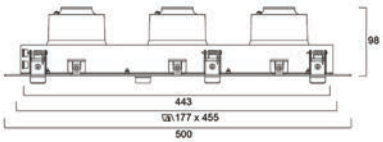
HO Ocullo LED Square – Mono



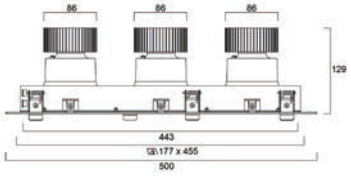
Ocullo LED Square – Duo



HO Ocullo LED Square – Duo



Ocullo LED Square – Trio



HO Ocullo LED Square – Trio HO

RENAULT

Control gear:	Electronic
Dimmable:	Depending on lamp specifications (please refer to ordering guide)
Adjustment angles:	60° tilt and 355° rotation
Reflector:	New optimised reflector for high LOR
Housing:	Solid die-cast aluminium housing
Finish:	Powder coated white and silver (Signo 205)

- Integrated LED technology
- Recessed and adjustable versions
- Unique friction system, for optimal adjustment

Signo LED

Signo 115 LED - White

- RefLED lamp now utilises RefLED Coolfit lamp producing high thermal eficiency
- LED versions: dimmable fitting
- Low recess depth of 115mm
- Solid die-cast aluminium housing
- Unique friction system inside the housing, for optimal adjustment

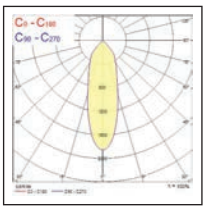
LIGHT SOURCE INCLUDED

RefLED Superia ES50
V2.1 5.5W GU10 25° = 1375cd/ 380lm

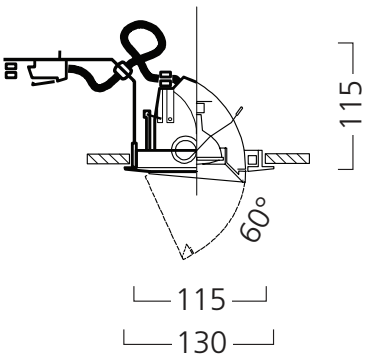
LED Retrofit

Code	Description	Watt (W)	Beam Angle (°)	Body Colour
3040013	Signo 115 LED 5.5W 3,000K 40°	5.5	40	White

4,000K = Neutral White, 3,000K = Warm White



Signo 115



Dimensions (mm)

Signo 155 White

- Brand new dedicated LED version with up to 3,750lm (high output version)
- Non dimmable electronic driver included
- Solid die-cast aluminium housing
- 60° tilt and 355° rotation
- Unique friction system inside the housing, for optimal adjustment
- New optimised reflector for High LOR
- Average life L70/B50, 50,000 hours

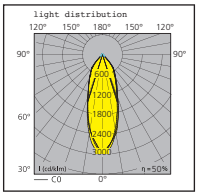
LIGHT SOURCE INCLUDED

IP20 | 60° | 355°

LED

Code	Description	Watt (W)	Beam Angle (°)	Body Colour
High Output				
3040051	Signo 155 LED HO 3,000K	40	36	White
3040052	Signo 155 LED HO 4,000K	40	36	White

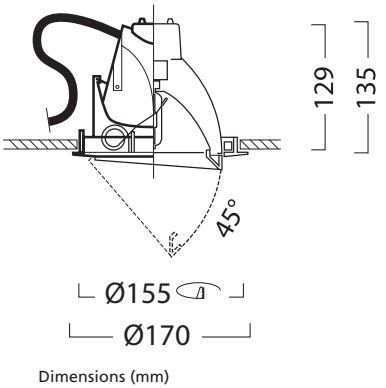
4,000K = Neutral White, 3,000K = Warm White



Signo 155 LED

Signo 155 LED Performance Matrix

Fixture	(High Output) HO
Colour Temperature	4,000K
Fixture Lumens	3,750lm
Actual Power	40W
Lumens / Circuit Watt	94lm/w



Dimensions (mm)

Signo 205 LED - White

- Upto 2900lm luminaire lumens
- LED driver included
- Unique friction system inside the housing, for optimal adjustment
- New optimised reflector for High LOR
- Average life L70/B50, 50,000 hours

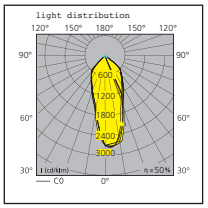
LIGHT SOURCE INCLUDED

IP20 60° 355°

LED

Code	Description	Watt (W)	Beam Angle (°)	Body Colour
3040022	Signo 205 LED 3,000K	40	40	White
3040023	Signo 205 LED 3,000K	40	40	Matt Silver
3040025	Signo 205 LED 4,000K	38	40	White
3040026	Signo 205 LED 4,000K	38	40	Matt Silver

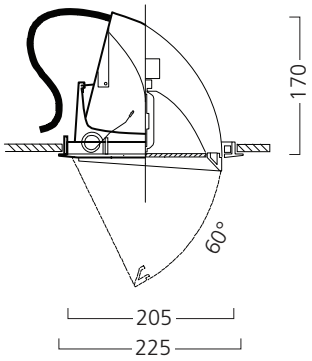
4,000K = Neutral White, 3,000K = Warm White



Signo 205 LED

Signo 205 LED Performance Matrix

Fixture	(High Output) HO
Colour Temperature	4,000K
Fixture Lumens	2,900lm
Actual Power	38W
Lumens / Circuit Watt	76lm/w



Dimensions (mm)

Kenwick Spa, U.K.

Gym - Brussels, Belgium

PENDANT

Concord

239 Glace

243 Myriad V

SYLVANIA

247 InVerto

251 Nephos V2

The art of ultra modern minimalism lives on in the form of Concord Glace Pendant. With it's clean aesthetic lines and cutting edge LED technology, Glace pendant has a 360º ring of super efficient LEDS at its core to provide perfect homogenous light distribution.

Glace

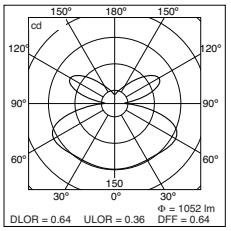
- Super slim architectural design provides ultra modern minimalism with cutting-edge LED technology
- Utilises low power super efficient LED array providing perfect homogenous light distribution
- Superior fixture lumens when compared to existing 38W TC-DD (High Output versions)
- Aesthetic round architectural form
- Compatible with microwave sensors with presence detection, lux and daylight management for optimum energy saving solutions
- 50,000 hrs life at 70% of the original output L70
- Integral LED emergency options
- DALI dimming versions as standard
- The perfect solution modern circulation spaces and high end reception areas

LIGHT SOURCE INCLUDED

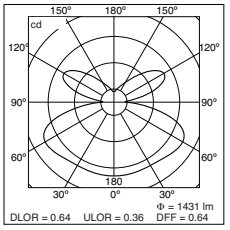
IP44 850°C

Glace Pendant

Code	Description	Front Ring Colour	Luminous Flux (lm)
Glace Pendant 3,000K round			
2055132	Glace Pend 3K HO Rnd	Metalised finish	1,293
2055133	Glace Pend 3K DALI HO Rnd	Metalised finish	1,293
Glace Pendant 4,000K round			
2055134	Glace Pend 4K HO Rnd	Metalised finish	1,431
2055135	Glace Pend 4K DALI HO Rnd	Metalised finish	1,431

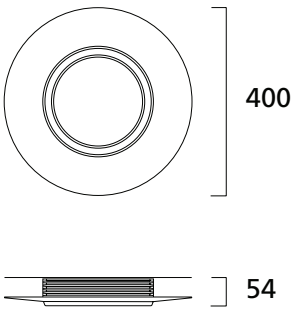


Glace 3,000K HO Round

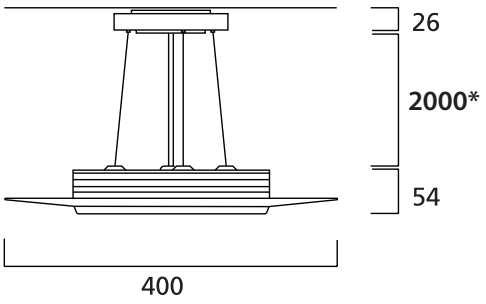


Glace 4,000K HO Round

Round



Modular Pendant



** These wires are 2000mm long, cut to correct length on site.*

Dimensions (mm)

Technology Comparison Table

Description	Lamp	Fixture Lumens	Lamp W	TOTAL W	Total lm/W
Glace LED	4,000K High Output	1431	NA	20	71
Cassini	28W 2D	675	28	32	21

Mazda Showroom, U.K.

- New high output high efficiency LED
- Architectural Pendant modules
- IR/UV – free light source without heat radiation
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Long life 50K hours, fit and forget maintenance free lighting solution
- Dimmable options including DALI as standard
- A choice of colour temperatures 2,700K, 3,000K and 4,000K
- Remote gear and Surface mounting options
- Available in White Ral 9016, Silver Ral 9006 & Black Ral 9005
- Luminaires supplied complete with LED drivers

Myriad V

Myriad V Pendant - Silver

Remote Gear

Surface Mounted Polished Chrome Housing for Silver & Black Pendant White housing for White pendants

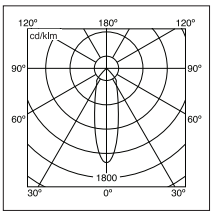
- High output high efficiency LED Architectural Pendant modules
- IR/UV – free light source without heat radiation
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Long life up to 50,000K hours, fit and forget maintenance free lighting solution
- Choice of colour temperatures 2,700K, 3,000K and 4,000K
- Remote gear and Surface mounting options
- Available in White Ral 9016, Silver Ral 9006 & Black Ral 9005
- Luminaires supplied complete with LED drivers
- Total circuit power I0W

LIGHT SOURCE INCLUDED

IP20

Remote Gear

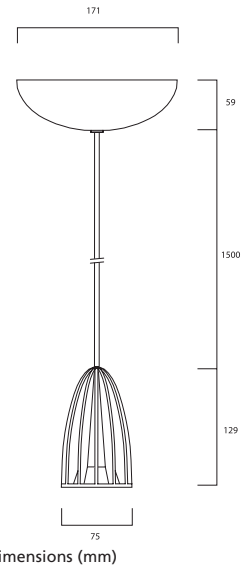
Code	Description
2,700K	
2058976	Myriad Pendant LED Phase Dim Remote Gear
2058977	Myriad Pendant LED DALI Dim Remote Gear
3,000K	
2049586	Myriad Pendant LED Phase Dim Remote Gear
2049592	Myriad Pendant LED DALI Dim Remote Gear
4,000K	
2049588	Myriad Pendant LED Phase Dim Remote Gear
2049594	Myriad Pendant LED DALI Dim Remote Gear



3,000K

Surface Mounted

Code	Description
2,700K	
2058978	Myriad Pendant LED Phase Dim Surface Mounted
2058979	Myriad Pendant LED DALI Dim Surface Mounted
3,000K	
2049550	Myriad Pendant LED DALI Dim Surface Mounted
2049556	Myriad Pendant LED DALI Dim Surface Mounted
4,000K	
2049552	Myriad Pendant LED Phase Dim Surface Mounted
2049558	Myriad Pendant LED DALI Dim Surface Mounted



Dimensions (mm)

Dimmensions (mm)

CCT	CRI	LUMENS	(w)	Lm/w
2700K	85	791	10	79
3000K	85	1114	10	111
4000K	85	1093	10	109

Myriad V Pendant - Black & White

Remote Gear

Surface Mounted Polished Chrome Housing for Silver & Black Pendant White housing for White pendants

- New high output high efficiency LED Architectural Pendant modules
- Total circuit power I0W, upto 1093lm output 4,000K
- IR/UV – free light source without heat radiation
- Long life up to 50,000K hours, fit and forget maintenance free lighting solution
- Dimmable options including DALI as standard
- Choice of colour temperatures 2,700K, 3,000K and 4,000K
- Remote gear and Surface mounting options
- Available in White Ral 9016, Silver Ral 9006 & Black Ral 9005
- Luminaires supplied complete with LED drivers

LIGHT SOURCE INCLUDED

IP20

White - Remote gear

Code	Description
2,700K	
2058980	Myriad Pendant LED Phase Dim Remote Gear
2058981	Myriad Pendant LED DALI Dim Remote Gear
3,000K	
2049585	Myriad Pendant LED Phase Dim Remote Gear
2049591	Myriad Pendant LED DALI Dim Remote Gear
4,000K	
2049587	Myriad Pendant LED Phase Dim Remote Gear
2049593	Myriad Pendant LED DALI Dim Remote Gear

Black - Remote gear

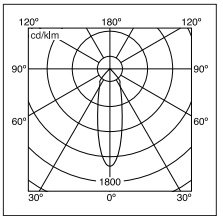
Code	Description
2,700K	
2058984	Myriad Pendant LED Phase Dim Remote Gear
2058985	Myriad Pendant LED DALI Dim Remote Gear
3,000K	
2049597	Myriad Pendant LED Phase Dim Remote Gear
2049600	Myriad Pendant LED DALI Dim Remote Gear
4,000K	
2049598	Myriad Pendant LED Phase Dim Remote Gear
2049601	Myriad Pendant LED DALI Dim Remote Gear

White - Surface mounted

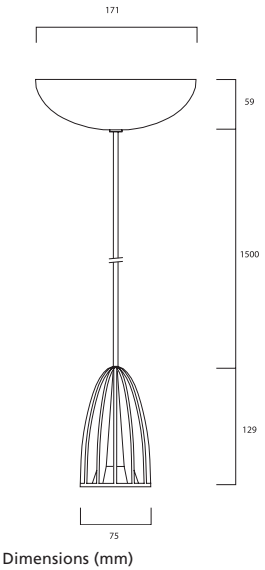
Code	Description
2,700K	
2058982	Myriad Pendant LED Phase Dim Surface Mounted
2058983	Myriad Pendant LED DALI Dim Surface Mounted
3,000K	
2049549	Myriad Pendant LED Phase Dim Surface Mounted
2049555	Myriad Pendant LED DALI Dim Surface Mounted
4,000K	
2049551	Myriad Pendant LED Phase Dim Surface Mounted
2049557	Myriad Pendant LED DALI Dim Surface Mounted

Black - Surface mounted

Code	Description
2,700K	
2058986	Myriad Pendant LED Phase Dim Surface Mounted
2058987	Myriad Pendant LED DALI Dim Surface Mounted
3,000K	
2049579	Myriad Pendant LED Phase Dim Surface Mounted
2049582	Myriad Pendant LED DALI Dim Surface Mounted
4,000K	
2049580	Myriad Pendant LED Phase Dim Surface Mounted
2049583	Myriad Pendant LED DALI Dim Surface Mounted



4,000K



Dimensions (mm)

Dimmensions (mm)

CCT	CRI	LUMENS	(w)	Lm/w
2700K	85	791	10	79
3000K	85	1114	10	111
4000K	85	1093	10	109

25th North row - London, England

Control gear: Electronic
Reflector: Vacuum metalised Polycarbonate
Housing: Choice of 3 standard colours: gloss black, matt white, satin silver. Custom colours available upon request – please consult your local sales force for more information

- Built to IP65 standard (with standard cable). Highly resistant to corrosion and sea mist - ISO 9227 (equivalent to ASTM B117)
- Wire to base pluggable connection for a quick and easy installation
- LED technology: Reduced energy and maintenance costs. No harmful UV or IR radiation. Long lifetime – more than 50,000 hours
- Design that fits the contemporary cubic design trend and ensures continuity of design across a lighting scheme

InVerto

- 16W (high efficiency) or 19W (high output) pendant luminaire - only applies on integral driver version
- Adjustable pendant cable (1.7m as supplied)
- Integral or remote driver options
- 3 standard colours: gloss black, matt white and satin silver
- Freedom of installation - only applies on integral driver version: 350mA or 450mA LED driver, resulting in 16W and 19W respectively 2 settings:
  – High efficiency: 16W 1,617lm at 101lm/W 4,000K, 1,566lm 3,000K
  – High output: 19W providing 2,045lm at 107lm/W, 1,980lm at 3,000K
- Optional colour braided cables for contemporary aesthetic look (IP21 rating)
- Comes with a 40° beam as standard.

LIGHT SOURCE INCLUDED

RoHS WEEE CE

Standard colours

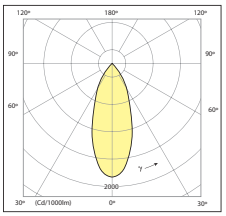
Matt White | Gloss Black | Satin Silver

Custom paint finish suggestions (available upon request)

Gloss Orange | Gloss Red | Matt Green | Matt Teal

3,000K

Code	Description	Body Colour
Electronic Integral		
3080109	InVerto Pendant 3,000K Surface Mounted	Gloss black
3080110	InVerto Pendant 3,000K Surface Mounted	Matt white
3080111	InVerto Pendant 3,000K Surface Mounted	Satin silver
Electronic Remote		
3080121	InVerto Pend Rmt 3,000K Remote Gear	Gloss black
3080122	InVerto Pend Rmt 3,000K Remote Gear	Matt white
3080123	InVerto Pend Rmt 3,000K Remote Gear	Satin silver



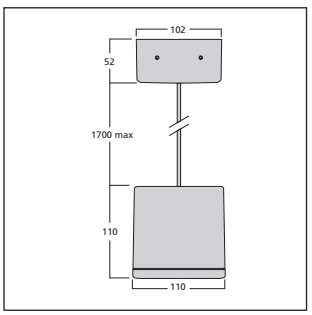
Standard 40° beam angle

4,000K

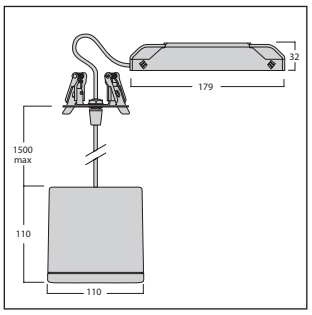
Code	Description	Body Colour
Electronic Integral		
3080049	InVerto Pendant 4,000K Surface Mounted	Gloss black
3070050	InVerto Pendant 4,000K Surface Mounted	Matt white
3080051	InVerto Pendant 4,000K Surface Mounted	Satin silver
Electronic Remote		
3080061	InVerto Pend Rmt 4,000K Remote Gear	Gloss black
3080062	InVerto Pend Rmt 4,000K Remote Gear	Matt white
3080063	InVerto Pend Rmt 4,000K Remote Gear	Satin silver

Legend: 4,000K = Neutral White, 3,000K = Warm White,
Eb = Electronic Ballast, RMT = Remote driver (non switchable)

Integral version



Remote version



Dimensions (mm)

Control gear: Electronic
Diffuser: Diffusing optic made from frosted toughened glass
Housing: Aluminium housing material

- LED pendant luminaires developed for a wide range of hospitality environments
- Contemporary curved design and diffused ambient light, they will add drama to any restaurant dining area, cafe, lounge space or office reception
- Available in a high quality gloss black or gloss white colour finish, suiting a myriad of interiors and making it the ideal choice for interior designers
- Constructed from a single piece of high quality spun aluminium with a diameter of 600mm, polycarbonate diffuser and an easy to adjust 2m suspension cable

Nephos V2

Nephos - White

Nephos - Black

- High-end decorative LED pendant with a contemporary curved design
- Perfect for hospitality and residential applications; can be used in restaurants, bars, reception areas or lounge spaces
- Available in gloss black and gloss white colour finishes to suit either a high brightness reception, or an ambient lounge space
- Diffused (direct) light provides a soft and ambient lighting effect
- Aluminium housing material
- 600mm diameter, can be used as a feature pendant or in a group
- Delivers up to 2,127lm (4000K luminaire lumen output), 25W power consumption
- Easy to adjust 2,000mm suspension cable
- Available in warm white (3000K) and neutral white (4000K)
- Energy efficient electronic gear including DALI dimmable versions as standard
- Long lifetime: 50,000 hours life at 70% of the original output L70

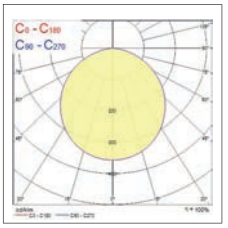
LIGHT SOURCE INCLUDED

Electronic

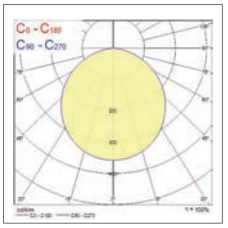
Code	Description
Gloss black	
3097945	NEPHOS 600 LED V2 GLOSS BLACK 3,000K
3097942	NEPHOS 600 LED V2 GLOSS BLACK 4,000K
Gloss white	
3097944	NEPHOS 600 LED V2 GLOSS WHITE 3,000K
3097943	NEPHOS 600 LED V2 GLOSS WHITE 4,000K

DALI dimmable

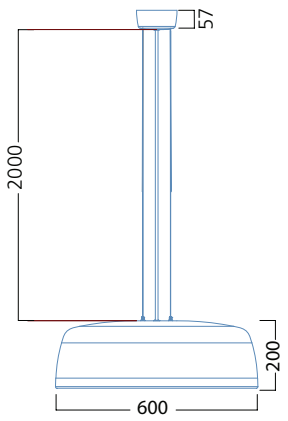
Code	Description
Gloss black	
3097939	NEPHOS 600 LED V2 GLOSS BLACK 3,000K DALI
3097941	NEPHOS 600 LED V2 GLOSS BLACK 4,000K DALI
Gloss white	
3097940	NEPHOS 600 LED V2 GLOSS WHITE 3,000K DALI
3097938	NEPHOS 600 LED V2 GLOSS WHITE 4,000K DALI



Nephos 3,000K



Nephos 4,000K



Dimensions (mm)

LOUNGE BAR
PARTS & ACCESSORIES
CASHIER

Taylor

AMBIENT DECORATIVE

Concord

257 Glace II

261 Colossal

265 Cassini II

SYLVANIA

269 Giotto LED

273 LumiStrip

280 Elite

Northampton, UK

Glace represents the ultimate in ambient lighting. Featuring cutting edge LED technology, this super slim architecturally designed luminaire is the ultimate in minimalist design.

Glace II

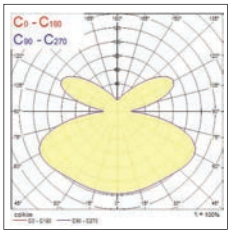
- Super slim architectural design provides ultra modern minimalism with cutting-edge LED technology
- Utilises low power super efficient LED array providing perfect homogenous light distribution
- Superior fixture lumens when compared to existing 38W TC-DD (High Output version)
- Aesthetic round architectural form
- Wall and ceiling mounting
- Compatible with remote microwave sensors with presence detection, lux and daylight management for optimum energy saving solutions
- 50,000 hrs life at 70% of the original output L70
- Integral LED emergency options
- DALI dimming versions as standard
- Ease of installation with place and lock fixing mechanism
- The perfect solutions for corridors, modern circulation spaces and high end reception areas and foyers

LIGHT SOURCE INCLUDED

IP20 850°C

3,000K

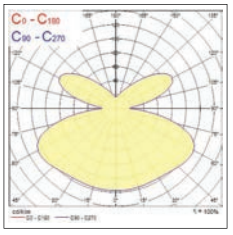
Code	Description
2059780	GLACE 3K HE ROUND V2
2059781	GLACE 3K HE ROUND EMG V2
2059782	GLACE 3K DALI HE ROUND V2
2059783	GLACE 3K DALI HE ROUND EMG V2
2059784	GLACE 3K HO ROUND V2
2059785	GLACE 3K HO ROUND EMG V2
2059786	GLACE 3K DALI HO ROUND V2
2059787	GLACE 3K DALI HO ROUND EMG V2



Glace 4,000K HE Round

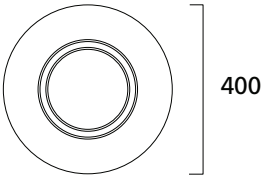
4,000K

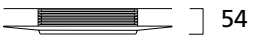
Code	Description
2059788	GLACE 4K HE ROUND V2
2059789	GLACE 4K HE ROUND EMG V2
2059790	GLACE 4K DALI HE ROUND V2
2059791	GLACE 4K DALI HE ROUND EMG V2
2059792	GLACE 4K HO ROUND V2
2059793	GLACE 4K HO ROUND EMG V2
2059794	GLACE 4K DALI HO ROUND V2
2059795	GLACE 4K DALI HO ROUND EMG V2



Glace 4,000K HO Round

Round





Technology Comparison Table

Description	Fixture Lumens	TOTAL W	Total lm/W
Glace 3000K V2 HE	853	10	85
Glace 3000K V2 HO	1,599	20	80
Glace 4000K V2 HE	989	10	99
Glace 4000K V2 HO	1,848	20	92

HE = High Efficiency HO = High Output

Lords Cricket Ground Hospitality

The circular Concord Colossal ambient luminaire is characterised by its minimalist styling. Colossal is designed to compliment any interior whether it is surface mounted or as a pendant.
Manufactured with a slim powder coated aluminium frame, Colossal is not only beautiful to look at it is also highly efficient with an output of 3,800 lumens and 120lm/W Efficacy. This is achieved through the use of a polycarbonate opal diffuser combined with LED technology, with a diameter of Ø450mm x 70mm depth

Colossal LED

Colossal LED

- Circular architectural surface mounted or suspended ambient luminaire
- Aluminium housing with polycarbonate opal diffuser for a comfortable visual uniformity
- Output of 3,745 lumens and 120lm/W (4000K)
- Ø450mm diameter
- DALI options availble, along with 3 hour integral emergency
- Long lifetime of 50,000 hours (L70)

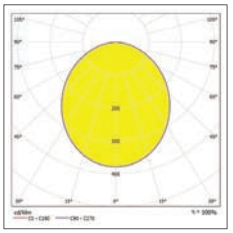
LIGHT SOURCE INCLUDED

Ø 450mm 3,000K

Code	Description
4061170	Colossal 450 3,000K
4061171	Colossal 450 3,000K DALI
4061172	Colossal 450 3,000K E3
4061173	Colossal 450 3,000K DALI E3

Ø 450mm 4,000K

Code	Description
4061174	Colossal 450 4,000K
4061175	Colossal 450 4,000K DALI
4061176	Colossal 450 4,000K E3
4061177	Colossal 450 4,000K DALI E3

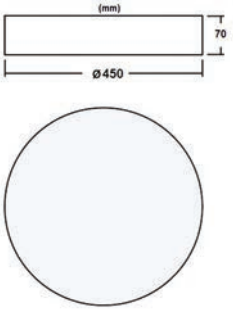


4,000K

Accessories

Code	Description
4061178	Colossal EB 2M WIRE SUSPENSION SET
4061179	Colossal DALI 2M WIRE SUSPENSION SET

Description	Fixture Lumens (lm)	Total Power (W)	Efficiency (lm/W)
Colossal 3000K	3924	31	126
Colossal 4000K	3745	31	120



Dimensions (mm)

Outhouse U.K.

Control Gear: Integral electronic gear
Emergency: Integral, 3hr maintained
Diffuser: Polycarbonate, satin opal, UV stabilised
IP65 Housing: Polycarbonate, clear
Housing/Trim: Aluminium, powder coated white RAL 9016 or brushed aluminium. Other RAL colours and finishes available to special order.

- Two contemporary styles – Planar and Radius
- Satin glass effect diffuser for high LOR and excellent diffusion
- Ceiling or wall mounted
- Integral emergency options – suitable for use on defined escape routes
- Halo backlight
- Tamper resistant locking feature
- IP65 for wet areas

Cassini II LED

Cassini II Planar LED

Cassini Planar - White

Cassini Planar - Brushed Aluminium

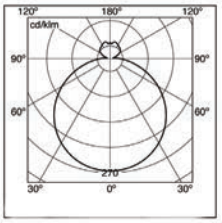
- Excellent flashing provides perfect homogenous light distribution
- Unique feature allowing a choice between High Output or High efficiency with the flick of a switch
- 50,000 hrs life at 70% of the original output L70
- Halo backlight
- IP65 fitting resistant to dust and water jet ingress
- Tamper resistant locking feature
- Ceiling or wall mounted
- Integral emergency options – suitable for use on defined escape routes
- Choice of White and Brushed Aluminium trim finishes
- Compatible with remote microwave sensors for maximum energy savings

LIGHT SOURCE INCLUDED

IP65 900°C

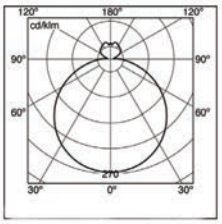
3,000K

Code	Description
White	
4054888	Cassini Planar 3,000K 400mm
4054889	Cassini Planar 3,000K 400mm Emergency
4054890	Cassini Planar 3,000K DALI 400mm
4054891	Cassini Planar 3,000K DALI 400mm Emergency
Brushed Aluminium	
4054904	Cassini Planar 3,000K 400mm
4054905	Cassini Planar 3,000K 400mm Emergency
4054906	Cassini Planar 3,000K DALI 400mm
4054907	Cassini Planar 3,000K DALI 400mm Emergency



4,000K

Code	Description
White	
4054892	Cassini Planar 4,000K 400mm
4054893	Cassini Planar 4,000K 400mm Emergency
4054894	Cassini Planar 4,000K DALI 400mm
4054895	Cassini Planar 4,000K DALI 400mm Emergency
Brushed Aluminium	
4054908	Cassini Planar 4,000K 400mm
4054909	Cassini Planar 4,000K 400mm Emergency
4054910	Cassini Planar 4,000K DALI 400mm
4054911	Cassini Planar 4,000K DALI 400mm Emergency

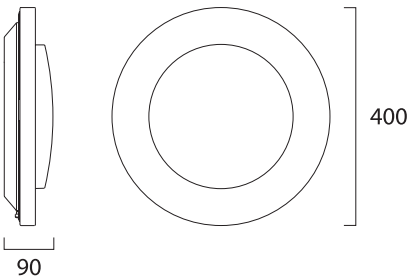


Cassini Planar 3,000K

Fixture Power (W)	9 / 17W
Fixture Lumens (lm)	644 / 1229lm
Luminaire efficiacy (lm/W)	73lm/W (high output)

Cassini Planar 4,000K

Fixture Power (W)	9 / 17W
Fixture Lumens (lm)	701 / 1338lm
Luminaire efficiacy (lm/W)	79lm/W (high output)



Dimensions (mm)

Cassini Radius - White

Cassini Radius - Brushed Aluminium

- Excellent flashing provides perfect homogenous light distribution
- Unique feature allowing a choice between High Output or High efficiency with the flick of a switch
- 50,000 hrs life at 70% of the original output L70
- Halo backlight
- IP65 fitting resistant to dust and water jet ingress
- Tamper resistant locking feature
- Ceiling or wall mounted
- Integral emergency options – suitable for use on defined escape routes
- Choice of White and Brushed Aluminium trim finishes
- Compatible with remote microwave sensors for maximum energy savings

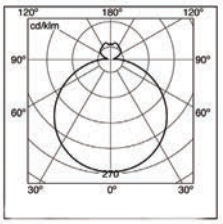
LIGHT SOURCE INCLUDED

IP65 900°C

LED

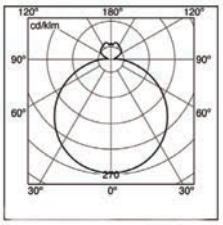
3,000K

Code	Description
White	
4054896	Cassini Radius 3,000K 400mm
4054897	Cassini Radius 3,000K 400mm Emergency
4054898	Cassini Radius 3,000K DALI 400mm
4054899	Cassini Radius 3,000K DALI 400mm Emergency
Brushed Aluminium	
4054912	Cassini Radius 3,000K 400mm
4054913	Cassini Radius 3,000K 400mm Emergency
4054914	Cassini Radius 3,000K DALI 400mm
4054915	Cassini Radius 3,000K DALI 400mm Emergency



4,000K

Code	Description
White	
4054900	Cassini Radius 4,000K 400mm
4054901	Cassini Radius 4,000K 400mm Emergency
4054902	Cassini Radius 4,000K DALI 400mm
4054903	Cassini Radius 4,000K DALI 400mm Emergency
Brushed Aluminium	
4054916	Cassini Radius 4,000K 400mm
4054917	Cassini Radius 4,000K 400mm Emergency
4054918	Cassini Radius 4,000K DALI 400mm
4054919	Cassini Radius 4,000K DALI 400mm Emergency

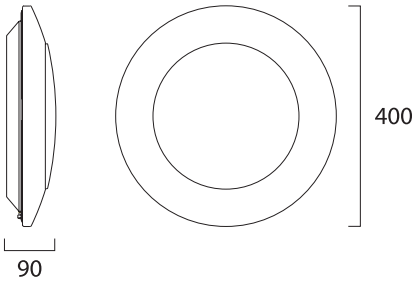


Cassini Planar 3,000K

Fixture Power (W)	9 / 17W
Fixture Lumens (lm)	644 / 1229lm
Luminaire efficiacy (lm/W)	73lm/W (high output)

Cassini Planar 4,000K

Fixture Power (W)	9 / 17W
Fixture Lumens (lm)	701 / 1338lm
Luminaire efficiacy (lm/W)	79lm/W (high output)



Dimensions (mm)

Banquet Sports Hall - Quaregnon, Belgium

Control gear:	Electronic
Dimmable:	DALI dimmable
Emergency:	3 hour integral emergency available
Diffuser:	Polycarbonate, satin opal
Housing:	White
Protections:	IP44 & IK10

- Curved opaque (opal) diffuser for even light distribution
- Ideal in general lighting as well as in public areas
- 50,000 hour life expectancy with low maintenance
- Ideal for applications that require long service hours and high switching cycles
- Available with microwave sensor technology

Giotto LED

Recesssed

Surface mounted

- Available in 3,000K and 4,000K
- 1500lm luminaire lumen (in 4,000K) replaces 38W DD lamp using only 19W
- Recessed or surface mounted versions available
- Microwave sensor versions available, shadow free with 3 step dimming control
- The Microwave sensor allows the ability to set detection area, hold time, daylight sensor, stand-by period (corridor function), stand-by dimming level

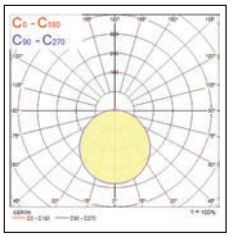
LIGHT SOURCE INCLUDED

IP44 IK10 850°C

Recessed

Code	Description
Electronic	
3032820	Giotto 335 LED recessed 3,000K
3032819	Giotto 335 LED recessed 4,000K
DALI dimmable	
3032872	Giotto 335 LED recessed 3,000K
3032871	Giotto 335 LED recessed 4,000K
Emergency 3 hour	
3032826	Giotto 335 LED recessed 3,000K
3032825	Giotto 335 LED recessed 4,000K
Electronic with microwave sensor V2	
3034834	Giotto 335 LED recessed 3,000K
3034833	Giotto 335 LED recessed 4,000K

** DALI dimmable & emergency 3 hour available upon request*

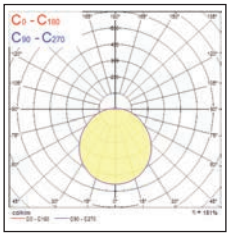


Recessed

Surface mounted

Code	Description
Electronic	
3032822	Giotto 335 LED surface 3,000K
3032821	Giotto 335 LED surface 4,000K
DALI dimmable	
3032874	Giotto 335 LED surface 3,000K
3032873	Giotto 335 LED surface 4,000K
Emergency 3 hour	
3032828	Giotto 335 LED surface 3,000K
3032827	Giotto 335 LED surface 4,000K
DALI dimmable & emergency 3 hour	
3032880	Giotto 335 LED surface 3,000K
3032879	Giotto 335 LED surface 4,000K
Electronic with microwave sensor V2	
3034836	Giotto 335 LED surface 3,000K
3034835	Giotto 335 LED surface 4,000K

Legend: rec = recessed; sur = surface mounted;
4,000K = neutral white; 3,000K = warm white;
MW = MicroWave sensor Version 2



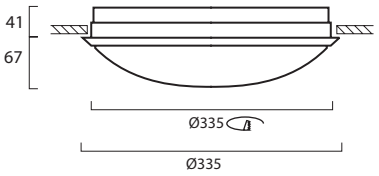
Surface Mounted

Giotto 335 Performance Matrix

Fixture	Giotto 335 LED
Colour Temperature	4,000K
Fixture Lumens	1,510lm
Actual Power	19W
Lumens/Circuit Watt	79lm/w

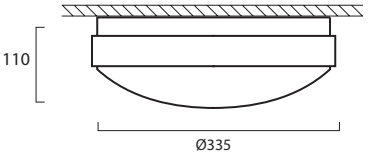
Giotto 335 LED recessed

Minimum recess dimensions: 405 x 405 x 41mm

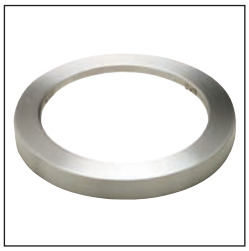


Dimension (mm)

Giotto 335 LED surface mounted



Accessories

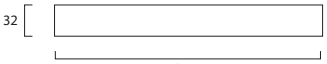


Trend Ring

Deco Trim

Trend ring

Giotto 335 LED - Trend ring



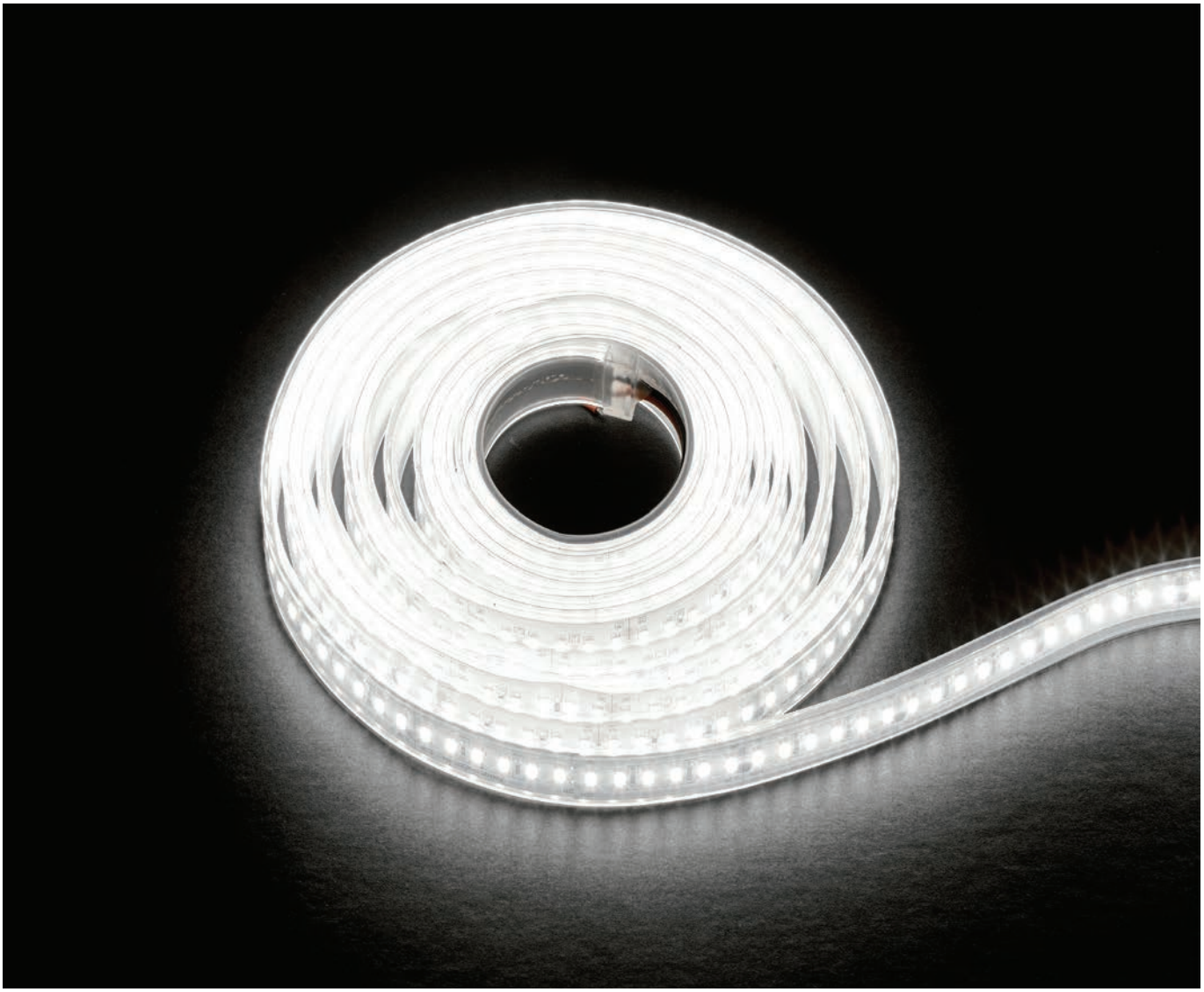
Giotto 335 LED - Deco trim

Dimensions (mm)

Giotto LED 335 Surface Accessories

Code	Description	Colour
3005160	Deco Trim	White
3005170	Deco Trim	Silver
3005820	Trend Ring	Brushed aluminium

River Thames Cable Car, London, UK



Control Gear: Electronic

Dimmable: Range incorporates: Analogue 1-10V dimmable, DALI dimmable, phase or trailing and leading edge - LED drivers ordered separately from our Lumidriver range (for more information, please consult the Lumidriver and How to order pages)

Protection: Choice of IP20, IP65 & IP67 ratings, with the IP65 & IP67 versions suitable for outdoor use

Accessories: A selection of aluminium housing profiles also available; A range of solder-less connections are available to make LumiStrip easy to install in long lengths (can cut and reuse excess lengths)

- Flexible and decorative LED solution for use in applications such as hotels, restaurants, bars, feature and cove lighting
- 2 ranges, 4 versions: LumiStrip High Output Pro, LumiStrip High Output, LumiStrip Pro, LumiStrip
- LumiStrip IP65 is a 5m IP65 covered flexible very low-profile high brightness LED strip (cuttable every 50mm)
- LumiStrip IP67 is a 5m IP67 covered flexible very low-profile high brightness LED strip (cuttable every 50mm)
- LumiStrip IP20 is a 5m flexible, very low-profile high brightness LED strip (cuttable every 100mm)
- Available in amber white (2,700K), warm white (3,000K) and neutral white (4,000K)
- RGB versions allow for a space to be enhanced with colour
- 500mm flying lead to connect to driver (both ends on IP6x versions)
- LumiStrip IP20 versions come as standard with 3M tape
- LumiStrip IP65 and IP67 comes with 25x200mm clear PC mounting strips with 3M adhesive tape, screw kits and 10 end caps and sealant

LumiStrip

LumiStrip HO Pro - warm white (3,000K)

LumiStrip HO neutral white (4,000K)

- LumiStrip High Output PRO: 106W 5m reel equipped with 600 LEDs offering up to 1,724lm/m and 81lm/W
- LumiStrip High Output: 82W 5m reel equipped with 420 LEDs offering up to 1,470lm/m and 90lm/W
- Available in warm white (3,000K) and neutral white (4,000K)
- Perfect upgrade for cove installations using 21W or 24W T5 lamps
- LED lifetime (LumiStrip High Output & LumiStrip High Output Pro): 40,000 hours (L70)

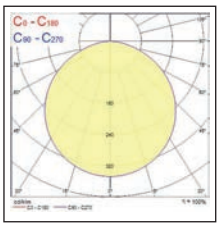
LIGHT SOURCE INCLUDED

IP20 IP65

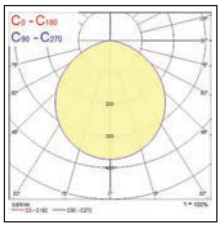
Lumistrip Lumidriver

LumiStrip High Output - Pro

Code	Description
3036970	LumiStrip HO PRO IP20 5M 3,000K
3036971	LumiStrip HO PRO IP20 5M 4,000K
3036972	LumiStrip HO PRO IP65 5M 3,000K
3036973	LumiStrip HO PRO IP65 5M 4,000K



LumiStrip HO Pro - IP20

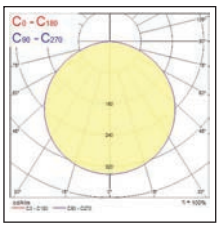


LumiStrip HO Pro - IP65

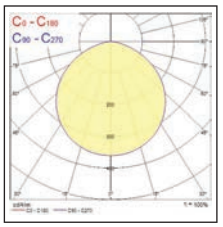
LumiStrip High Output

Code	Description
3036968	LumiStrip HO IP20 5M 3,000K
3036969	LumiStrip HO IP20 5M 4,000K
3036974	LumiStrip HO IP65 5M 3,000K
3036975	LumiStrip HO IP65 5M 4,000K

Legend: HO Pro = 600 LED per 5m; HO = 420 LED per 5m

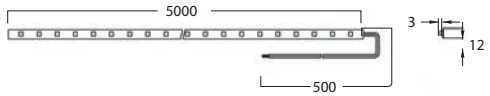


LumiStrip HO - IP20



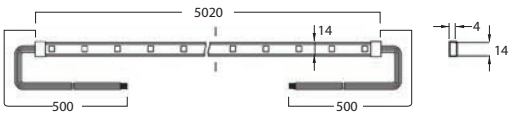
LumiStrip HO - IP65

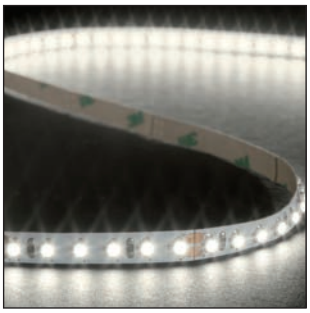
LumiStrip HO - IP20 - Single colour



Dimensions (mm)

LumiStrip HO - IP65 - Single colour





LumiStrip Pro IP20

- LumiStrip Pro is a 5m reel equipped with 600 LEDs offering up to 525lm/m and 55lm/W
- Available in amber white (2,700K), warm white (3,000K), neutral white (4,000K) and RGB Red, Green, Blue colour changing

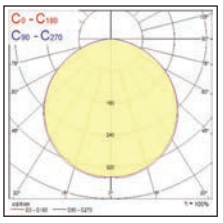
LIGHT SOURCE INCLUDED

IP20 IP65 IP67

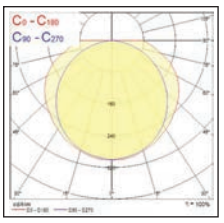
Lumistrip + Lumidriver

Lumistrip Pro

Code	Description	Type
3036937	LumiStrip PRO IP20 5M 2,700K	Amber white
3036887	LumiStrip PRO IP20 5M 3,000K	Warm White
3036888	LumiStrip PRO IP20 5M 4,000K	Neutral White
3036893	LumiStrip PRO IP20 5M RGB	RGB
3036938	LumiStrip PRO IP65 5M 2,700K	Amber white
3036957	Lumistrip PRO IP65 5M 3,000K	Warm White
3036958	Lumistrip PRO IP65 5M 4,000K	Neutral White
3036907	LumiStrip PRO IP67 5M RGB	RGB

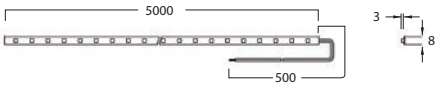


LumiStrip Pro IP20

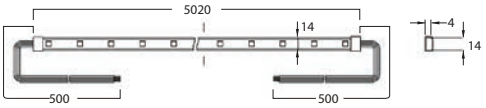


LumiStrip Pro IP67 Red, Green, Blue

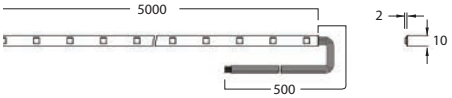
LumiStrip - IP20 - Single colour



LumiStrip - IP65 - Single colour



LumiStrip - IP20 - RGB



LumiStrip IP20

- LumiStrip is a 5m reel equipped with 300 LEDs offering up to 359lm/m and 75lm/W
- Available in warm white (3,000K), neutral white (4,000K) and RGB Red, Green, Blue colour changing

LIGHT SOURCE INCLUDED

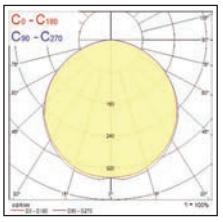
IP20 IP67

Lumistrip + Lumidriver

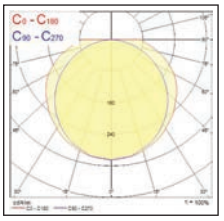
Lumistrip

Code	Description	Type
3036880	LumiStrip IP20 5M 3,000K	Warm White
3036881	LumiStrip IP20 5M 4,000K	Neutral White
3036886	LumiStrip IP20 5M RGB	RGB
3036950	Lumstrip IP65 5M 3,000K	Warm White
3036951	Lumistrip IP65 5M 4,000K	Neutral White
3036900	LumiStrip IP67 5M RGB	RGB

Legend: WW = Warm White; NW = Neutral White

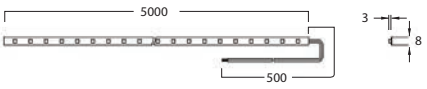


LumiStrip Pro IP20

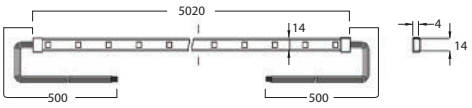


LumiStrip Pro IP67 Red, Green, Blue

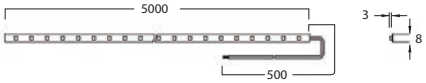
LumiStrip - IP20 - Single colour



LumiStrip - IP65 - Single colour



LumiStrip - IP20 - RGB



Dimensions (mm)

Accessories

LumiStrip white aluminium profile

LumiStrip aluminium 'L' corner profile

IP20 straight connector

IP20 corner connector

IP20 RGB Straight connector

IP67 corner connector

IP67 endcap

IP67 RGB corner connector

RGB controller unit

Aluminium Profiles

Code	Description
3036930	LumiStrip Alu Profile Opal 1m
3036928	LumiStrip Alu Profile Opal 2m
3036929	LumiStrip Alu Profile Accessory Kit (additional 4 end caps + 10 brackets)
3036945	LumiStrip L Profile Alu Opal 1M
3036946	LumiStrip L Profile Alu Opal 2M

Accessories

Code	Description
3036926	IP20 HO Straight CONN x 10
3036915	IP20 Straight CONN + 1m Lead
3036916	IP67 Straight CONN X 5
3036927	IP65 HO Straight CONN x 5
3036917	IP67 Corner CONN 100mm X 5
3036914	IP67 Endcaps x 10
3036920	IP67 RGB Straight CONN X 5
3036921	IP67 RGB Corner CONN 100mm X 5
3036908	RGB Controller incl unit
3036924	RBG Controller with DMX Input
3036925	RGB Amplifier 10 Amp
3036909	RGB Amplifier 30 Amp

Lumistrip Drivers - required with Lumistrip

Non Dimmable Constant Voltage

Description	Lumidriver CV 24VDC 20W	Lumidriver CV 24VDC 60W	Lumidriver CV 24VDC 100W	Lumidriver CV 24VDC 150W
Code	**3036292**	**3036293**	**3036294**	**3036239**
LumiStrip 300 LED, Single Colour 24W	Max 4.1M	√	√	√
LumiStrip 300 LED, RGB 36W	Max 2.7M	√	√	√
LumiStrip Pro 600 LED Single Colour 48W	Max 2M	√	√	√
LumiStrip Pro 600 LED RGB 72W	Max 1.3M	Max 4.1M	√	√
LumiStrip High Output 420 LED 82W	Max 1.2M	Max 3.6M	√	√
LumiStrip High Output Pro 600 LED 106W	Max 1M	Max 3M	Max 4.7M	√

Dimmable Constant Voltage 24V

Description	LED CV & CC 1-10V & Push Medium 350-700mA 15-25W	LED LC Leading/ Trailing Dimmer 350 - 700mA / 24V 17-32W	CV 24VDC 75W DALI	CV 24VDC 120W 1-10V	CV 24VDC 120W DALI Interface + Lumidriver LED Sync. Cable (order in additional to 3036237)
Code	**3036240**	**3036241**	**3036236**	**3036237**	**3036238 + 3036246**
LumiStrip 300 LED, Single Colour 24W	Max 4.1M	Max 4.5M	√	√	√
LumiStrip 300 LED, RGB 36W	Max 2.7M	Max 3M	√	√	√
LumiStrip Pro 600 LED Single Colour 48W	Max 2M	Max 2.3M	√	√	√
LumiStrip Pro 600 LED RGB 72W	Max 1.3M	Max 1.5M	√	√	√
LumiStrip High Output 420 LED 82W	Max 1.2M	Max 1.3M	-	√	√
LumiStrip High Output Pro 600 LED 106W	Max 0.9M	Max 0.9M	-	√	√

Dimmable Constant Voltage 24VDC

3036240

3036241

Non dimmable Constant Voltage 24VDC

3036291

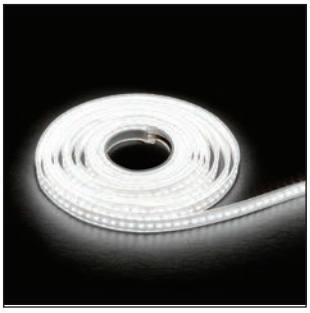
3036292

3036293

3036294

3036239

Basic Starter Kit



5M reel

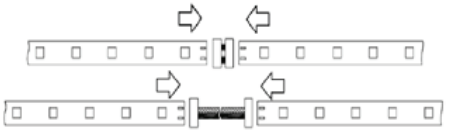
+

LumiDriver (24V constant voltage)

Continuous Lines

LumiDriver

+



IP20

Straight connection

Corner connection

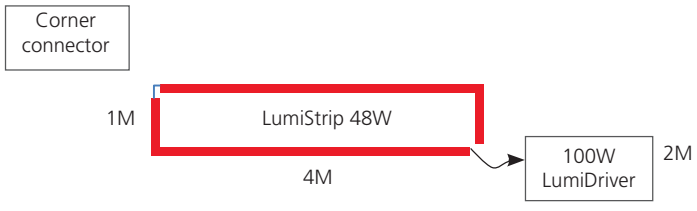
RGB

IP65 / IP67

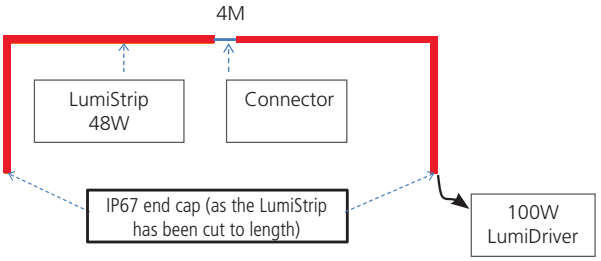
Select appropriate driver to accommodate power consumption of entire length.

- e.g. 100W for 2 x 48W LumiStrip Pros
  e.g. 50W for 2 x 24W LumiStrips

Example Scheme 1 (standard lengths)



Example Scheme 2 (custom lengths)



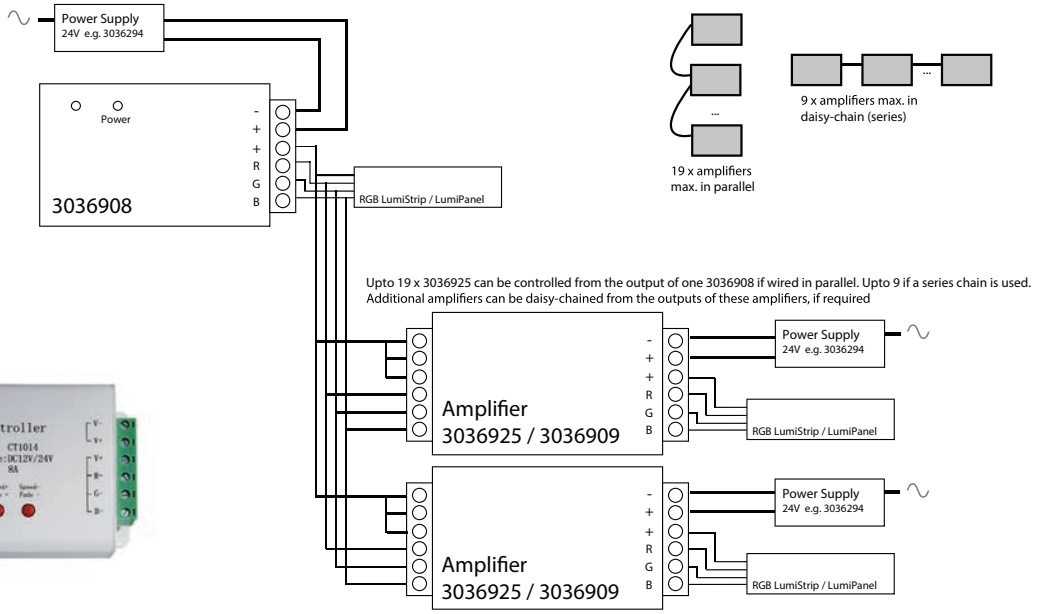
Example Scheme 1 (standard lengths)

Item	Code	Description	Qty
LED strip	**3036887**	LumiStrip Pro IP20 48W 5M WW	2
LED driver	**3036294**	Lumidriver CV 24V 100W	1
Connector	**3036911**	IP20 corner connector (10 pack)	1

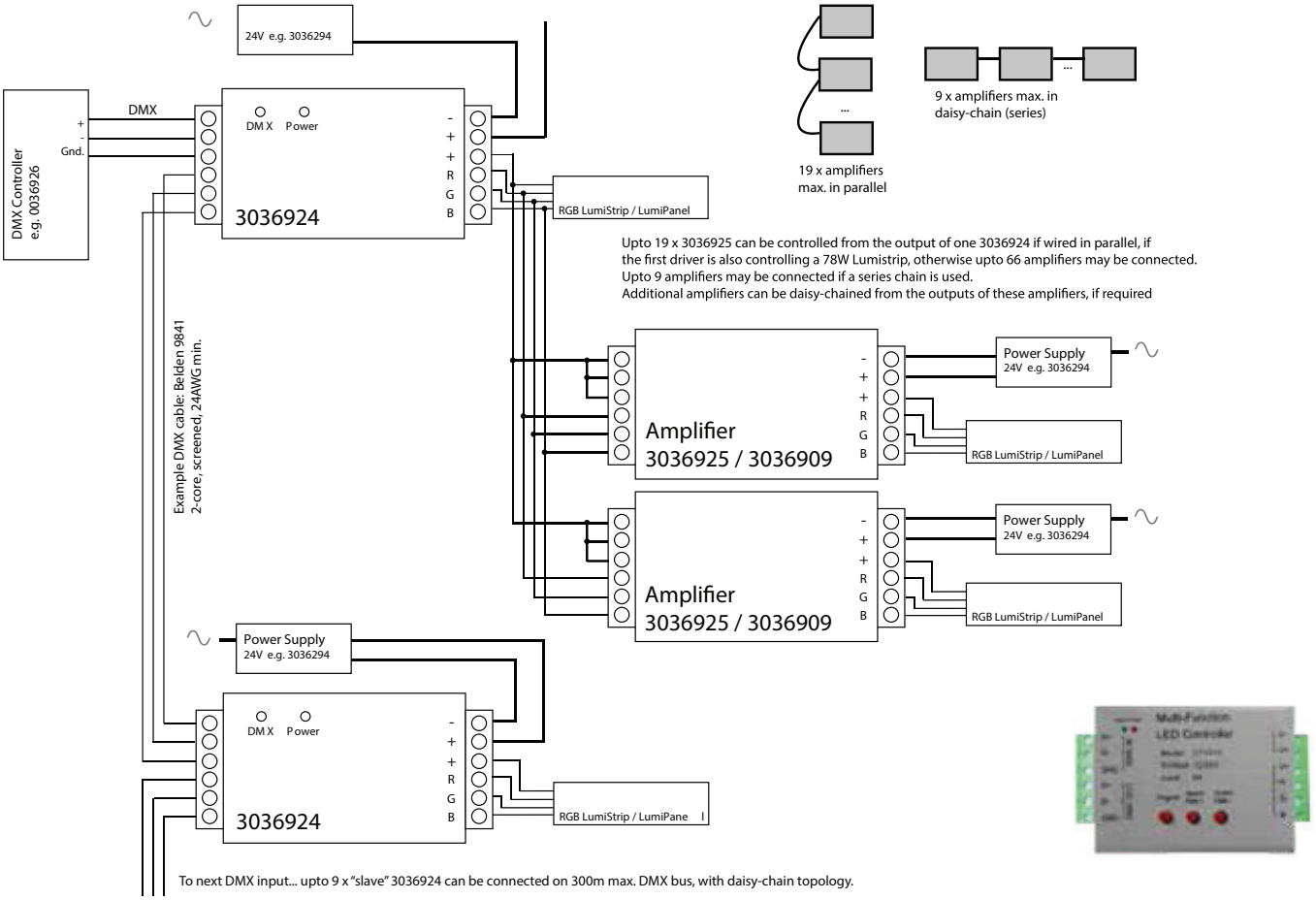
Example Scheme 2 (custom lengths)

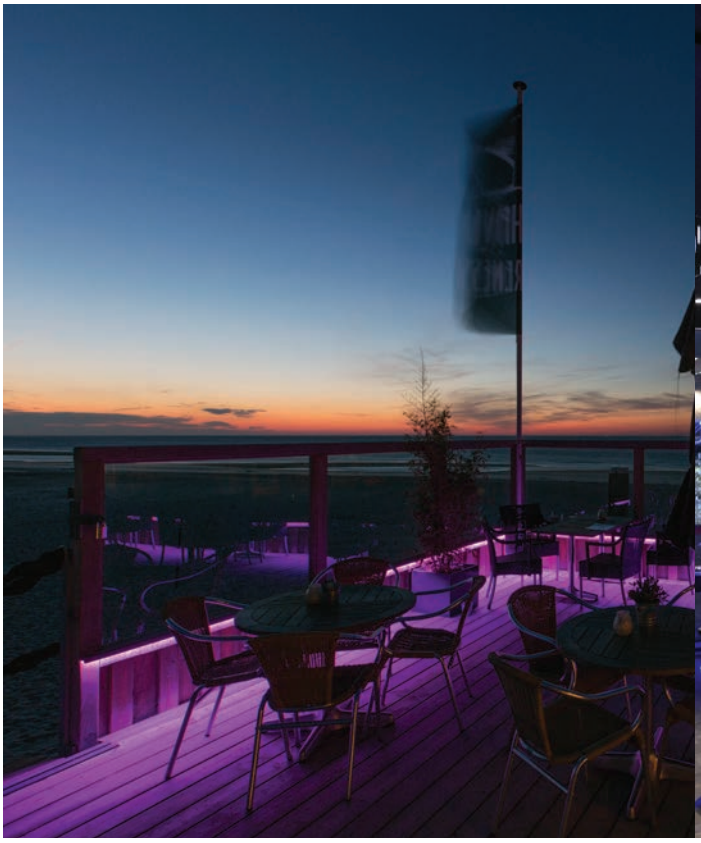
Item	Code	Description	Qty
LED strip	**3036901**	LumiStrip Pro IP67 48W 5M WW	2
LED driver	**3036294**	Lumidriver CV 24V 100W	1
Connector	**3036917**	IP67 corner connector (5 pack)	1
IP67 end cap	**3036914**	IP67 end caps (10 pack)	1

RGB Controller including unit



RGB Controller with DMX Input





De Haven VAn Renesse - Renesse, Netherlands

EAST restaurant, Essentai mall - Almati, Kazakhstan

Architecture Museum - Rottherdam, Netherlands

Office - Belgium

Surface mounted

Shaver socket

Chrome version

- Slim Profile for surface mounting
- Vertical or Horizontal mounting
- Separate switching for lamp and shaver socket
- Dual Voltage (120V/240V) Shaver Sockets available

LIGHT SOURCE INCLUDED

Lynx®-S
11W G23 900lm

Elite shaverlight with push plate and shaver socket

Code	Description	Colour
0053400	ELITE WHITE 11W LYNX-S PUSHP+SHAVS	White
0053401	ELITE CHROME 11W LYNX-S PUSHP+SHAVS	Chrome

Elite shaverlight with pull cord and shaver socket

Code	Description	Colour
0053402	ELITE WHITE 11W LYNX-S PULLC+SHAVS	White
0053403	ELITE CHROME 11W LYNX-S PULLC+SHAVS	Chrome

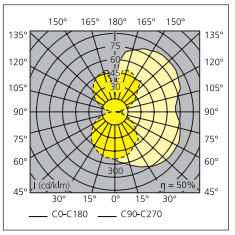
Elite mirror light with push plate

Code	Description	Colour
0053404	ELITE WHITE 11W LYNX-S PUSHP	White
0053405	ELITE CHROME 11W LYNX-S PUSHP	Chrome

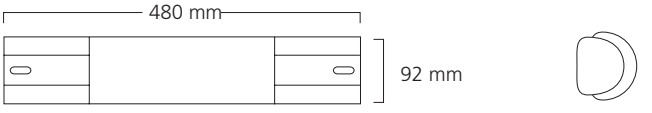
Elite mirror light with pull cord

Code	Description	Colour
0053406	ELITE WHITE 11W LYNX-S PULLC	White
0053407	ELITE CHROME 11W LYNX-S PULLC	Chrome

Legend: PUSHP = PUSH Plate; PULLC = PULL Cord; SHAVS = SHAver Socket



11W



Dimensions (mm)

De Kraker shop - Turnhout, Belgium

SYLVANIA

284 Introduction

285 IP and IK ratings

287 Chemical Chart

289 Sylproof Tubular LED

293 Sylproof Superia LED G3

Applications:

- Underground car parks
- Warehouses
- Industrial areas
- Changing rooms
- Gateways
- Garages
- Loading bays

Indoor car parks & transit areas
- CO^2 pollution
- Humidity
- Shocks

Storage / warehouse
- Dust
- High & low temperatures
- Shocks

Mechanical industry
- Grease, Oil
- Dust
- Vibrations
- Impact

Chemical industry
- Acids
- Petrol
- Vibrations

Car wash
- High humidity
- Cleanser
- Wax

Technical rooms
- Chemicals
- High temperature
- Vibrations
- Chloric gases

Food processing
- Disinfectant
- Fat
- Humidity

Laundry
- Humidity
- Cleanser
- High temperature
- Disinfectant

Hospital
- Disinfectant
- High & low temperature

Ingress protection ratings (IP)

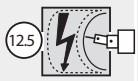
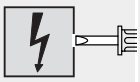
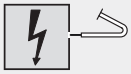
The resistive performance of fittings to solids and liquids is indicated by the IP (Ingress Protection) prefix followed by two numbers.

The first number indicates the measure of protection against the ingress of solids. For instance: IP 2X

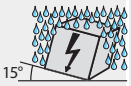
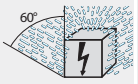
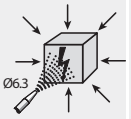
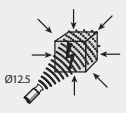
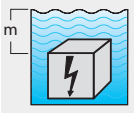
The second number indicates the measure of protection against the ingress of liquids. For instance: IP X1

Ingress Protection (IP) Specification Guide

Protection against the ingress of solid objects IP.1X

IP No.	Example	Protection against contact and ingress of objects	Tests	Symbol
IP 1X		Protected against solid objects greater than 50mm ø	A large surface of the body, such as a hand (but no protection against deliberate access). Solid objects exceeding 50 mm in diameter.	
IP 2X		Protected against solid objects greater than 12mm ø	Fingers or similar objects not exceeding 80 mm in length. Solid objects exceeding 12mm in diameter.	
IP 3X		Protected against solid objects greater than 2.5mm ø	Tools, wires, etc., of diameter or thickness greater than 2.5mm. Solid objects exceeding 2.5mm in diameter.	
IP 4X		Protected against solid objects greater than 1.0mm ø	Wires or strips of thickness greater than 1.0mm. Solid objects exceeding 1.0 mm in diameter.	
IP 5X		Dust protected	Ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.	
IP 6X		Dust tight	No ingress of dust.	

Protection against the ingress of liquids IP.X1

IP No.	Example	Protection against contact and ingress of water	Tests	Symbol
IP X1		Protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effect	
IP X2		Protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at any angle up to 15° from its normal position	
IP X3		Protected against spraying water	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect	
IP X4		Protected against splashing water	Water splashed against the enclosure from any direction hall have no harmful effect	
IP X5		Protected against water jets	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect	
IP X6		Protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities	
IP X7		Protected against the effects of immersion	Ingress of water in a harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time	
IP X8		Protected against submersion	The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer. NOTE Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.	

IK ratings

Degree of Impact Protection EN62262.

IK rating system is an International classification showing degrees of protection provided by luminaires against external mechanical impacts.

Number	Measure of protection – impact energy (joules)	Test
IK00	No protection to this standard -	
IK01	0.15	0.20 kg impact
IK02	0.20	0.20 kg impact
IK03	0.35	0.20 kg impact
IK04	0.50	0.20 kg impact
IK05	0.70	0.20 kg impact
IK06	1.00	0.50 kg impact from 200mm
IK07	2.00	0.50 kg impact from 400mm
IK08	5.00	1.70 kg impact from 295mm
IK09	10.00	5.00 kg impact from 200mm
IK10	20.00	5.00 kg impact from 400mm

When higher impact energy protection is required 50 joules is recommended.

PC Diffuser
PC = PolyCarbonate characteristics
- Good impact resistance
- Good resistance against ageing
- Fair UV resistance
- Excellent transparency
- Halogen & Silicon free
- Good heat resistance
- Stainless steel diffuser clip

PMMA Diffuser
PMMA = PolyMethylMethAcrylate characteristics
- Excellent resistance against ageing
- Hard, strong, scratch-resistant
- Good UV resistance
- Excellent transparency
- Halogen & Silicon free
- Fair heat resistance

Acrylic Diffuser
SAN = Styrol-Acrylnitril Characteristics
- Good chemical resistance
- Most of the SAN material can be used for the food industry
- Good resistance against water, aqueous salt solutions, detergent solutions
- Limit resistance against alcohol, oil, fat
- Fair UV resistance
- Good resistance against ageing
- Stainless steel diffuser clip

Chemical Resistance Table

	SLYPROOF TUBULAR	START TUBULAR	SYLPROOF SUPERIA			HYDROPROOF 2		START WATERPROOF
			BODY PC			BODY GRP		BODY PC
	Diffuser PC	Diffuser PC	Diffuser Acrylic	Diffuser PC	Diffuser PC RAPID Versions	Diffuser PMMA	Diffuser PC	Diffuser PC
Ammonia <25%	🔴	🔴	🔴	🔴	🔴	🔴	🔴	🔴
Acetic Acid <5%	🟡	🟢	🔴	🟢	🟢	🟢	🟢	🟢
Acetic Acid <10%	🔴	🟡	🔴	🟡	🟡	🟢	🟡	🟡
Acetic Acid <30%	🔴	🔴	🔴	🔴	🔴	🔴	🔴	🔴
Alcohol <30%	🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
Aluminium Chloride	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Aluminium Sulphate	🟡	🟡	🟡	🟡	🟡	🟡	🟡	🟡
Ammonium Nitrate	🟢	🟢	🟢	🟢	🟢	🔴	🟢	🟢
Ammonium Phosphate 10%	🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
Boric Acid	🔴	🔴	🟢	🔴	🔴	🟢	🔴	🔴
Carbon Dioxide	🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
Carbon Monoxide	🟡	🟡	🟡	🟡	🟡	🟢	🟡	🟡
Carbon Tetrachloride	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Caustic Soda 2%	🔴	🔴	🔴	🔴	🔴	🟡	🔴	🔴
Ether	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Formic Acid 10%	🔴	🟡	🟡	🟡	🟡	🔴	🟡	🟡
Gallic Acid	🟢	🟢	🟢	🟢	🟢	🟡	🟢	🟢
Glycerin	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Hydrocarbon	🔴	🔴	🟡	🟢	🟢	🟡	🟢	🟢
Hydrochloric Acid 15%	🔴	🔴	🔴	🔴	🔴	🟡	🔴	🔴
Hydraulic Oil	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Kerosene	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Lactic acid	🟡	🟡	🟡	🟡	🟡	🟡	🟡	🟡
Linseed oil	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Lubricating Oil	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Mineral Spirit	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Nitric Acid 10%	🔴	🟡	🟡	🟡	🟡	🔴	🟡	🟡
Hydrogen Peroxide (Perhydrol)	🟡	🟢	🟢	🟢	🔴	🟢	🟢	🟢
Petroleum	🟡	🟡	🟡	🟡	🟡	🟢	🟡	🟡
Phenol	🔴	🔴	🔴	🔴	🔴	🔴	🔴	🔴
Seawater	🟡	🟡	🟡	🟡	🟡	🟡	🟡	🟡
Sodium chloride	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Sodium hydroxide 10%	🔴	🔴	🔴	🔴	🔴	🔴	🔴	🔴
Sulphuric acid 37.5% - Battery	🟡	🟢	🟢	🟢	🔴	🟡	🟢	🟢
Turpentine	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Vegetable oils	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴
Xylene	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴

🟢 = Resistant 🟡 = Semi-Resistant 🔴 = Non-Resistant

This information should only be used as a guide. The true chemical compatibility can only be determined under the actual conditions in the final application. Please contact your local representative if any additional information is required.

PMMA	PC	GRP
Soap	Soap	Soap
Soda solution	Ajax	Soda solution 2-5%
Petrol pure	Dor	Special GRP cleaner
Ajax	Fewa	Turpentine
Dor	Plexiclear	Warm water
Fewa	Pril	Clear alcohol
Plexiclear	Sidolin	
Pril	Silicon oil Graffiti cleaner Kerosene	

The effects of chemicals on materials

No material can withstand the effects of every chemical. The effects of chemicals vary widely. The accompanying tables therefore only provide a brief overview of frequently encountered applications and chemical effects and is provided for guidance only. The information given is valid under the following conditions: the chemical substance listed in the table is an element and not part of a chemical compound.

Since some of our luminaires are made of plastic materials, their resistance against chemical products may be limited or even nil. Consult this list before using aggressive detergents, disinfectants or installing the luminaire in chemical hazardous areas (as car washes, swimming pools, industrial kitchens, industrial laundries, slaughterhouses, stables, cultivation farms, etc ...) or in case of doubt, please contact us. For these conditions, appropriate products (like stainless steel clips, etc...) are available.

Control Gear:	Electronic
Dimmable:	DALI dimmable
Microwave sensor:	Sylvania microwave sensor
Diffuser:	Extruded Polycarbonate UV stabilised 850° diffuser
Protection:	IP68, IK10

- Sylproof tubular LED is a range of weatherproof luminaires that offers IP68 protection against moisture and dust
- Ideal solution for indoor applications such as car parks, transit areas, storage / warehouses as well as under canopy for external locations
- Impressive performance: 49W twin 4,000K delivers 5,821lm (luminaire lumen output), equating to 120lm/W (total system efficiency)
- Energy efficient electronic drivers including DALI dimmable and DALI dimmable with microwave sensor as standard to achieve further savings
- Comes ready to install with 304L stainless steel fixing brackets for ceiling mounting and 304L Stainless steel end caps

Sylproof Tubular LED

Sylproof Tubular LED

- LED Tubular luminaire with attractive opaque acrylic appearance
- Wieland connector included for rapid installation and connector for fast installation
- 49W (1500mm LED length) twin 4,000K delivers 5,821lm (luminaire lumen output), equating to 119lm/W (total system efficiency)
- Warm white (3,000K) and neutral white (4,000K)
- Energy efficient Electronic drivers including DALI dimmable and DALI dimmable with microwave sensor versions as standard
- O ring sealing for a high protection class: IP68
- 304L Stainless steel fixing brackets for ceiling mounting
- 304L Stainless steel end caps
- 40,000 hours life at 70% of the original output L70

LIGHT SOURCE INCLUDED

IP68 IK06 CE 650°C

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Electronic 4,000K

Code	Description
4,000K	
0047580	SYLPROOF TUBULAR LED SINGLE 600 4,000K
0047581	SYLPROOF TUBULAR LED SINGLE 1,200 4,000K
0047582	SYLPROOF TUBULAR LED SINGLE 1,500 4,000K
0047583	SYLPROOF TUBULAR LED TWIN 600 4,000K
0047584	SYLPROOF TUBULAR LED TWIN 1,200 4,000K
0047585	SYLPROOF TUBULAR LED TWIN 1,500 4,000K

Emergency 3 hour 4,000K

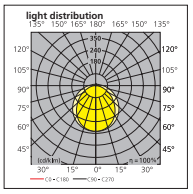
Code	Description
0047593	SYLPROOF TUBULAR LED SINGLE 1,200 4,000K E3
0047594	SYLPROOF TUBULAR LED SINGLE 1,500 4,000K E3
0047596	SYLPROOF TUBULAR LED TWIN 1,200 4,000K E3
0047597	SYLPROOF TUBULAR LED TWIN 1,500 4,000K E3

DALI dimmable 4,000K

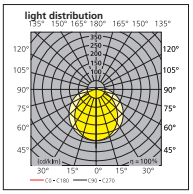
Code	Description
4,000K	
0047598	SYLPROOF TUBULAR LED SINGLE 600 DALI 4,000K
0047599	SYLPROOF TUBULAR LED SINGLE 1,200 DALI 4,000K
0047600	SYLPROOF TUBULAR LED SINGLE 1,500 DALI 4,000K
0047601	SYLPROOF TUBULAR LED TWIN 600 DALI 4,000K
0047602	SYLPROOF TUBULAR LED TWIN 1,200 DALI 4,000K
0047603	SYLPROOF TUBULAR LED TWIN 1,500 DALI 4,000K

Legend: DALI = DALI dimmable; MW = Sylvania MicroWave sensor; NW = Neutral White (4,000K) lamp

** DALI Emergency versions available on request*



32W - 4,000K



49W - 4,000K

Technical data

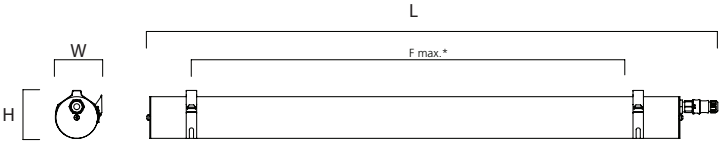
- For ambient temperatures -20°C to 25°C with electronic control gear

Dimensions (mm)

Lamp	L	W	H	F
600	738	112	115	500
1,200	1,338	112	115	1,100
1,500	1,638	112	115	1,400

Sylproof Tubular 4000K Performance Matrix

Lamp	Lumen Output lm	Power Consumption W	Efficiacy lm/w
600 mm Single	1338	13	103
600 mm Twin	2269	21	108
1200 mm Single	2734	26	105
1200 mm Twin	4264	39	109
1500 mm Single	3352	32	105
1500 mm Twin	5821	49	119



* Clips fit everywhere along length of fitting providing additional flexibility in its installation

Bracket

End cap - Exploded view

Electronic & Microwave sensor (ON/OFF) 4,000K

Code 4,000K	Description
0047610	SYLPROOF TUBULAR LED SINGLE 600 MW 4,000K
0047611	SYLPROOF TUBULAR LED SINGLE 1,200 MW 4,000K
0047612	SYLPROOF TUBULAR LED SINGLE 1,500 MW 4,000K
0047613	SYLPROOF TUBULAR LED TWIN 600 MW 4,000K
0047614	SYLPROOF TUBULAR LED TWIN 1,200 MW 4,000K
0047615	SYLPROOF TUBULAR LED TWIN 1,500 MW 4,000K

DALI dimmable & microwave sensor 4,000K (100%-10%-0%)

Code 4,000K	Description
0047622	SYLPROOF TUBULAR LED SINGLE 600 DALI MW 4,000K
0047623	SYLPROOF TUBULAR LED SINGLE 1,200 DALI MW 4,000K
0047624	SYLPROOF TUBULAR LED SINGLE 1,500 DALI MW 4,000K
0047625	SYLPROOF TUBULAR LED TWIN 600 DALI MW 4,000K
0047626	SYLPROOF TUBULAR LED TWIN 1,200 DALI MW 4,000K
0047627	SYLPROOF TUBULAR LED TWIN 1,500 DALI MW 4,000K

Legend: RAP = RAPid versions; EB = Electronic Ballast; DALI = DALI dimmable; MW = Sylvania MicroWave sensor; NW = Neutral White (4,000K) lamp; WW = Warm White (3,000K) lamp

LIGHT SOURCE INCLUDED

IP68 IK06 CE 650°C

Accessories

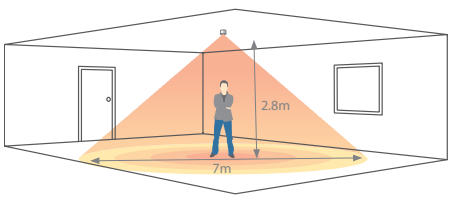
Antivandal kit

Anti-vandal kit fitted on connector

3P or 5P splitter connector

Programming handset

Handheld programming device



Detection Pattern

Features

- Dual adjustable sensitivities (on and off)
- Wide detection area (see diagram below)
- Uses microwave technology for better detection
- IR handset for override-on/off, and sensitivity adjustment.
- Should not be used if mounted on suspension cables or areas sensitive to vibration / movement

Accessories

Code	Description
0042490	Tubular antivandal kit
0042491	Tubular 3P splitter connector
0042492	Tubular 5P splitter connector

Sylvania Microwave Sensor

Code	Description
0041562	Programming handset for lux level sensing and dimming detectors
0041546	Handheld programming device

Blackpool Hospital - Blackpool, England

Control Gear:	Electronic
Dimmable:	DALI dimmable
Emergency:	Emergency 3 hour
Diffuser:	UV stabilised Polycarbonate body and diffuser IK08

- The range is the perfect solution for applications such as covered car parks, storage areas, industrial environments and under canopy applications
- The range benefits from a Polycarbonate diffuser and body offering IP65 protection against moisture and dust, and an impact rating of IK08
- Sylproof Superia LED comes complete with stainless steel clips as standard
- Hydroproof GRP / PMMA versions also available

Sylproof Superia LED G3

1 LED version

2 LED version

- LED integrated waterproof fixture in 660mm,1200mm,1500mm nominal length (single or twin housing).
- High efficiency throughout the range with up to 155lm/W system efficiency and 50,000 hours lifetime at L80 B50
- Body and diffuser made from polycarbonate (IK08)
- UV stabilized flat polycarbonate diffuser with linear prisms designed to achieve uniform lit appearance, optimize light output and to reduce glare
- Stainless steel diffuser clips and fixing brackets for surface and wall mounting
- Hydroproof Gen 3 GRP/PMMA body/diffuser versions also available

LIGHT SOURCE INCLUDED

SYLSMART

Sylsmart versions please see Sylsmart section for details

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

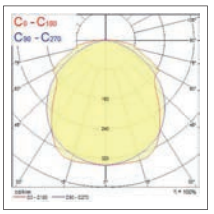
Code	Description
Standard	
0048689	SYLPROOF SUPERIA LED G3 600mm Single 4,000K
0048690	SYLPROOF SUPERIA LED G3 600mm Twin 4,000K
0048693	SYLPROOF SUPERIA LED G3 1200mm Single 4,000K
0048694	SYLPROOF SUPERIA LED G3 1200mm Twin 4,000K
0048712	SYLPROOF SUPERIA LED G3 1500mm Single 4,000K
0048713	SYLPROOF SUPERIA LED G3 1500mm Twin 4,000K

Code	Description
DALI	
0048691	SYLPROOF SUPERIA LED G3 600mm Single 4,000K DALI
0048692	SYLPROOF SUPERIA LED G3 600mm Twin 4,000K DALI
0048697	SYLPROOF SUPERIA LED G3 1200mm Single 4,000K DALI
0048698	SYLPROOF SUPERIA LED G3 1200mm Twin 4,000K DALI
0048716	SYLPROOF SUPERIA LED G3 1500mm Single 4,000K DALI
0048717	SYLPROOF SUPERIA LED G3 1500mm Twin 4,000K DALI

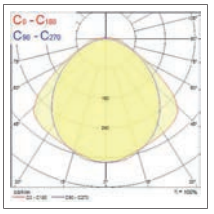
Code	Description
Microwave Detectors	
0048695	SYLPROOF SUPERIA LED G3 1200mm Single 4,000K MW
0048696	SYLPROOF SUPERIA LED G3 1200mm Twin 4,000K MW
0048699	SYLPROOF SUPERIA LED G3 1200mm Single 4,000K MWDIM
0048700	SYLPROOF SUPERIA LED G3 1200mm Twin 4,000K MWDIM
0048714	SYLPROOF SUPERIA LED G3 1500mm Single 4,000K MW
0048715	SYLPROOF SUPERIA LED G3 1500mm Twin 4,000K MW
0048718	SYLPROOF SUPERIA LED G3 1500mm Single 4,000K MWDIM
0048719	SYLPROOF SUPERIA LED G3 1500mm Twin 4,000K MWDIM

Code	Dedcription
SylSmart Connected Building	
0048701	SYLPROOF SUPERIA LED G3 1200mm Single 4,000K SSH01
0048702	SYLPROOF SUPERIA LED G3 1200mm Twin 4,000K SSH01
0048720	SYLPROOF SUPERIA LED G3 1500mm Single 4,000K SSH01
0048721	SYLPROOF SUPERIA LED G3 1500mm Twin 4,000K SSH01

Code	Description
Emergency 3 hour	
0048703	SYLPROOF SUPERIA LED G3 1200mm Single 4,000K E3
0048704	SYLPROOF SUPERIA LED G3 1200mm Twin 4,000K E3
0048708	SYLPROOF SUPERIA LED G3 1200mm Single 4,000K DALI E3
0048709	SYLPROOF SUPERIA LED G3 1200mm Twin 4,000K DALI E3
0048705	SYLPROOF SUPERIA LED G3 1200mm Twin 4,000K E3 MW
0048710	SYLPROOF SUPERIA LED G3 1200mm Twin 4,000K E3 MWDIM
0048711	SYLPROOF SUPERIA LED G3 1200mm Twin 4,000K E3 SSH01
0048722	SYLPROOF SUPERIA LED G3 1500mm Single 4,000K E3
0048723	SYLPROOF SUPERIA LED G3 1500mm Twin 4,000K E3
0048727	SYLPROOF SUPERIA LED G3 1500mm Single 4,000K DALI E3
0048728	SYLPROOF SUPERIA LED G3 1500mm Twin 4,000K DALI E3
0048724	SYLPROOF SUPERIA LED G3 1500mm Twin 4,000K E3 MW
0048729	SYLPROOF SUPERIA LED G3 1500mm Twin 4,000K E3 MWDIM
0048730	SYLPROOF SUPERIA LED G3 1500mm Twin 4,000K E3 SSH01



4000K Single

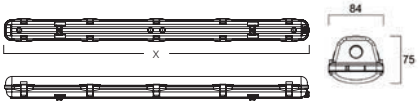


4000K Twin

Sylproof Superia LED 4000k Performance Matrix

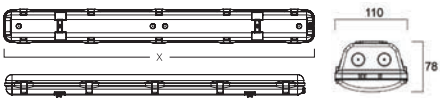
	Lumen Output	Power Consumption	Efficiacy lm/w
1200mm Single	3,900 lm	26W	150 lm/w
1200mm Twin	5,400 lm	36W	150 lm/w
1500mm Single	4,800 lm	31W	155 lm/w
1500mmTwin	6,800 lm	47W	145 lm/w

Sylproof Superia LED single



Dimensions Single (mm)
X
678
1,278
1,578

Sylproof Superia LED twin



Dimensions Twin (mm)
X
678
1,278
1,578

Blackpool Hospital, U.K.

INDUSTRIAL

SYLVANIA

299 Syl-Line

307 HSXG2 Retrofit

311 HSX Syl-Line

315 SylBay LED

319 Sportsbay

WOLF-Garten
SELECT
SF 61 E
WOLF-Garten

Control Gear: Electronic
Dimmable: DALI dimmable
Emergency:: 3 hour emergency
Housing: Steel construction
Finish: White or silver* anodized finishes

* silver versions upon request

- Range of versatile suspended and surface mounted LED luminaires
- Perfect solution for retrofit and new applications
- Able to create modular lighting installations with ease, the range is suitable for open plan applications such as hypermarkets, superstores, warehouses, assembly halls or warehouses
- High performance and efficiency: delivers 6,535lm (luminaire lumen output on Double Asymmetric version), equating to 133lm/W (total system efficiency) without natural light can be lit effectively
- Multitude of optic and diffuser choices, the range suits a broad spectrum of projects

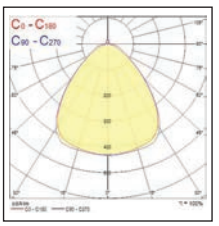
Syl-Line

Syl-Line white double asymmetric beam

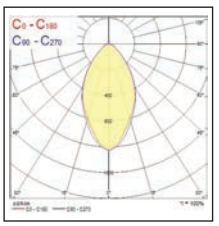
Syl-Line silver narrow or wide beam

- Continuous LED high performance suspended and surface mounted luminaires
- Specifically designed for open space applications such as hypermarkets or superstores, warehouses, assembly halls or storage areas
- 1,720mm or 3,440mm electronic modules
- High performance and efficiency: delivers 6,535lm (luminaire lumen output on Double Asymmetric version), equating to 133lm/W (total system efficiency)
- Choose between 5, 8 or 10 core trunking systems
- Energy efficient Electronic gear including DALI dimmable and Emergency versions as standard
- Choose between narrow, wide and double asymmetric light distribution
- Available in neutral white (4,000K) - Warm white (3,000K) on request
- Available in white and silver anodized finishes
- Prepared for easy mechanical and electrical connection of continuous line
- Plug-and-Play internal electrical connectors
- Quick mechanical connection system via metallic link-plates
- Made at our Saint-Etienne factory, France
- Less maintenance is required due to the long lifetime of 50,000hrs
- Energy class: A++, A+, A

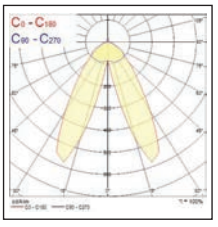
LIGHT SOURCE INCLUDED



Syl-Line - Wide beam



Syl-Line - Narrow beam



Syl-Line - Double asymmetric

White trunking

White Double Asymmetric electrical unit

Syl-Line – Suspension kit

Syl-Line – White Double Asymmetric

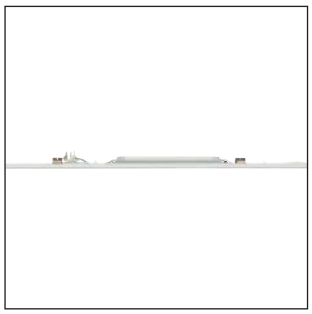
Silver trunking

Silver Narrow (or wide) electrical unit

Syl-Line – Suspension kit

Syl-Line – Silver Narrow (or Wide)

Syl-Line - White electrical unit - Profile view



Syl-Line - White electronic or DALI dimmable electrical unit - Side view

Electronic 4,000K, White

Code	Description
0042112	Syl-Line GT3R 4K Wide Beam
0042113	Syl-Line GT3R 4K Narrow Beam
0042114	Syl-Line GT3R 4K Double Asymmetric

DALI dimmable 4000K, White

Code	Description
0042130	Syl-Line GT3R Wide Beam DALI
0042131	Syl-Line GT3R Narrow Beam DALI
0042132	Syl-Line GT3R Double Asymmetric DALI

Emergency 3 hour 4,000K, White

Code	Description
0042117	Syl-Line GT3R Wide Beam 3h Emg
0042118	Syl-Line GT3R Narrow Beam 3h Emg
0042119	Syl-Line GT3R Double Asymmetric 3h Emg

DALI dimmable & Emergency 3 hour 4,000K, White

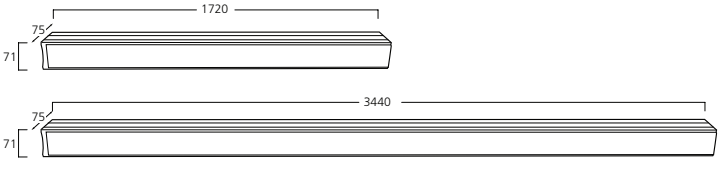
Code	Description
0042134	Syl-Line GT3R Wide Beam DALI Emg
0042135	Syl-Line GT3R Narrow Beam DALI Emg
0042136	Syl-Line GT3R Double Asymmetric DALI Emg

DALI dimmable & Emergency 3 hour EMPRO 4,000K, White

Code	Description
0042138	Syl-Line GT3R Wide Beam DALI EMPRO
0042139	Syl-Line GT3R Narrow Beam DALI EMPRO
0042140	Syl-Line GT3R Double Asymmetric DALI EMPRO

Legend: GT3R = 3 row LED board; 4K = Neutral white (4,000K); WD = Wide beam; NR = Narrow beam; DASY = Double asymmetric beam; DALI = DALI dimmable; EM = Emergency 3 hour; EMPRO = DALI addressable emergency

LIGHT SOURCE INCLUDED



Dimensions (mm)

Syl-Line - White trunk

Syl-Line - Silver trunk

Trunk - White

LIGHT SOURCE INCLUDED

Code	Description
5 - Core Trunking	
0042070	Syl-Line 3.44M TRUNKING 5 CORE WHITE
0042071	Syl-Line 1.72M TRUNKING 5 CORE WHITE
8 - Core Trunking	
0042072	Syl-Line 3.44M TRUNKING 8 CORE WHITE
0042073	Syl-Line 1.72M TRUNKING 8 CORE WHITE
10 - Core Trunking	
0042074	Syl-Line 3.44M TRUNKING 10 CORE WHITE
0042075	Syl-Line 1.72M TRUNKING 10 CORE WHITE
End Feed	
0042076	Syl-Line END FEED WHITE
0042077	Syl-Line MIDDLE FEED WHITE
Cover	
0042080	Syl-Line COVER 3R WHITE

Suspension options

Code	Description
0042255	Syl-Line SURFACE BRACKET 10PCS
0042256	Syl-Line SUSPENSION SET KIT 6M
0042257	Syl-Line SUSPENSION SET KIT 6M 10PCS
0042258	Syl-Line SUSPENSION SET KIT 3M 10PCS
0042259	Syl-Line SURFACE MNT KIT 6M
0042260	Syl-Line SURFACE MNT KIT 6M 10PCS
0042261	Syl-Line SURFACE MNT KIT 3M 10PCS

Syl-Line - End feed white or silver

Syl-Line - Middle feed white or silver

Syl-Line - Cover white or silver

Syl-Line - Bracket

Syl-Line - Suspension kit

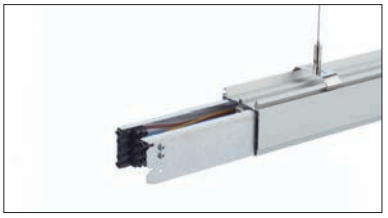
Syl-Line - Surface mounted kit

Length in mm	Electrical Units	1720mm Trunking	3440mm Trunking	Suspension Sets	Starters Feeds
1,720	1	1	-	2	1
3,440	2	-	1	3	1
5,160	3	1	1	3	1
6,880	4	-	2	3	1
8,600	5	1	2	4	1
10,320	6	-	3	4	1
12,040	7	1	3	5	1
13,760	8	-	4	5	1
15,480	9	1	4	6	1
17,200	10	-	5	6	1
18,920	11	1	5	7	1
20,640	12	-	6	7	1
22,360	13	1	6	8	1
24,080	14	-	7	8	1
25,800	15	1	7	9	1
27,520	16	-	8	9	1
29,240	17	1	8	10	1
30,960	18	-	9	10	1
32,680	19	1	9	11	1
34,400	20	-	10	11	1
36,120	21	1	10	12	1
37,840	22	-	11	12	1
39,560	23	1	11	13	1
41,280	24	-	12	13	1
43,000	25	1	12	14	1
44,720	26	-	13	14	1
46,440	27	1	13	15	1
48,160	28	-	14	15	1
49,880	29	1	14	16	1
51,600	30	-	15	16	1
53,320	31	1	15	17	1
55,040	32	-	16	17	1
56,760	33	1	16	18	1
58,480	34	-	17	18	1
60,200	35	1	17	19	1
61,920	36	-	18	19	1

For more information on the Sylvania Syl-Line range, thanks to visit our YouTube page to view our Syl-Line videos or alternatively consult your local salesforce.

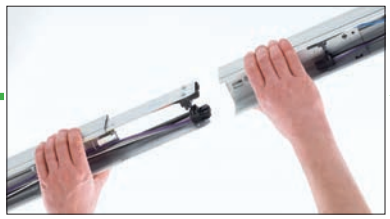
Install Suspension at recommended spacing's

Clip trunking sections into suspension sets



Each trunking run starts with a line End

Align the Line End with trunking unit and slide the connections together



Align the Line End with trunking unit and slide the connections together

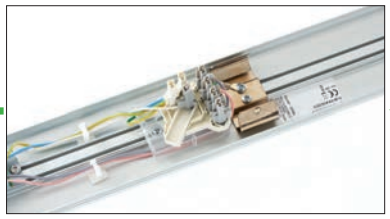
Align the Line End with trunking unit and slide the connections together

Align the Line End with trunking unit and slide the connections together

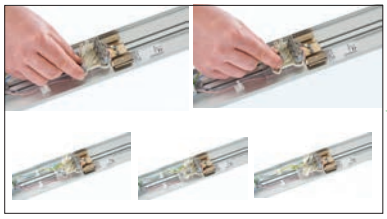
The trunking unit makes both the mechanical and electrical connections

Slide catch over hook to make mechanical fix

Slide catch over hook to make mechanical fix



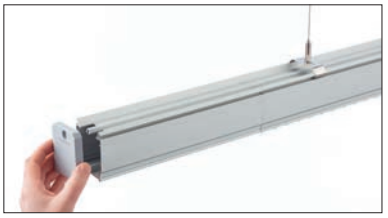
Electrical connection is made the through WAGO Connector



Electrical connection is made the through WAGO Connector Select phases 1, 2 or 3

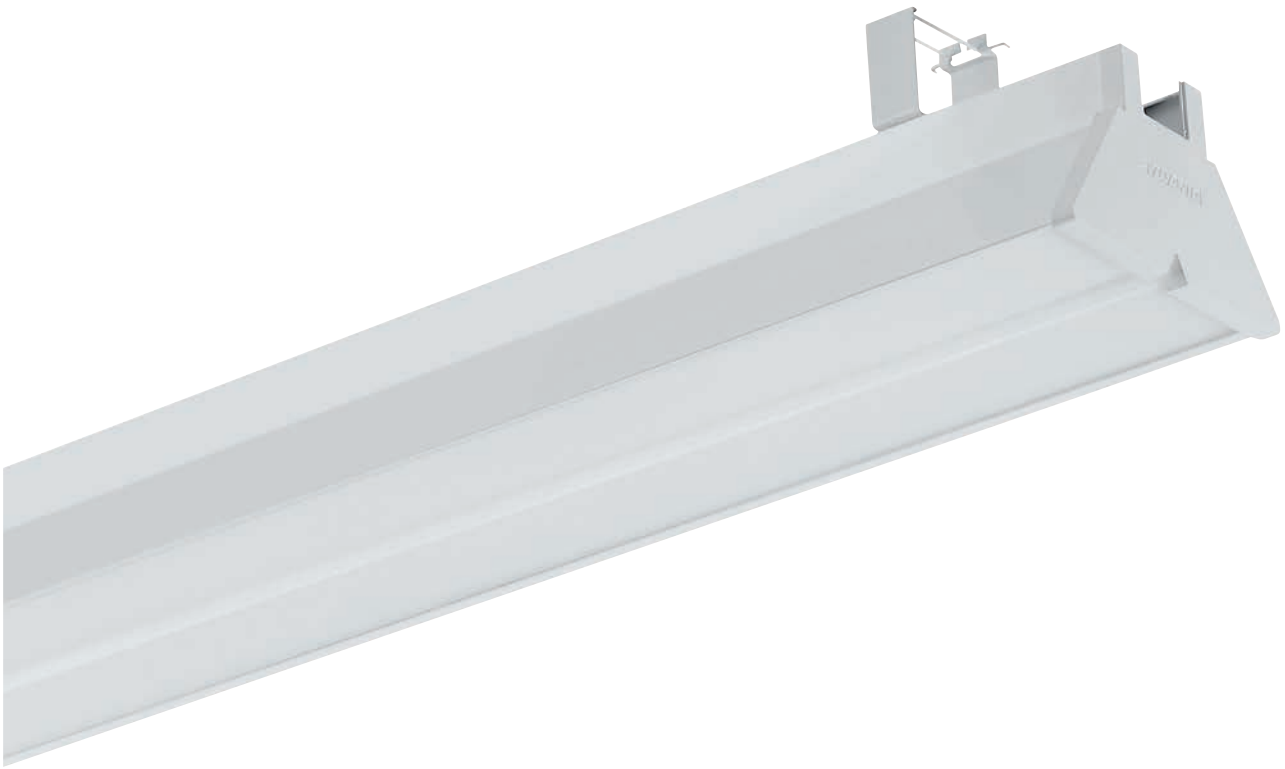
Secure electrical unit to trunking with security cable

Click electrical unit into trunking



Install End Cap

MAGAZINES
CARDS
Anniversary Cards
Get Well
Funny Cards
£1.45
£4.40
£3.80
£6.50
£6.50



Control Gear: Electronic
Dimmable: DALI dimmable
Housing: Aluminium or powder coated steel
Finish: White (RAL9016)

- Range of surface and suspended LED luminaires designed to retrofit onto T5 and T8 trunking systems.
- The smart design allows the end user to upgrade their existing estate from fluorescent to LED without having to change their trunking system. The fixtures are perfect for retail, industry, manufacturing, airports or data centres
- HSX G2 delivers high performance and high efficiency with up to 8,592lm (luminaire lumen output on 58W version), equating to 148lm/W (total system efficiency)
- HSX G2 offers the same aesthetics as the fluorescent version (non dotting) and is easy to install with its plug connector; making it the perfect retrofit solution
- The HSX G2 electrical unit can be simply and quickly attached to the existing trunking through the innovative clip design with the average installation time of a 2,256mm section at just over one minute. This solution has not only been designed around the quality of light but also around the speed of installation and energy saving (up to 60%).

HSX G2 Retrofit

Profile view

Side view

- 29W and 58W LED surface and suspended luminaires
- HSX G2 Retrofit is perfect for retail, industry, manufacturing, airports or data centres
- Enables an update of existing estate by upgrading from fluorescent to LED without having to change the existing trunking
- Available with a white sheet steel reflector and a PMMA Diffuser
- Available in 1,125mm or 2,255mm modules
- High performance: delivers 8,592lm (luminaire lumen output on 58W version), equating to 148lm/W (total system efficiency)
- Available in neutral white (4,000K)
- Integrated LED solution that has the same aesthetics as the fluorescent version (non dotting)
- Energy efficient electronic gear including, DALI dimmable and 3 hour emergency versions as standard
- Ease of installation through the plug connector
- Innovative clip design allows quick and simple installation of the electrical unit (average installation time just over a minute)
- Energy class: A++, A+, A
- Long lifetime: 50,000 hours life at 70% of the original output L70

LIGHT SOURCE INCLUDED

IP20 IK02

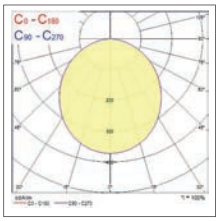
DALI Dimmable

Code	Description	Length (mm)
0041985	HSX G2 RETRO 9C LED4 4,000K DALI	1,131
0041986	HSX G2 RETRO 9C LED8 4,000K DALI	2,256

DALI Dimmable & Emergency 3 hour

Code	Description	Length (mm)
0041987	HSX G2 RETRO 9C LED8 4,000K DALI EM	2,256

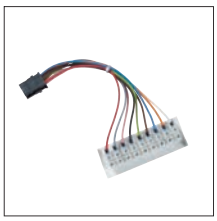
Legend: 9C = 9 core wiring loom; NW = 4,000K Neutral White; DALI = DALI dimmable; EM = Emergency 3 hour



4,000K

Accessories

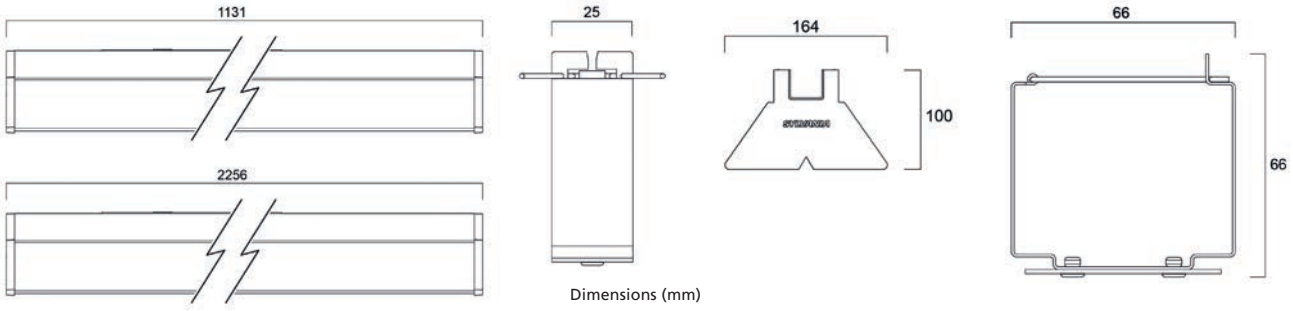
Code	Description
0042295	HSX POWER FEED EXT
0042294	HSX END FEED
0042296	HSX SPARE LOOM
0041988	HSX400 CLIP X 1
0041989	HSX TECTON CLIP X 1
0042299	HSX G2 GEARTRAY INFILL PLATE



HSX POWER FEED EXT

HSX END FEED

HSX SPARE LOOM



Dimensions (mm)

DOMYOS
FIT

INNOVATION
EASYBREATH
see and breathe underwater
just like on dry land
£9 99
FIRST TECHNICAL PRICE

Control Gear:	Electronic
Dimmable:	DALI dimmable
Emergency:	3 hour emergency
Housing:	Steel construction
Finish:	White

- The new HSX Syl-Line combines the best features of the HSX and Syl-Line product ranges - the robustness of Syl-Line trunking with the non dotting opal effect of HSX providing similar aesthetics to traditional fluorescent systems with the energy saving benefits of LED
- The range is perfect for retail, industry, manufacturing, airports or data centres applications
- HSX Syl-Line is available in either 1,720mm or 3,440mm and offers high performance: delivers 6,660lm (luminaire lumen output on 72W version), equating to 93lm/W (total system efficiency)
- The range benefits from an innovative clip design that allows quick and simple installation of the electrical unit (average installation time of the gear tray at just over a minute) – making it a contractor's first choice!

HSX Syl-Line

Profile view

Side view

- 72W LED surface and suspended luminaires
- Extended offering of alternative optics for Syl-Line trunking
- Available with a white sheet steel reflector and a PMMA Diffuser
- Available in 1,720mm (same length as standard Syl-Line gear trays and trunking)
- High performance: delivers 6,660lm (luminaire lumen output on 72W version), equating to 93lm/W (total system efficiency)
- Available in neutral white (4,000K)
- Integrated LED solution that has the same aesthetics as the fluorescent version (non dotting)
- Energy efficient electronic gear including Analogue 1-10V dimmable, DALI dimmable and 3 hour emergency versions as standard
- Innovative clip design allows quick and simple installation of the electrical unit (average installation time of the gear tray at just over a minute)
- Energy class: A++, A+, A
- Long lifetime: 50,000 hours life at 70% of the original output L70

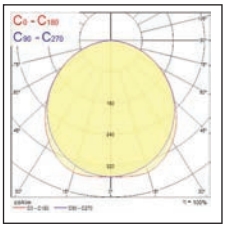
LIGHT SOURCE INCLUDED

IP20 IK02

Gear trays 4000K, White

Code	Description	Length (mm)
Electronic		
0042292	HSXSYL LED 4K EB 1720 WB	1,720
DALI dimmable		
0042288	HSXSYL LED 4K DALI 1720 WB	1,720
Emergency 3 hour		
0042293	HSXSYL LED 4K EB 1720 EM WB	1,720
DALI dimmable & Emergency 3 hour		
0042289	HSXSYL LED 4K DALI 1720 EM WB	1,720

WB = Wide Beam



Syl-Line HSX - 4,000K

How to order HSX Syl-Line

Select a gear tray – 6 options to choose from

Choose your trunking unit - 2 lengths available

End feed

HSX Syl-Line

End feed

Middle feed

Cover

Bracket

Suspension

Surface mounted kit

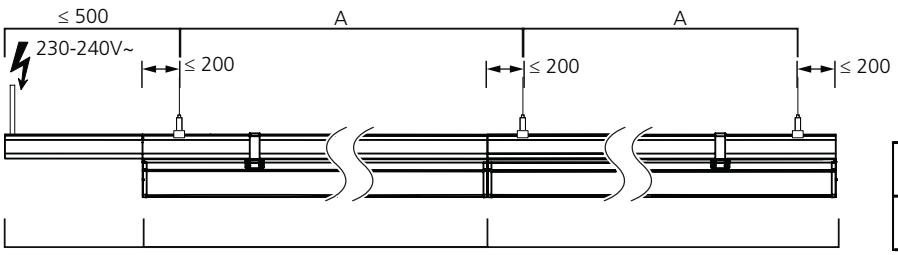
Trunk - White

Code	Description	Length (mm)
5 - Core Trunking		
0042070	Syl-Line 3.44M TRUNKING 5 CORE	3,440
0042071	Syl-Line 1.72M TRUNKING 5 CORE	1,720
8 - Core Trunking		
0042072	Syl-Line 3.44M TRUNKING 8 CORE	3,440
0042073	Syl-Line 1.72M TRUNKING 8 CORE	1,720
End Feed		
0042076	Syl-Line END FEED	-
0042077	Syl-Line MIDDLE FEED	-
Cover		
0042080	Syl-Line COVER 3R	-

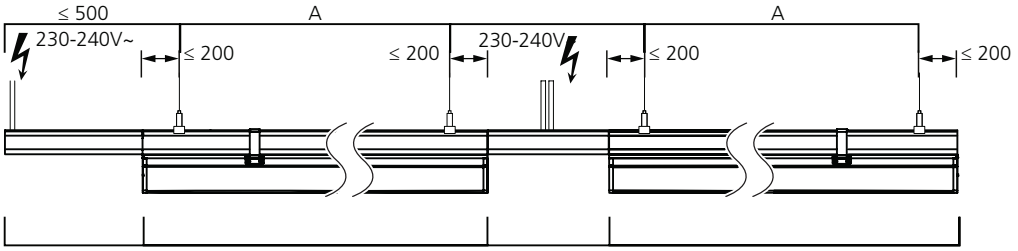
Suspension options

Code	Description
0042255	Syl-Line SURFACE BRACKET 10PCS
0042256	Syl-Line SUSPENSION SET KIT 6M
0042257	Syl-Line SUSPENSION SET KIT 6M 10PCS
0042258	Syl-Line SUSPENSION SET KIT 3M 10PCS
0042259	Syl-Line SURFACE MNT KIT 6M
0042260	Syl-Line SURFACE MNT KIT 6M 10PCS
0042261	Syl-Line SURFACE MNT KIT 3M 10PCS

LIGHT SOURCE INCLUDED



	A	B	MCB 16A Tybe B
	≤ 1720	1720	x 12
	≤ 3440	3440	x 6



Dimensions (mm)

Control Gear: Electronic
Dimmable: Analogue 1-10V dimmable or DALI dimmable
Housing: Steel construction
Finish: Aluminium

- SylBay LED is Sylvania's most efficient highbay range yet, perfectly balancing form and functionality. Thanks to its robust and durable design, the range is suitable for assembly and production sites, warehouses, and large hypermarket retail stores.
- SylBay LED not only delivers high performance with up to 37,700lm (luminaire lumen output on 290W twin wide 4,000K version), but also high efficiency with up to 140lm/w (efficacy on 95W single wide 4,000K version).
- SylBay LED benefits from precision optics to assist with EN 12464-1 glare requirements, meaning it is optimised for high-racking and manufacturing environments with very high uniformity and maximum spacing between luminaires.
- Additionally, SylBay LED offers a very long lifetime of 100,000 hours and could help you save up to a further 30% energy with smart controls using our optional on-board intelligence sensor.

SylBay LED

Single body

Twin body

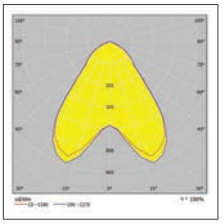
- Up to 140lm/W luminaire system efficacy
- Slim and curved architectural design; looks less intrusive when installed
- Precision optics assisting with UGR22 schemes in accordance to EN 12464-1, optimised for high-racking and manufacturing environments with very high uniformity and maximum spacing between luminaires
- CRI>80 and industry leading colour consistency with 3 SDCM colour tolerance - creates a fresh, natural workplace ambience with very good colour visibility
- Suitable for assembly and production sites, warehouses and large hypermarket retail stores
- Incredibly robust and durable; high resistance to moisture, oxidation and UV radiation
- Long lifetime of 100,000 hours (L90 B10)
- Ambient operating temperature:
  - 40°C to +55°C (13/26KLM versions)
  - 40°C to +50°C (31KLM versions)
  - 40°C to +45°C (18.5/37KLM versions)
- Save up to a further 30% energy with smart controls using our optional on-board intelligence sensor

LIGHT SOURCE INCLUDED

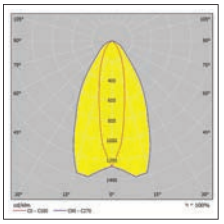
Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

Single Body - DALI Dimmable

Code	Description
Wide Beam	
0039262	SYLBAY LED 4000K 13KLM WIDE DALI
0039263	SYLBAY LED 4000K 18.5KLM WIDE DALI
Aisle Beam	
0039267	SYLBAY LED 4000K 13KLM AISLE DALI
0039268	SYLBAY LED 4000K 18.5KLM AISLE DALI



Single - Wide - 4,000K

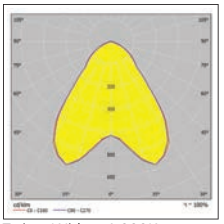


Single - Aisle - 4,000K

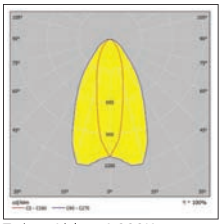
Twin Body - DALI Dimmable

Code	Description
Wide Beam	
0039264	SYLBAY LED 4000K 26KLM WIDE DALI
0039265	SYLBAY LED 4000K 31KLM WIDE DALI
0039266	SYLBAY LED 4000K 37KLM WIDE DALI
Aisle Beam	
0039269	SYLBAY LED 4000K 26KLM AISLE DALI
0039270	SYLBAY LED 4000K 31KLM AISLE DALI
0039271	SYLBAY LED 4000K 37KLM AISLE DALI

Legend: KLM = LuMens (thousands)

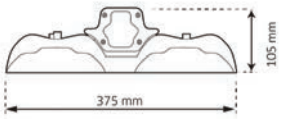


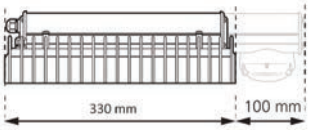
Twin - Wide - 4,000K



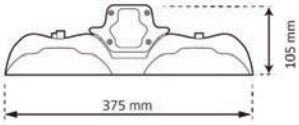
Twin - Aisle - 4,000K

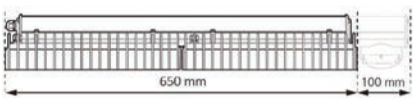
Single





Twin / Double





Dimensions (mm)

SylBay LED - With Integrated Occupancy/Daylight PIR Sensor

Single body

Twin body

- Up to 140lm/W luminaire system efficacy
- Slim and curved architectural design; looks less intrusive when installed
- Precision optics assisting with UGR22 schemes in accordance to EN 12464-1, optimised for high-racking and manufacturing environments with very high uniformity and maximum spacing between luminaires - Optics are moulded in a clear shatter resistant polycarbonate (PC)
- CRI>80 and industry leading colour consistency with 3 SDCM colour tolerance - creates a fresh, natural workplace ambience with very good colour visibility
- Suitable for assembly and production sites, warehouses and large hypermarket retail stores
- Incredibly robust and durable; high resistance to moisture, oxidation and UV radiation
- Long lifetime of 100,000 hours (L90 B10)
- Ambient operating temperature:
  - 40°C to +55°C (13/26KLM versions)
  - 40°C to +50°C (31KLM versions)
  - 40°C to +45°C (18.5/37KLM versions)
- Save up to a further 30% energy with smart controls using our optional on-board intelligence sensor

LIGHT SOURCE INCLUDED

Have you considered the use of a lighting control solution? For more information on how you could achieve up to 65% energy savings, see Lighting controls section

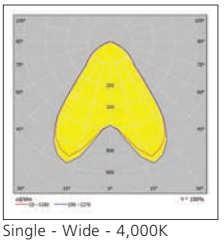
Single Body - Analogue 1-10V Dimmable with Integrated Occupancy / Daylight Passive InfraRed (PIR) Sensor

Code	Description
Wide Beam	
0039272	SYLBAY LED 4000K 13KLM WIDE 1-10V PIR
0039273	SYLBAY LED 4000K 18.5KLM WIDE 1-10V PIR
Aisle Beam	
0039277	SYLBAY LED 4000K 13KLM AISLE 1-10V PIR
0039278	SYLBAY LED 4000K 18.5KLM AISLE 1-10V PIR

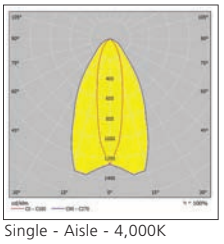
Twin Body - Analogue 1-10V Dimmable with Integrated Occupancy / Daylight Passive InfraRed (PIR) Sensor

Code	Description
Wide Beam	
0039274	SYLBAY LED 4000K 26KLM WIDE 1-10V PIR
0039275	SYLBAY LED 4000K 31KLM WIDE 1-10V PIR
0039276	SYLBAY LED 4000K 37KLM WIDE 1-10V PIR
Aisle Beam	
0039279	SYLBAY LED 4000K 26KLM AISLE 1-10V PIR
0039280	SYLBAY LED 4000K 31KLM AISLE 1-10V PIR
0039281	SYLBAY LED 4000K 37KLM AISLE 1-10V PIR

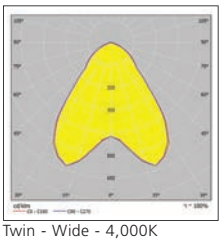
Legend: KLM = LuMens (thousands)



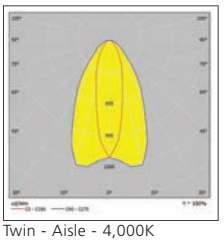
Single - Wide - 4,000K



Single - Aisle - 4,000K

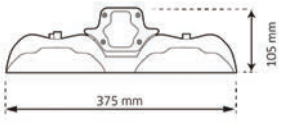


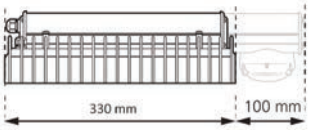
Twin - Wide - 4,000K



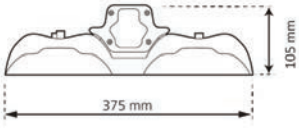
Twin - Aisle - 4,000K

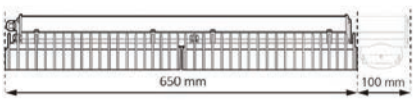
Single





Twin / Double





Dimensions (mm)

Accessories

Suspension set

Remote Programmer

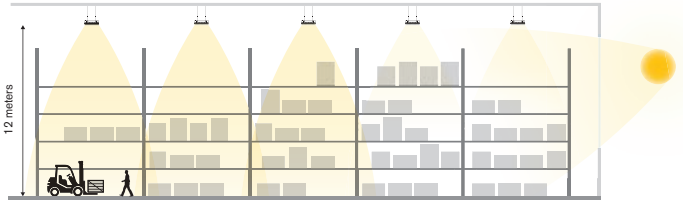
Front Wire Guard

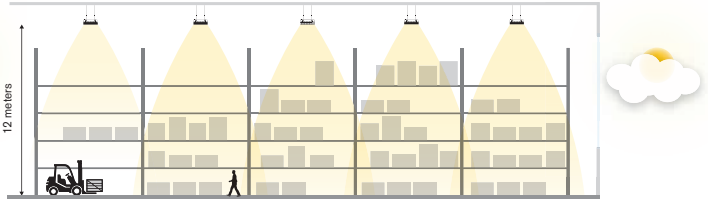
Adjustable Surface Kit

Accessories

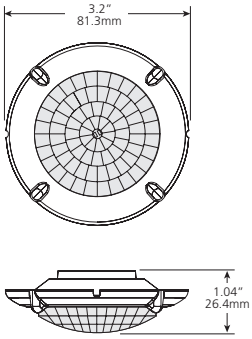
Code	Description
0039282	SYLBAY LED 3M WIRE SUSPENSION SET
0039283	SYLBAY LED PIR REMOTE PROGRAMMER
0039284	SYLBAY LED FRONT WIRE GUARD
0039285	SYLBAY LED ADJUSTABLE SURFACE KIT

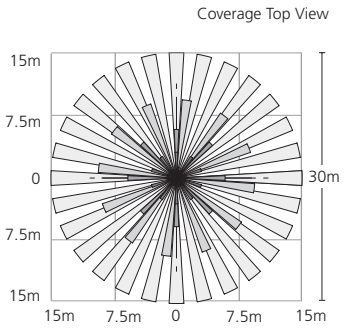
Daylight Detection

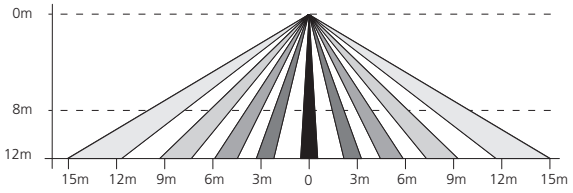




PIR Occupancy / Daylight Sensor with Easy Programming

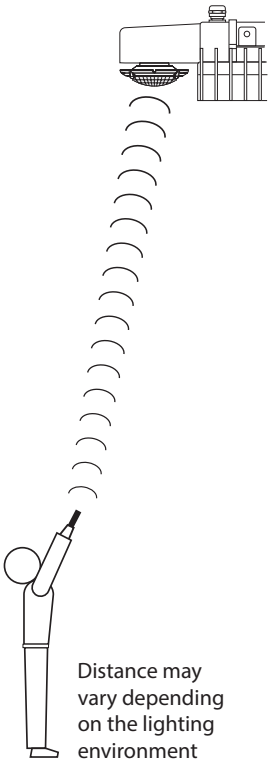




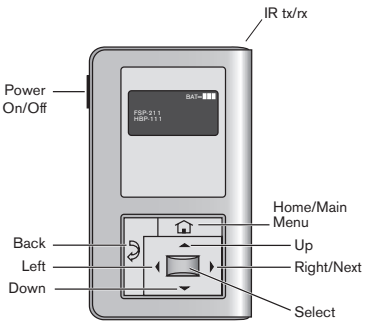


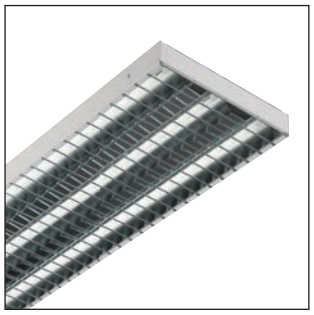
360° Coverage

Covers a 30m diameter area at a height of 12m



Distance may vary depending on the lighting environment



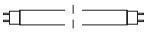


3-Lamp version

4-Lamp version

- 49W & 80W T5 linear fluorescent high bay luminaires
- Available in three and four way versions (supplied with Sylvania fluorescent lamps)
- Designed for areas where wire guard helps to protect the lamps from impact, such as sports halls
- Can be used as a pendant or a surface mounted luminaire
- Neutral white (4,000K lamp)
- Energy efficient Electronic gear tray including 3 hour emergency versions as standard
- 2-circuit switching
- Rapid installation, pre-fitted with Wieland connector
- Retained diffuser for easy maintenance
- Conform to DIN VDE 0710-13 ball test standard

LIGHT SOURCE INCLUDED

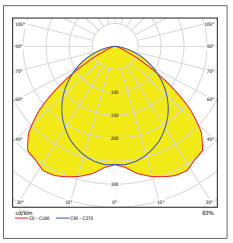


Luxline® Plus T5/T16 FHO
49/80W G5 4900/7000lm

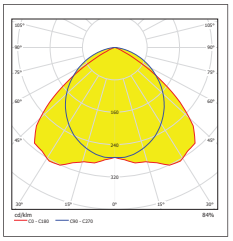
T5 LED versions available upon request

Electronic

Code	Description
0057908	Sportsbay Extensive 3 x 49W RAP. 840
0057909	Sportsbay Extensive 4 x 49W RAP. 840
0057910	Sportsbay Extensive 3 x 80W RAP. 840
0057911	Sportsbay Extensive 4 x 80W RAP. 840



3 x 49W



4 x 49W

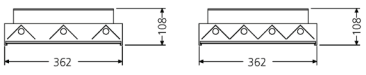
Emergency 3 hour

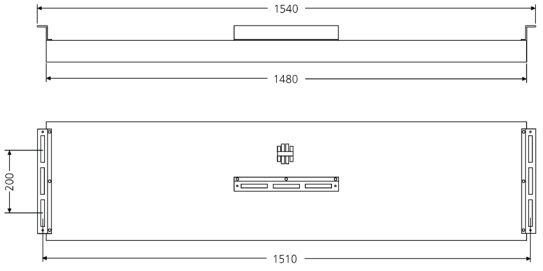
Code	Description
0057912	Sportsbay Extensive 3 x 49W RAP. 840 3H Emer.
0057913	Sportsbay Extensive 4 x 49W RAP. 840 3H Emer.
0057914	Sportsbay Extensive 3 x 80W RAP. 840 3H Emer.
0057915	Sportsbay Extensive 4 x 80W RAP. 840 3H Emer.

Legend: RAP = RAPid (supplied with lamps & Wieland connector); 840 = 4,000K lamp, Extensive = Wide Beam

Accessories

Code	Description
0057922	Polycarbonate Cover accessory kit
0057923	Connector - male
0057920	Fixation kit





Dimensions (mm)

Departures
Page 2 of 2
Tue 28 Feb 10:12
Flight
Destination
Time
Status
Gate
EZY6681 Geneva 12:00
EZY6877 Rome 13:45
BD235 Brussels 14:05
FR127 Dublin 14:55
WW5193 Edinburgh 15:30
FR539 Dublin 15:35
FR1675 Londonderry 15:45
FR9388 Girona 15:50
FR1732 Granada 15:50
WW5626 Glasgow 15:50
FR1742 Knock 16:10
WW5477 Amsterdam 16:15
WW5603 Belfast Intl 17:00
Fire exit
E EXIT
FIRE EXIT
Push bar to open
Staff exit

Concord

323 RouteLED II

SYLVANIA

326 LED Exit Suspended

326 Recessed/Flush Exit

326 Wall Mounted Exit

327 Surface LED Exit

327 IP65 M3 Exit Box

327 Twin LED Projector

Jermyn Street, U.K.

Control Gear: Electronic
Integral Sensor: Green charge indicator
Emergency: 3 hours
Reflector: Open area and corridor lenses
Housing: Acrylic

RouteLED II

RouteLed with corridor lens

2059459 - Open

2059459 - Closed

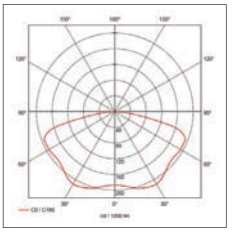
- Miniature ceiling recessed non maintained 3hr emergency 3W (219lm)
- Accent LED downlight with green charge indicator
- Stand alone unit complete with inverter module and Nickel-Metal Hydride battery pack
- Inverter and battery pack using an articulated case pass through a 40mm cutout
- Quick and easy installation with simple plug and socket connections
- Outstanding performance - 9m open area and 19m corridor spacing (see table below)

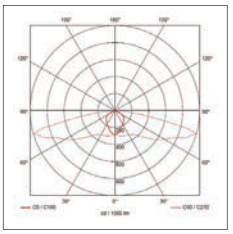
LIGHT SOURCE INCLUDED

IP20 650°C

RouteLED II

Code	Description	Type	Lense	Colour
2059459	RouteLED II Open Area	Standard	Open area	White
2059460	RouteLED II Corridor	Standard	Corridor	White
2059461	RouteLED II Open Area DALI	DALI	Open area	White
2059463	RouteLED II Corridor DALI	DALI	Corridor	White
2059462	RouteLED II SM Accessory	Surface mount accessory	-	White

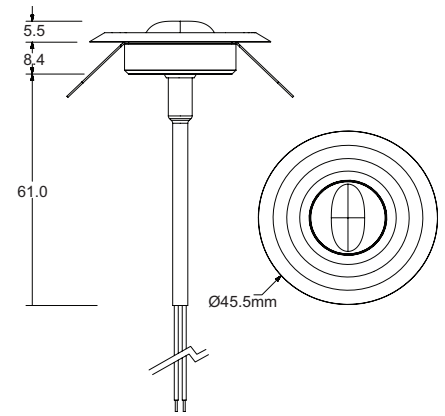

Open area - 220lm

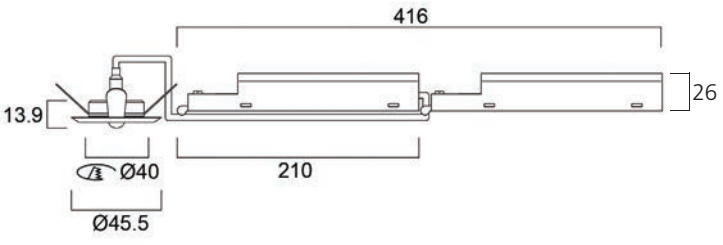

Corridor lens - 220lm

Spacing Table

Room Size 15 x 15m	Open Area Lens		
Mounting height	Wall to fitting	Fitting to fitting	Total Lux
2.7m	3m	9m	1.2lx
3m	3m	9m	1.3lx
4m	3m	9m	1.3lx
5m	3m	9m	1.2lx
6m	3m	9m	1.1lx

Room Size 1.2 x 35m	Corridor Lens		
Mounting height	Wall to fitting	Fitting to fitting	Total Lux
2.7m	7.5m	19.9m	1lx
3m	7.5m	19.9m	1.1lx
4m	7.5m	19.9m	1lx
5m	7.5m	19.9m	1lx
6m	5.4m	12m	1.2lx





Dimensions (mm)

This guide should be read in conjunction with current standards.

Legislation Changes & Requirements

The British Standard BS5266 has been replaced by adopted BS EN1838:2013 which specifies luminous requirements for emergency systems installed in premises.

Emergency lighting is provided for use when the supply to the normal lighting fails and is therefore powered from a source independent of that supplying the normal lighting. For the purposes of this standard Emergency lighting is regarded as a generic term of which there are a number of forms.

Definitions

Emergency EXIT

A way out that is intended to be used in an Emergency.

ESCAPE ROUTE

A route designated for escape in the event of an Emergency.

Emergency ESCAPE LIGHTING

That part of Emergency lighting that provides illumination for the safety of people leaving a location or attempting to terminate a potentially dangerous process before doing so.

ESCAPE ROUTE LIGHTING

That part of Emergency escape lighting provided to ensure that the means of escape can be effectively identified and safely used when the location is occupied.

Emergency OPEN AREA LIGHTING

In some countries this is known as anti-panic lighting. This relates to that part of Emergency escape lighting provided to avoid panic and provide illumination, allowing people to reach a place where an escape route can be identified.

HIGH RISK TASK AREA LIGHTING

That part of Emergency escape lighting that provides illumination for the safety of people involved in a potentially dangerous process or situation and to enable proper shut down procedures for the safety of the operator and other occupants of the premises.

Areas Covered/Levels of Illumination

DEFINED ESCAPE ROUTE

Based on 2m wide on the horizontal plane, preferably 1 lux but not less than 1 lux on the centre line. The lighting provided should operate within 5 seconds of the failure of the normal supply.

OPEN AREA (Sometimes referred to as 'anti-panic' lighting)

Not less than 0.5 lux at floor level of the open space. The ratio of max to min illuminance should be no greater than 40:1.

These extracts are provided for guidance purposes. In order to fully comply with the many elements of the various applicable standards, a full and thorough assessment must be made.

LED Exit Suspended

Recessed / Flush Exit

Wall Mounted Exit Sign

Surface LED Exit (with wire suspension)

- A range of exit signs with legends included (Arrow Up IS0 16069 / Arrow Down EC 92/58/IEC)

LIGHT SOURCE INCLUDED

IP20 850°C

Syl-Safe LED

Code	Description	Type
9154003	LED Exit Suspended	Arrow Left / Right
9154042	LED Exit Suspended	Arrow Down
9154299	LED Exit Suspended	Arrow Up
9150400	Recessed / Flush LED Exit	Arrow Down
9153921	Recessed / Flush LED Exit	Arrow Left / Right
9154207	Recessed / Flush LED Exit	Arrow Up
9150509	Wall Mounted LED Exit Sign	Arrow Down
9154203	Wall Mounted LED Exit Sign Legend only	Arrow Left Legend
9154155	Wall Mounted LED Exit Sign Legend only	Arrow Right Legend
9154267	Wall Mounted LED Exit Sign Legend only	Arrow Up Legend
9144466	Surface LED Exit White	Arrow Down
9150164	Surface LED Exit White	Arrow Left/Right
9154174	Surface LED Exit White	Arrow Up

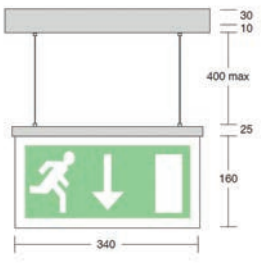
DALI and Selftest versions available on request (except suspended LED)

Surface LED available in silver on request

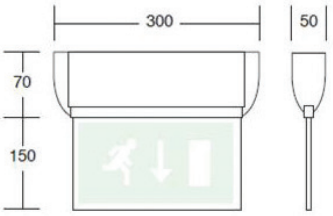
Surface LED Accessories

Code	Description
9144579	Ceiling Bracket
9144467	Wall Bracket
9150482	1m Wire Suspension

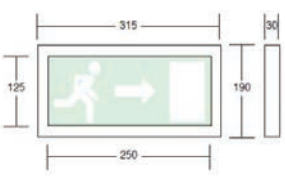
LED Exit Suspended



Surface LED Exit

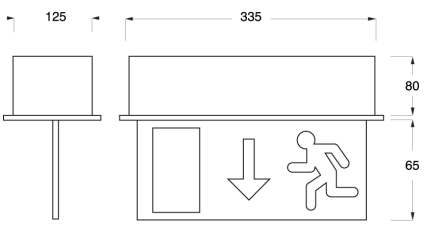


Wall Mounted Exit Sign



Dimensions (mm)

Recessed/Flush Exit



Cut-out size 400 x 130

SylSafe IP65 M3 Exit Box

SylSafe IP65 M3 with Arrow Down Diffuser

- IP65 Polycarbonate body
- Clear Fresnel lens
- Ceiling or Wall mounted
- White flame retardant body and lens impact resistant
- Hinged gear tray for ease of installation and maintenance
- Diffuser with arrow legend accessories available

LIGHT SOURCE INCLUDED

IP65 850°C

LED

Syl-Safe IP65 LED

Code	Description	Type
9144944	LED M3 Exit Box	Surface Mount
9154052	LED Exit Box Selftest	DALI Surface Mount
9154298	Adhesive Legend	-
9154091	Arrow Down Diffuser Accessory	-
9154269	Arrow Left/Right Diffuser Accessory	-
9154135	Arrow Left/Right Diffuser Accessory	-

Recessing Kit

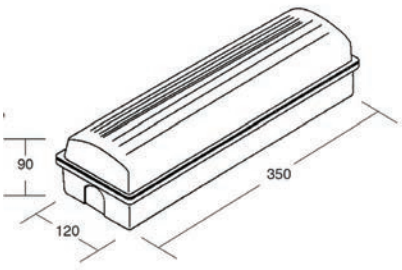
Code	Description
9154168	Recessing Kit

Twin LED Projector 2 x 3W

- 2x3W Twin LED Projector
- 380lm per head
- Provides 3 hour duration with integral NiCd batteries
- Polycarbonate heads, lens and enclosure

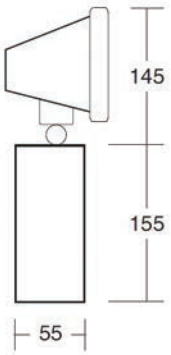
Code	Description
9193765	2x3W Twin LED

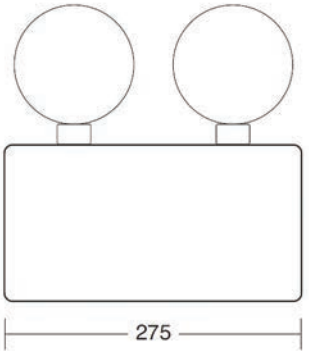
SylSafe IP65 M3 Exit Box



Dimensions (mm)

2x3W Twin LED





Derby Academy - Derby, England

EXTERIOR SURFACE

Concord

332 Brio II

335 Sterling II

336 Monitor II

SYLVANIA

340 InVerto Direct/ Indirect

341 InVerto Direct

342 InVerto Surface Mounted

Control Gear:	Integral electronic gear
Emergency:	Integral, 3hr maintained
Diffuser:	Polycarbonate, satin opal
Housings/Trims:	High pressure die-cast aluminium, anti-corrosion pre-treated prior to powder coating - White RAL 9016, Black RAL 9005 or Silver RAL 9006
Retaining Screws:	Stainless steel

Concord's exterior surface LED range comprises of tough IK10 impact resistant and IP65 sealed LED fixtures. A unique feature allowing a choice between High Efficiency or High Output with the flick of a switch provides an adaptable solution for all outdoor applications.

Brio, Sterling, Monitor LED

- A range of exterior LED bulkheads which offer significant energy savings compared to traditional 2D fixtures
- Brio IP65 LED Bulkhead is perfect for interior and exterior applications including residential and commerical entrance ways
- Unique feature allowing a choice between High Output or High Efficiency with the flick of a switch
- Perfect homogenous light distribution
- Vandal resistant version available
- Available in 3,000K and 4,000K in either Black, White or Silver colour
- High performance: delivers up to 1,371 lm (luminaire lumen output on 4,000K version), and up to 81lm/W (total system efficiency)
- High performance: delivers up to 1,266 lm (luminaire lumen output on 3,000K version), and up to 74lm/W (total system efficiency)
- Long lifetime: 50,000 hours life at 70% of the original output L70
- Mac Adam 3 step

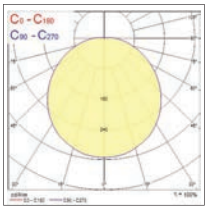
LIGHT SOURCE INCLUDED

IP65 IK10 CE

LED

Brio LED IP65 G2 3,000K

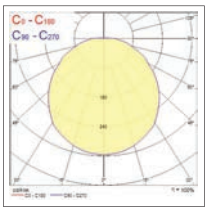
Code	Description
White	
4063784	BRIO IP65 LED 3K WHT G2
4063785	BRIO IP65 LED 3K EM WHT G2
Silver	
4063786	BRIO IP65 LED 3K SIL G2
4063787	BRIO IP65 LED 3K EM SIL G2
Black	
4063788	BRIO IP65 LED 3K BLK G2
4063789	BRIO IP65 LED 3K EM BLK G2



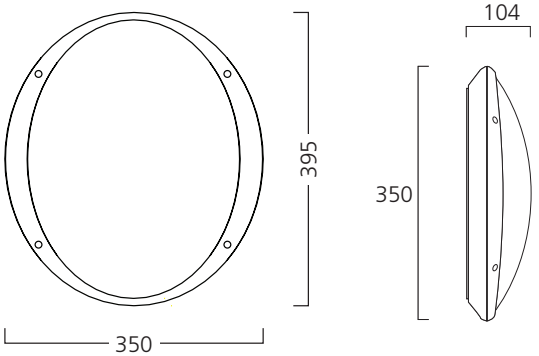
3,000K High Efficiency

Brio LED IP65 G2 4,000K

Code	Description
White	
4063790	BRIO IP65 LED 4K WHT G2
4063791	BRIO IP65 LED 4K EM WHT G2
Silver	
4063792	BRIO IP65 LED 4K SIL G2
4063793	BRIO IP65 LED 4K EM SIL G2
Black	
4063794	BRIO IP65 LED 4K BLK G2
4063795	BRIO IP65 LED 4K EM BLK G2



4,000K High Output



Dimensions (mm)

Technology Comparison Table

Description	Lamp/mA	Fixture Lumens	TOTAL W	Total lm/W
Brio LED	HE 350mA	665	9	74
3K	HO 700mA	1,266	17	74
Brio LED	HE 350mA	717	9	80
4K	H) 700mA	1,371	17	81

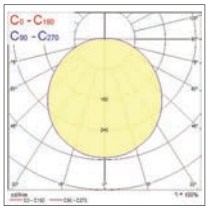
- A range of exterior LED bulkheads which offer significant energy savings compared to traditional 2D fixtures
- Brio IP65 LED Bulkhead is perfect for interior and exterior applications including residential and commerical entrance ways
- Unique feature allowing a choice between High Output or High Efficiency with the flick of a switch
- Perfect homogenous light distribution
- Vandal resistant version
- Tamper proof key and screw accessories available for this range
- Available in 3,000K and 4,000K in either Black, White or Silver colour
- High performance: delivers up to 1,371 lm (luminaire lumen output on 4,000K version), and up to 81lm/W (total system efficiency)
- High performance: delivers up to 1,266 lm (luminaire lumen output on 3,000K version), and up to 74lm/W (total system efficiency)
- Long lifetime: 50,000 hours life at 70% of the original output L70
- Mac Adam 3 step

LIGHT SOURCE INCLUDED

IP65 IK10 CE

Brio LED IP65 G2 Vandal Resistant 3,000K

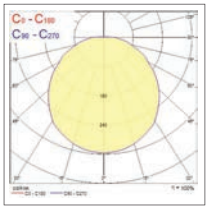
Code	Description
White	
4063803	BRIO IP65VR LED 3K WH G2
4063804	BRIO IP65VR LED 3K EM WH G2
Silver	
4063805	BRIO IP65VR LED 3K SIL G2
4063806	BRIO IP65VR LED 3K EM SIL G2
Black	
4063807	BRIO IP65VR LED 3K BLK G2
4063808	BRIO IP65VR LED 3K EM BLK G2



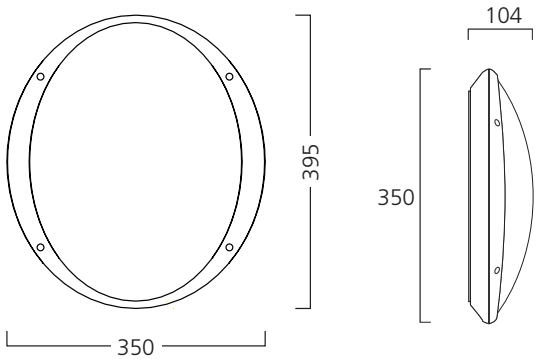
3,000K High Efficiency

Brio LED IP65 G2 Vandal Resistant 4,000K

Code	Description
White	
4063809	BRIO IP65VR LED 4K WH G2
4063810	BRIO IP65VR LED 4K EM WH G2
Silver	
4063811	BRIO IP65VR LED 4K SIL G2
4063812	BRIO IP65VR LED 4K EM SIL G2
Black	
4063813	BRIO IP65VR LED 4K BLK G2
4063814	BRIO IP65VR LED 4K EM BLK G2



4,000K High Output



Dimensions (mm)

Technology Comparison Table

Description	Lamp/mA	Fixture Lumens	TOTAL W	Total lm/W
Brio LED	HE 350mA	665	9	74
3K	HO 700mA	1,266	17	74
Brio LED	HE 350mA	717	9	80
4K	H) 700mA	1,371	17	81

Aintree Race Course, Liverpool, United Kingdom

LIGHT SOURCE INCLUDED

- A range of exterior LED bulkheads which offer significant energy savings compared to traditional 2D fixtures.
- Sterling Bulkhead LED is perfect for interior and exterior applications includinging residential and commerical entrance ways.
- Unique feature allowing a choice between High Output or High Efficiency with the flick of a switch
- Perfect homogenous light distribution
- Available in 3000K and 4000K in either Black or Silver colour
- Hood, X bar and Grille accessories available for this range
- High performance: delivers up to 1,477 lm (luminaire lumen output on 4000K version), and up to 87lm/W (total system efficiency)
- High performance: delivers up to 1,325 lm (luminaire lumen output on 3000K version), and up to 78lm/W (total system efficiency)
- Long lifetime: 50,000 hours life at 70% of the original output L70
- Mac Adam 3 step

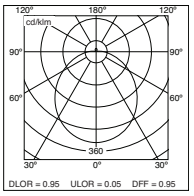
Sterling Bulkhead LED G2 3,000K

Code	Description
Black	
4063831	STER BLKHD LED 3K BLK G2
4063832	STER BLKHD LED 3K BLK EM G2
Silver	
4063833	STER BLKHD LED 3K SIL G2
4063834	STER BLKHD LED 3K SIL EM G2

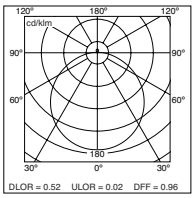
Sterling Bulkhead LED G2 4,000K

Code	Description
Black	
4063835	STER BLKHD LED 4K BLK G2
4063836	STER BLKHD LED 4K BLK EM G2
Silver	
4063837	STER BLKHD LED 4K SIL G2
4063838	STER BLKHD LED 4K SIL EM G2

Legend: 3000K = 3K Warm White; 4K = 4,000K Neutral White; BLK = Black; SIL = Silver



4,000K High Efficiency



4,000K High Output

Hood

3 Bar Grille

X Bar

Accessories

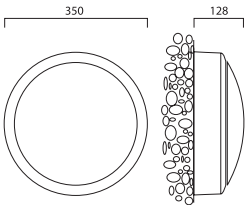
Order in addition to fitting

Code	Description
Black	
4037279	Hood
4037280	3 Bar grille
4037281	X Bar
4169586	Surface Conduit Cover
Silver	
4041005	Hood
4041004	3 Bar grille
4041007	X bar
4192743	Surface Conduit Cover

Technology Comparison Table

Description	Lamp/mA	Fixture Lumens	TOTAL W	Total lm/W
Sterling 3K	HE 350mA	684	9	76
Sterling 3K	HO 700mA	1,325	17	78
Sterling 4K	HE 350mA	759	9	84
Sterling 4K	HO 700mA	1,477	17	87

HE = High Efficiency HO = High Output



Dimensions (mm)

Monitor LED G2

LIGHT SOURCE INCLUDED

- A range of exterior LED bulkheads which offer significant energy savings compared to traditional 2D fixtures.
- Monitor LED is perfect for interior and exterior applications includinging residential and commerical entrance ways.
- Unique feature allowing a choice between High Output or High Efficiency with the flick of a switch
- Perfect homogenous light distribution.
- Available in 3000K and 4000K in either Black or Silver colour
- Hood and Grill accessories available for this range
- High performance: delivers up to 1,493 lm (luminaire lumen output on 4000K version), and up to 88lm/W (total system efficiency)
- High performance: delivers up to 1,377 lm (luminaire lumen output on 3000K version), and up to 81lm/W (total system efficiency)
- Long lifetime: 50,000 hours life at 70% of the original output L70
- Mac Adam 3 step

Monitor LED G2 3,000K

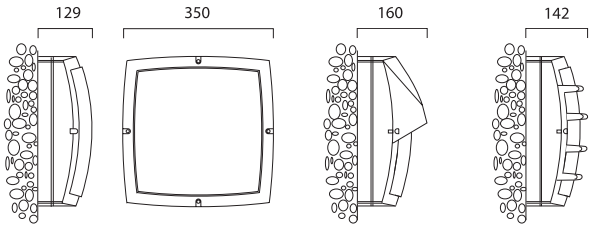
Code	Description
Black	
4063825	MONITOR LED 3K BLK G2
4063826	MONITOR LED 3K EM BLK G2
Silver	
4063827	MONITOR LED 3K SIL G2
4063828	MONITOR LED 3K EM SIL G2

Monitor LED G2 4,000K

Code	Description
Black	
4063821	MONITOR LED 4K BLK G2
4063822	MONITOR LED 4K EM BLK G2
Silver	
4063823	MONITOR LED 4K SIL G2
4063824	MONITOR LED 4K EM SIL G2

Accessories
Order in addition to fitting

Code	Description
Black	
4046028	Hood
4046027	4 Bar grille
Silver	
4045981	Hood



Dimension (mm)

Technology Comparison Table

Description	Lamp/mA	Fixture Lumens	TOTAL W	Total lm/W
Monitor	HE 350mA	717	9	80
3K	HO 700mA	1,377	17	81
Monitor	HE 350mA	776	9	86
4K	HO 700mA	1,493	17	88

Head lice Alert!

Control Gear: Electronic
Diffuser: Vacuum metalised Polycarbonate
Housing: Choice of 3 standard colours: gloss black, matt white, satin silver. Custom colours available upon request - please consult your local sales force for more information

- Built to IP65 standard. Highly resistant to corrosion and sea mist - ISO 9227 (equivalent to ASTM B117)
- Wire to base pluggable connection for a quick and easy installation
- LED technology: reduced energy and maintenance costs. No harmful UV or IR radiation
- Long lifetime - more than 50,000 hours
- Design that fits the contemporary cubic design trend and to ensure continuity of design across a lighting scheme

InVerto

- 30W Direct/Indirect LED luminaire
- Provides a uniform light, while offering a high light output of up to 3,233lm (2 x 1617lm) at 107lm/w 4,000K, 3,130lm total 3,000K
- 3 standard colours: Gloss black, Matt white and Satin silver
- Wire to base with pluggable connection for easy installation
- Comes with a 40° beam as standard.
- Suitable for looping

LIGHT SOURCE INCLUDED

IP65 RoHS WEEE CE

Standard colours

Matt White | Gloss Black | Satin Silver

Custom paint finish suggestions (available upon request)

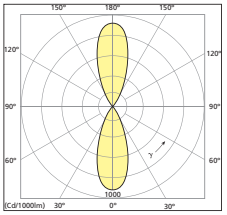
Gloss Orange | Gloss Red | Matt Green | Matt Teal

3,000K

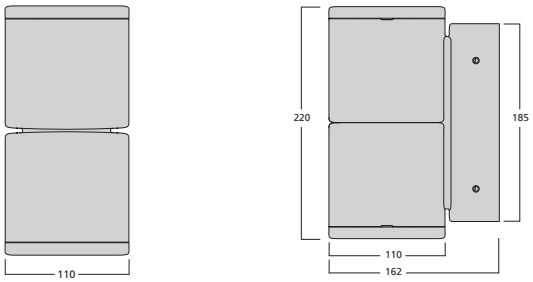
Code Electronic	Description	Body Colour
3080097	InVerto Dir/Ind 3,000K	Gloss black
3080098	InVerto Dir/Ind 3,000K	Matt white
3080099	InVerto Dir/Ind 3,000K	Satin silver

4,000K

Code Electronic	Description	Body Colour
3080037	InVerto Dir/Ind 4,000K	Gloss black
3080038	InVerto Dir/Ind 4,000K	Matt white
3080039	InVerto Dir/Ind 4,000K	Satin silver



Standard 40° beam angle



Dimensions (mm)

- 16W (high efficiency) or 19W (high output) Direct luminaire, selected on installation
- 2 settings:
  – High efficiency: 16W providing 1,617lm at 101lm/w 4,000K, 1,566lm 3,000K
  – High output: 19W providing 2,045lm at 107lm/w, 1,980lm at 3,000K
- 3 standard colours: gloss black, matt white and satin silver
- Comes with a 40° beam as standard.
- Wire to base with pluggable connection for easy installation
- Suitable for looping

LIGHT SOURCE INCLUDED

IP65 RoHS WEEE CE

LED

Standard colours

Matt White | Gloss Black | Satin Silver

Custom paint finish suggestions (available upon request)

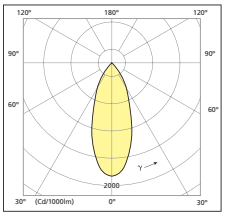
Gloss Orange | Gloss Red | Matt Green | Matt Teal

3,000K

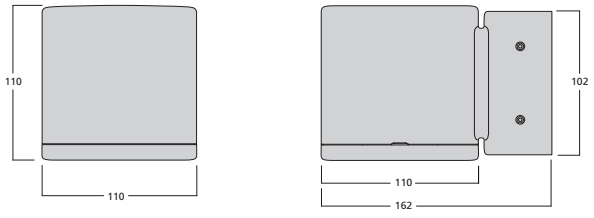
Code Electronic	Description	Body Colour
3080085	Inverto Direct 3,000K	Gloss black
3080086	Inverto Direct 3,000K	Matt white
3080087	Inverto Direct 3,000K	Satin silver

4,000K

Code Electronic	Description	Body Colour
3080025	Inverto Direct 4,000K	Gloss black
3080026	Inverto Direct 4,000K	Matt white
3080027	Inverto Direct 4,000K	Satin silver



Standard 40° beam angle



Dimensions (mm)

- 16W (high efficiency) or 19W (high output) Surface mounted luminaire selected on installation
- 2 settings:
  – High efficiency: 16W providing 1,617lm at 101lm/w 4,000K, 1,566lm 3,000K
  – High output: 21W providing 19W providing 2,045lm at 107lm/w, 1,980lm at 3,000K
- 3 standard colours: gloss black, matt white and satin silver
- Comes with a 40° beam as standard.
- Wire to base with pluggable connection for easy installation
- Suitable for looping

LIGHT SOURCE INCLUDED

IP65 RoHS WEEE CE

LED

Standard colours

Matt White | Gloss Black | Satin Silver

Custom paint finish suggestions (available upon request)

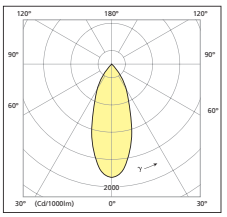
Gloss Orange | Gloss Red | Matt Green | Matt Teal

3,000K

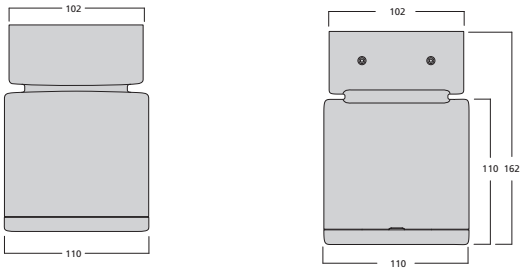
Code Electronic	Description	Body Colour
3080133	InVerto Surface 3,000K	Gloss black
3080134	InVerto Surface 3,000K	Matt white
3080135	InVerto Surface 3,000K	Satin silver

4,000K

Code Electronic	Description	Body Colour
3080073	Inverto Surface 4,000K	Gloss black
3080074	InVerto Surface 4,000K	Matt white
3080075	InVerto Surface 4,000K	Satin silver



Standard 40° beam angle



Dimensions (mm)

BexleyHeath Library, U.K.

SYLSMART INTEGRATED LIGHTING CONTROL

346 SylSmart Connected Building (SSH) Introduction

348 How SylSmart SSH works

350 A lifetime of saving you money

351 Total cost of ownership examples

352 Key application areas – features and benefits

357 Example luminaires with SylSmart

358 Accessories

360 Case Studies

363 SylSmart Standalone - Scene Setting - SSC

SylSmart Connected Building - Introduction

With lighting accounting for around 30% of a commercial building's total energy consumption, effective lighting can have a significant impact on energy savings. Installing LED fixtures can achieve an energy saving of 60%, but there is more we can do.

Of the energy consumption remaining after installation of LED fixtures, advanced lighting control can save an additional 68%, bringing the total overall saving to 87%. It is therefore no surprise that many of today's building codes and regulations require advanced controls in order to achieve the highest rating.

The British Council for Offices (BCO) recommends the inclusion of lighting controls to achieve compliance with Part L of the building regulations. BREEAM also gives two points for lighting controls that include daylight and presence sensing and individual light level controls for each luminaire. SylSmart technology achieves all of the above lighting requirements, including daylight linking, constant illumination and occupancy control.

SylSmart-enabled luminaires deliver the most advanced lighting control solution to help you maximise energy savings and user comfort, without the drawbacks of traditional control systems:

- It is **commissioning free**
- There are **no compatibility issues** as all controls are built into the luminaires
- Complete flexibility: the system **automatically adjusts** when the layout of a room changes
- **No control cabling** is required

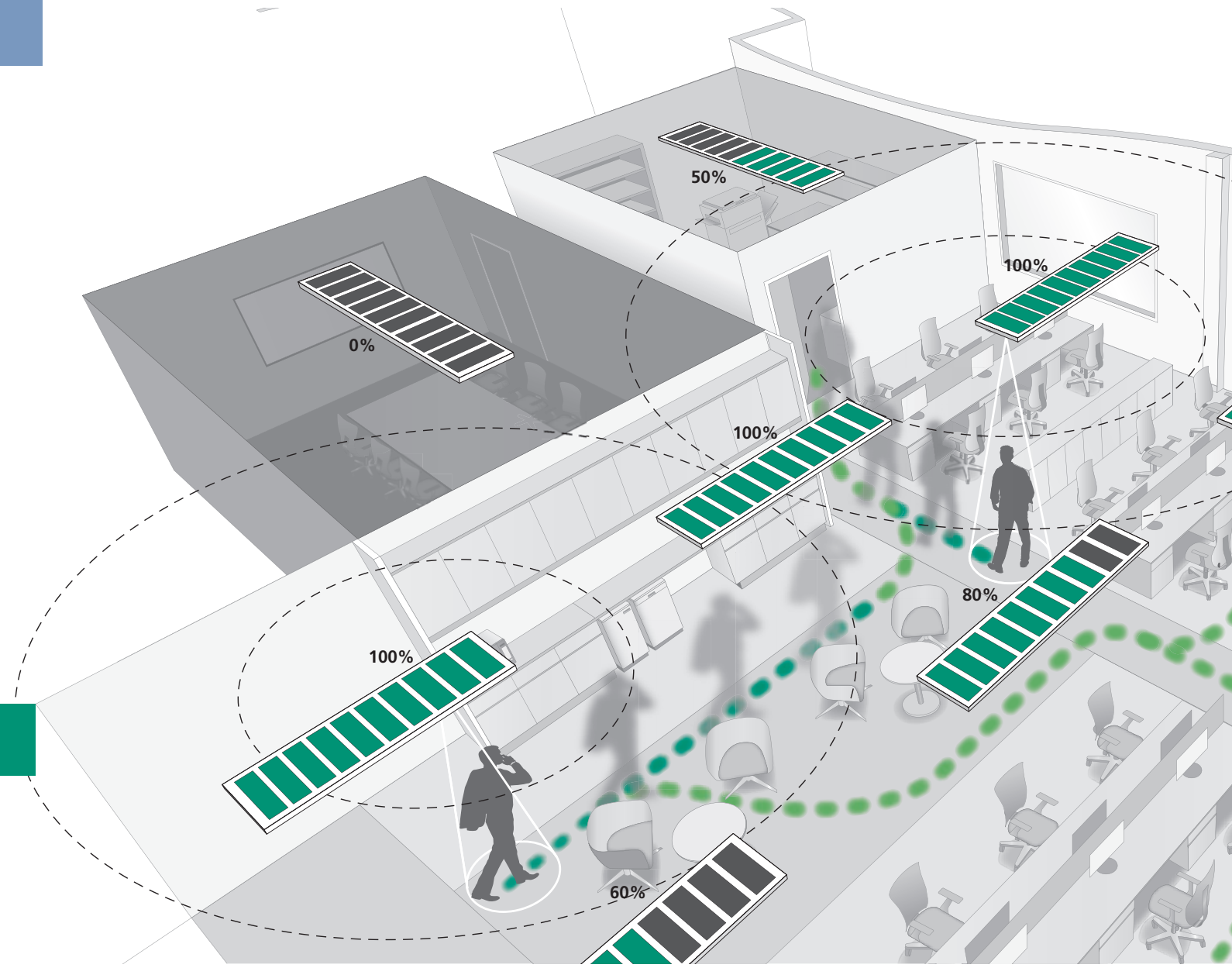
These advantages result in:

- 30% lower upfront investment compared to DALI[1]
- 35% additional saving compared to standard DALI controls[2]
- 68% reduction in energy costs vs. non-controlled situations

SYLSMART

BexleyHeath Library, U.K.

How SylSmart works



Feilo Sylvania's SylSmart-enabled luminaires feature a Sensor Node that is integrated into each luminaire during manufacture. Each Sensor Node contains a motion sensor, communications module, ambient light sensor and an intelligent microprocessor. As soon as a luminaire is connected to the power supply, it will start detecting.

Continuous auto-commissioning

There is no need to commission the lighting control as SylSmart-enabled luminaires will automatically detect surrounding conditions and set light output accordingly. Simply install the luminaires, connect the power and you are done. No further commissioning is needed. From the moment the unit is powered, the SylSmart system begins learning patterns of movement in the space. Each sensor node detects movement and works with its neighbours to understand how the space is used to generate predictive lighting controls. The system then continues to learn if there are any changes to the pattern and adapts accordingly. A truly intelligent, autonomous lighting control system.

Maximum user comfort

The SylSmart control algorithm results in the highest level of user comfort possible. Each node lights up gradually on detection of an approaching occupant, preventing sudden light level changes that users perceive as uncomfortable. This means when sitting still in an empty room with no one else present, an occupant is not plunged into darkness. A typical PIR-based system uses one sensor for every 4 to 6 fixtures; however, a SylSmart-enabled luminaire has its own Sensor Node, allowing detection of much smaller movements.

Impressive energy savings possible

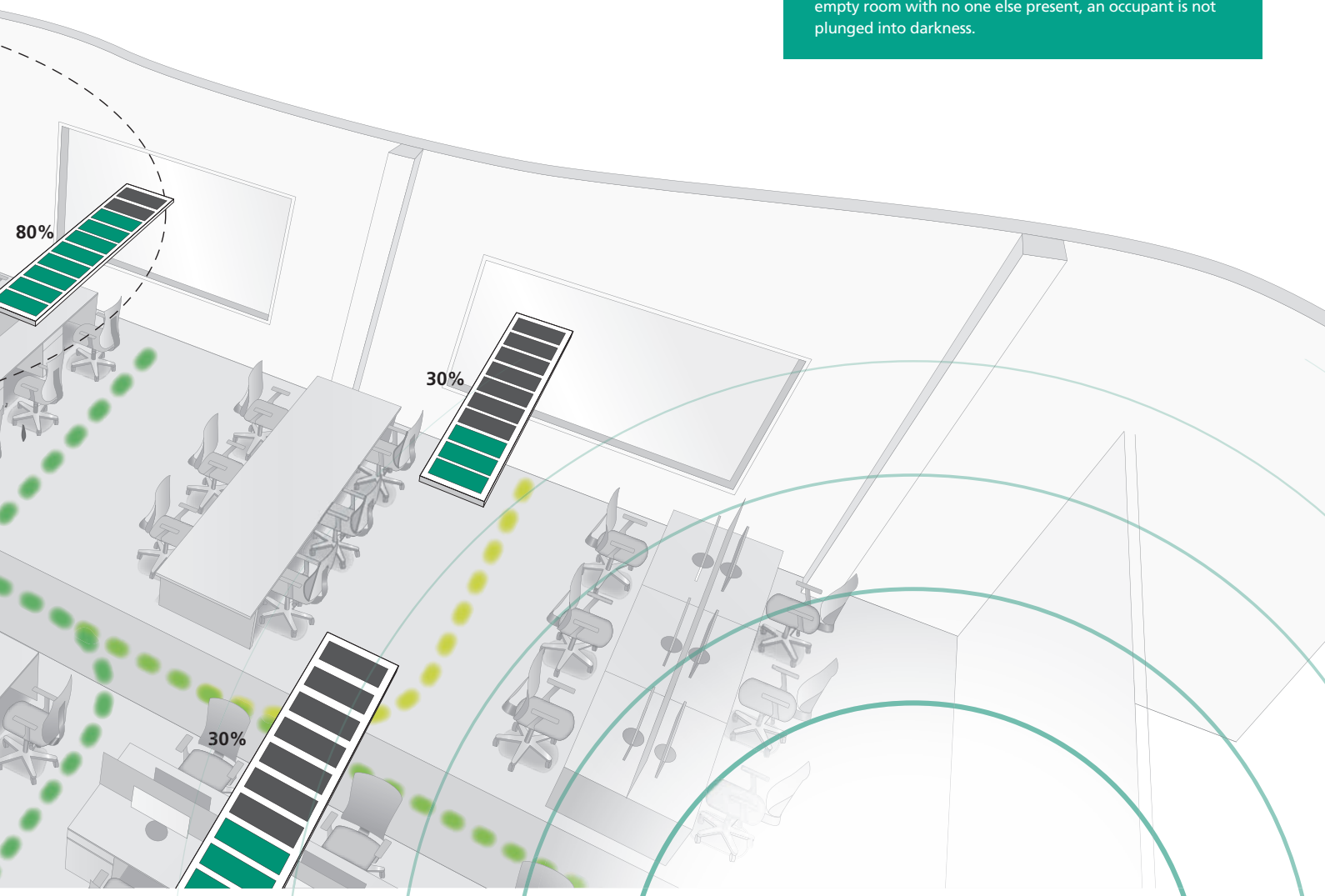
SylSmart-enabled luminaires can control an area with much finer control than central control systems. This ensures that only luminaires that are required to adequately light a space are illuminated, leading to an additional 35% of energy saving on top of a standard DALI system. The systems operates such that a person sitting alone in an open plan office will only be lit by their nearest fixtures, or a luminaire next to a window will automatically detect daylight levels and dim its light output, while a luminaire at the other side of the room will increase its light level.

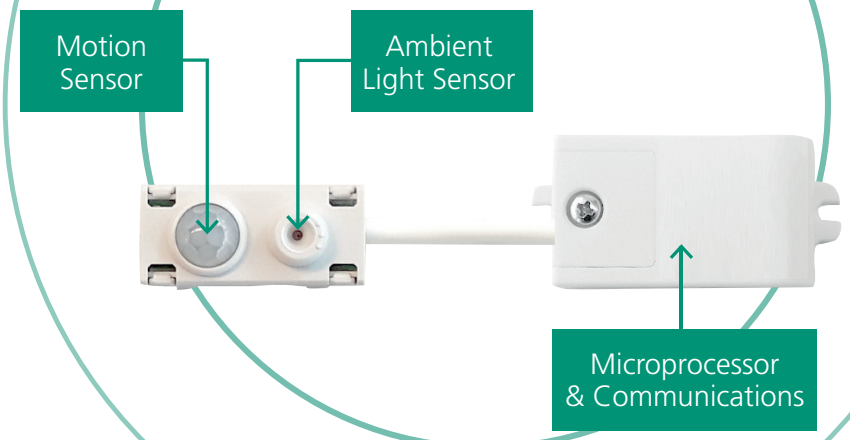
Intuitive app for advanced control setting

The SylSmart system also has several advanced features that can be simply programmed with the Smartphone app.

Detect even the smallest of movements

A typical PIR-based system uses one sensor for every 4 to 6 fixtures, but a SylSmart-enabled luminaire has its own sensor Node, allowing detection of much smaller movements. This means that even when sitting still in an empty room with no one else present, an occupant is not plunged into darkness.





Lux levels for each luminaire can be individually adjusted in order to ensure the right regulatory lux level is achieved. Different profiles can be set to determine the optimal dimming profile for specific areas, such as in an open-plan office or for a corridor. Luminaires can also be assigned in zones with specific settings. These settings can be set to never turn off any hallway lights as long as one of the offices is occupied, or to keep certain zones 'always on'; such as accent lighting on feature walls. The app also enables simple programming of wall switch controls.

A lifetime of saving you money

SylSmart is a sound financial investment, saving you money in every phase of a project's lifecycle – from design and installation through to total cost of ownership – while also delivering the best possible light quality to your building occupants.

Whatever your project, be it new build or refurbishment and for a wide variety of applications, we can deliver cost savings that are extremely impressive.

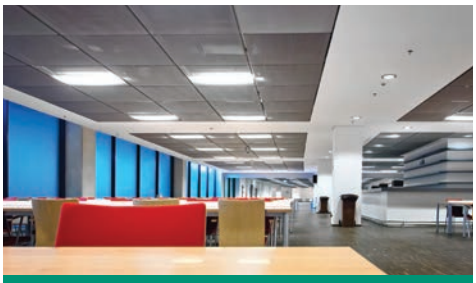
SylSmart is one of the first lighting control solutions that makes sense from both a financial and user-comfort perspective. It is important for specifiers and lighting procurement officials to strike a fine balance between performance and cost. Adding controls to the lighting package ensures your system becomes even more efficient.

By using SylSmart-enabled luminaires, not only can you enjoy vastly superior lit environments, but you can also enjoy significant savings on capital expenditure as well as on operating costs.

To illustrate the strength of SylSmart in terms of Total Cost of Ownership (TCO), we have included example calculations on the opposite page for three common application scenarios.

We are happy to run a set of calculations for your specific requirements – please contact us to learn more.

Open-plan office refurbishment



COMPARED TO DALI:

10% reduction in capex

20% additional saving p.a.

Typically **1.5 years** quicker **payback**

	System Cost DALI	System Cost SSH Enabled
Payback Time saving vs DALI		1.5
Annual savings	£2,072	£2,820
Luminaire	£9,657	£16,761
Controls	£5,524	£ –
Installation	£1,840	£726
Commissioning	£1,920	£ –
TOTAL CAPEX	£18,941	**£17,487**
ECA Return (money off spend)	£3,788	**£3,497**
Annual Running (10p/kWh)	£1,111	**£673**
kWh	11,111	6,731
kWh saving	21,259	25,640
Carbon saving	11,565	**15,342**

For this example, figures have been calculated for an open-plan office layout featuring 83 standard 600 x 600mm 64W T8 luminaires. Taking into account the reduced installation and commissioning investment required, this scenario delivers impressive savings as well as reducing annual energy consumption from 32,370p/kwh to 6,731kwh; saving approximately £2,564 per year.

Data centre refurbishment

COMPARED TO INSTALLING LED LUMINAIRES ONLY:

2 years payback (instead of 2.8 years)

85% additional saving in annual running costs (GBP)

	With no controls	With SSH enabled luminaires
Payback Time saving vs DALI	2.8	**2.0**
Annual Savings	£3,350	**£6,273**
Luminaire	£10,708	£15,231
Controls	£ –	£ –
Installation	£830	£830
Commissioning	£ –	£ –
TOTAL CAPEX	£11,538	**£16,061**
ECA Return (money off spend)	£2,308	**£3,212**
Annual Running (7p/kWh)	£3,262	**£325**
kWh	46,606	4,641
kWh Saving	47,586	89,551
Carbon saving	25,887	**48,754**
Reduction in cooling	£4,187	£7,841

Figures calculated for a data centre with 142 Twin 58W (118.4) Watt luminaires installed. The installation currently has no controls. Here we highlight potential savings possible by specifying SSH-enabled luminaires. Our simulations show that we could achieve a saving of approximately 90% on energy consumption.

Hospital corridor

COMPARED TO INSTALLING LED LUMINAIRES ONLY:

1.9 years payback (instead of 2.3 years)

68% additional saving in annual running costs (GBP)

	With no controls	With SSH enabled luminaires
Payback Time saving vs DALI	2.3	**1.9**
Annual Savings	£3,344	**£5,622**
Luminaire	£8,671	£12,597
Controls	£ –	£ –
Installation	£770	£770
Commissioning	£ –	£ –
TOTAL CAPEX	£9,441	**£13,367**
ECA Return (money off spend)	£1,888	**£2,673**
Annual Running (10p/kWh)	£2,883	**£606**
kWh	28,829	6,054
kWh Saving	33,441	56,216
Carbon saving	18,192	**30,582**

Figures calculated on 50W SSH-enabled luminaires 600x600mm (49 standard and 17 emergency). Previously, the hospital was fitted with 66 4x18W luminaires, consuming 62,270kWh

PLEASE NOTE: Figures are indicative only. Pricing can vary based on the individual circumstance of the client.

Office Lighting

Property Developer

- Prevent delays – The commissioning of a lighting control system can cause sign-off delays. As SylSmart functions as soon as power is connected to the luminaires, there are no delays; your building can open on time
- Adhere to planning requirements – There is increasing pressure to build energy efficient buildings in order to get planning permission. Selecting SylSmart enabled luminaires is a cost effective way to score additional points on your green building certificates, such as BREEAM

Building Owner

- Improved returns – SylSmart delivers a greener building, lower energy consumption and more comfortable lighting, which will attract higher rents
- Shorter rent-free periods – When new tenants come in, lighting does not need to be recommissioned, shortening moving-in periods so landlords can reduce rent-free periods
- Reduce maintenance costs – Malfunctioning lighting control systems are a common cause of maintenance calls. The simplicity of the SylSmart system, coupled with the system's lack of a central point of failure, has been shown to significantly reduce faults and consequently reduce the number of maintenance calls

Tenant

- Flexibility – Tenants can repartition space without recommissioning or moving sensors, as the SylSmart system will automatically adapt
- Year-on-year improvements – Deliver energy savings year after year by leveraging collected data to retune the system, or integrate collected data with other BMS systems to improve other services, such as heating
- Control energy performance/ESOS improvements – Tenants often have little control over potential energy saving measures, such as the quality of insulation in a premises. SylSmart offers the opportunity to deliver significant energy savings by a simple point by point replacement of the luminaires

Healthcare, Education and Local Government

Healthcare

- Lights on 24/7 – In healthcare environments, lights are often left on continuously in hallways and corridors when no one is there, as there is no acceptable dimming solution available that suit key hospital and health care facility requirements. SylSmart provides a very attractive solution:
- Never enter a dark room – It is established best practice that no patient should enter a room in darkness. SylSmart-enabled luminaires illuminate as a person approaches an unlit area, ensuring that patients will never find themselves in the dark

Education

- Light when it is needed – Educational institutions often contain many areas that are intermittently used, like hallways and storage areas. SylSmart offers the perfect solution by allowing light to be dimmed in these areas when not in use
- Out of hours – SylSmart is particularly suitable for environments such as universities – where facilities, such as libraries, are open for long hours and energy usage is large. In these areas in particular, an SylSmart dimming solution can deliver significant energy savings
- Schools and classrooms often feature many windows, and with SylSmart's daylight sensors, illumination is tailored to utilise the existing daylight to the maximum, meaning no wasted lighting

Local Government

- Government and local authorities typically have higher energy efficiency targets for their own buildings than the private sector may have. SylSmart is a perfect solution to help achieve targets such as BREEAM
- Show visitors that you lead by example and are green. Lighting control is one of the few energy efficiency measures that is immediately visible, highlighting your effort and dedication to energy saving and efficiency

Data Centres

Owner-managed and co-located DATA Centres

- Increase power usage effectiveness – Installing more efficient lighting and lighting control has been shown to increase the power usage effectiveness (PUE) in data centres by 25%. Using SylSmart, maximum increases in PUE are achieved without the risk of being left in the dark or the need for new wiring
- Never left in the dark – SylSmart does not rely on timed lighting, instead every luminaire is equipped with a sensor. This ensures there are no 'black spots', and even the smallest movement is noticed and responded to
- No new wiring – Data centres often have a large amount of cables in the ceiling, with SylSmart there is no need to pull additional control wires
- Reduce heat production – Cooling is a substantial cost for data centres. By using SylSmart-enabled luminaires, the heat produced by the lighting system is significantly reduced; saving on the cost of running air conditioning systems
- High output when needed – Typically, lighting in data centres run at 1,000 Lux and is left on all the time. If high light output is needed, yet cost efficiency is to be maintained, using the SylSmart system to achieve this same result works even better. The brighter the light required, the more energy you use and therefore, the bigger the saving achieved from using SylSmart to manage your lighting system

Other Areas

Airports

- Back-of-house – Lighting is not always continuously needed in these areas. With SylSmart, you do not need to worry that the lighting is left on all the time costing money, or conversely if lighting is switched off, that staff are walking into unlit and potentially unsafe environments
- Minimise downtime – Quick to fit, with minimal commissioning and with integrated lighting control, overrunning installation risks are reduced with no incompatibility issues
- Gate lighting – With airports layouts positioning numerous gates across large areas, ensure gates are dimmed when not in use, yet pre-lit when approached

Coming soon: SylSmart Beyond

- Heat-mapping – With the use of heat-mapping, owners and operators can reduce cleaning costs, improve security and assign additional staff by knowing exactly what areas have been used and where people are

Delivering value for all

Architect

- Allow your creative vision to be realised, delivering energy efficient buildings that meet energy and performance targets – No compromise on your designs
- Create alluring interiors without interfering with your designs – With no need for wall mounted control panels, interiors can be clean, clutter-free and more in tune with the building's occupants
- Improve the energy efficiency and your building's BREEAM, LEED or other certificate's score at no extra cost

Lighting Designer

- Save time – By choosing luminaires with integrated lighting control, remove the need to create a separate lighting control plan
- Your clients can enjoy an unprecedented level of engagement and feel in control of their lighting
- Allow lux levels to be set easily to required levels in the lighting code using the simpleto- use app, ensuring you are compliant without ever overlighting a space

Installer

- Reduce on-site headaches and cut installation time, as no separate wiring is required for the control system
- Keep trades to a minimum – There is no need to employ additional trades to separately commission the lighting control, as the luminaires automatically commission themselves. Any electrician can install the luminaire and turn it on, and immediately the system will configure itself

Energy Consultant

- Deliver significant energy savings to clients at a reduced capital expenditure, compared to what can be delivered with a DALI system
- Maintain an ongoing relationship with your client by leveraging the data from the lighting controls system, to deliver further energy savings into the future

Maintenance Manager

- Reduce recommissioning costs – The system automatically adjusts when new partitions are added or the layout is changed, removing the need for complex recommissioning
- Replace luminaires without recommissioning – Simply take the old luminaire out, put the new luminaire in and it will start communicating with its neighbours straight away
- Make simple changes yourself without complex programming – You can dim the light level of a luminaire or increase its dwell time simply by pointing your mobile phone at the luminaire and clicking two buttons in the app

SYLSMART

OUR SYLSMART-ENABLED PRODUCTS SSH

Officelyte LED

Concord

Concord Officelyte LED has SylSmart incorporated into the luminaire, offering flexibility as well as out-of-box functionality and efficiency. With a slim fully enclosed design profile that meets building regulations, the Officelyte LED Low Profile includes a high efficiency and a lumen output making it one of the most efficient luminaires available on the market in its class combined with state of the art lighting controls.

RANA

SYLVANIA

The Sylvania RANA offers a dynamic approach to commercial lighting by suiting both retrofit and new installations. To help create a harmonious lighting scheme, a complete range of recessed modular, surface and suspended luminaires are available, furthering the already impressive Sylvania Luminaires Office portfolio.

Rubico

SYLVANIA

Sylvania Rubico, which comes in both 600 x 600mm and 1,200 x 300mm sizes, provides contractors and end-users with a high-output, easy-to-install office lighting solution at a competitive price. Rubico builds on the comprehensive portfolio of office lighting products already under the Feilo Sylvania umbrella.

Start Panels

SYLVANIA

Start Panel LED is a recessed LED luminaire for general indoor lighting applications; corridors, breakout areas, offices and meeting rooms. Start Panel LED with SylSmart provides exceptional performance with a wide and homogenous light emitting surface while ensuring low glare.

See www.feilosylvania.com/en-int/sylsmart/ for the full list of compatible products.

Accessories

App for Apple IOS and Google Android

For further optimisation of the system, to maximise user comfort and energy efficiency, download the app from the Apple Store or Google Play Store and use it to tailor your SylSmart system to suit your needs. Must be used in conjunction with the IR Dongle.

SylSmart Wall Switch

Enables users to control light scenes and the dimming of luminaires within a designated area. A typical application of the wall switch is to select a pre-programmed lighting scene to enhance a presentation. The wall switch is wireless and battery free ensuring a maintenance free experience with the flexibility to be mounted any where needed including glass partitions as needed. Android device with NFC needed for configuration of the wall switch.

ANDROID APP ON Google play

Download on the App Store

LYCÉE EUGENE DECOMBLE, CHAUMONT, FRANCE

MATRIX EMC, GLASGOW, SCOTLAND

BBTK OFFICES, BRUSSELS, BELGIUM

A large office space in London, UK, benefits from immediate energy savings

SylSmart-enabled luminaires can be found on a wide variety of projects across the world. Organisations including retail outlets, commercial businesses and large charity organisations are benefi ting from the energy saving credentials of this innovative lighting control solution. Here are three examples of businesses that have recently installed SylSmart and are reaping the rewards.

A prominent charity organisation based in Southwark, London, has selected SylSmart-enabled luminaires to refurbish their fi ve story, 2,000m2 office space; benefitting from the energy saving potential of SylSmart technology.

Two hundred and forty SylSmart-enabled Concord OfficeLyte LED recessed luminaires were used to illuminate the main open plan areas, as well as in both large and small meeting rooms.

By installing Feilo Sylvania luminaires with integrated lighting control, the organisation benefitted from a reduced overall installation time and had handover deadlines comfortably met, thanks to the easy to install and commission luminaires.

SylSmart's ability to be configured as soon as each part of the building was completed through its quick zone commissioning ensured that the project moved ahead swiftly.

The organisation saw immediate lighting energy savings as soon as each zone was commissioned, thanks to the independent, yet connected, nature of each SylSmart-enabled luminaire.

Achieving the grade at Eugene Decomble High School

Feilo Sylvania, has supplied its innovative SylSmart-enabled luminaires to provide an energy-efficient lighting and control system at the all-new Eugene Decomble High School in France. A High Environmental Quality (HQE) approach was adopted for the building, especially when it came to the lighting scheme as it represented the most important energy consumption.

Eugene Decomble High School is the result of merging two professional schools, Ashton and Haut du Val in Chaumont and has capacity for 431 students who are undertaking training in the automotive, industrial, building or public works sectors. The school construction plan involved restructuring the Ashton site, which was approx. 23,000m² and make it a showcase for eco-construction and sustainable development.

The project involved creating a lighting scheme for the school's 25 classrooms, corridors and boarding house. Grzeszczak-Rigaud Architects worked with Engineering office, Artelia, and Marseille based installers, Groupe SNEF, to install a lighting scheme that guaranteed the best visual comfort for the students and staff.

An SylSmart solution was implemented to suit the dimensions of the classrooms, two versions of the SylSmart-enabled luminaires were installed: 150 fixtures with a luminous flux of 3,210lm (2 x 15W) and 100 with a flux of 7,700 lm (3 x 15W). The luminaires are equipped with a very low luminance grid and a microprismatic diffuser, associated to a colour temperature of 4,000K. The daylight sensors help to maintain the illuminance level of 450 lux on the tables, regardless of natural light contribution. The lighting management system operates as follows: as soon as someone enters the classroom, the first set of luminaires lights up to 100%, the second set of luminaires located three meters further receive the information from the previous set and lights up to 80%. They in turn transmit a signal to the luminaires located at 6m from there, which lights up to 60%.

SylSmart-enabled luminaires are the perfect fit for Fitness 24 Seven

Fitness 24 Seven, one of the Nordic region's fastest growing fitness chains, is now benefitting from SylSmart's energy-efficient and easily controlled lighting system at its gym in Turku, Finland.

As the gym is open 24 hours a day, seven days a week, the owners required a lighting solution that could easily and simply adapt to suit the occupant levels within building. Over 85 Sylvania RANA SylSmartenabled luminaires were chosen to meet this demand.

"We want our customers to be able to use our facilities at a time that is convenient to them," said Project manager Tiina Ruoho from Fitness 24 Seven. "In the past, our lighting was on all the time to make sure customers did not enter a dark space or have the lights turn off when they were still working out. This meant a lot of wasted light and expensive energy bills for us. We selected SylSmart-enabled luminaires from Feilo Sylvania because they met all of our criteria for an intelligent and energy-efficient lighting system."

"We are delighted with the new lighting scheme. The fact we know the lighting is off when there is no one in the building and automatically comes on when a customer enters is fantastic. We can guarantee the comfort of our customers and save energy and money."

Feilo Sylvania creates the perfect working environment In Pori, Finland

Feilo Sylvania's innovative SylSmart-enabled luminaires are providing an energy-efficient lighting and control system at Länsipuisto 24, the base for the Finnish city of Pori's IT department. The way the building had been constructed made a traditional wired controls system expensive and time consuming, so SylSmart's intuitive and wireless controls solution proved to be the perfect choice.

The owners required an easy to use and instinctive lighting control solution that included motion sensors and no wall switches. "Other control solutions would require a lot of independent sensors, which would not work together," said Janne Aaltonen, electrical specifier from Etteplan Design Center Oy.

"It was also not possible to install the luminaires in the ideal places according to the floor plan and office tables. For this reason, the lighting levels of most of the fixtures had to dim down individually in order to create an even light level in the open office space. I was very impressed how easy and fast this light level optimizing was done by Feilo Sylvania's product manager with an SylSmart apps-equipped mobile phone. The SylSmart solution proposed by Feilo Sylvania proved to be the ideal choice."

Elephane Paname, France

Beacon Muse Tune SSC
Beacon Muse II SSC
Beacon XL Muse SSC

SYLSMART
LED light control

Simply using smartphones or tablets as well as wireless wall switches

Managing and controlling the light experiences for single or multiple fixtures and luminaries

Set scenes and dimming sequences according to the mood, event or time of day

Easy to install
You don't need any new wiring, switches, devices or networks. Plug in the lighting fixture and pair it with your phone or tablet. No other configurations needed.

Delightful to use
You can control your lights with an intuitive and visual user interface on your smartphone or tablet.

Practical daily use
You can use with wireless wall switches. They will have a new life: use them as dimmers and control many lamps with one switch.

Lighting as Experience
SylSmart is more than just a light switch. With a tap on your smartphone you can set the ambience for drama and visual effect.

Simply adding new lighting abilities as a major new element

- No new wiring or wires
- No separate gateway or controllers
- No new dimmers
- Simple installation
- Great cost-value
- Works via Bluetooth

** Download the mobile app from the Apple Appstore or Google Play Store.*

ANDROID APP ON Google play
Download on the App Store

3D Reid - Birmingham, England

LIGHTING CONTROLS

SYLVANIA

366 Introduction

369 Luminaires with integrated Lighting Controls

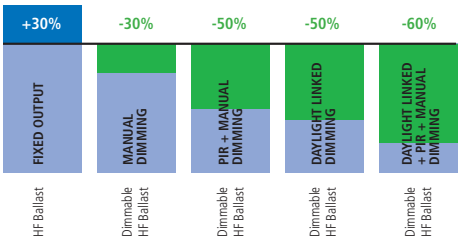
370 Lighting Control Modules (plugable control)

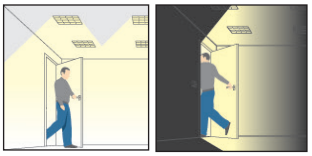
372 Controls for colour-changing luminaires

374 DIN-rail controls for DALI systems

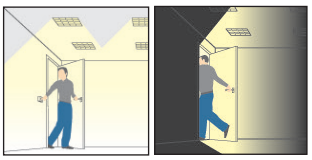
375 Small-room controls (OriDIM)

381 Stand Alone energy saving lighting controls

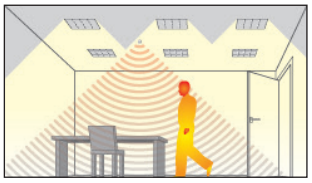




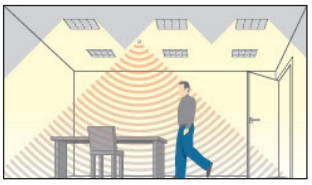
Presence detection



Absence detection



Passive InfraRed sensor



Microwave sensor

In a world where cost-saving gives competitive advantage, where Corporate-Social-Responsibility is central to your company's brand-image, and where legislative compliance is crucial, deployment of lighting control systems answers these three challenges. Conservation of energy from automated controls can reduce lighting-related energy consumption by up to 60%. With a range of sophisticated products that enable immediate energy savings and simple operation, Feilo-Sylvania offers a complete end-to-end solution for lighting. From daylight-harvesting and digital dimming to emergency-testing and energy-use reporting, a bespoke system using DALI and Ethernet networks can be expanded from single rooms and corridors to complete building-wide control, optimising building running costs whilst maintaining comfort and safety. Control systems can also improve the simplicity of operation of lighting installations, automating regular switching patterns, regulating light levels and allowing entire floors or buildings to change from 'daytime' to 'night-time' illumination settings at the press of a single button.

Feilo-Sylvania is able to arrange the planning and commissioning of a broad range of control systems tailored to meet the requirements of each specific installation from a simple luminaire including daylight linking to sophisticated PC controlled systems incorporating hundreds or thousands of luminaires. A brief summary of control principals and technologies follows, for further information on the range of control systems available please contact our sales office or your local sales representative.

Types of control

On/off switching

• Local switch control

Lighting control at its most basic - the use of a local switch plate to turn light luminaire on and off as required.

• Occupancy sensing

Presence detection: lights on automatically when motion is detected. Lights off automatically when area is unoccupied for a period of time.

Absence detection: lights switched on manually by the user, lights off automatically.

PIR sensor: detects the movement of a warm body.

Microwave sensor: detects any small movement over a larger area.

• Timed control

Automates the switching on and off of luminaires during the day i.e. to ensure that all (or selected) luminaires are switched off at times when the building, or areas within the building, will be unoccupied. These timed events can also be based on an astronomical clock, allowing the automated times to be offset to sunrise and sunset.

Switch Dim

A variety of different systems are available, but all work using mains voltage as a control signal. Depending on how long a conventional push-to-make switch is held down the ballast can interpret the signal either as a dimming or switching command.

Allows fittings to be dimmed through the use of a local switch plate, providing a greater degree of control to the occupants of the space.

DSI

With this system both on/off and 1% - 100% power regulation are achieved by means of a digital signal broadcast to all of the ballasts on a control circuit (loop). Control requires the use of more sophisticated equipment. Control is usually achieved through the use of more sophisticated switch plates or remote control devices to recall and adjust desired dimming levels.

The dimming curve used in DSI ballasts ensures that changes in light level are friendlier to the human eye when compared to the traditional 1-10V ballast. With DSI there is the potential for a maximum of 100 ballasts per loop.

Daylight Harvesting Systems

Uses photocells to maintain an approximate illumination level within an area by either switching or dimming luminaires as the amount of daylight within an area increases or decreases.

1-10V Analogue

Analogue ballasts incorporate a dimming circuit which regulates the lamp power - typically between 10-100% depending on lamp or luminaire type, normally controlled through either a linear or rotary potentiometer (dimmer). On/Off control requires a separate On/Off mains switch within the circuit.

Regulation parameters:

• No signal/connection = full output
• 10V = full output
• 1V = minimum output

Changes in light level tend to have a non-linear appearance to the human eye when the dimming is adjusted. The maximum number of ballasts on a circuit is dependent upon the total control circuit current and the potentiometer capacity. Any change to the system may require the system to be re-wired.

DALI - Digital Addressable Lighting Interface

DALI ballasts provide both power regulation and on/off switching along with a degree of local intelligence within each ballast, reducing the complexity of the control system. In a DALI system each ballast on a loop can be individually addressed and controlled, providing potential to greatly reduce the wiring complexity and allowing changes to the system to be achieved by simply reprogramming the ballasts. Each DALI loop can accommodate a maximum of 64 ballasts and each ballast can be allocated to up to 16 control groups. A maximum of 16 pre-programmed scenes levels can also be programmed into each ballast, for easy recall by the control system.

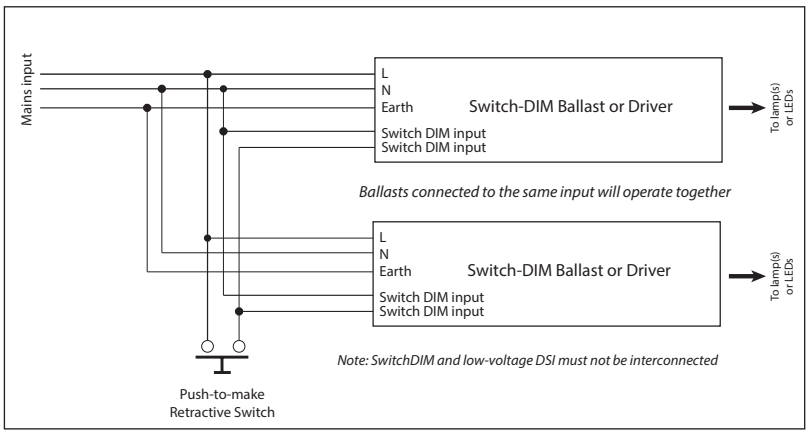
Additionally DALI can provide:

• Function checks of ballasts and lamps in each luminaire from a central position.
• Storage of pre-programmed information in the ballast (e.g. pre-set illumination levels of fixture grouping).

Changes in light level tend to have a linear appearance when the dimmer is adjusted.

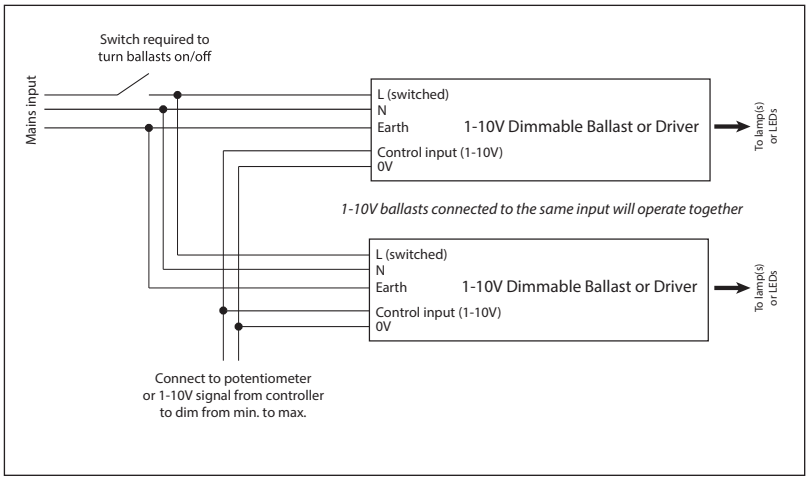
The following guides provide examples of typical wiring diagrams and requirements for the four main types of control systems:

- **Switch dim ballast** – using local push to make switches
- **1-10V analogue dimmable ballast** – Incorporating a dimmer circuit and controlled by local potentiometer
- **Digital Serial Interface (DSI)** – Requiring a control loop to send digital control signals and local switch plates or remote control device to control (usually requires programming)
- **Digital Addressable Lighting Interface (DALI)** – incorporating dimmer and local intelligence, requires a DALI bus and control devices or by sophisticated management systems



Switch Dim Ballasts

- All ballasts require a permanent mains supply
- Switch is push-to-make (retractive)
- Max number of ballast is governed by rating of the push-to-make switch
- All wiring is mains rated
  - Do not connect to a low voltage control equipment



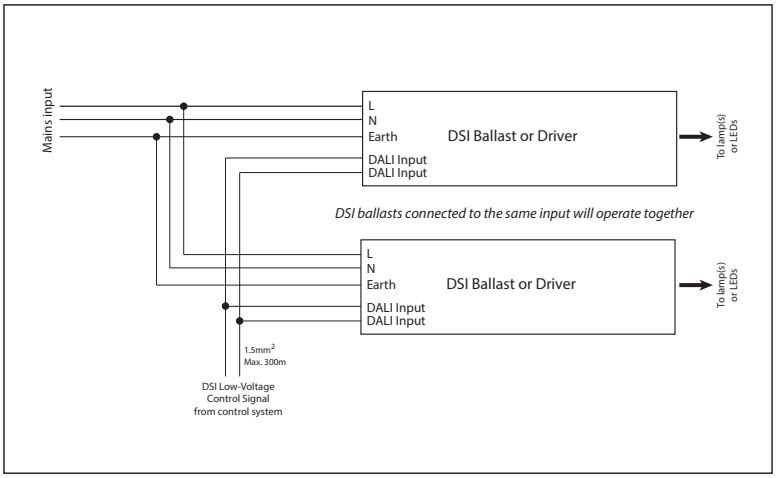
1-10V Analogue Dimmable Ballasts

- All external wiring 'by others' to comply with relevant standards
- Dimming control cable to be 2 core screened min 0.75mm Polarity must be maintained. Use loop-in, loop-out method

- Separate switch required for on/off

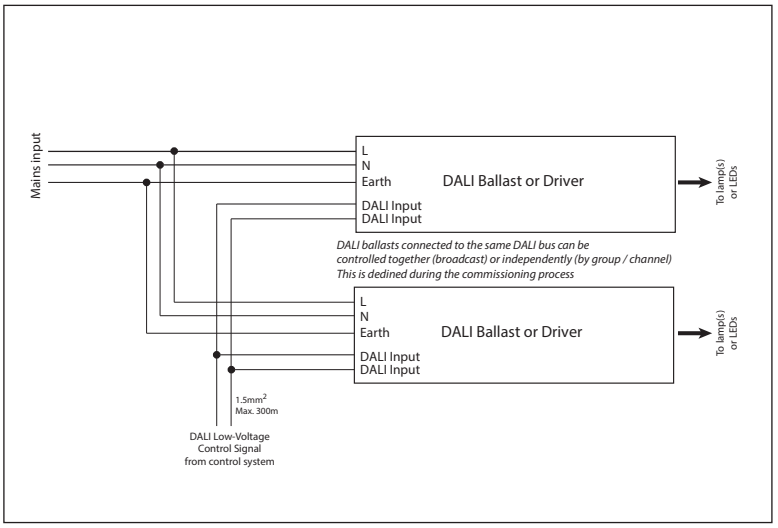
DSI - Digital Serial Interface

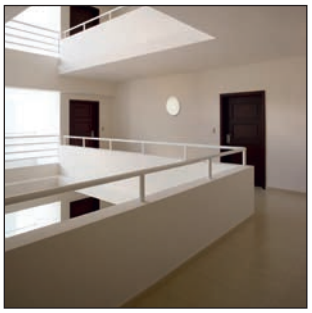
- All ballasts require a permanant mains supply
- DSI signal cable is a dedicated 2 core wired with a free-topology
- DSI controller may have various inputs
- There may be restrictions on number of ballasts on one controller typically a ballast requires 2mA and a typical controller may be able to supply upto 20mA, 100mA or, in some cases of larger controllers, upto 200mA.
- System may require 'programming'



DALI - Digital Addressable Lighting Interface

- All ballasts require a permanat mains supply
- DALI data highway is dedicated 2 core cable
- Use 1.5mm2 cable, 300m max, no loops
- System MAY require programming, unless broadcast-DALI is being used where all ballasts always perform the same operations



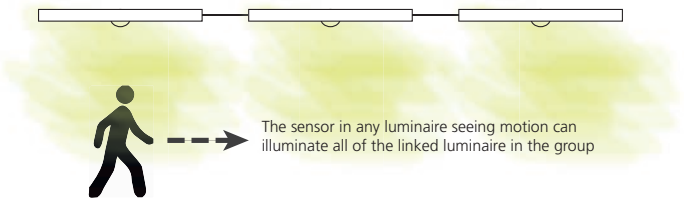


Giotto LED range with integrated miniature microwave detector

"Intelligent" Luminaires with Lighting Controls Built-In

Luminaires from across all of our brands (Sylvania, Lumiance and Concord) are available with controls built-in, for occupancy detection and/or daylight harvesting.

Standard products include bulkhead and linear luminaires with occupancy detection and daylight harvesting built in.



Grouped Control Behaviour

Individual sensor-equipped luminaires can be linked together to act in a group, where any sensor detecting motion can switch on the whole group. This enables larger areas to be controlled as one. Fixtures close to windows can still independently regulate their output according to daylight.

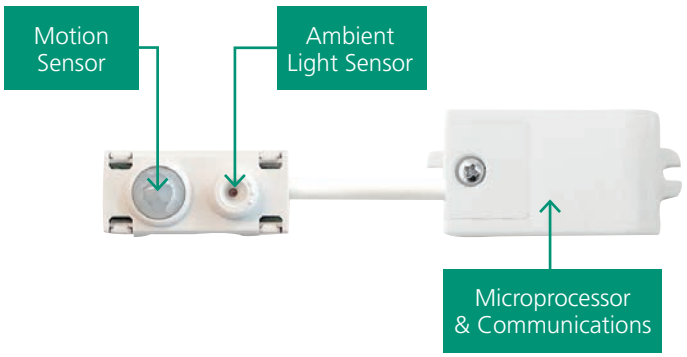
Speak to our sales team for more information and a bespoke solution for your project.

Analogue Light Level Regulator

Analogue Light Level Regulator

For 1-10V linear luminaires: Clips onto the lamp in a linear luminaire, and provides a 1-10V control signal to the ballast.

Code: P223409



SylSmart Connected Buildings

A highly intelligent smart lighting control solution that offers a high reduction in energy costs and power consumption.

Lighting Control Module

PIR Sensor

Our LCM (Lighting Control Module) range provides control of up to 10 luminaires. The controller unit can be configured to operate in a number of combinations and on request it is possible to have each channel controlled separately, channel A has 4 luminaire outputs, Channel B has 2 and Channel C has 4. Additional pluggable connections allows for the testing of emergency fittings and connections for a simple corridor hold feature.

Applications

- Schools
- Colleges
- Universities
- Hospitals
- Public buildings
- Commercial offices

Lighting Control - Control Boxes LCMs

Code	Type	Motion	Light	Channels	Switched/ Dimming
2045812	1	Absence	Daylight Dim	All together	DSI
2045813	2	Presence	Daylight Dim	All together	DSI
2045814	3	Absence	-	All together	Switched
2045815	4	Presence	-	All together	Switched
2045817	6	Presence	-	3 Channels Detector Overrides All	Switched
2045818	7	Absence	Daylight Dim	3 Channels	DSI
2045819	8	Presence	Daylight Dim	3 Channels	DSI
2045823	9	Absence	Daylight	All together	DALI
2045824	10	Presence	Daylight	All together	DALI
2045825	11	Absence	Daylight	2 Channels (AB,C)	DALI

Lighting Control Module

Dimming detectors

(to connect to LCMs with a dimming capability i.e. 1-10V/DSI/DALI output protocol)

Code	Description
2040578	LCM PIR Sensor with dimming & infra red override control

Please note: Above items connect to a DSI or 1-10V LCM. Order RJ45 patch lead separately to connect detectors to LCM

Non dimming detectors

(to connect switched only lighting module)

Code	Description
2040819	LCM basic PIR Sensor
2040821	LCM Microwave Sensor with infra red override control

Please note: Above items connect to a switched only lighting module Order RJ45 patch lead separately to connect detectors to LCM

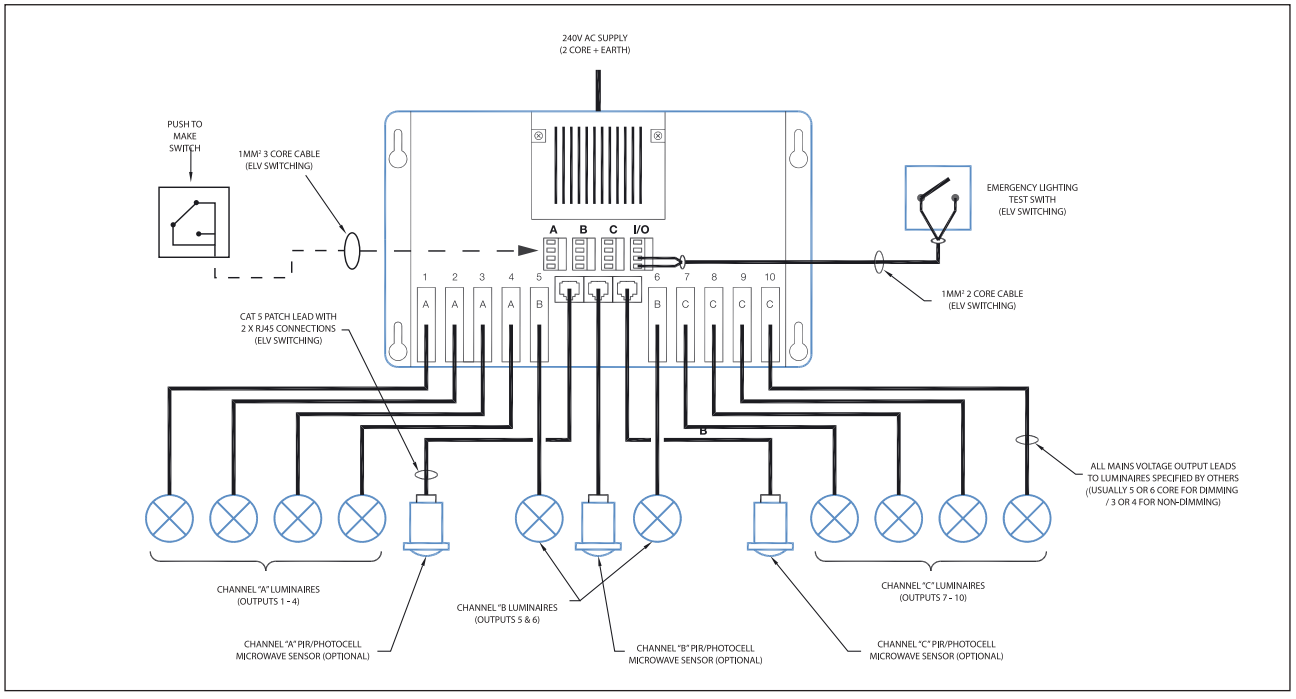
RJ45 Patch leads for sensor connection

Code	Description
2041554	3m patch lead RJ45 to RJ45
2041555	5m patch lead RJ45 to RJ45
2652200	8m patch lead RJ45 to RJ45

Cable looms (1mm² & 6 pole connector to bare ends) for luminaire connection

Code	Description	Length (m)	Cores
2041255	Cable loom	5	3
2041258	Cable loom	5	4
2041261	Cable loom	5	5
2041263	Cable loom	3	6
2041264	Cable loom	5	6
2041265	Cable loom	6	6
2657275	Cable loom	8	6

Please note:
Standard switched luminaire – 3 core
Standard switched luminaire with emergency facility – 4 core
Standard dimmable luminaire – 5 core
Standard dimmable luminaire with emergency facility – 6 core



Feilo Sylvania supports colour-changing luminaires from all three product brands (Concord, Lumiance and Sylvania) with compatible control systems.

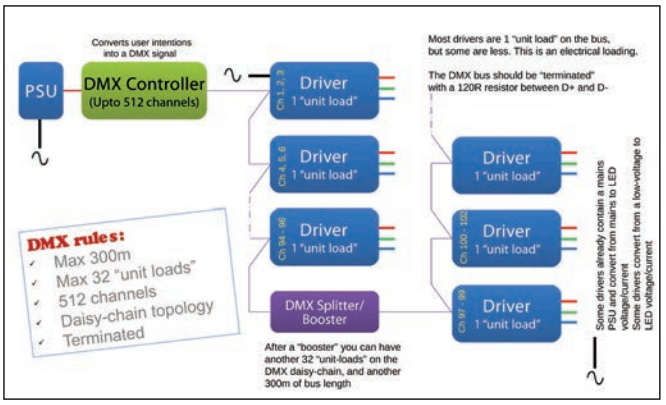
How Does RGB Colour Mixing Work?
RGB colour mixing is an additive process: optically combining the output of red, green and blue coloured-lamps or LEDs to create the desired colour. A typical control system can vary the intensity of each of the three channels in steps of 1/255th of full-brightness, leading to 255 red x 255 blue x 255 green combinations, or a spectrum of 16.5 million possible colours.

What is DMX?
DMX (Digital MultipleX) is a lighting control protocol, originating from the entertainment industry, which is capable of transmitting the levels of up to 512 channels very rapidly, updating many times per second. The DMX control protocol is digital, which means that it sends the level-values for each channel as a stream of binary data using a single balanced cable. As such it is ideal for controlling arrays of colour-changing luminaires, where a luminaire may typically require three channels of control at a time: one for the RED level, one for the GREEN level and one for the BLUE level. Therefore to instruct a luminaire to emit purple light, for example, the red and blue channels would be set to a high level whilst the green channel would be instructed to be at zero brightness
The DMX signal is used for controlling a driver, and is not directly connected to the actual LEDs themselves because it is not a power signal. Regulated power for the LEDS (or other lamp types) is provided by the driver or control gear, which may be built into a luminaire or which may be remote.

DMX is wired in a daisy-chain topology, of up to 300m long with the "far end" terminated by connecting a 120R resistor between the + and – data conductors. There can be upto 32 "unit loads" connected to the DMX bus, where a typical luminaire has a unit load of "one". For longer runs, or more luminaires, DMX repeaters/splitters or signal amplifiers are required. Some products, such as the Floodline RGB from Sylvania have a lower unit load, enabling longer chains of luminaires.

DMX controller - Brushed Stainless Steel - 0036926

Typical System Block Diagram:



DMX Wiring
Recommended DMX cable: Belden 9841 (two-core screened cable)
Maximum DMX cable length: 300m, wired as a daisy-chain (no loops, spurs. T's or Y's)
Maximum number of DMX devices per daisy-chain: 32 "unit loads"

Note: more advanced DMX control systems, signal distribution and programming are available on request.

DMX Controllers for use with Colour-Changing luminaires

0036926 Wall Mounted DMX Controller with LCD display. Requires a fascia, from the list below.
User controls: scroll wheel and buttons
Select colours, select sequences and adjust master speed/brightness
Outputs: 2 x DMX512.
Configurable terminals: switch input, or 0-10V output.
Professional line-level audio input for sound-to-light sequencing.
Built in time-clock with astronomical trigger function.
Built-in webserver for monitoring and colour/pattern recall.
Does not require a PC to configure or operate.
Key feature: Simple out-of-the-box quick setup for standard colours/luminaires.
Note: Comes with UK Plug - For EU plug please secure a UK to EU plug adapter.

0036927 Brushed Stainless Steel fascia, for Wall Mounted DMX Controller
0036928 White fascia for above
0036929 Polished chrome fascia for above

DMX controller - Brushed Stainless Steel - 0036930

0036930 Pre-programmable DMX controller
Configured from a PC via USB connection, using simple Windows software
1 x DMX output
Automatic replay without user interaction

- Red
- Orange
- Yellow
- Lawn Green
- Green
- Mint
- Cyan
- Deep Sky Blue
- Blue
- Moonlight Blue
- Purple
- Magenta
- Deep Pink
- RGB White
- RGBW White

- Long Rainbow Ripple
- Long Rainbow Solid
- Short Rainbow Ripple
- Short Rainbow Solid
- Hot Colours Ripple
- Hot Colours Solid
- Cold Colours Ripple
- Cold Colours Solid

Products for use with Lumiance LumiStrip and LumiPanel
We have two colour-controllers for driving the LumiStrip and LumpPanel constant-voltage luminaires:

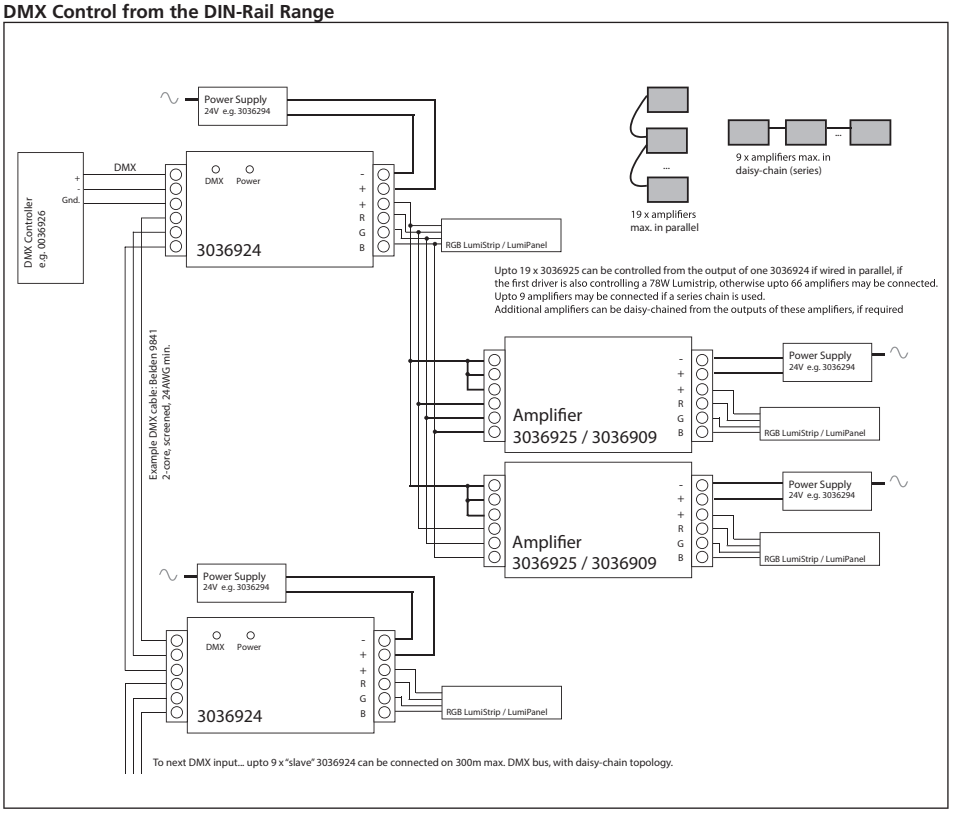
3036924 accepts a DMX input, such as from either DMX controller 0036926 or 0036930, along with a 24V DC input voltage from a PSU, and converts these into the three channels of constant-voltage output suitable for driving the Lumiance RGB Lumistrip. Use with Constant Voltage Power Supplies, such as 3036294 (100W, 24V)
A 5m RGB LumiStrip Pro requires 72W in total.

3036908 is a driver without a DMX input, the colour selection is made via the three buttons on top, or via the radio control unit.

3036909 (30A) / **3036925** (10A) are RGB LED-Power Signal Boosters (for use with LumiStrip / LumiPanel colour controllers):
Takes an RGB signal input, along with a PSU, to increase the number of LumiStrip / LumiPanel units that can be controlled.

Notes on maximum system size for LumiStrip or LumiPanel RGB Systems:
- One controller (3036908 or 3036924) connected to a 100W PSU may control upto 66 amplifiers, wired in parallel, if there is no other load connected to the controller, because each amplifier requires 1.5W.
- One controller, connected to a 100W PSU, may control upto 19 amplifiers, if it is also driving a 5m LumiStrip
- Upto 9 amplifiers may be wired in a series chain, with the output of one connected to the input of the next.

DMX Control from the DIN-Rail Range



Combined DMX and DIN Rail controls
The Low-Voltage I/O module available in the DIN Rail Controls when used with the network processor also has the ability to output to DMX bringing your lighting controls together. It can output DMX for controlling simple colour-selection or pre-defined colour-changing sequences. Please see DIN Rail controls for more details.

0041613 DIN Rail PSU
0041627 DIN Rail Network Processor - Contains the control behaviour definition, and also enables web-browser control
0041626 DIN Rail LV I/O Module - For switch inputs, sensors, simple colour/sequence-selection via a DMX output and DSI / 1-10v control
0041614 Control plate, wall-mounting
0041615 Fascia for control plate, Brushed Stainless Steel

DALI track controller

Control plate

Introduction

A modular range of DIN-rail mounting control products, to enable system functionality to be made up of simple building-blocks.

Systems without a Network Processor module can perform scene-setting on 8 scenes or can control 8 individual channels. Systems with a Network Processor can be commissioned to offer a wide variety of system operational behaviour across many scenes and channels, including control from a web-browser.

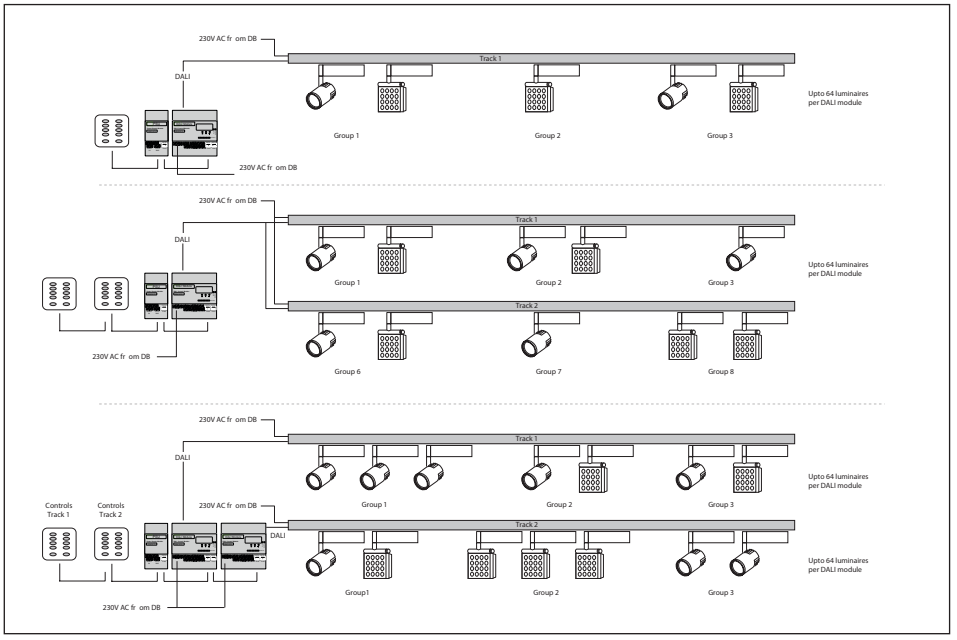
This range of products is ideally suited to control of DALI luminaires on a track system.

Modules

Code	Description	Size (U)
0041613	DIN Rail PSU	3
0041612	DIN Rail DALI Module - Connects to DALI track for control of DALI fixtures	6
0041627	DIN Rail Network Processor - Contains the control behaviour definition for systems with more than 8 independent channels, and also enables web-browser control	6
0041626	DIN Rail LV I/O Module - For switch inputs, sensors, simple colour/sequence-selection via a DMX output and DSI / 1-10v control	6
0041628	DIN Rail Relay Module - 4 channels x 5A each, feed-through	6
0041611	DIN Rail Dimmer Module - 8 channels x 2A (750W)	9
0041614	Control plate, wall-mounting, 10 buttons	-
0041615	Fascia for control plate, Brushed Stainless Steel	-
0041616	Fascia for control plate, White	-
0041622	Enclosure 1 x 12U	12
0041623	Enclosure 1 x 18U	18
0041624	Enclosure 2 x 12U	24
0041629	Network PIR and Lux Sensor	-
0041620	Backbox control plate 47mm deep	

Where one U is equivalent to the size of one MCB

Typical system layout with DALI Track:



Wall Plate

The OriDIM system is ideal for small rooms. The system can be controlled by a wall plate and/or a sensor, facilitating scene-setting in combination with optional occupancy detection and light-level regulation at the same time.

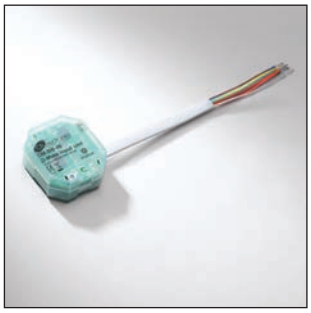
An interface is available to allow simple retractive switches to select scenes, or raise/lower light levels. Upto four circuits may be controlled independently.

Each circuit is connected to luminaires via an "addresser" interface, which broadcasts either an analogue, DSI or DALI control signal to the ballasts. Each interface may control upto 10 ballasts. Interfaces are available with a relay, to cut power to the ballasts when they are "Off" to save energy.

System key benefits:
- Ballasts do not require individual commissioning, making DALI control simple
- Either scene-setting or sensor control, or both may be used together

PIR Sensor

Code	Description	Function	mA
0041634	Power supply	Required for every system	(200)
0041635	Wall plate	Scene setting, system programming	16
0041630	PIR sensor	Configurable for presence/absence	8
0041636	Switch interface	Allows connection of up to 8 retractive switches	6
0041631	Interface for DSI/DALI channel	Control up to 10 DSI or DALI ballasts together	8
0041632	Interface for DSI/DALI channel with switched output	Control up to 10 DSI or DALI ballasts together, includes a relay to switch off the power	8
0041633	Interface for 1-10V channel with switched output	Control up to 10 analogue ballasts together, includes a relay to switch off the power	8
0041638	Basic user handset OriDim, Direct Dim and PRM detectors	User handset for simple scene setting, on off, raise + lower.	-

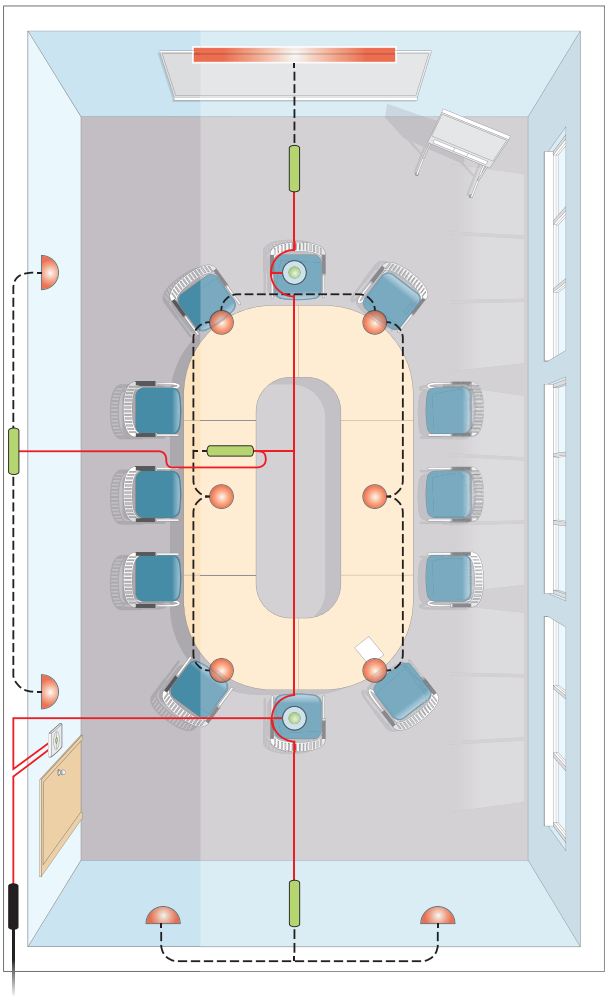


Switch Interface

Interface for DSI/DALI Channel

Basic user handset

Example system layout: Meeting room



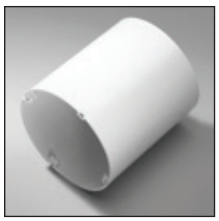
- Sensors for presence and lux
- Independent control of each channel
- Control plate for set scenes - for meetings presentations etc

Luminaires
Addresser
Detector
Wall Plate
Power Supply Unit
Load Connection
Bus

0041540
0041541
0041542
0041543

0041546

0041638



0041558

0041562

0041594

0041638

Features

Switching detectors

- Presence / Absence detection functionality
- On / off switching via lux level sensing
- Dual sensitivity: independently configurable ON and OFF motion sensitivity
- Adjustable time delay (10 sec to 30 min) before switching luminaires off
- Covers up to 7m diameter at a 2.8m mounting height
- Programmable via remote handset
- Additional user handsets available to control on/off
- IP55 version for damp environments (0041541)
- Box accessory enables surface mounting
- Can also control heating and ventilation loads
- Switching versions may be connected in parallel for larger areas, e.g. 'L shaped corridors'

Dimming detectors

- DALI or analogue dimming functionality
- Two channel flexibility (on all DALI detectors)
- Step-down illumination
- Scene setting and recall
- Lamp burn-in
- Control capacity: digital detectors up to 20 DALI dimming ballasts (10 if channel 1 relay used), analogue detectors up to 10 dimming ballasts
- User handset available to control on/off, lux levels and pre-set scenes

PIR detectors - Ceiling-mounted

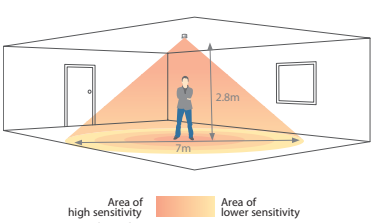
Code	Description	Load Rating at 230 vac R/I/F & CF	Load Rating at 230 vac Time Delay
Occupancy-linked detectors with lux level sensing			
0041540	Compact PIR presence/absence detector with lux level sensing, time delay function and infrared override	10A	10 sec to 99 min
0041541	As 0041540 plus suitable for damp environments (IP55)	10A	10 sec to 99 min
Occupancy-linked detectors with lux level sensing and dimming			
0041542	PIR presence/absence detector with DALI dimming and time delay function (up to 20 ballasts)	10A	10 sec to 99 min
0041543	Occupancy detector with 1-10V analogue dimming output (up to 10 ballasts)	10A	10 sec to 99 min

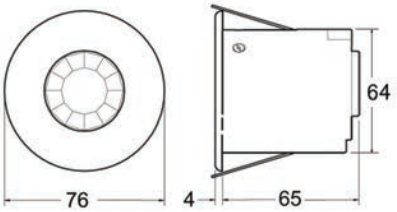
R = Resistive; I = Incandescent; Fluorescent; CF = Compact Fluorescent

Accessories

Code	Description
0041546	Basic Handheld programming device with presets
0041558	Surface mounting back box
0041561	User handset override on/off; lux up/lux down (lux level sensing & dimming models)
0041562	Professional Programming handset for lux level sensing and dimming detectors - full control of all parameters
0041594	Surface mounting back box extender ring
0041638	Basic user handset OriDim, Direct Dim and PRM detectors

Detection pattern





Dimensions (mm)

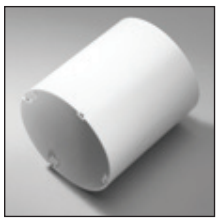
Features

Switching detectors

- Presence / Absence detection functionality
- On / off switching via lux level sensing
- Dual sensitivity: independently configurable ON and OFF motion sensitivity
- Adjustable time delay (10 sec to 99 min) before switching luminaires off
- Covers up to 40m diameter at a 15m mounting height
- Programmable via remote handset
- Additional user handsets available to control on/off
- Comes complete with IP65 gasket and adjustable masking shields to tailor detection zone
- Box accessory enables surface mounting
- Can also control heating and ventilation loads
- Switching versions may be connected in parallel for larger areas, e.g. 'L shaped corridors'

0041546

0041638



0041558

0041562

0041594

Dimming detectors

- DALI or analogue dimming functionality
- Two channel flexibility (on all DALI detectors)
- Step-down illumination
- Scene setting and recall
- Lamp burn-in
- Control capacity: digital detectors up to 20 DALI dimming ballasts (10 if channel 1 relay used), analogue detectors up to 10 dimming ballasts
- User handset available to control on/off, lux levels and pre-set scenes

PIR detectors - Ceiling-mounted

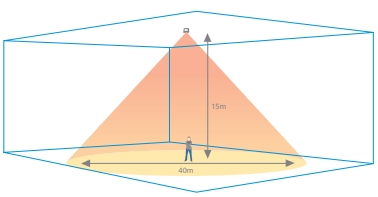
Code	Description	Load Rating at 230 vac R/I/F & CF	Load Rating at 230 vac Time Delay
Occupancy-linked detectors with lux level sensing			
2657748	High Bay PIR Sensor with switched output	10A	10 sec to 99 min
Occupancy-linked detectors with lux level sensing and dimming			
2657747	High Bay PIR Sensor with 1-10V dimming	10A	10 sec to 99 min
2657746	High Bay PIR Sensor with DALI/DSI dimming	10A	10 sec to 99 min

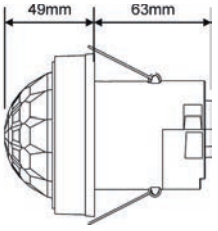
R = Resistive; I = Incandescent; Fluorescent; CF = Compact Fluorescent

Accessories

Code	Description
0041546	Basic Handheld programming device with presets
0041558	Surface mounting back box
0041562	Professional Programming handset for lux level sensing and dimming detectors - full control of all parameters
0041594	Surface mounting back box extender ring
0041638	Basic user handset OriDim, Direct Dim and PRM detectors

Detection pattern





Dimensions (mm)

Features

Switching detectors

- Presence / Absence detection functionality
- On / off switching via lux level sensing
- Dual sensitivity: independently configurable ON and OFF motion sensitivity
- Adjustable time delay (10 sec to 99 min) before switching luminaires off
- Detection up to 7m high
- Programmable via remote handset
- Additional user handsets available to control on/off
- Batten mounted retrofit system
- Supplied with comprehensive fixing kit
- IP65 rated
- 1000mm cable

0041546

0041638

0041562

Dimming detectors

- DALI or analogue dimming functionality
- Step-down illumination
- Scene setting and recall
- Lamp burn-in
- Control capacity: digital detectors up to 20 DALI dimming ballasts (10 if channel 1 relay used), analogue detectors up to 10 dimming ballasts
- User handset available to control on/off, lux levels and pre-set scenes

PIR detectors - Ceiling-mounted

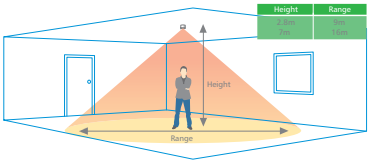
Code	Description	Load Rating at 230 vac R/I/F & CF	Load Rating at 230 vac Time Delay
Occupancy-linked detectors with lux level sensing			
2657199	Batten Mount Sensor with switched output	2A	10 sec to 99 min
Occupancy-linked detectors with lux level sensing and dimming			
0041595	Batten Mount Sensor with 1-10V dimming	2A	10 sec to 99 min
2657746	Batten Mount Sensor with DALI/DSI dimming	2A	10 sec to 99 min

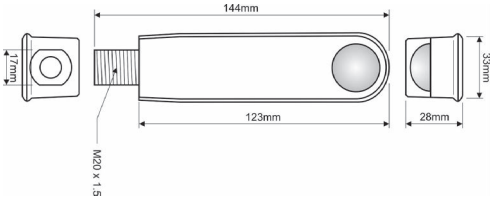
R = Resistive; I = Incandescent; Fluorescent; CF = Compact Fluorescent

Accessories

Code	Description
0041546	Basic Handheld programming device with presets
0041562	Professional Programming handset for lux level sensing and dimming detectors - full control of all parameters
0041638	Basic user handset OriDim, Direct Dim and PRM detectors

Detection pattern





Dimensions (mm)

0041547*

0041549*

0041546

0041638

0041562

- Up to 30m detection
- Low numbers of detectors required to cover a large area
- Dual sensitivity: independently configurable ON and OFF motion sensitivity
- Adjustable time delay (15 seconds - 30 minutes)
- Holds load on until occupant is no longer detected
- Self contained
- No external control boxes, minimises installation time
- Voltage free contact option
- IP66 version also available
- Box accessory enables surface mounting
- Can also control heating and ventilation loads
- Multiple units can be used in parallel to cover areas such as 'L shaped' corridors

Zone 1

Microwave detectors - wall-mounted

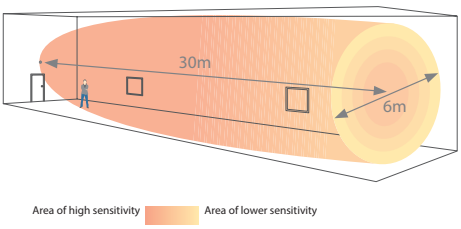
Code	Description	Load rating at 230 vac R/I/F & CF	Load rating at 230 vac Time Delay
Occupancy-linked detectors with lux level sensing			
0041547*	Microwave occupancy detector with lux level sensing and time delay function	10A	15 sec to 30 min
0041549*	As 0041547*, plus suitable for damp environments (IP66) rating	10A	15 sec to 30 min

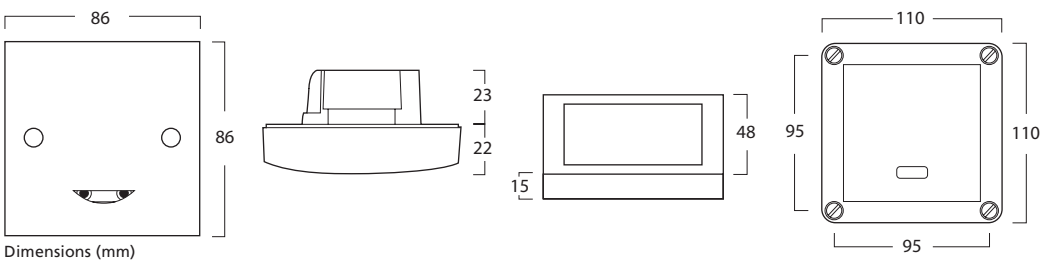
** Note that these products are only suitable for use in the following country(ies): UK. Other countries by request.*

Special voltage to order R = Resistive; I = Incandescent; Fluorescent; CF = Compact Fluorescent

Accessories

Code	Description
0041546	Basic Handheld programming device with presets
0041562	Professional Programming handset for lux level sensing and dimming detectors - full control of all parameters
0041638	Basic user handset OriDim, Direct Dim and PRM detectors





Dimensions (mm)

0041548*

0041550*

- Switching detectors
- Adjustable time delay
- Dual sensitivity: independently configurable ON and OFF motion sensitivity
- Holds load on until occupant is no longer detected Self-contained unit
- No external control boxes, minimises installation time
- Voltage free contact option

Zone 1

Microwave detectors - Ceiling-mounted

Code	Description	Load rating at 230 vac R/I/F & CF	Load rating at 230 vac Time Delay
Occupancy-linked detectors with lux level sensing			
0041548*	Microwave occupancy detector with lux level sensing and time delay function	10A	15 sec to 30 min
0041550*	As 0041548*, plus suitable for damp environments (IP66) rating	10A	15 sec to 30 min

** Note that these products are only suitable for use in the following country(ies): UK. Other countries by request.*

Special voltage to order R = Resistive; I = Incandescent; Fluorescent; CF = Compact Fluorescent

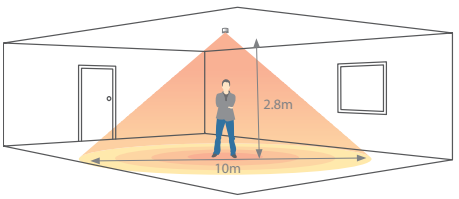
0041546

0041638

0041562

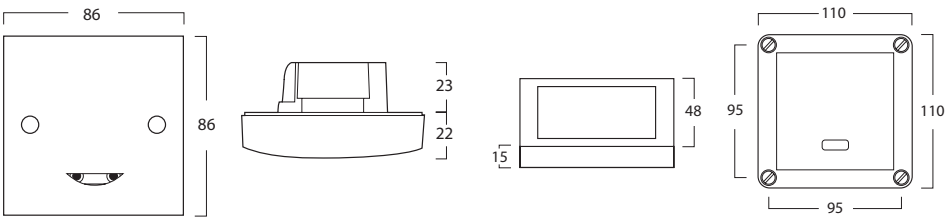
Accessories

Code	Description
0041546	Basic Handheld programming device with presets
0041562	Professional Programming handset for lux level sensing and dimming detectors - full control of all parameters
0041638	Basic user handset OriDim, Direct Dim and PRM detectors



Area of high sensitivity

Area of lower sensitivity



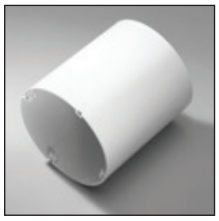
Dimensions (mm)

0041556, 0041557

0041551*, 0041552*, 0041553*

0041546

0041638



0041558 / 0041560

0041562

0041592

0041593 / 0041594

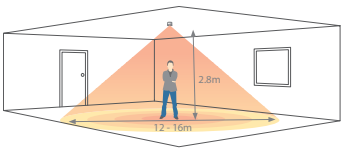
Switching detectors

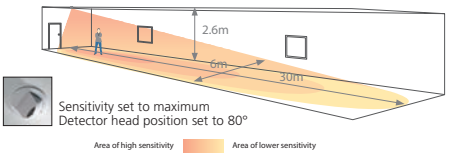
- Occupancy detection and switching with lux level sensing
- Time delay function (10 second - 99 minutes)
- Dual sensitivity: independently configurable ON and OFF motion sensitivity, presence or absence detection functionality
- Programmable via remote handsets: 0041546 or 0041562
- User handset available to control
- Accessory enables surface mounting
- The wall mounting bracket enables the adjustable microwave sensor, installed within a surface mounting back box, to be attached at a lower height than the ceiling, for example in a position below the level of direct/indirect luminaires
- Switching versions may be connected in parallel for larger areas, e.g. 'L shaped corridors'

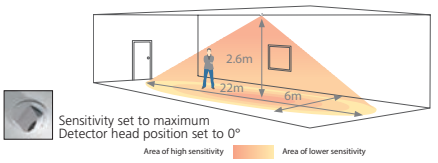
Dimming detectors

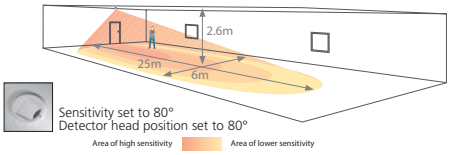
- DSI, DALI or 1-10V dimming versions
- Two channel flexibility: one switched, one dimming on DALI version
- Step-down illumination
- Scene setting and recall
- Lamp burn-in
- Control capacity: digital detectors up to 20 DALI dimming ballasts (10 if channel 1 relay used), analogue detectors up to 10 dimming ballasts
- Can also control heating and ventilation loads

Zone 1









Microwave detectors - Ceiling-mounted and tilt adjustable

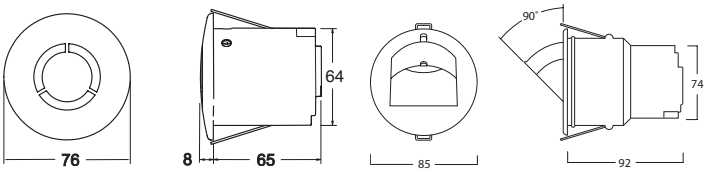
Code	Description	Load rating at 230 vac R/I/F & CF	Load rating at 230 vac Time Delay
Occupancy linked detectors with lux level sensing			
0041551*	Adjustable head microwave presence/absence detector with lux level sensing, infrared override and time delay function	10A	10 sec to 99 min
0041556	Ceiling-mounted microwave detector switched	-	-
Occupancy-linked detectors with lux level sensing and dimming			
0041552*	Adjustable head microwave presence/absence detector with dimming and time delay function. DALI dimming output.	10A	10 sec to 99 min
0041553*	Adjustable head microwave presence/absence detector for 1-10V analogue dimming output	10A	10 sec to 99 min
0041557	Ceiling-mounted microwave detector Direct Dim, DALI / DSI	-	-

** Note that these products are only suitable for use in the following country(ies): UK. Other countries by request.*

R = Resistive; I = Incandescent; Fluorescent; CF = Compact Fluorescent

Accessories

Code	Description
0041546	Basic Handheld programming device with presets
0041591	Surface mounting back box
0041562	Professional Programming handset for lux level sensing and dimming detectors - full control of all parameters
0041592	Wall mounting bracket
0041593	Surface mounting back box extender ring for adjustable microwave sensor
0041594	Surface mounting back box extender ring
0041638	Basic user handset OriDim, Direct Dim and PRM detectors User handset for simple scene setting, on off, raise + lower



Dimensions (mm)

Ballast lumen factor BLF (%)

Refers to the ratio of light output from the lamp on emergency operation to the nominal light output.

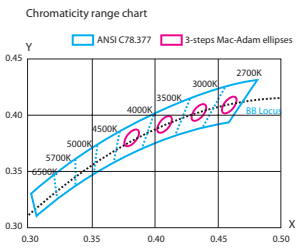
Beam Angle

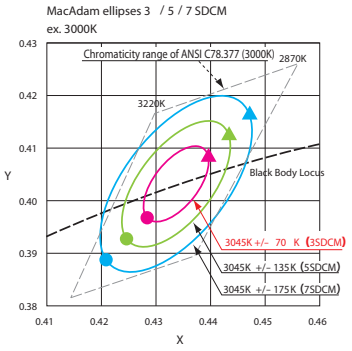
Indicates how broadly the light is emitted from a reflector lamp. It can be thought of as an imaginary cone whose apex intersects the lamp face, and the breadth of the cone extends outwards to the point where luminous intensity has diminished to 50% of the centre beam value.

Binning

The term binning refers to the variations which occur within a single production batch of LED's such as chromaticity, lumen output and forward voltage. It is important that a specific bin has been identified and selected to ensure a uniform and constantly even lighting installation is achieved. If all the LED's were selected from one production batch and used in the same luminaire or installation, there would be a mix of colour temperatures and brightness levels. For the lighting manufacturer / designer binning is an essential part of LED specification.

MacAdam ellipses methodology was created in 1943 for mathematically constructing ellipses around target points, something which became very useful for the lamp industry. ANSI C78.377 is now the standard for chromaticity specified by the American National Standards Institute. ANSI recommends that lamp manufacturers stay within a "4-step" ellipse. This means that, given a certain target point on the CIE diagram, manufacturers are given a fairly wide range of perceptible differences.





Candela (cd)

The unit of measurement for luminous intensity, which refers to the quantity of light emitted in a particular direction. The symbol is cd.

Colour Correlated Temperature (CCT)

An incandescent light bulb is very close to a perfect black-body radiator, so its colour temperature is basically the temperature of the filament. However many light sources, such as fluorescent tubes or high intensity discharge lamps, emit light by processes other than thermal radiation and therefore it is not possible to apply the black-body spectrum. For these light sources it is possible to assign what is known as a colour correlated temperature (CCT). The CCT is the colour temperature of a black-body (Planckian) radiator which most closely matches the colour of the light emitted from the lamp.

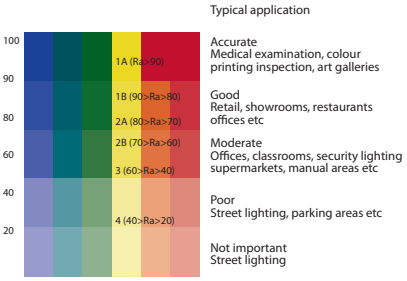
Warm White 3,000K

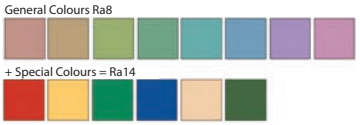
Neutral White 4,000K

Colour Rendering Index (CRI)

The colour rendering of a light source is an indicator of its ability to realistically reproduce the colour of an object. The chart illustrates our ability to accurately determine colour depending on the colour rendering properties of the light source. The higher the colour rendering index (on a scale of 0 to 100) of the source the better our ability to perceive differences in colour, which is a considerable aid to highlighting fashion products and effective display of coloured artworks.

The CIE colour rendering index (CRI) is a method to determine how well a light source's illumination of eight standardised colour patches compares to the illumination provided by a reference source. At Ra (8) the perceived colour shift of eight reference colours is measured as a percentage and averaged to give one number. However it is currently understood that due to the spectral power distribution of LED's that instead of using the standard Ra8 it is important to include 7 additional colours which include red, yellow, blue & green and use Ra14 to ensure better results.

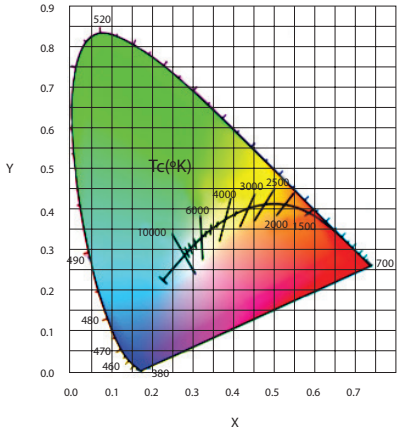




Colour Temperature

Colour temperature is a characteristic of visible light that plays a significant role in lighting applications. The colour temperature of a light source is the temperature of a perfect black-body radiator that radiates light of a similar appearance to that of the light source. The colour temperature is measured in units of absolute temperature; Kelvin (K).

Colour temperature works paradoxically to our cultural associations with colour, red as hot and blue as cold. On the black-body curve, blue occurs at higher temperatures than red. A good example is a candle which has a warm red orange appearance but in fact has a low Kelvin temperature, 1,850K. Therefore higher colour temperatures (5,000K more) are called cool colours (blueish white); lower colour temperatures (2,700K – 3,000K) are called warm colours (yellowish white through red).



The Planckian locus shows the chromaticities of black-body light sources of various colour temperatures and lines of constant correlated colour temperature shown within the CIE chromaticity diagram

Dimmability
The Sylvania lamps range includes Dimmable LEDs lamps. Most conventional dimmers have been designed for incandescent lamps and are therefore rated for higher minimum loads (W) than LED lamps consume. There may therefore be some restrictions in terms of functionality of dimmers with individual LEDs – but when more than one lamp is used to increase the total loading, dimming becomes easier. For full list of dimmer compatibility, please consult your local salesforce.

Downward Flux Fraction (DFF)
The factor of the total LOR, which is downward, taking the combined ULOR and DLOR as 100%. Using Cassini as an example, the DLOR is 37% and the ULOR is 15% so the combined is 52%. If this is taken as 100% LOR, 72% is downward (37% divided by 52%).

Drivers
Electronic devices that transform the high mains voltage into a constant current lower voltage for operating the LEDs. A miniature electronic driver is contained inside the base of each Sylvania LED lamp.

Glare
Discomfort glare is due to a high contrast between the source of light and the task. It is for that reason that luminance values are limited for certain tasks.

Heat Sink
A device used to conduct heat away from the LED sources and dissipate it to the surrounding air. The more efficiently an LED is cooled the greater its efficacy, light output and lifetime. Materials having excellent thermal properties and optimised cooling fin geometries are engineered into Havells Sylvania lamps and luminaires to deliver the pinnacle of performance.

Infrared (IR) Radiation
Comprises electromagnetic waves in the spectral range between visible light and microwaves, which produce a heating effect when absorbed by materials. All lamps and luminaires produce infrared radiation, but the quantity emitted by LEDs is far lower than other technologies and this makes them ideal for reducing air conditioning load, as well as for the illumination of heat-sensitive goods.

Illuminance
This definition determines the amount of light that covers a surface. If Ø is the luminous flux and S is the area of the given surface then the illuminance E is determined by E=Ø/S. The unit of illumination in SI system is lx, and in foot-pound system it is foot-candle. One lx is the illuminance of 1 m² surface area uniformly lighted by 1 lm of luminous flux.

Junction Temperature (Tj)
The temperature of the Junction of the LED die inside the LED lamp. Measuring the LED die temperature by direct mechanical means is difficult and may lead to erroneous results. It is recommended that the Tj is calculated with manufacturer's data through measurement of the temperature at the solder point (Tsp).

LED (Light Emitting Diode)
The semiconductor in the LEDs we provide emits blue light. The colour of the light ultimately depends on the phosphors used on the surface of the LED or lens.

Lens
An optical component having two refractive surfaces, at least one of which is either convex or concave. In LED lamps the function of a lens is to focus or disperse the light rays to achieve the desired beam angle or light distribution pattern.

Lifetime
LED lamps can have extremely long lives, however their light output diminshes as they age. They can carry on working until they are emitting less than 10% of their initial light output, but with so little light left they would be practically useless. Sylvania defines the lifetime of its LED lamps the same way as for other lamps: i.e. the burning hours until the light output has decreased to 70% of the initial value, or when 50% of a group of lamps will have failed – whichever is the soonest. The International Electrotechnical Commission (IEC) is currently preparing an international standard based on similar threshold values.

Light
Light Electromagnetic radiation with a wavelength between 380-780nm. Ultraviolet light has a wavelength of less than 380nm whilst infrared light's is greater than 720nm.

Lighting level
A measure of light falling on a particular point or surface. This unit is measured in lux.

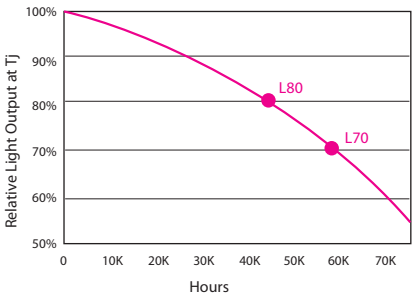
Light output ratio (LOR)
The ratio of the luminaire light output to lamp light output. The efficiency of the luminaire.

Lumen (lm)
Unit of luminous flux used to describe a quantity of light emitted by a source.

Lumen Maintenance
Rated Lumen Maintenance Life (Lxx): The elapsed operating time over which the LED light source will the percentage, xx, of its initial light output.

- L80 = Time to 80% lumen maintenance, in hours
- L70 = Time to 70% lumen maintenance, in hours

For LED lamps and luminaires, lumen maintenance is often shown as curves of relative lumen output over time for the LED under various operating conditions, such as drive current and junction temperature.



Luminance
The measure of brightness with which the eye perceives an illuminated surface from a certain direction. The luminous intensity per unit of visible surface of a light source (direct) or an illuminated surface (reflection). Luminance is indicated in candelas per square metre (cd/m2).

Luminous efficacy (lm/w)
Indicates how efficiently a light source converts electrical energy to light.

Luminous flux (lm)
The total light output of a light source measured in lumens.

Luminous intensity (cd)
The power of a source or illuminated surface to emit light in a particular direction, measured in candelas.

Lux (lux)
The unit of illuminance, equal to one lumen per square metre (lm/m²).

Illuminance cone
This shows beam angle and illuminance figures at different heights.

Polar curve
The graphic representation of the luminous intensity in different directions. If two curves are plotted, the distributions are in two vertical planes. They are absolute values.

Recycling
Havells Sylvania lamps and luminaires are extremely durable and do not contain any mercury, lead or other toxic metals. However because their drivers contain electronic components they must be disposed of as waste electrical and electronic equipment at the end of their life.

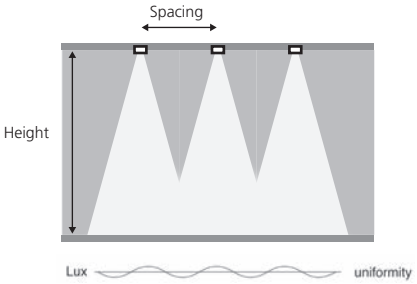
Reflector
An optical component having a reflective surface (the surface could be specular or diffusing depending on the job it is required to do) surface, which captures light rays from the source and bounces them back at a particular angle. Although more commonly used in incandescent and halogen lamps, some Sylvania LED lamps use reflectors to control their light instead of a lens.

Room index K
An index relating to the dimensions of a room influencing the amount of light emitted from the fitting onto the working surface.

$$K = \frac{a \times b}{h \times (a+b)}$$

where: a = room length
b = room width
h = height between the luminaire and working surface

Spacing to height ratio (SHR)
Used to determine the maximum distance between luminaires. The ratio of the distance between adjacent luminaires to the the distance between the luminaire plane and the horizontal working plane.



Switching Frequency
LED lamps cannot be switched on and off indefinitely, but are rated to tolerate an impressive 60,000 switching cycles or more.

TCO (Total Cost of Ownership)
TCO includes all the costs over the entire life of a lamp or for a particular operating time. It covers procurement costs, electricity consumption costs, relamping costs and may even incorporate a reduction in the necessary air conditioning load. LEDs are presently more expensive to purchase than lamps based on other technologies, but their minimal energy consumption results in rapid payback when replacing incandescent and halogen lamps.

Transformer
A device for reducing the high mains voltage down to a lower voltage. A distinction is made between conventional (magnetic) transformers and electronic transformers.

Uniformity ratio of illuminance
This indicates the degree of evenness of the light on the working surface and is shown as a ratio of the minimum to the mean lighting level on a surface. It becomes less even as the uniformity decreases. Typically you want 0.7 as a min for most schemes.

Ultra Violet (UV) radiation
Comprises electromagnetic waves in the spectral range between visible light and X-rays, which are invisible to the human eye but essential for all life (delivered via natural sunlight). Small amounts of UV are emitted by many light sources (e.g. Halogen and Discharge) and over time will cause fading of coloured objects being illuminated. Havells Sylvania lamps and luminaires do not emit any UV radiation.

Utilisation factor
The ratio of the light flux which the reference surface receives to the total luminous flux. This is influenced by the shape of the room and selected luminaire and is expressed in the form of UF tables.

Abreviations	Meaning
1	1 pack
1-10V	1-10V Analogue dimmable
3 hour emrg	3 hour emergency
3 PK	3 pack
10	10 pack
600	600 x 600mm
625	625 x 625mm
1200	1200 x 300mm
830	3,000K lamp
840	4,000K lamp
A2	
ALU	ALUminium
AS	ASymmetric optic
ASY	ASYmmetric
ASYM	ASYMmetric
BL	BLack
BR	Bright optic
BRI	BRIght
CHR	CHRome
CON	CONnected
D	Analogue 1-10V Dimmable
DALI	Digital Adjustable Lighting Interface
DB	Dimmable Ballast
DB10	1-10V Analogue dimmable
DBDA	DALI Dimmable
DBLASYM	DouBLe ASYMmetric
D/I	Direct / Indirect
DIFF	DIFFused light
DIR	DIRected light
DO	Double Optic
DSI	Digital Serial Interface
DS	Double Sided light output
E1	Emergency 1 hour
E3	Emergency 3 hour
EB	Electronic Ballast
ELECTR	ELECTRonic Ballast
EMG	EMerGency
EST	Electronic STarter
EX LMP	EXcluding LaMP
EXTGEAR	EXTernal GEAR tray
FTS	Fast Trunking System
GRY	GReY
GRY DIFF	GReY DIFFuser
GST	
HE	High Efficiency
HF	High Frequancy = Electronic ballast
HO	High Output
HQPS	High Quality PolyStyrene
HR	HR louvre
HRM / HRP	High Output internal reflector
HV	High Voltage
INS	INSaver
LIN	Linear
LLB	Low Loss Ballast = Magnetic balalst
LLB NC	Low Loss Ballast (= Magnetic ballast) Non Compensated
LLB PC	Low Loss Ballast (= Magnetic ballast) Parallel Compensated
LS	Christmas louvre
Magn. El. Starter	Magnetic Electronic Starter
MECH CON	MECHanical CONnection
MEDI	MEDium
MGR	Magnetic GeaR
M-LF	MicroLynx®-F lamp
MPM	
MW	MicroWave sensor
NARR	NARRow
(LLB) NC	(Low Loss Ballast = magnetic ballast) Non Compensated
No PFC	No Power Factor Correction

Abreviations	Meaning
NW	Neutral White
PA	PA louvre
PARA	PARAbolic
(LLB) PC	(Low Loss Ballast = magnetic ballast) Parallel Compensated
PC	PolyCarbonate
PEND	PENDant
PHOTO	PHOTOcell
PL	PL louvre
Plus3	GST 18 Wieland plug
PSM	PriSMatic
PULLC	PULL Cord
PUSHB	PUSH Button
RAP.D	RAPid Double
RAP.S	RAPid Single
REC	RECessed
REF	REFlector
REFL	REFLector
RGB	Red Green Blue
RPM	Tube with internal reflector
RU	RUst
S	Suspended
SA	SAtin
SAT	SATin
SEMI-REC	SEMI-RECessed
SF	Surface Mounted
SHAVS	SHAVer Socket
SI	Silver
SS	Single Sided loight output
STE	brushed STEel
STRPL	STRIP Light
SURF	SURFace mounted
SUSP	SUSPension kit
SYM	SYMmetric
TLT	TiLT
UV	Ultra Violet
V60	Visual 60 louvre
WHT	WHiTe
W/O LMP	WithOut LaMP
WT	WhiTe optic
WW	Warm White

Emergency Lighting

Emergency lighting is a vital and necessary safety requirement for most building types. The safety it provides for occupants is paramount and not negotiable.

Product Safety

- All Feilo Sylvania carry the CE mark. They are designed to conform to BS EN 60.598 2-22 and are manufactured in accordance with the quality system BS EN ISO 9001:2000 under certificate number FM01687
- Any emergency lighting luminaire conversion other than by Feilo Sylvania to a CE marked luminaire invalidates this CE marking and its associated legal protection

Emergency Lighting Equipment

This comprises an inverter plus a set of batteries, which conform to BS EN 60.598 2-22 and may be mounted:

- Integral within the luminaire (self contained – integral)
- Remote from, but within 1 metre of, the luminaire (self contained remote)

Non-maintained Operation

In this mode of operation the emergency lighting lamps are not normally energized. An automatic monitoring and switching system is provided to switch on the emergency lighting if the normal supply is interrupted

Maintained Operation

- A single lamp is used for both general and emergency modes
- In multi-lamp luminaires only one lamp will be used for the provision of emergency illumination
- Emergency lighting is provided for at least 3 hours (1 hour duration available to special order)

Maintained Remote Emergency Gear

Downlights are almost all with remote emergency packs. Linear and ambient fittings are likely to have emergency gear within the fitting. Where the housing design precludes integral gear a remote control box is provided complete with connection cables

Product Combined Operation (also known as Sustained)

- Separate lamps provide general and emergency illumination
- Emergency lighting is provided for at least 3 hours. (1 hour duration available to special order)

Self-testing

Automatic self-testing and monitoring of Havells Sylvania luminaires is available to special order on a project basis

Central Battery

Feilo Sylvania luminaires for use with a central battery system are available to special order on a project basis

System Design

This guide should be read in conjunction with current standards

Legislation Changes & Requirements

The British Standard BS5266 has been revised to conform with the European Standard EN1838 (issued in the UK under reference BS EN1838/BS5266 Part 7) which specifies luminous requirements for emergency systems installed in premises. It also now calls up the luminaire product standard BS EN60598-2-22: 1999

Emergency lighting is provided for use when the supply to the normal lighting fails and is therefore powered from a source independent of that supplying the normal lighting. For the purposes of this standard emergency lighting is regarded as a generic term of which there are a number of forms

Definitions

Emergency Exit

An exit which is intended to be used in an emergency.

Escape Route

A route designated for escape in the event of an emergency

Emergency Escape Lighting

That part of emergency lighting that provides illumination for the safety of people leaving a location or attempting to terminate a potentially dangerous process before doing so.

Escape Route Lighting

That part of emergency escape lighting provided to ensure that the means of escape can be effectively identified and safely used when the location is occupied

Open Area Lighting

In some countries this is known as anti-panic lighting. This relates to that part of emergency escape lighting provided to avoid panic and provide illumination, allowing people to reach a place where an escape route can be identified

High Risk Task Area Lighting

That part of emergency escape lighting that provides illumination for the safety of people involved in a potentially dangerous process or situation and to enable proper shut down procedures for the safety of the operator and other occupants of the premises

Areas Covered/Levels of Illumination

Defined Escape Route

Based on 2m wide on the horizontal plane, preferably 1 lux but not less than 0.2 lux on the centre line. The lighting provided should operate within 5 seconds of the failure of the normal supply

Open Area (Sometimes referred to as 'anti-panic' lighting)

Not less than 0.5 lux at floor level of the open space. The ratio of max to min illuminance should be greater than 40:1.

These extracts are provided for guidance purposes. In order to fully comply with the many elements of the various applicable standards, a full and thorough assessment must be made

Departures
Page 2 of 2
Tue 28 Feb 10:12
Flight
Destination
Time
Status
Gate
EZY6581 Geneva 13:00
EZY0677 Rome 13:45
BD235 Brussels 14:05
FR127 Dublin 14:35
WW5183 Edinburgh 15:30
FR539 Dublin 15:35
FR1675 Londonderry 16:45
FR9388 Girona 16:50
FR1732 Granada 16:50
WW5026 Glasgow 16:50
FR1742 Knock 16:10
WW5477 Amsterdam 16:15
WW5603 Belfast Intl 17:00
Fire exit
FIRE EXIT
Push bar to ope
Staff exit

Luminaire Classifications

Quality Registered

All lighting luminaires produced by Feilo Sylvania are designed, manufactured and tested under a quality assurance system in accordance with BS EN ISO 9001:2000, and are designed to comply with FM 01687. Also, the company also complies with the environmental management system, BS EN ISO14001;1996; certificate number EMS39002.

Compliance

The European Norm Electromechanical Certification (ENEC) has been adopted as a common mark of conformity with European Standards. A mark issued by any single national approbation body implies compliance with all seventeen international bodies. The ENEC mark now replaces the national test house symbol, and is appended by a number indicating from which test house the approbation originated.

CE marking

The designated product(s) is (are) in conformity with the provisions of the following European Directives:

2006/95/EC and amendments	Directive of the European Parliment and of the Council of 12 December 2006 on harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.
2004/1 08/EC and amendments	Directive of the European Parliament and of the Council of 15 September 2004 on the and amendment approximation of the laws ofthe Member States relating to electromagnetic compatibility.
2009/125/EC and amendments	Directive of the European Parliament and of the Council of 21 October 2009 on the establishing a framework for the setting of ecodesign requirements for energy-related products.
2011/65/EU	Directive ofthe European Parliament and ofthe Council of 6 June 2011on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Voltage

Fittings and transformers are supplied primarily for operation on 230/240V 50 Hz. For alternative electrical specifications contact Technical Support

Electrical protection

EN 60598

Class I – Luminaire which relies on an earthed metal case to offer protection from live parts in case of failure.

Class II – Luminaire which relies on two layers of insulation to offer protection from live parts in case of failure.

Class III – Luminaire relies on protection against electrical shock relies on supply at safely extra-low (SELV) and in which voltages higher than those of SELV are not generated

Classification of ballast-lamp circuit for energy efficency in lighting

With defined limiting value for each class

According to the CELMA (the European Federation of the National Associations of the manufactures of luminaires, control gears and lampholders) classification scheme the following classes and typical ballast types exist:

- **Class B2:** magnetic ballasts with low losses
- **Class B1:** magnetic ballasts with very low losses
- **Class A3:** electronic ballasts
- **Class A2:** electronic ballasts with reduced losses
- **Class A1:** dimmable electronic ballasts

Dimmable ballasts are classificated A1 if they fulfil the following requirements:

- at 100% light output setting the ballast fulfils at least the demands belonging to A3
- at 25% light output setting the total input power is equal to or less than 50% of the power at the 100% light output setting
- the ballast must be able to reduce the light output to 10% or less of the maximum light output

Electronic ballasts (conforming to CELMA energy efficiency scheme classes A1, A2 and A3) are major power savers.

Radio suppression

EN 55015, EN 61000 & EN 61547
Fittings comply with radio interference suppression and electromagnetic compatibility (EMC) regulations

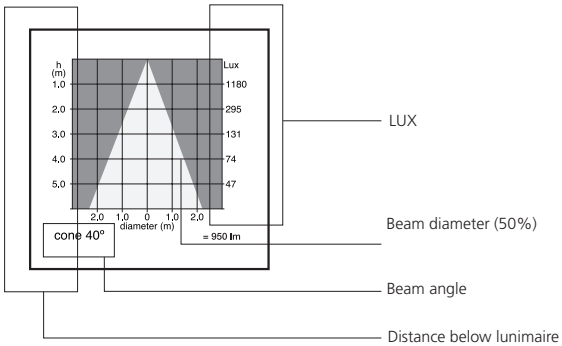
Degree of protection

EN 60529
IP rating system is an International classification showing degrees of protection provided by luminaires against ingress by solid objects or moisture.

Photometric Data

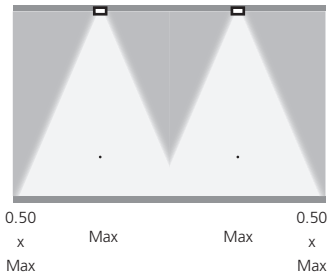
Illuminance cones

Cones are for single luminaires



Illuminance cones indicate beam spread, ie. a narrow, medium or broad beam of light. The illuminance values given (lux/Klm) are the maximum values within the beam for horizontal planes at various distances below the luminaire. The beam diameter, ie. the approximate size of the light coverage, is also given. The cone widths are calculated for an illuminance at the edge of the cone of 50% of the maximum. By spacing luminaires at the beam diameter for the appropriate height, the combined effect of adjacent cones is to produce an acceptable uniformity along the centre lines between luminaires (figure 1).

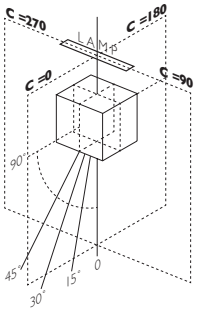
figure 1

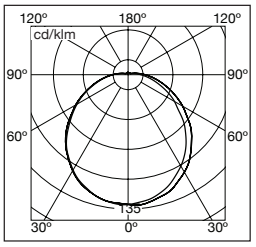


Polar Diagram of luminous intensity distribution

These provide a graphic representation of the distribution of light from a luminaire. Often referred to as polar curves, they indicate the intensity, measured in candelas (cd) per 1,000 lumens.

Note: If the fitting has a conventional lamp as light source, that is true. If a fitting has an LED as a light source we will publish figures as candelas.





DLOR = Downward light output ratio

ULOR = Upward light output ratio

The tables provided use luminaire Photometric data that has been measured and tested in accordance with British Standard EN13032-1 'Photometric Data for Luminaires'. Additional photometric data can be provided upon request.
All data is also available in EULUMDAT and IES NA formats.

A complementary lighting design service is also available, to provide guidance and recommendations and to ensure lighting solutions are tailored to customer requirements. Supporting this service are the latest computer software facilities enabling accurate predictions and performance checks to be carried out.

Ingress protection ratings (IP)

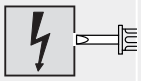
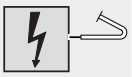
The resistive performance of fittings to solids and liquids is indicated by the IP (Ingress Protection) prefix followed by two numbers.

The first number indicates the measure of protection against the ingress of solids. For instance: IP 2X

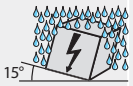
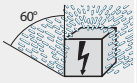
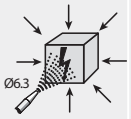
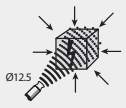
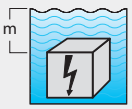
The second number indicates the measure of protection against the ingress of liquids. For instance: IP X1

Ingress Protection (IP) Specification Guide

Protection against the ingress of solid objects IP.1X

IP No.	Example	Protection against contact and ingress of objects	Tests	Symbol
IP 1X		Protected against solid objects greater than 50mm ø	A large surface of the body, such as a hand (but no protection against deliberate access). Solid objects exceeding 50mm in diameter.	
IP 2X		Protected against solid objects greater than 12mm ø	Fingers or similar objects not exceeding 80 mm in length. Solid objects exceeding 12mm in diameter.	
IP 3X		Protected against solid objects greater than 2.5mm ø	Tools, wires, etc., of diameter or thickness greater than 2.5mm. Solid objects exceeding 2.5mm in diameter.	
IP 4X		Protected against solid objects greater than 1.0mm ø	Wires or strips of thickness greater than 1.0mm. Solid objects exceeding 1.0mm in diameter.	
IP 5X		Dust protected	Ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.	
IP 6X		Dust tight	No ingress of dust.	

Protection against the ingress of liquids IP.X1

IP No.	Example	Protection against contact and ingress of water	Tests	Symbol
IP X1		Protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effect	
IP X2		Protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at any angle up to 15° from its normal position	
IP X3		Protected against spraying water	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect	
IP X4		Protected against splashing water	Water splashed against the enclosure from any direction hall have no harmful effect	
IP X5		Protected against water jets	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect	
IP X6		Protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities	
IP X7		Protected against the effects of immersion	Ingress of water in a harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time	
IP X8		Protected against submersion	The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer. NOTE Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.	

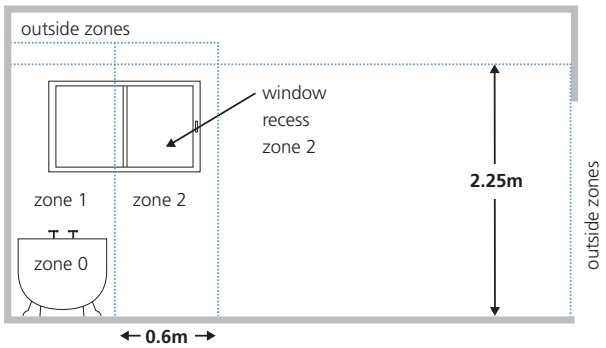
IP ratings in damp areas

Application of IP ratings within damp locations

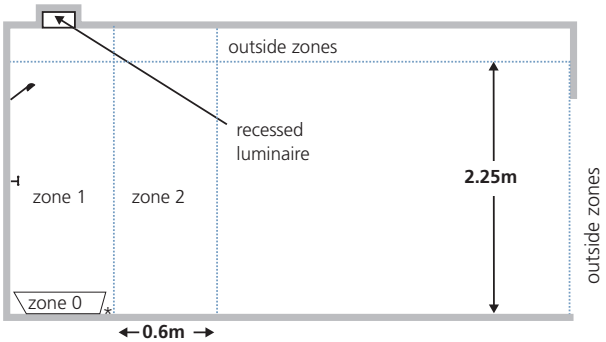
BS 7671: section 701 (17th Edition)

Guidance is provided by the above standard to the selection of luminaires within locations containing baths, showers and cabinets that contain a shower /and or bath along with the surrounding areas.

a) bath tub

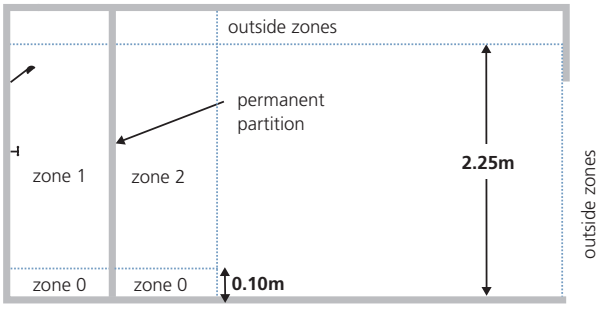


b) shower with basin



**Zone 1 if the space is accessible without the use of a tool. Spaces under the bath, accessible only with the use of a tool are outside the zones.*

c) shower without basin but with permanent fixed partition



IK ratings

Degree of Impact Protection EN62262.

IK rating system is an International classification showing degrees of protection provided by luminaires against external mechanical impacts.

Number	Measure of protection – impact energy (joules)	Test
IK 00	No protection to this standard -	
IK 01	0.15	0.20kg impact
IK 02	0.20	0.20kg impact
IK 03	0.35	0.20kg impact
IK 04	0.50	0.20kg impact
IK 05	0.70	0.20kg impact
IK 06	1.00	0.50kg impact from 200mm
IK 07	2.00	0.50kg impact from 400mm
IK 08	5.00	1.70kg impact from 295mm
IK 09	10.00	5.00kg impact from 200mm
IK 10	20.00	5.00kg impact from 400mm

When higher impact energy protection is required 50 joules is recommended.

Guide To Symbols

Electrical protection

EN60598

Class I – Luminaire which relies on an earthed metal case to offer protection from live parts in case of failure.

Class II – Luminaire which relies on two layers of insulation to offer protection from live parts in case of failure.

Class III – Luminaire relies on protection against electrical shock relies on supply at safely extra-low (SELV) and in which voltages higher than those of SELV are not generated

Fittings made for mounting in or on furniture made of materials of unknown properties - Only applies to a German national standard for mounting luminaires on furniture.

Passes the 650° glow wire test in accordance with IEC 695-2-1.

Horizontal rotation

Vertical tilt

Safety isolating transformer

Electronic transformer

Electronic ballast/gear

HID lamp requires an external ignitor

Ceiling cut-out – round

Ceiling cut-out – square

Trailing edge dimmable (capacitive)

Leading edge dimmable (inductive)

Ingress protection

Impact protection

Minimum distance in metres permitted from lighted object

European Norms Electrical Certification

Allowed lamp operating positions

Universal burning position

Horizontal burning position

Vertical burning position

Incandescent Candle and Ball:
Base up not allowed

Lamp can be operated in luminaires without a protective shield

Lamp should be operated only in a luminaire provided with a protective shield

Lamp emits a high level of UV radiation

Reduced UV emissions

Cool beam reflector

Not dimmable

Protection against water contact

Internal ignitor

External ignitor

Ballast is required

Lamp should not be operated when the outer bulb is broken

Be aware of high temperatures when replacing lamp

Do not hold the lamp glass when installing or removing

Switch off power supply before replacing lamp

Do not touch lamp with bare fingers when replacing lamp

Energy saving

The equipment should not be disposed of in the normal waste stream.

Read instructions before use

Lamp complies with legal standards

German test lab and certifying body, VDE.

Grüne Punkt

Loop-in Loop-out / Luminaire can be looped

RoHS compliant

WEEE compliant

Warranty logo, please refer to intro pages for full details

Ball resistant luminaire

RAL is European colour matching system, we can offer variant colours on demand

Throughout the catalogue, lamp boxes provide guidance on lighting performance. Beam angles quoted are usually for either a lamp and reflector combination or a reflector type lamp. **Note** that beam angles quoted are at 50% of the peak intensity.

In the case of the lamp plus a reflector, the beam angle quoted will indicate the designed performance. However, in the case of the reflector lamp the quoted beam angle will be the 'bare-lamp' performance for that recommended lamp. The actual performance for a reflector lamp, within a luminaire, will be indicated by a polar curve for the particular lamp/luminaire combination - usually shown on the same page. There will sometimes be a small variation between luminaire performance and the lamp in 'bare-lamp' configuration.

LED Lamps

Title	Sylvania	ZVEI	ILCOS	Ømm	Length (mm)	Watts Nominal	Cap/ Base	Useful Lumens (IL)	Peak Intensity (Cd)	Beam (50%)	Average Rated Life (Hrs)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
LED Reflector	RefLED Coolft	-	-	51	56	5.5	GU10	345	1,200	25	50,000	2,700/ 3,000/ 4,000	85	1B
	RefLED Superia	-	-	51	56	7.5	GU10	345	1,200	25	25,000	2,700/ 3,000/ 4,000	85	1B
	Hi-Spot RefLED PAR20	-	-	63.5	85	5.5	E27	270	900	30	30,000	3,000	85	1B
	Hi-Spot RefLED PAR30	-	-	95	80	11	E27	610	2,300	25	30,000	3,000	85	1B
	AR111 Low Voltage	-	-	110.7	57	10	G53	550	-	25/40	25,000	3,000	85	1B
MicroLynx LED	MicroLynx LED	-	-	76	16	4	GX53	250	-	-	15,000	2,700	85	1B
LED Non-Directional	ToLEDo GLS	-	-	61	107	5	E27	250	-	-	15,000	2,700	85	1B
	ToLEDo GLS	-	-	61	107	7.5	E27	470	-	-	15,000	2,700	85	1B
	ToLEDo GLS	-	-	61	112	10.5	E27	806	-	-	15,000	2,700	85	1B

Mains Voltage Tungsten Halogen Lamps

Note - Permanently dimming halogen lamps shortens lamp life. Dimmed halogen lamps should be run-up to full power at regular intervals to maintain optimum life

Title	Sylvania	ZVEI	ILCOS	Ømm	Length (mm)	Watts Nominal	Cap/ Base	Useful Lumens (IL)	Peak Intensity (Cd)	Beam (50%)	Average Rated Life (Hrs)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
Halogen PAR16	Hi-Spot ES50 Eco	QPAR16	HAGSPAR	50	55	40	GU10	300	1,100	25	2,000	2,700	100	D
Clear	Hi-Spot ES50 Superia	QPAR16	HAGSPAR	50	55	50	GU10	330	1,360	25	3,000	2,700	100	D
Low Pressure UV Stop	Hi-Spot ES50 Superia	QPAR16	HAGSPAR	50	55	50	GU10	330	550	50	3,000	2,700	100	D
Halogen PAR20	Hi-Spot ES63	QPAR63	HAGSPAR	62	64	50	GU10	380	1,500	25	2,500	2,750	100	D
Clear	Hi-Spot ES63	QPAR63	HAGSPAR	62	64	75	GU10	700	2,500	50	2,500	2,750	100	D
Low Pressure UV Stop	Hi-Spot ES63	QPAR63	HAGSPAR	62	64	75	GU10	700	1,000	25	2,500	2,750	100	D
Halogen PAR20	Hi-Spot 63	QPAR20	HAPAR	65	88	50	E27	360	3,000	10	2,500	2,900	100	D
Clear	Hi-Spot 63	QPAR20	HAPAR	65	88	50	E27	360	1,000	25	2,500	2,900	100	D
Low Pressure UV Stop														
Halogen PAR25	Hi-Spot 80	QPAR80	HAPAR	81	108	50	E27	400	4,000	10	2,500	2,900	100	D
Clear	Hi-Spot 80	QPAR80	HAPAR	81	108	50	E27	400	1,100	25	2,500	2,900	100	D
Low Pressure UV Stop	Hi-Spot 80	QPAR80	HAPAR	81	108	75	E27	670	5,500	10	3,000	2,900	100	D
	Hi-Spot 80	QPAR80	HAPAR	81	108	75	E27	670	1,300	25	3,000	2,900	100	D
Halogen PAR30	Hi-Spot 95	QPAR30	HAPAR	97	88	75	E27	640	6,900	10	2,500	2,900	100	D
Clear	Hi-Spot 95	QPAR30	HAPAR	97	88	75	E27	640	2,200	30	2,500	2,900	100	D
Low Pressure	Hi-Spot 95	QPAR30	HAPAR	97	88	100	E27	980	10,000	10	3,000	2,900	100	D
UV Stop	Hi-Spot 95	QPAR30	HAPAR	97	88	100	E27	980	3,500	30	3,000	2,900	100	D

Low Voltage Tungsten Halogen Lamps - 12V

Note - Permanently dimming tungsten halogen lamps shortens lamp life. Dimmed halogen lamps should be run-up to full power at regular intervals to maintain optimum life

Title	Sylvania	ZVEI	ILCOS	Ømm	Length (mm)	Watts Nominal	Cap/ Base	Useful Lumens (IL)	Peak Intensity (Cd)	Beam (50%)	Average Rated Life (Hrs)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
Tungsten halogen	Capsule LP	QT9-LPax	HSG/LP	9	33	5	G4	40	-	-	2,000	2,800	100	C
Capsule - axial filament	Capsule LP	QT9-LPax	HSG/LP	9	33	10	G4	100	-	-	2,000	2,800	100	C
Clear	Capsule LP	QT9-LPax	HSG/LP	9	33	20	G4	250	-	-	2,000	2,800	100	D
Low Pressure	-	QT12-LPax	HSG/LP	12	44	20	GY6.35	300	-	-	3,000	3,000	100	D
UV Stop	Capsule LP	QT12-LPax	HSG/LP	12	44	35	GY6.35	520	-	-	2,000	2,900	100	C
	Capsule LP	QT12-LPax	HSG/LP	12	44	50	GY6.35	900	-	-	2,000	2,900	100	C
	-	QT12-LPax	HSG/LP	12	44	75	GY6.35	1,600	-	-	3,000	3,000	100	C
	-	QT12-LPax	HSG/LP	12	44	100	GY6.35	2,300	-	-	3,000	3,000	100	1A
Superia 50 EcoPlus	Superia EcoPlus	QR-CBC51	HRGI	51	45	20	GX/GU5.3	300	6,000	8	5,000	3,000	100	B
	Superia EcoPlus	QR-CBC51	HRGI	51	45	20	GX/GU5.3	300	1,000	30	5,000	3,000	100	B
	Superia EcoPlus	QR-CBC51	HRGI	51	45	35	GX/GU5.3	580	11,000	8	5,000	3,000	100	B
	Superia EcoPlus	QR-CBC51	HRGI	51	45	35	GX/GU5.3	580	4,100	20	5,000	3,000	100	B
	Superia EcoPlus	QR-CBC51	HRGI	51	45	35	GX/GU5.3	580	2,000	30	5,000	3,000	100	B
	Superia EcoPlus	QR-CBC51	HRGI	51	45	45	GX/GU5.3	800	15,000	8	5,000	3,000	100	B
	Superia EcoPlus	QR-CBC51	HRGI	51	45	45	GX/GU5.3	800	5,450	20	5,000	3,000	100	B
	Superia EcoPlus	QR-CBC51	HRGI	51	45	45	GX/GU5.3	800	2,850	30	5,000	3,000	100	B
	Superia EcoPlus	QR-CBC51	HRGI	51	45	45	GX/GU5.3	800	1,300	55	5,000	3,000	100	B
MR16 Quartz capsule & aluminium reflector Low pressure UV Stop	Coolfit XEco	QR-C51	HAGI	51	45	50	GX/GU5.3	540	1,400	38	5,000	3,000	100	B
AR70 Quartz capsule & aluminium reflector														
Axial filament Clear front Low pressure UV Stop	MR11 Superia	-	-	35	42	35	GU4	325	1,350	38	3,000	3,000	100	C
	MR11 Home	-	-	35	42	35	GU4	325	3,600	10	2,000	3,000	100	C

Compact fluorescent lamps [CFL]

Title		Sylvania	ZVEI	ILCOS	Length (mm)	Watts Nominal	Cap/ Base	Initial Lumens (IL)	Average Rated Life (Hrs)	Colour Temp. (°K)	Colour Rendering (Ra)	Energy Rating
TC-S		Lynx-S	TC-S	FSD	137	7	G23	425	10,000	2,700/3,000/3,500/4,000/6,500	85	A
2 limb, 2 pin [SS]		Lynx-S	TC-S	FSD	168	9	G23	600	10,000	2,700/3,000/3,500/4,000/6,500	85	A
		Lynx-S	TC-S	FSD	236	11	G23	900	10,000	2,700/3,000/3,500/4,000/6,500	85	A
TC-SEL		Lynx-SE	TC-SEL	FSD	92	5	2G7	265	10,000	4,000	85	A
2 limb, 4 pin [HF]		Lynx-SE	TC-SEL	FSD	121	7	2G7	425	10,000	2,700/4,000	85	A
		Lynx-SE	TC-SEL	FSD	152	9	2G7	600	10,000	2,700/4,000	85	A
		Lynx-SE	TC-SEL	FSD	220	11	2G7	900	10,000	2,700/4,000	85	A
TC-D		Lynx-D	TC-D	FSQ	116	10	G24d-1	600	12,000	2,700/3,000/3,500/4,000/6,000/6,500	85	A
4 limb, 2 pin [SS]		Lynx-D	TC-D	FSQ	141	13	G24d-1	900	12,000	2,700/3,000/3,500/4,000/6,000/6,500	85	A
		Lynx-D	TC-D	FSQ	154	18	G24d-2	1,215	12,000	2,700/3,000/3,500/4,000/6,000/6,500	85	A
		Lynx-D	TC-D	FSQ	171	26	G24d-3	1,800	12,000	2,700/3,000/3,500/4,000/6,000/6,500	85	A
TC-DEL		Lynx-DE	TC-DEL	FSQ	109	10	G24q-1	600	12,000	2,700/3,000/3,500/4,000	85	A
4 limb, 4 pin [HF]		Lynx-DE	TC-DEL	FSQ	134	13	G24q-1	900	12,000	2,700/3,000/3,500/4,000	85	A
		Lynx-DE	TC-DEL	FSQ	147	18	G24q-2	1,215	12,000	2,700/3,000/3,500/4,000	85	A
		Lynx-DE	TC-DEL	FSQ	164	26	G24q-3	1,800	12,000	2,700/3,000/3,500/4,000	85	A
TC-T		Lynx-T	TC-T	FSM	124	18	GX4d-2	1,200	15,000	2,700/3,000/3,500/4,000/6,500	85	A
6 limb, 2 pin [SS]		Lynx-T	TC-T	FSM	139	26	GX4d-3	1,800	15,000	2,700/3,000/3,500/4,000/6,500	85	A
TC-TEL		Lynx-TE	TC-TEL	FSM	100	18	GX4q-2	1,200	15,000	2,700/3,000/3,500/4,000	85	A
6 limb, 4 pin [HF]		Lynx-TE	TC-TEL	FSM	115	26	GX4q-3	1,800	15,000	2,700/3,000/3,500/4,000	85	A
		Lynx-TE	TC-TEL	FSM	131	32	GX4q-3	2,400	15,000	2,700/3,000/3,500/4,000	85	A
		Lynx-TE	TC-TEL	FSM	152	42	GX4q-4	3,200	15,000	2,700/3,000/3,500/4,000	85	A
TC-TELI		-	TC-TELI	FSM	178	57	GX24q-5	4,300	12,000	3,000/4,000/6,000	82	A
6 limb, 4 pin [HF]												
TC-L		Lynx-L	TC-L	FSL	225	18	2G11	1,200	15,000	3,000/4,000/6,000	85	A
2 limb, 4 pin [HF]		Lynx-L	TC-L	FSL	320	24	2G11	1,800	15,000	3,000/4,000/6,000	85	A
		Lynx-L	TC-L	FSL	415	36	2G11	2,900	15,000	3,000/4,000/6,000	85	A
		Lynx-L	TC-L	FSL	535	40	2G11	3,500	15,000	3,000/4,000/6,000	85	A
		Lynx-L	TC-L	FSL	535	55	2G11	4,800	15,000	3,000/4,000/6,000	85	A
TC-F		Lynx-F	TC-F	FSM	122	18	2G10	1,100	10,000	4,000	85	A
4 limb, 4 pin [HF]		Lynx-F	TC-F	FSM	165	24	2G10	1,700	10,000	3,000/4,000	85	A
		Lynx-F	TC-F	FSM	217	36	2G10	2,800	10,000	3,000/4,000	85	A
2D		Lynx-QE	TC-DD	FSF	-	16	GR10q	1,050	10,000	2,700/3,000/4,000	82	A
8 limb, 4 pin [HF]		Lynx-QE	TC-DD	FSF	-	28	GR10q	2,250	15,000	2,700/3,000/4,000	82	A
		Lynx-QE	TC-DD	FSF	-	38	GR10q	3,000	15,000	2,700/3,000/4,000	82	A
Mini-Lynx Fast Start		Mini-Lynx	-	-	102	11	E27	600	10,000	2,700/4,000/6,000	80	A

T5 Fluorescent Lamps

Title	Sylvania	ZVEI	ILCOS	Length (mm)	Watts Nominal	Cap/ Base	Initial Lumens (IL)	Max Lumens at 33-37°	Average Rated Life (Hrs)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
T5 HE (16mm Ø)	Luxline FHE	T16	FDH	549	14	G5	1,200	1,350	24,000	2,700/3,000/4,000	85	A+
High Efficiency	Luxline FHE	T16	FDH	549	14	G5	1,140	1,250	24,000	6,000	85	A+
Triphosphor	Luxline FHE	T16	FDH	849	21	G5	1,910	2,100	24,000	2,700/3,000/4,000	85	A+
	Luxline FHE	T16	FDH	849	21	G5	1,775	1,950	24,000	6,000	85	A+
	Luxline FHE	T16	FDH	1,149	28	G5	2,640	2,900	24,000	2,700/3,000/4,000	85	A+
	Luxline FHE	T16	FDH	1,149	28	G5	2,460	1,950	24,000	6,000	85	A+
	Luxline FHE	T16	FDH	1,449	35	G5	3,300	3,650	24,000	2,700/3,000/4,000	85	A+
	Luxline FHE	T16	FDH	1,449	35	G5	3,095	3,400	24,000	6,000	85	A+
T5 HO (16mm Ø)	Luxline FHO	T16	FDH	549	24	G5	1,750	2,000	24,000	2,700/3,000/4,000	85	A+
High Output	Luxline FHO	T16	FDH	549	24	G5	1,570	1,850	24,000	6,000	85	A+
Triphosphor	Luxline FHO	T16	FDH	849	39	G5	3,220	3,500	24,000	2,700/3,000/4,000	85	A+
	Luxline FHO	T16	FDH	849	39	G5	2,990	3,250	24,000	6,000	85	A+
	Luxline FHO	T16	FDH	1,449	49	G5	4,165	4,900	24,000	2,700/3,000/4,000	85	A+
	Luxline FHO	T16	FDH	1,449	49	G5	3,950	4,650	24,000	6,000	85	A+
	Luxline FHO	T16	FDH	1,149	54	G5	4,150	5,000	24,000	2,700/3,000/4,000	85	A+
	Luxline FHO	T16	FDH	1,149	54	G5	4,050	4,550	24,000	6,000	85	A+
	Luxline FHO	T16	FDH	1,149	80	G5	6,150	7,000	24,000	2,700/3,000/4,000	85	A+
	Luxline FHO	T16	FDH	1,449	80	G5	5,700	6,650	24,000	6,000	85	A+
T5 (16mm Ø)	Standard	T16	FD	212	6	G5	280	-	10,000	3,000/3,500	53	A
Standard	Standard	T16	FD	212	6	G5	280	-	10,000	4,300	64	A
Halophosphor	Standard	T16	FD	212	6	G5	240	-	10,000	6,500	76	A
Short	Standard	T16	FD	288	8	G5	400	-	10,000	3,000/3,500	53	A
	Standard	T16	FD	288	8	G5	400	-	10,000	4,300	64	A
	Standard	T16	FD	288	8	G5	340	-	10,000	6,500	76	A
	Standard	T16	FD	517	13	G5	880	-	10,000	3,000/3,500	53	A
	Standard	T16	FD	517	13	G5	880	-	10,000	4,300	64	A
	Standard	T16	FD	517	13	G5	750	-	10,000	6,500	75	A
T5 Circular (16mm Ø) 1B		T16-R	FSCH	230Ø	22	2GX13	1,800	-	16,000	2,700/3,000/4,000/6,000		85
High output 1B		T16-R	FSCH	305Ø	40	2GX13	3,200	-	16,000	2,700/3,000/4,000/6,000		85
Triphosphor 1B		T16-R	FSCH	305Ø	55	2GX13	4,200	-	16,000	2,700/3,000/4,000/6,000		85

T8 Fluorescent Lamps

Title	Sylvania	ZVEI	ILCOS	Length (mm)	Watts Nominal	Cap/ Base	Initial Lumens (IL)	Max Lumens at 33-37°	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
T8 (26mm Ø)	Luxline Plus	T26	FD	590	18	G13	1,350	20,000	2,700/3,000/3,500/4,000	85	A
Triphosphor	Luxline Plus	T26	FD	590	18	G13	1,300	20,000	5,000/6,000	85	A
	Luxline Plus	T26	FD	1,200	36	G13	3,350	20,000	2,700/3,000/3,500/4,000	85	A
	Luxline Plus	T26	FD	1,200	36	G13	3,250	20,000	5,000/6,000	85	A
	Luxline Plus	T26	FD	1,500	58	G13	5,200	20,000	2,700/3,000/3,500/4,000	85	A
	Luxline Plus	T26	FD	1,500	58	G13	5,000	20,000	5,000/6,000	85	A
	Luxline Plus	T26	FD	1,764	70	G13	6,050	20,000	2,700/3,000/3,500/4,000	85	A
	Luxline Plus	T26	FD	1,764	70	G13	5,700	20,000	5,000/6,000	85	A

HID metal halide - Ceramic arc tube

Note: Ceramic Metal halide lamps and Electronic Gear

Lamp warm-up - Ceramic metal halide lamps require approximately 5-12 minutes warm up time to reach full output. Several colour changes are often experienced as part of the warm up process.

Hot Re-strike - Hot lamps must cool down sufficiently until the gear can re-ignite them. Length of time this takes will depend upon the ambient and lamp temperature.

Timed ignition - Gear will shut down to protect itself when lamps are damaged and at end of lamp life. Constant attempts to strike such lamps would result in a reduction in gear life. Once the lamp has been replaced and the gear reset (by switching the unit off at the mains) the gear will operate as normal.

Thermal protection - Gear will shut down to protect itself when high ambient and internal temperatures are reached that would substantially decrease gear life. Such occurrences may occur in areas with poor ventilation or sometimes at the end of lamp life. Once the temperature has reduced to a safe level the gear will automatically re-set itself and operate normally.

Title	Sylvania	ZVEI	ILCOS	Ømm	Length (mm)	Watts Nominal	Cap/ Base	Nominal luminous flux at 25 (lm)	Peak Intensity (Cd)	Beam (50%)	Average Rated Life (Hrs)	Colour Temp. (°K)	Colour Rendering (Ra)	Energy Rating
Metal halide ceramic capsule	-	HIT-TC-CE	MT	14	85	20	G8.5	1,700	-	-	15,000	3,000	81	A+
UV Stop	CMI-TC	HIT-TC-CE	MT	17	85	35	G8.5	3,750	-	-	15,000	3,000	87	A+
	CMI-TC	HIT-TC-CE	MT	17	85	70	G8.5	6,700			15,000	3,000	89	A+
Metal halide ceramic capsule	CMI-T	HIT-CE	MT	20	90	35	G12	3,750	-	-	15,000	3,000	83	A+
UV Stop	CMI-T	HIT-CE	MT	20	90	70	G12	6,700	-	-	15,000	3,000	87	A+
	CMI-T	HIT-CE	MT	20	90	70	G12	6,700	-	-	15,000	4,200	93	A+
	CMI-T	HIT-CE	MT	20	100	150	G12	13,500	-	-	15,000	3,000	83	A+
	CMI-T	HIT-CE	MT	20	100	150	G12	13,000	-	-	18,000	4,200	88	A+
Superia CMI-T	S CMI-T WDL	HIT-CE	MT	20	90	35	G12	4,000	-	-	18,000	3,000	91	A+
	S CMI-T WDL	HIT-CE	MT	20	90	70	G12	7,300	-	-	18,000	3,000	90	A+
	S CMI-T NDL	HIT-CE	MT	20	90	35	G12	4,200	-	-	18,000	3,000	92	A+
	S CMI-T NDL	HIT-CE	MT	20	90	70	G12	7,300	-	-	18,000	3,000	96	A+
	S CMI-T Mini	HIT-CE	MT	13.3	52	20	GU6.5	1,900	-	-	18,000	3,000	85	A+
Metal halide ceramic tubular double ended	CMI-TD	HIT-DE-CE	MD	22	117.6	70	Rx7s	6,200	-	-	18,000	3,000	85	A+
UV Stop	CMI-TD	HIT-DE-CE	MD	22	117.6	70	Rx7s	6,500	-	-	15,000	4,200	90	A+
	CMI-TD	HIT-DE-CE	MD	25	135.4	150	Rx7s-24	13,500	-	-	15,000	3,000	85	A+
	CMI-TD	HIT-DE-CE	MD	25	135.4	150	Rx7s-24	12,500	-	-	15,000	4,200	90	A+
Metal halide ceramic tubular	S CMI-TT	HIT-CE	MT	32	156	70	E27	6,300	-	-	12,000	3,000	83	1B
UV Stop	S CMI-TT	HIT-CE	MT	47	211	150	E40	13,500	-	-	7,000	3,000	85	1B
Metal halide ceramic elliptical	-	HIE-CE	ME	71	156	70	E27	5,900	-	-	12,000	3,000	83	1B
	-	HIE-CE	ME	91	226	150	E40	13,000	-	-	7,000	3,000	85	1B
UV Stop	-	QT32	HEGT/W	32	105	250	E27	4,210	-	-	2,000	2,900	100	1A
Metal halide ceramic elliptical	-	HIT-CE	ME	54	138	70	E27	5,700	-	-	9,000	3,000	87	1B
UV Stop	-	HIT-CE	ME	54	138	70	E27	5,600	-	-	9,000	4,200	90	1A
	-	HIT-CE	ME	54	141	100	E27	8,600	-	-	9,000	3,000	87	1B
	-	HIT-CE	ME	54	138	150	E27	12,500	-	-	9,000	3,000	87	1B
	-	HIT-CE	ME	54	138	150	E27	12,500	-	-	9,000	4,200	90	1A,

HID metal halide - Quartz arc tube

Title	Sylvania	ZVEI	ILCOS	Ømm	Length (mm)	Watts Nominal	Cap/ Base	Nominal luminous flux at 25 (lm)	Peak Intensity (Cd)	Beam (50%)	Average Rated Life (Hrs)	Colour Temp. (°K)	Colour Rendering (Ra)	Energy Rating
Metal halide quartz capsule	HSI-T	HIT-UVr	MT	26	76	70	G12	5,200	-	-	6,000	3,000	80	A
	HSI-T	HIT-UVr	MT	26	76	70	G12	5,200	-	-	6,000	4,200	80	A
UV Stop	HSI-T	HIT-UVr	MT	26	76	150	G12	12,000	-	-	6,000	3,000	80	A
	HSI-T	HIT-UVr	MT	26	76	150	G12	12,500	-	-	6,000	4,200	80	A
Metal halide quartz tubular double ended	HSI-TD	HIT-DE	MD	22	117.6	70	Rx7s	5,500	-	-	9,000	3,200	80	A
	HSI-TD	HIT-DE	MD	22	117.6	70	Rx7s	5,500	-	-	9,000	4,000	80	A
UV stop	HSI-TD	HIT-DE	MD	25	135.4	150	Rx7s-24	12,500	-	-	9,000	3,000	80	A
	HSI-TD	HIT-DE	MD	25	135.4	150	Rx7s-24	12,500	-	-	9,000	4,200	80	A
	HSI-TD	HIT-DE	MD	25	135.4	150	Rx7s-24	11,000	-	-	9,000	5,200	80	A
Metal halide quartz elliptical Britelux clear compatible with HP sodium control gear UV Stop	HSI-SX	HIE	MT	90	227	250	E40	23,500	-	-	20,000	4,100	70	A
Metal halide quartz elliptical Britelux clear/protected compatible with HP sodium control gear UV stop	HSI-SX CL/P	HIE-P	MT	90	227	250	E40	21,000	-	-	15,000	4,500	70	A
	HSI-SX CL/P	HIE-P	MT	120	290	400	E40	40,000	-	-	15,000	4,300	70	A
Metal halide quartz elliptical Britelux Coated compatible with HP sodium control gear UV Stop	HSI-SX CO	HIE	MT	90	227	250	E40	22,300	-	-	15,000	3,800	70	A
Metal halide quartz elliptical Britelux Coated/protected compatible with HP sodium control gear UV Stop	HSI-SX CO/P	HIE-P/c	MT	90	227	250	E40	20,000	-	-	15,000	4,200	70	A
	HSI-SX CO/P	HIE-P/c	MT	120	290	400	E40	42,000	-	-	15,000	4,200	70	A

HID metal halide - Quartz arc tube

Title	Sylvania	ZVEI	ILCOS	Ømm	Length (mm)	Watts Nominal	Cap/ Base	Nominal luminous flux at 25 (lm)	Peak Intensity (Cd)	Beam (50%)	Average Rated Life (Hrs)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
Metal halide quartz tubular	HSI-THX	HIT	MT	48	257	250	E40	20,000	-	-	14,500	4,500	80	A
	HSI-THX	HIT	MT	63	270	400	E40	36,000	-	-	14,500	4,200	80	A
Clear														
compatible with HP mercury control gear														
UV Stop														
Metal halide quartz elliptical	HSI-MP	HIE-P	ME	54	138	70	E27	5,200	-	-	15,000	2,900	80	A
UV Stop	HSI-MP	HIE-P	ME	54	138	70	E27	5,500	-	-	15,000	3,800	80	A
	HSI-MP	HIE-P	ME	54	138	100	E27	7,900	-	-	15,000	2,900	80	A
	HSI-MP	HIE-P	ME	54	138	100	E27	8,100	-	-	15,000	3,800	80	A
	HSI-MP	HIE-P	ME	54	138	150	E27	12,500	-	-	15,000	2,900	80	A
	HSI-MP	HIE-P	ME	54	138	150	E27	12,500	-	-	15,000	3,800	80	A
Metal halide quartz reflector	ESD50	HIPAR51	MR	51	62.5	35	GX10	1,950	7,000	24	6,000	3,000	90	A
Dichroic BriteSpot ESD50	ESD50	HIPAR51	MR	51	62.5	35	GX10	1,850	4,000	38	6,000	3,000	90	A
Coolbeam	ESD50	HIPAR51	MR	51	62.5	35	GX10	1,950	2,000	60	6,000	3,000	90	A
Universal														
UV Stop														
Metal halide quartz reflector	ES111	HIPAR111	MR	111	75	35	GX10	1,950	4,000	8	6,000	3,000	90	A
BriteSpot ES111	ES111	HIPAR111	MR	111	75	35	GX10	1,850	1,000	24	6,000	3,000	90	A
UV Stop	ES111	HIPAR111	MR	111	75	35	GX10	1,750	3,500	45	6,000	3,000	90	A
Metal halide quartz reflector	ESD111	HIPAR111	MR	111	75	70	GX10	3,850	2,000	24	6,000	3,000	90	A
Dichroic BriteSpot ESD111	ESD111	HIPAR111	MR	111	75	70	GX10	3,600	7,000	45	6,000	3,000	90	A
Coolbeam Universal														
UV Stop														

HID Sodium

High efficacy SON requires external ignitor	SHP-S	HSE-E	SE	72	165	70	E27	6,000	-	-	55,0000	9,000	23	A+

Specifications

The following notes prepared to meet the company's obligations imposed by the Health & Safety at Work Act 1974 (as amended) are of a general nature only. Specific information regarding installation use and disposal appropriate to individual models is provided in the instruction leaflet packed with the product, or can be found on the relevant pages of this catalogue.

The Health & Safety at Work Act 1974 imposes upon the users of the company's products an obligation to ensure that all personnel involved in the installation, handling, use or disposal of these products are acquainted with the information provided by the company and are made fully aware of any precautions that need to be taken.

The installation of these products should only be carried out by a qualified installer in accordance with the instructions supplied with the product.

Specifications

Leadership in design is based on constant development and improvement. Whilst great care is taken to give up-to-date information in this publication, the right is reserved to change any specifications herein detailed, without prior notice. All descriptions, illustrations etc, in this publication shall not form part of any contract.

Track and Spotlights

All track and spotlights are designed for normal, dry interiors, and are not recommended for use in damp or corrosive situations. Adequate ventilation will be necessary when tungsten spotlights are used in confined spaces where elevated temperatures will occur.

Lamps

Wattage and where applicable type of lamp are shown for every fitting. Incorrect lamps may affect efficiency, change the planned distribution, create glare and in some cases, seriously overheat the luminaire. Unless otherwise stated all luminaires are supplied without lamps.

Wiring

The majority of luminaires are fully prewired and with heat resistant cable wherever required.

Weights

Where given, the weights of luminaires do not include lamps.

Control Gear

Transformers and Control Gear are available for 240V 50HZ and 230V 50HZ with other options subject to special quotation.

240V 50HZ will be supplied unless any other voltage is requested at the time of ordering.

Ceiling Cut-outs

Throughout this publication cut-out sizes refer to the aperture for the ceiling ring with recessed fittings when mounted in soft fibrous tiles. For timber or metal tiles and cast-in construction, check dimensions on site.

Product colours and finishes

The Feilo Sylvania range of standard colours has been rationalised. This has given Feilo Sylvania the opportunity to harmonise its standard colours in line with developments that have taken place in architectural materials and building accessories.

For reference the standard paint finishes are now:

Concord luminaire
RAL 9005 Jet Black
RAL 9006 White Aluminium
RAL 9010 Pure White
RAL 9016 Traffic White

Sylvania Outdoor luminaires
RAL 9007 Grey aluminium

LED Lamps
RAL 9023 Pearl dark grey
RAL 9016 Traffic White

Please note:

- Due to photography and the printing process the colours reproduced in this catalogue may not be truly representative.
- Though paint colours may be the same, gloss, matt, satin and textured finishes will appear different.

Protection of Electronic Components

All products incorporating electronic components are protected against damage which may result from transients on the mains supply.

The level of protection incorporated is generally in excess of the minimum level specified in the current international standards.

It is the customer's responsibility to ensure that electronic equipment is not subjected to transients above these international immunity standards. In extreme cases additional suppression devices may be needed on the mains supply. The company does not take responsibility for damage to products caused by excessive mains transients.

Intellectual property rights

Sylvania, Concord and Lumiance are registered trademarks of the Feilo Sylvania group. Many products listed in this catalogue are the subject of patents, copyrights, design rights and other intellectual property rights of Feilo Sylvania.

1. DEFINITIONS

1.1 The following definitions shall apply to these terms and conditions:

"**Business Day**" means a day other than a Saturday, Sunday or public holiday in England;

"**Buyer**" means the party purchasing goods from the Seller;

"**Buyer Specification**" any specification for the Products, including any related plans and drawings, that is supplied to the Seller by the Buyer, or produced by the Seller and agreed in writing by the Buyer;

"**Contract**" means the contract between the Seller and the Buyer for the sale and purchase of the Products in accordance with these Terms;

"**Order**" means Buyer's order for the Products, as set out in the Buyer's Purchase Order Form. The procedure for placing orders is outlined in clause 2.4.

"**Products**" means the goods purchased by Buyer from the Seller in accordance with these Terms;

"**Product Specification**" means the specification relating to Products provided by Seller;

"**Seller**" means Havells Sylvania Europe Limited;

"**Terms**" the terms and conditions set out in this document.

1.2 In these Terms, the following rules apply:

(a) A person includes a natural person, corporate or unincorporated body (whether or not having separate legal personality);

(b) A reference to a party includes its personal representatives, successors or permitted assigns;

(c) A reference to a statute or statutory provision is a reference to such statute or provision as amended or re-enacted. A reference to a statute or statutory provision includes any subordinate legislation made under that statute or statutory provision, as amended or re-enacted;

(d) Any phrase introduced by the terms including, include, in particular or any similar expression shall be construed as illustrative and shall not limit the sense of the words preceding those terms.

(e) A reference to writing or written includes faxes.

2. CONTRACT FORMATION

2.1 In the absence of a written agreement to the contrary executed by Seller, these Terms shall apply to every sale of Products between Seller and Buyer.

2.2 A quotation by Seller does not constitute an offer and Seller reserves the right to withdraw or revise any quotation prior to time of its acceptance of Buyer's purchase order.

2.3 An Order constitutes an offer by Buyer to purchase the Products in accordance with these Terms. The contract shall be formed at the time when Buyer's Order is confirmed in writing or by action by Seller, at which point the Contract shall come into existence.

2.4 Orders can be placed by Buyer via fax, EDI (Electronic Data Information) or COMNET (Havells Sylvania's Internet Portal). Orders must be confirmed by Seller in writing.

2.5 Any terms and conditions proposed by Buyer or contained in any Order, Buyer Specification or other document sent by Buyer are expressly rejected by Seller and waived by Buyer.

2.6 These Terms apply to the purchase of Products to the exclusion of any other terms that Buyer seeks to impose or incorporate, or which are implied by trade, custom, practice or course of dealing.

2.7 The Contract constitutes the entire agreement between the parties. Buyer acknowledges that it has not relied on any statement, promise or representation made or given by or on behalf of Seller which is not set out in the Contract, save that nothing in this clause shall exclude liability for fraudulent misrepresentation.

Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other document or information issued by Seller shall be subject to correction without any liability on the part of the Seller.

3. CANCELLATION

Seller reserves the right (without prejudice to any other remedy) to cancel any uncompleted order or to suspend delivery in the event of Buyer's commitments with the Seller not being met. If an order is cancelled by Seller in the aforementioned circumstances, or is cancelled by Buyer, Buyer shall indemnify Seller against all loss, costs, (including the cost of all labour and materials used and overheads incurred) damages, charges and expenses arising out of the Order and the cancellation thereof, the Seller giving credit for the value of any such materials sold or utilised for other purposes if this is possible.

4. PRODUCT SPECIFICATIONS

4.1 Seller reserves the right to make any changes to the Product Specification, which are required to conform with any applicable statutory or EU requirements.

4.2 Buyer acknowledges that it has not relied on any statement, promise, or representation made or given by or on behalf of the Seller which is not set out in the Contract and confirmed within the Product Specifications. All samples, drawings or descriptions, including without limitation weights, dimensions, indications of capacity or other data appearing in any of the Seller's catalogues, marketing materials are intended merely as a general guideline and do not constitute representation of facts. They shall not form part of the Contract or any other agreement between Seller and Buyer.

5. CONFIDENTIALITY

All plans, designs, specifications and other information provided by Seller to Buyer shall be considered as confidential and the Buyer shall not, and shall procure that its agents, employees and sub-contractors shall not without the prior written consent of the Company, divulge any such information or provide copies of the designs, drawings and specifications to any third party. Furthermore, the specifications, designs and documents supplied by Seller to Buyer shall remain the property of the Seller and shall be returned to Seller within 15 days of any request being made.

6. PRICE

6.1 The price for Products shall be the price quoted by Seller to Buyer or, when no price is quoted, the Seller's list price at date of delivery, unless otherwise agreed in writing by the parties.

6.2 All costs associated with and/or arising out of implementation of the WEEE Directive on electrical or electronic waste into national law shall be charged to the Buyer separately.

6.3 The price of the Products is exclusive of amounts in respect of value added tax (**"VAT"**)

6.4 Any other tax, tariff, duty or charge which Seller may be required to pay or collect, now or hereafter imposed by any governmental authority or agency, foreign or domestic, with respect to the sale, purchase, production, processing, storage, delivery, transportation, use, or consumption of any of the products or services covered hereby, including all taxes upon or measured by receipts from sales or services will be charged to the Buyer by the Seller.

6.5 In the event of any additional expense being incurred by the Seller through the Buyer's instructions or lack of instructions after the Contract has been entered into, the price agreed in the Contract shall be increased to cover any such expenses.

7. DELIVERY AND SHORTFALL

7.1 Delivery shall be made on Ex-Works (Incoterms 2010) basis unless otherwise agreed in writing. Should the Seller agree to deliver Product otherwise than at Seller's premises, Buyer shall be liable to pay Seller's charges for transport, packaging and insurance.

7.2 Where the Product is to be delivered in instalments, each delivery shall constitute a separate Contract which shall be invoiced and paid for separately.

7.3 All delivery dates shall be treated as estimates only. Whilst reasonable endeavours will be made to meet delivery dates, the Seller shall not be liable but the following provisions shall have effect:

(a) time shall not be of the essence with regard to the Seller's obligations under the Contract;
(b) in the event the delay exceeds 180 days after the agreed delivery date, the parties shall agree a revised delivery date as soon as reasonably practicable. In absence of any agreement, the Buyer shall be entitled to terminate or rescind the Contract in so far as it relates to the delivery consignment in question; the foregoing provisions shall be the Buyer's exclusive remedy in respect of such delay in delivery. Prior to and at the delivery date (or the revised delivery date), it is the Buyer's responsibility to ensure there is clear and reasonable access to the delivery point.

7.4 If Seller fails to deliver the Products, its liability shall be limited to the costs and expenses incurred by Buyer in obtaining replacement goods of similar description and quality less the price of the Products.

7.5 If Buyer fails to fulfil its obligation under the Contract including failure to make payment on the due date, Seller may defer further shipments without notice until the breach is remedied, or reserve the right to cancel such shipments if the breach is not cured.

7.6 No claim in respect of loss in transit or short delivery will be accepted unless the Seller is advised in writing of such loss or short delivery at the time of delivery. The shortfall must be specified in writing on the purchase order form. The following details must be stated on the form:

(a) Conditions of packages
(b) Date consignment received
(c) Date Seller was advised
(d) The extent of damage or shortfall

8. PASSING OF RISK AND PROPERTY

8.1 All risk in the Products shall pass to Buyer upon completion of delivery.

8.2 Notwithstanding delivery and the passing of risk in the Product, all property title in and to the Products shall not pass to Buyer until payment for has been received by Seller in full (in cash or cleared funds).

8.3 Until such time, Seller will retain full legal equitable and beneficial ownership of such Products until such indebtedness has been discharged and Buyer shall:

(a) not be entitled to pledge or in any way charge or otherwise encumber by way of security for any indebtedness any of the Products;
(b) hold the Products (if delivered) in a fiduciary capacity on the Seller's behalf and maintain the Products in satisfactory condition and keep them insured against all risks for their full price from the date of delivery;
(c) not remove, deface or obscure any identifying mark or packaging on or relating to the Products;
(d) keep the Product separate from those of Buyer and third parties and properly stored, protected and insured and identified as Seller's property;
(e) notify Seller immediately if Buyer becomes subject to any of the events set out in clause 12;
(f) provide Seller with such information relating to the Products as Seller may require from time to time,

8.4 Where the Seller holds legal, equitable or beneficial ownership in accordance with the above Clauses, the Seller reserves the right (without prejudice to any other rights it may have under the Contract) to recover or resell the Products or any of them and may enter upon the Buyer's premises by its servants and agents for that purpose at any time after the date for payment for the goods has expired or immediately on or at any time after the commencement of any act or proceeding involving the Buyer's insolvency.

8.5 Notwithstanding the foregoing terms and even though property in such Products has not passed to the Buyer, the Buyer shall be entitled to enjoy the benefits of possession and use of such Products in its normal course of business.

8.6 Buyer shall bear the risk of any loss or damage to or deterioration of the Products from whatever cause arising following delivery of the Products to Buyer.

9. PAYMENT

9.1 Buyer shall pay all invoices in full and in cleared funds without any setoff or deduction, within the payment term specified on the invoice and in the currency specified in the invoice, free of exchange collection, or other charges.

9.2 If Buyer fails to pay any invoice in full by the due date under the Contract, Seller may suspend production and/or decline to make shipment or delivery of all or part of the unshipped Product. In addition, the Buyer shall pay interest on the overdue amount at the applicable rate in accordance with the **Late Payment** of **Commercial Debts (Interest)** Act 1998 as modified from time to time. Such interest shall accrue on a daily basis from the due date until the date of actual payment of the overdue amount, whether before or after judgment. The Buyer shall pay the interest together with the overdue amount.

9.3 Buyer shall not be entitled to assert any credit, set-off or counterclaim against Seller in order to justify withholding payment of any such amount in whole or in part. Seller may at any time, without limiting any other rights or remedies it may have, set off any amount owing to it by Buyer against any amount payable by the Seller to the Buyer.

9.4 If,in the Seller's reasonable judgment, the Buyer's financial situation is as such that the Seller reasonably believes the Buyer will not be able to pay its debts, the Seller may without this granting any compensation rights to Buyer cancel any unfulfilled Orders, unless the Buyer, upon written notice, immediately pays for any goods delivered and pay in advance for all goods ordered but not delivered.

10. FORCE MAJEURE

Seller shall not be liable for any failure to perform or delay in performance due to circumstances beyond Seller's reasonable control, including but not limited to riot, war or hostilities between nations, civil war, civil commotion, acts of terrorism, governmental orders or regulations, import or export regulations or embargoes, acts of God, fire, accidents, strikes, lock-outs, or other industrial actions or trade disputes (whether involving employees of the Seller or of a supplier), lack of transportation facilities, delays of carriers, inability to obtain raw materials, curtailment of or failure in obtaining sufficient electrical power, or any other contingencies beyond the reasonable control of Seller ("Force Majeure Event"). In the case of a Force Majeure Event, Seller may, in its sole discretion, cancel, reduce or modify its deliveries to Buyer without liability for any damages whatsoever.

11. WARRANTY; CLAIMS; LIMITATION OF LIABILITY.

11.1 Subject to the conditions set out below, Seller warrants that on delivery and for a period of 24 months from the date of delivery, the Products shall:

(a) correspond to the Product Specifications agreed to in writing by Seller; and
(b) be free from defects in design, material and workmanship, unless otherwise indicated by Seller in the product specification or elsewhere.

11.2 Subject to clause 11.3 if:

(a) Buyer gives notice in writing to Seller during the warranty period set out in clause 11.1 above and within a reasonable time of discovery that some or all of the Products do not comply with the warranty set out in clause 11.1;

(b) Seller is given a reasonable opportunity of examining such Products;

(c) Buyer (if asked to do so by Seller) returns such Products to Seller's place of business at Buyer's cost,

(d) Where Seller consider that the Product is covered by this warranty, Seller will repair and/or replace ONLY the defective Product within a reasonable period of time. Further warranty is excluded unless compulsory required by law. For the avoidance of doubt, "repair or replace the defective Product" does not include any removal or reinstallation activities, costs or expenses, including without limitation, labour costs or expenses. otherwise indicated by Seller in the product specification or elsewhere.

11.3 Seller shall be under no liability in respect of any defect in the Products arising from:

(a) any drawing, design or any Buyer Specification supplied by Buyer;

(b) Buyer making any further use of the Products after giving notice in accordance with clause 11.2;

(c) normal wear and tear, wilful damage, negligence, abnormal storage or working conditions, improper handling, third party interference (e.g. improper installation, overuse, excess voltage or frequency oscillations);

(d) failure to follow Seller's instructions (whether oral or in writing) as to the storage, commissioning, installation, use and maintenance of the Products or (if there are none) good trade practice;

(e) misuse, alteration or repair of the Products without Seller's approval.

For the avoidance of doubt, the above warranty does not extend to parts, materials or equipment not manufactured by Seller, in respect of which Buyer shall only be entitled to the benefit of any such warranty or guarantee as is given to Seller by the third party manufacturer.

11.4 Except as set out in these Terms, all warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

11.5 These Terms shall also apply to any repaired or replacement Products supplied by Seller.

11.6 Nothing in these Terms shall limit or exclude Seller's liability for:

(a) death or personal injury caused by its negligence; or

(b) fraud or fraudulent misrepresentation.

11.7 Seller shall not be liable to Buyer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit or indirect or consequential loss or damages arising under or in connection with the Contract.

12. PATENTS

12.1 Should Products sold by Seller be the subject to a claim for patent infringement, Seller may, at its sole option and expense, either procure for Buyer the right to continue using said Product, or modify same so that it becomes non-infringing, or replace it with non-infringing Product, or remove the Product and refund the purchase price paid by Buyer.

12.2 Buyer agrees to defend and indemnify Seller from and against any liability for or on account of any infringement or alleged infringement of any patented or unpatented inventions or trade secret with respect to (i) any use of Products by Buyer or their customers, including without limitation use of Products alone or in combination with other components or (ii) Products furnished, or methods used by Seller, in accordance with specifications or instructions furnished by or expressly or implicitly prescribed by Buyer.

13. DESIGN OWNERSHIP

13.1 Any specifications, drawings, or other technical information, data, tools, dyes, patterns, masks, test equipment, software and any other item designed, supplied, or created by Seller in performance of Buyer's Order, (the "Creative Elements") shall remain the exclusive property of Seller, and no right, title or license in any such item or design is hereby granted to Buyer and Buyer is prohibited from copying or using the Creative Elements without Seller's prior written consent.

14. INSOLVENCY

Either party shall have the right to cancel any Order in the event that the other party is insolvent (or as applicable, bankrupt) according to the law, or has made any arrangements with its creditors or under the law with a view to avoiding an impending insolvency (or as applicable, bankruptcy), or has had any person appointed by its creditors or under law as a consequence of debts which have fallen, or which are about to fall, due and which the relevant party is unable to properly repay.

15. PRIVACY POLICY

15.1 The Buyer acknowledges and agrees that details of the Buyer's name, address and payment record may be submitted to a credit reference agency, and personal data will be processed by and on behalf of the Seller for the purpose of the sale of the Products. In agreement with Buyer, Information may also be used for marketing activity.

15.2 Seller's privacy policy is accessible on Seller's website www.feilosylvania.com or upon request a copy will be provided.

16. ASSIGNMENT AND SUBCONTRACTING

16.1 Seller may at any time assign, transfer, charge, subcontract or deal in any other manner with all or any of its rights or obligations under the Contract. This includes an assignment of the Contract or parts of it made under these Terms at any time to an Affiliate and its right to receive payment. In this clause Affiliate shall mean any one or more legal entities (i) directly or indirectly owned or controlled by the Seller, (ii) directly or indirectly owning or controlling Seller. For the purposes of this definition a legal entity shall be deemed to own and/or to control another legal entity if more than 50% (fifty percent) of the voting stock of the latter legal entity, ordinarily entitled to vote in the meetings of shareholders of that entity, (or, if there is no such stock, more than 50% (fifty percent) of the ownership of or control in the latter legal entity) is held directly or indirectly by the owning and/or controlling legal entity.

16.2 Buyer may not assign any of its rights or obligations hereunder without the previous written consent of Seller, which will not be unreasonably withheld.

17. GOVERNING LAW AND JURISDICTION

The Contract, and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims), shall be governed by, and construed in accordance with, English law, and the parties irrevocably submit to the exclusive jurisdiction of the courts of England and Wales.

18. MISCELLANEOUS

18.1 No waiver by Seller of any breach of the contract by Buyer shall not be considered as a waiver of any subsequent breach of the same or any other provision.

18.2 If any provision of these Terms is held by any competent authority to be invalid or unenforceable in whole or in part, the validity of the other provisions of these Terms and the remainder of the provision in question shall not be affected.

18.3 No variation to this Contract shall be valid unless agreed to in writing and signed by an authorized representative of Seller and Buyer.

18.4 The Seller may, from time to time and without notice, change the Products in order to comply with any applicable safety or statutory requirements, provided that such changes do not materially affect the nature, scope of, or the charges for the Products. If the Seller requests a change to the scope of the Products for any other reason, the Customer shall not unreasonably withhold or delay consent to it.

19. EXCLUSION OF THIRD PARTY RIGHTS

The Contracts (Rights of Third Parties) Act 1999 shall not apply to these Terms nor any contract made under them and no person other than Buyer and Seller shall have any rights there under, nor shall any such contract or these Terms be enforceable under that Act by any other person.

Index

Item Code	Page Number	Item Code	Page Number	Item Code	Page Number	Item Code	Page Number	Item Code	Page Number
0036926	372	**0041988**	308	**0047595**	42	**0055326**	28	**2017401**	209
0036927	372	**0041989**	308	**0047596**	290	**0055327**	28	**2019502**	152
0036928	372	**0042070**	302, 313	**0047597**	290	**0055328**	28	**2019503**	152
0036929	372	**0042071**	302, 313	**0047598**	290	**0055329**	28	**2019504**	152
0036930	372	**0042072**	302, 313	**0047599**	290	**0055330**	28	**2019505**	152
0039262	316	**0042073**	302, 313	**0047600**	290	**0055331**	28	**2019506**	152
0039263	316	**0042074**	302	**0047601**	290	**0055332**	28	**2020718**	159
0039264	316	**0042075**	302	**0047602**	290	**0055333**	28	**2020719**	159
0039265	316	**0042076**	302, 313	**0047603**	290	**0055334**	28	**2020751**	159
0039266	316	**0042077**	302, 313	**0047610**	291	**0055335**	28	**2020759**	159
0039267	316	**0042080**	302, 313	**0047611**	291	**0055370**	29	**2020760**	159
0039268	316	**0042112**	301	**0047612**	291	**0055371**	29	**2020761**	159
0039269	316	**0042113**	301	**0047613**	291	**0055372**	29	**2020762**	159
0039270	316	**0042114**	301	**0047614**	291	**0055373**	29	**2020763**	159
0039271	316	**0042117**	301	**0047615**	291	**0055374**	29	**2020789**	160
0039272	317	**0042118**	301	**0047622**	291	**0055375**	29	**2020790**	160
0039273	317	**0042119**	301	**0047623**	291	**0055376**	29	**2020792**	160
0039274	317	**0042130**	301	**0047624**	291	**0055377**	29	**2020793**	160
0039275	317	**0042131**	301	**0047625**	291	**0055379**	29	**2020794**	160
0039276	317	**0042132**	301	**0047626**	291	**0055380**	29	**2020795**	160
0039277	317	**0042134**	301	**0047627**	291	**0055381**	29	**2020796**	160
0039278	317	**0042135**	301	**0047784**	42	**0055382**	29	**2020797**	160
0039279	317	**0042136**	301	**0047785**	42	**0055383**	29	**2020798**	160
0039280	317	**0042138**	301	**0047786**	42	**0055384**	29	**2020799**	160
0039281	317	**0042139**	301	**0047787**	42	**0055385**	29	**2021310**	160
0039282	318	**0042140**	301	**0048689**	294	**0055386**	29	**2021314**	160
0039283	318	**0042255**	302, 313	**0048690**	294	**0055387**	29	**2021315**	160
0039284	318	**0042256**	302, 313	**0048691**	294	**0055388**	29	**2021317**	160
0039285	318	**0042257**	302, 313	**0048692**	294	**0055389**	29	**2021318**	160
0041540	376	**0042258**	302, 313	**0048693**	294	**0055390**	29	**2025500**	159
0041541	376	**0042259**	302, 313	**0048694**	294	**0055391**	29	**2025501**	159
0041542	376	**0042260**	302, 313	**0048695**	294	**0055392**	29	**2025502**	159
0041543	376	**0042261**	302, 313	**0048696**	294	**0055393**	29	**2025507**	160
0041546	291, 376, 377, 378, 379, 380, 381	**0042288**	312	**0048697**	294	**0055394**	29	**2025508**	160
		0042289	312	**0048698**	294	**0055397**	29	**2025511**	160
0041547	379	**0042292**	312	**0048699**	294	**0055398**	28	**2025512**	160
0041548	380	**0042293**	312	**0048700**	294	**0055399**	28	**2025513**	160
0041549	379	**0042294**	308	**0048701**	294	**0055400**	28	**2025514**	160
0041550	380	**0042295**	308	**0048702**	294	**0055401**	28	**2025515**	160
0041551	381	**0042296**	308	**0048703**	294	**0055402**	28	**2025516**	160
0041552	381	**0042299**	308	**0048704**	294	**0055427**	28	**2025517**	160
0041553	381	**0042490**	291	**0048705**	294	**0057908**	319	**2025697**	160, 163
0041556	381	**0042491**	291	**0048708**	294	**0057909**	319	**2025709**	152
0041557	381	**0042492**	291	**0048709**	294	**0057910**	319	**2025710**	152
0041558	376, 377	**0044870**	76	**0048710**	294	**0057911**	319	**2025711**	152
0041561	376	**0044871**	77	**0048711**	294	**0057912**	319	**2025712**	152
0041562	291, 376, 377, 378, 379, 380, 381	**0044872**	76	**0048712**	294	**0057913**	319	**2025713**	152
		0044873	77	**0048713**	294	**0057914**	319	**2025994**	153
0041591	381	**0044874**	76	**0048714**	294	**0057915**	319	**2025995**	153
0041592	381	**0044875**	77	**0048715**	294	**0057920**	319	**2027542**	160
0041593	381	**0044876**	76	**0048716**	294	**0057922**	319	**2027546**	160, 163
0041594	376, 377, 381	**0044877**	77	**0048717**	294	**0057923**	319	**2027547**	160, 163
0041595	378	**0044878**	76	**0048718**	294	**2007631**	150, 153	**2027548**	160
0041611	374	**0044879**	77	**0048719**	294	**2010997**	166	**2027549**	160, 163
0041612	374	**0044880**	76	**0048720**	294	**2011283**	150	**2027550**	160, 163
0041613	374	**0044881**	77	**0048721**	294	**2011285**	150, 151	**2027551**	160
0041614	374	**0044882**	76	**0048722**	294	**2011297**	150	**2028033**	185, 195
0041615	374	**0044883**	77	**0048723**	294	**2011299**	150	**2028034**	177, 189
0041616	374	**0044884**	76	**0048724**	294	**2011303**	150	**2028035**	185, 195
0041620	374	**0044885**	77	**0048727**	294	**2011305**	150, 151	**2028036**	177
0041622	374	**0044886**	76	**0048728**	294	**2011345**	150	**2028038**	177
0041623	374	**0044887**	77	**0048729**	294	**2011348**	150, 151	**2028039**	187
0041624	374	**0044894**	76	**0048730**	294	**2011379**	150	**2028040**	191
0041626	374	**0044895**	77	**0053400**	280	**2011381**	150	**2028041**	187
0041627	374	**0044896**	76	**0053401**	280	**2011383**	150	**2028042**	191
0041628	374	**0044897**	77	**0053402**	280	**2011833**	150, 151	**2028043**	187
0041629	374	**0044898**	76	**0053403**	280	**2011835**	150	**2028044**	191
0041630	375	**0044899**	77	**0053404**	280	**2011841**	166	**2028045**	187
0041631	375	**0044900**	76	**0053405**	280	**2011999**	166	**2028047**	187
0041632	375	**0044901**	77	**0053406**	280	**2017357**	209	**2028048**	189, 191
0041633	375	**0044902**	76	**0053407**	280	**2017358**	209	**2028060**	177
0041634	375	**0044903**	77	**0055310**	28	**2017359**	209	**2028549**	177
0041635	375	**0044904**	76	**0055311**	28	**2017361**	209	**2028600**	177
0041636	375	**0044905**	77	**0055312**	28	**2017362**	209	**2028602**	177
0041638	375, 376, 377, 378, 379, 380, 381	**0047010**	42	**0055313**	28	**2017364**	209	**2028608**	177
		0047011	42	**0055314**	28	**2017365**	209	**2028612**	177
0041700	358	**0047416**	42	**0055315**	28	**2017368**	209	**2028614**	177
0041701	358	**0047580**	290	**0055316**	28	**2017369**	209	**2030732**	158
0041702	358	**0047581**	290	**0055317**	28	**2017370**	209	**2030733**	158
0041703	358	**0047582**	290	**0055320**	28	**2017373**	209	**2030734**	158
0041706	358	**0047583**	290	**0055321**	28	**2017374**	209	**2030736**	158
0041707	358	**0047584**	290	**0055322**	28	**2017375**	209	**2032322**	72
0041985	308	**0047585**	290	**0055323**	28	**2017378**	209	**2032323**	72
0041986	308	**0047593**	290	**0055324**	28	**2017398**	209	**2032326**	72
0041987	308	**0047594**	290	**0055325**	28	**2017400**	209	**2032330**	72

Item Code	Page Number
2032333	72
2032336	72
2032342	72
2032343	72
2032344	72
2032345	72
2034223	68
2034224	68
2034225	68
2034226	68
2034233	70
2034235	70
2034243	70
2034254	70
2034255	70
2034256	70
2034257	70
2034261	71
2034262	71
2034263	71
2034264	71
2034266	71
2034267	71
2034268	72
2034272	71
2034273	71
2034276	71
2034282	69
2034283	69
2034313	68
2034314	68
2034315	68
2034316	68
2034493	177
2035014	58, 59, 166
2035015	58, 59, 166
2035016	58, 59, 65, 166
2035017	58, 59, 166
2035018	58, 59, 166
2035020	166
2035022	166
2035023	166
2035024	166
2035025	166
2035026	166
2035031	57, 58, 59, 65, 166
2036010	148
2036011	148
2036012	148
2036013	148
2036014	148
2036015	149
2036016	149
2036017	149
2036018	149
2036020	149
2036021	149
2036022	149
2036023	149
2036024	149
2036027	150
2036028	150
2037837	161
2037838	161
2037841	161
2037842	161
2037845	161
2037846	166
2037847	166
2037848	163
2037850	163
2037851	163
2037852	163
2037853	163
2037854	163
2037855	163
2037856	163
2037858	163
2037860	163
2038193	72
2038195	70
2038196	70
2038197	70
2038201	71
2038202	71
2038203	71
2038204	71
2038218	68
2038220	68
2038221	68
2038222	68
2038245	68
2038246	68
2038247	68
2038248	68
2038312	169
2038585	198
2038586	198
2038587	198
2038590	198
2038592	198
2038593	198
2038594	198
2038595	198
2038962	168
2038963	168
2038980	177
2038984	177
2039012	185, 195
2039013	177, 189
2039021	177
2039062	71
2040578	371
2040819	371
2040821	371
2041255	371
2041258	371
2041261	371
2041263	371
2041264	371
2041265	371
2041554	371
2041555	371
2045812	370
2045813	370
2045814	370
2045815	370
2045817	370
2045818	370
2045819	370
2045823	370
2045824	370
2045825	370
2046525	148, 152
2046526	148, 152
2046527	148, 152
2046528	148, 152
2046529	148, 152
2046530	153
2046531	149
2046532	149
2046533	149
2046535	150
2046536	150
2046538	150
2046539	150
2047754	20
2049513	208
2049514	208
2049515	208
2049516	208
2049519	208
2049520	208
2049521	208
2049522	208
2049525	208
2049526	208
2049527	208
2049528	208
2049529	208
2049530	208
2049531	208
2049532	208
2049537	208
2049538	208
2049539	208
2049540	208
2049541	208
2049542	208
2049543	208
2049544	208
2049549	245
2049550	244
2049551	245
2049552	244
2049555	245
2049556	244
2049557	245
2049558	244
2049561	209
2049565	209
2049579	245
2049580	245
2049582	245
2049583	245
2049585	245
2049586	244
2049587	245
2049588	244
2049591	245
2049592	244
2049593	245
2049594	244
2049597	245
2049598	245
2049600	245
2049601	245
2051485	160, 163
2051486	160, 163
2051487	160
2051488	160, 163
2051489	160, 163
2051490	160
2051491	160
2051493	160
2051494	160
2051496	160
2051497	160
2051499	160
2051500	160
2051502	160
2051503	160
2051505	160
2051506	160
2051507	160
2051508	160
2051521	163
2051522	163
2051524	163
2051527	163
2051528	163
2052730	209
2052731	209
2052732	209
2052940	91, 94, 108, 109, 127, 133, 202
2052980	202
2052981	202
2052982	202
2052983	202
2053870	194
2053871	194
2053872	194
2053873	194
2053874	194
2053875	194
2053876	194
2053877	194
2054909	57
2054910	57
2054912	57
2054914	57
2055132	240
2055133	240
2055134	240
2055135	240
2055380	57
2055734	58
2055735	58
2055782	180
2055783	180
2055944	100
2055945	100
2055946	100
2055947	100
2055948	100
2055949	100
2055950	100
2055951	100
2055952	100
2055953	100
2055954	100
2055955	100
2055956	99
2055957	99
2055958	99
2055959	99
2055960	99
2055961	99
2055962	99
2055963	99
2055964	99
2055965	99
2055966	99
2055967	99
2055968	98
2055969	98
2055970	98
2055971	98
2055972	98
2055973	98
2055974	98
2055975	98
2055976	98
2055977	98
2055978	98
2055979	98
2055986	181
2055987	181
2055988	181
2055989	181
2055990	181
2055991	181
2055992	181
2055993	181
2055994	181
2055995	181
2055996	181
2055997	181
2056146	177
2056147	177
2056148	177
2056149	180
2056150	180
2056151	180
2056208	222
2056209	222
2056210	222
2056211	222
2056212	222
2056213	222
2056214	222
2056215	222
2056216	222
2056217	222
2056218	222
2056219	222
2056220	222
2056221	222
2056222	222
2056223	222
2056224	223
2056225	223
2056226	223
2056227	223
2056228	223
2056229	223
2056230	223
2056231	223
2056232	223
2056233	223
2056234	223
2056235	223
2056236	223
2056237	223
2056238	223
2056239	223
2056240	224
2056241	224
2056242	224
2056243	224
2056244	224
2056245	224
2056246	224
2056247	224
2056248	224
2056249	224
2056250	224
2056251	224
2056252	225
2056253	225
2056254	225
2056255	225
2056256	225
2056257	225
2056258	225
2056259	225
2056260	225
2056261	225
2056262	225
2056263	225
2056264	225
2056265	225
2056266	225
2056274	216
2056275	216
2056276	216
2056277	216
2056280	216
2056281	216
2056282	216
2056283	216
2056310	216
2056311	216
2056312	216
2056313	216
2056316	216
2056317	216
2056318	216
2056319	216
2056346	219
2056347	219
2056348	219
2056349	219
2056352	219
2056353	219
2056354	219
2056355	219
2056382	219
2056383	219
2056384	219
2056385	219
2056388	219
2056389	219
2056390	219
2056391	219
2056418	218
2056419	218
2056420	218
2056421	218
2056424	218
2056425	218
2056426	218
2056427	218
2056454	218
2056455	218
2056456	218
2056457	218
2056460	218
2056461	218
2056462	218
2056463	218
2056488	217
2056489	217
2056901	217
2056902	217
2056903	217
2056904	217
2056905	217
2056906	217
2056907	217
2056908	217
2056909	217
2056910	217
2056911	209

Index

Item Code	Page Number	Item Code	Page Number	Item Code	Page Number	Item Code	Page Number	Item Code	Page Number
2056912	209	**2058040**	223	**2058943**	215	**2059322**	104	**2059408**	179
2056913	209	**2058041**	223	**2058944**	215	**2059323**	104	**2059409**	179
2056914	69	**2058042**	223	**2058945**	215	**2059324**	104	**2059410**	179
2056915	69	**2058043**	223	**2058946**	215	**2059325**	104	**2059411**	179
2057366	65	**2058044**	223	**2058947**	215	**2059326**	104	**2059424**	64
2057367	65	**2058047**	20	**2058948**	215	**2059327**	104	**2059425**	64
2057368	65	**2058049**	20	**2058949**	215	**2059328**	104	**2059426**	64
2057402	65	**2058050**	20	**2058950**	215	**2059329**	104	**2059427**	64
2057403	65	**2058051**	20	**2058951**	215	**2059330**	104	**2059428**	64
2057405	65	**2058052**	20	**2058976**	244	**2059332**	52	**2059429**	64
2057407	65	**2058053**	20	**2058977**	244	**2059333**	52	**2059432**	24
2057410	158	**2058054**	20	**2058978**	244	**2059334**	52	**2059433**	24
2057411	158	**2058060**	20	**2058979**	244	**2059335**	52	**2059436**	24
2057412	158	**2058061**	20	**2058980**	245	**2059336**	52	**2059437**	24
2057921	208	**2058062**	20	**2058981**	245	**2059337**	52	**2059438**	58
2057922	208	**2058063**	20	**2058982**	245	**2059338**	52	**2059439**	58
2057923	208	**2058064**	20	**2058983**	245	**2059339**	52	**2059440**	24
2057924	208	**2058071**	65	**2058984**	245	**2059340**	174	**2059441**	24
2057925	208	**2058323**	105, 114, 119, 123	**2058985**	245	**2059341**	174	**2059442**	24
2057926	208	**2058324**	114, 119, 123	**2058986**	245	**2059342**	174	**2059443**	24
2057927	208	**2058325**	114, 119, 123	**2058987**	245	**2059343**	174	**2059446**	176
2057928	208	**2058326**	105, 114, 119, 123	**2059059**	210, 211	**2059344**	174	**2059447**	176
2057929	208	**2058856**	212	**2059060**	210, 211	**2059345**	174	**2059448**	176
2057930	208	**2058857**	212	**2059061**	94	**2059346**	174	**2059449**	176
2057931	208	**2058858**	212	**2059062**	94	**2059347**	174	**2059450**	176
2057932	208	**2058859**	212	**2059063**	94	**2059348**	174	**2059459**	324
2057957	210	**2058860**	212	**2059064**	94	**2059349**	174	**2059460**	324
2057958	210	**2058861**	212	**2059065**	142	**2059350**	174	**2059461**	324
2057959	210	**2058862**	212	**2059066**	142	**2059351**	174	**2059462**	324
2057960	210	**2058863**	212	**2059067**	142	**2059352**	174	**2059463**	324
2057961	210	**2058864**	212	**2059068**	142	**2059353**	174	**2059500**	25
2057962	210	**2058865**	212	**2059073**	142	**2059354**	174	**2059501**	25
2057963	210	**2058866**	212	**2059074**	142	**2059355**	174	**2059502**	59
2057964	210	**2058867**	212	**2059080**	142	**2059356**	175	**2059503**	59
2057965	210	**2058868**	213	**2059081**	142	**2059357**	175	**2059504**	25
2057966	210	**2058869**	213	**2059087**	142	**2059358**	175	**2059505**	25
2057967	210	**2058870**	213	**2059088**	142	**2059359**	175	**2059506**	59
2057968	210	**2058871**	213	**2059094**	142	**2059360**	175	**2059507**	59
2057969	211	**2058872**	213	**2059095**	142	**2059361**	175	**2059544**	126
2057970	211	**2058873**	213	**2059101**	142	**2059362**	175	**2059545**	126
2057971	211	**2058874**	213	**2059102**	142	**2059363**	175	**2059546**	126
2057972	211	**2058875**	213	**2059108**	142	**2059364**	175	**2059547**	126
2057973	211	**2058876**	213	**2059109**	142	**2059365**	175	**2059548**	126
2057974	211	**2058877**	213	**2059220**	94	**2059366**	175	**2059549**	126
2057975	211	**2058878**	213	**2059235**	187	**2059367**	175	**2059550**	126
2057976	211	**2058879**	213	**2059236**	191	**2059368**	175	**2059551**	126
2057977	211	**2058904**	214	**2059237**	212	**2059369**	175	**2059552**	126
2057978	211	**2058905**	214	**2059238**	212	**2059370**	175	**2059553**	126
2057979	211	**2058906**	214	**2059239**	212	**2059371**	175	**2059554**	126
2057980	211	**2058907**	214	**2059240**	212	**2059372**	178	**2059555**	126
2057981	210	**2058908**	214	**2059241**	212	**2059373**	178	**2059556**	126
2057982	210	**2058909**	214	**2059242**	212	**2059374**	178	**2059557**	126
2057983	210	**2058910**	214	**2059243**	212	**2059375**	178	**2059558**	126
2057984	210	**2058911**	214	**2059244**	212	**2059376**	178	**2059559**	126
2057985	210	**2058912**	214	**2059245**	212	**2059377**	178	**2059560**	126
2057986	210	**2058913**	214	**2059246**	212	**2059378**	178	**2059561**	126
2057987	210	**2058914**	214	**2059247**	212	**2059379**	178	**2059562**	126
2057988	210	**2058915**	214	**2059248**	212	**2059380**	179	**2059563**	126
2057989	210	**2058916**	215	**2059249**	213	**2059381**	179	**2059564**	126
2057990	210	**2058917**	215	**2059250**	213	**2059382**	179	**2059565**	126
2057991	210	**2058918**	215	**2059251**	213	**2059383**	179	**2059566**	126
2057992	210	**2058919**	215	**2059252**	213	**2059384**	179	**2059567**	126
2057993	211	**2058920**	215	**2059253**	213	**2059385**	179	**2059568**	118
2057994	211	**2058921**	215	**2059254**	213	**2059386**	179	**2059569**	118
2057995	211	**2058922**	215	**2059255**	213	**2059387**	179	**2059570**	118
2057996	211	**2058923**	215	**2059256**	213	**2059388**	179	**2059571**	118
2057997	211	**2058924**	215	**2059257**	213	**2059389**	179	**2059572**	118
2057998	211	**2058925**	215	**2059258**	213	**2059390**	179	**2059573**	118
2057999	211	**2058926**	215	**2059259**	213	**2059391**	179	**2059574**	118
2058000	211	**2058927**	215	**2059260**	213	**2059392**	179	**2059575**	118
2058001	211	**2058928**	214	**2059307**	113	**2059393**	179	**2059576**	118
2058002	211	**2058929**	214	**2059308**	113	**2059394**	179	**2059577**	118
2058003	211	**2058930**	214	**2059309**	113	**2059395**	179	**2059578**	118
2058004	211	**2058931**	214	**2059310**	113	**2059396**	179	**2059579**	118
2058029	222	**2058932**	214	**2059311**	113	**2059397**	179	**2059580**	130
2058030	222	**2058933**	214	**2059312**	113	**2059398**	179	**2059581**	130
2058031	222	**2058934**	214	**2059313**	113	**2059399**	179	**2059582**	130
2058032	222	**2058935**	214	**2059314**	113	**2059400**	179	**2059583**	130
2058033	222	**2058936**	214	**2059315**	113	**2059401**	179	**2059586**	130
2058034	222	**2058937**	214	**2059316**	113	**2059402**	179	**2059587**	130
2058035	222	**2058938**	214	**2059317**	113	**2059403**	179	**2059588**	130
2058036	222	**2058939**	214	**2059318**	113	**2059404**	179	**2059589**	130
2058037	223	**2058940**	215	**2059319**	104	**2059405**	179	**2059592**	130
2058038	223	**2058941**	215	**2059320**	104	**2059406**	179	**2059593**	130
2058039	223	**2058942**	215	**2059321**	104	**2059407**	179	**2059594**	130

Item Code	Page Number	Item Code	Page Number	Item Code	Page Number	Item Code	Page Number	Item Code	Page Number
2059595	130	**2059688**	120	**2059784**	258	**2059877**	136	**2060570**	189
2059598	131	**2059689**	120	**2059785**	258	**2059878**	136	**2060571**	189
2059599	131	**2059690**	120	**2059786**	258	**2059879**	136	**2060572**	189
2059600	131	**2059691**	120	**2059787**	258	**2059880**	137	**2060573**	189
2059601	131	**2059692**	120	**2059788**	258	**2059881**	137	**2060574**	189
2059604	131	**2059693**	120	**2059789**	258	**2059882**	137	**2060575**	189
2059605	131	**2059694**	121	**2059790**	258	**2059883**	137	**2060576**	189
2059606	131	**2059695**	121	**2059791**	258	**2059884**	136	**2060577**	189
2059607	131	**2059696**	121	**2059792**	258	**2059885**	136	**2060578**	189
2059610	131	**2059697**	121	**2059793**	258	**2059886**	136	**2060579**	189
2059611	131	**2059698**	121	**2059794**	258	**2059887**	136	**2060600**	186
2059612	131	**2059699**	121	**2059795**	258	**2059888**	137	**2060601**	186
2059613	131	**2059700**	121	**2059800**	84	**2059889**	137	**2060602**	186
2059616	130	**2059701**	121	**2059801**	84	**2059890**	137	**2060603**	186
2059617	130	**2059702**	121	**2059802**	84	**2059891**	137	**2060604**	186
2059618	130	**2059703**	121	**2059803**	84	**2060500**	184	**2060605**	186
2059619	130	**2059704**	121	**2059804**	84	**2060501**	184	**2060606**	186
2059620	130	**2059705**	121	**2059805**	84	**2060502**	184	**2060607**	186
2059621	130	**2059706**	121	**2059806**	84	**2060503**	184	**2060608**	186
2059622	130	**2059707**	121	**2059807**	84	**2060504**	184	**2060609**	186
2059623	130	**2059708**	121	**2059808**	84	**2060505**	184	**2060610**	186
2059624	130	**2059709**	121	**2059809**	84	**2060506**	184	**2060611**	186
2059625	130	**2059710**	121	**2059810**	84	**2060507**	184	**2060612**	186
2059626	130	**2059711**	121	**2059811**	84	**2060508**	184	**2060613**	186
2059627	130	**2059712**	122	**2059812**	84	**2060509**	184	**2060614**	186
2059628	130	**2059713**	122	**2059813**	84	**2060510**	184	**2060615**	186
2059629	130	**2059714**	122	**2059814**	84	**2060511**	184	**2060616**	186
2059630	130	**2059715**	122	**2059815**	84	**2060512**	184	**2060617**	186
2059631	130	**2059716**	122	**2059816**	86	**2060513**	184	**2060618**	186
2059632	130	**2059717**	122	**2059817**	86	**2060514**	184	**2060619**	186
2059633	130	**2059718**	122	**2059818**	86	**2060515**	184	**2060620**	187
2059634	131	**2059719**	122	**2059819**	86	**2060516**	184	**2060621**	187
2059635	131	**2059720**	122	**2059820**	86	**2060517**	184	**2060622**	187
2059636	131	**2059721**	122	**2059821**	86	**2060518**	184	**2060623**	187
2059637	131	**2059722**	122	**2059822**	86	**2060519**	184	**2060624**	187
2059638	131	**2059723**	122	**2059823**	86	**2060520**	185	**2060625**	187
2059639	131	**2059730**	108	**2059824**	86	**2060521**	185	**2060626**	187
2059640	131	**2059731**	108	**2059825**	86	**2060522**	185	**2060627**	187
2059641	131	**2059732**	108	**2059826**	86	**2060523**	185	**2060628**	187
2059642	131	**2059733**	108	**2059827**	86	**2060524**	185	**2060629**	187
2059643	131	**2059734**	108	**2059828**	85	**2060525**	185	**2060630**	190
2059644	131	**2059735**	108	**2059829**	85	**2060526**	185	**2060631**	190
2059645	131	**2059736**	109	**2059830**	85	**2060527**	185	**2060632**	190
2059646	131	**2059737**	109	**2059831**	85	**2060528**	185	**2060633**	190
2059647	131	**2059738**	109	**2059832**	85	**2060529**	185	**2060634**	190
2059648	131	**2059739**	109	**2059833**	85	**2060530**	185	**2060635**	190
2059649	131	**2059740**	109	**2059834**	85	**2060531**	185	**2060636**	190
2059650	131	**2059741**	109	**2059835**	85	**2060532**	185	**2060637**	190
2059651	131	**2059742**	108	**2059836**	85	**2060533**	185	**2060638**	190
2059652	132	**2059743**	108	**2059837**	85	**2060534**	185	**2060639**	190
2059653	132	**2059744**	108	**2059838**	85	**2060535**	185	**2060640**	190
2059654	132	**2059745**	108	**2059839**	85	**2060536**	185	**2060641**	190
2059655	132	**2059746**	108	**2059840**	85	**2060537**	185	**2060642**	190
2059656	132	**2059747**	108	**2059841**	85	**2060538**	185	**2060643**	190
2059657	132	**2059748**	108	**2059842**	85	**2060539**	185	**2060644**	190
2059658	132	**2059749**	108	**2059843**	85	**2060540**	188	**2060645**	190
2059659	132	**2059750**	109	**2059844**	87	**2060541**	188	**2060646**	190
2059660	132	**2059751**	109	**2059845**	87	**2060542**	188	**2060647**	190
2059661	132	**2059752**	109	**2059846**	87	**2060543**	188	**2060648**	190
2059662	132	**2059753**	109	**2059847**	87	**2060544**	188	**2060649**	190
2059663	132	**2059754**	109	**2059848**	87	**2060545**	188	**2060650**	191
2059664	132	**2059755**	109	**2059849**	87	**2060546**	188	**2060651**	191
2059665	132	**2059756**	109	**2059850**	87	**2060547**	188	**2060652**	191
2059666	132	**2059757**	109	**2059851**	87	**2060548**	188	**2060653**	191
2059667	132	**2059758**	9, 108, 109, 127, 133	**2059852**	87	**2060549**	188	**2060654**	191
2059668	132	**2059759**	91, 108, 109	**2059853**	87	**2060550**	188	**2060655**	191
2059669	132	**2059760**	91, 108, 109, 202	**2059854**	87	**2060551**	188	**2060656**	191
2059670	132	**2059761**	91, 108, 109	**2059855**	87	**2060552**	188	**2060657**	191
2059671	132	**2059762**	90	**2059860**	134	**2060553**	188	**2060658**	191
2059672	132	**2059763**	90	**2059861**	134	**2060554**	188	**2060659**	191
2059673	132	**2059764**	90	**2059862**	134	**2060555**	188	**2069000**	18
2059674	132	**2059765**	90	**2059863**	134	**2060556**	188	**2069241**	18
2059675	132	**2059766**	90	**2059864**	135	**2060557**	188	**2069242**	18
2059676	120	**2059767**	90	**2059865**	135	**2060558**	188	**2069243**	18
2059677	120	**2059768**	90	**2059866**	135	**2060559**	188	**2069244**	18
2059678	120	**2059769**	90	**2059867**	135	**2060560**	189	**2069245**	18
2059679	120	**2059770**	90	**2059868**	134	**2060561**	189	**2069246**	18
2059680	120	**2059771**	90	**2059869**	134	**2060562**	189	**2069247**	18
2059681	120	**2059772**	127, 133	**2059870**	134	**2060563**	189	**2069248**	18
2059682	120	**2059773**	127, 133	**2059871**	134	**2060564**	189	**2069252**	18
2059683	120	**2059774**	127, 133	**2059872**	135	**2060565**	189	**2069253**	18
2059684	120	**2059780**	258	**2059873**	135	**2060566**	189	**2069254**	18
2059685	120	**2059781**	258	**2059874**	135	**2060567**	189	**2069255**	18
2059686	120	**2059782**	258	**2059875**	135	**2060568**	189	**2069256**	18
2059687	120	**2059783**	258	**2059876**	136	**2060569**	189	**2069257**	18

Index

Item Code	Page Number
2069258	18
2069259	18
2069260	18
2069264	19
2069265	19
2069266	19
2069267	19
2069268	19
2069269	19
2069270	18
2069271	19
2069272	18
2069281	18, 19
2092990	112
2092991	112
2092992	112
2092993	112
2092994	112
2092995	112
2093004	112
2093005	112
2093006	112
2093007	112
2093008	112
2093009	112
2093018	112
2093019	112
2093020	112
2093021	112
2093022	112
2093023	112
2093032	112
2093033	112
2093034	112
2093035	112
2093036	112
2093037	112
2093046	112
2093047	112
2093048	112
2093049	112
2093050	112
2093051	112
2093060	112
2093061	112
2093062	112
2093063	112
2093064	112
2093065	112
2093089	52
2093090	52
2093091	52
2093092	52
2093093	52
2093094	52
2093095	52
2093096	52
2093097	53
2093098	53
2093099	53
2093100	53
2093101	53
2093102	53
2093103	53
2093104	53
2093105	53
2093106	53
2093107	53
2093108	53
2093109	53
2093110	53
2093111	53
2093112	53
2093113	105
2093114	105
2093115	54
2093116	54
2093117	54
2093118	54
2093119	54
2093120	54
2093121	54
2093122	54
2093123	54
2093124	54
2093125	54
2093126	54
2093127	55
2093128	55
2093129	55
2093130	55
2093131	55
2093132	55
2093133	55
2093134	55
2093135	55
2093136	55
2093137	55
2093138	55
2093139	56
2093140	56
2093141	56
2093142	56
2093143	56
2093144	56
2093145	56
2093146	56
2093147	56
2093148	56
2093149	56
2093150	56
2093151	56
2093152	56
2093153	56
2093154	56
2093155	57
2093156	57
2093157	57
2093158	54
2093159	54
2093160	55
2093161	55
2093162	54
2093163	54
2093164	55
2093165	55
2093168	48
2093169	48
2093170	48
2093171	48
2093175	48
2093176	48
2093177	48
2093178	48
2093180	48
2093181	48
2093186	48
2093187	48
2093188	48
2093189	48
2501498	160
2501501	160
2652200	371
2657199	378
2657275	371
2657746	378
2657747	377
2657748	377
3005160	271
3005170	271
3005820	271
3020010	91, 108, 109, 119, 123, 127, 133, 138
3020080	91, 108, 109, 119, 123, 127, 133, 138
3032819	270
3032820	270
3032821	270
3032822	270
3032825	270
3032826	270
3032827	270
3032828	270
3032871	270
3032872	270
3032873	270
3032874	270
3032879	270
3032880	270
3033404	228
3033405	228
3033408	228
3033409	228
3033431	229
3033432	229
3033433	229
3033434	229
3033435	229
3033436	229
3033443	229
3033444	229
3033445	229
3033446	229
3033447	229
3033448	229
3033450	228, 229
3033451	228, 229
3033452	228, 229
3034833	270
3034834	270
3034835	270
3034836	270
3036294	277
3036880	275
3036881	275
3036886	275
3036887	275, 277
3036888	275
3036893	275
3036900	275
3036901	277
3036907	275
3036908	276, 278
3036909	276
3036911	277
3036914	276, 277
3036915	276
3036916	276
3036917	276, 277
3036920	276
3036921	276
3036924	276, 278
3036925	276
3036926	276
3036927	276
3036928	276
3036929	276
3036930	276
3036937	275
3036938	275
3036945	276
3036946	276
3036950	275
3036951	275
3036957	275
3036958	275
3036968	274
3036969	274
3036970	274
3036971	274
3036972	274
3036973	274
3036974	274
3036975	274
3040013	232
3040022	234
3040023	234
3040025	234
3040026	234
3040051	233
3040052	233
3044720	78
3044724	78
3044725	78
3044726	78
3044727	78
3070050	248
3080025	341
3080026	341
3080027	341
3080037	340
3080038	340
3080039	340
3080049	248
3080051	248
3080061	248
3080062	248
3080063	248
3080073	342
3080074	342
3080075	342
3080085	341
3080086	341
3080087	341
3080097	340
3080098	340
3080099	340
3080109	248
3080110	248
3080111	248
3080121	248
3080122	248
3080123	248
3080133	342
3080134	342
3080135	342
3097938	252
3097939	252
3097940	252
3097941	252
3097942	252
3097943	252
3097944	252
3097945	252
4037279	335, 338
4037280	335, 338
4037281	335
4041004	335
4041005	335, 338
4041007	335, 338
4045981	336
4046027	336
4046028	336
4054888	266
4054889	266
4054890	266
4054891	266
4054892	266
4054893	266
4054894	266
4054895	266
4054896	267
4054897	267
4054898	267
4054899	267
4054900	267
4054901	267
4054902	267
4054903	267
4054904	266
4054905	266
4054906	266
4054907	266
4054908	266
4054909	266
4054910	266
4054911	266
4054912	267
4054913	267
4054914	267
4054915	267
4054916	267
4054917	267
4054918	267
4054919	267
4059261	338
4059262	338
4059263	338
4059264	338
4059265	338
4059266	338
4059267	338
4059268	338
4059269	338
4059270	338
4061170	262
4061171	262
4061172	262
4061173	262
4061174	262
4061175	262
4061176	262
4061177	262
4061178	262
4061179	262
4063784	332
4063785	332
4063786	332
4063787	332
4063788	332
4063790	332
4063791	332
4063792	332
4063793	332
4063794	332
4063795	332
4063803	333
4063804	333
4063805	333
4063806	333
4063807	333
4063808	333
4063809	333
4063810	333
4063811	333
4063812	333
4063813	333
4063814	333
4063821	336
4063822	336
4063823	336
4063824	336
4063825	336
4063826	336
4063827	336
4063828	336
4063831	335
4063832	335
4063833	335
4063834	335
4063835	335
4063836	335
4063837	335
4063838	335
4063879	332
4169586	335
4192743	335
5050598	78
5050601	78
9137867	161
9139060	71
9139061	71
9144466	326
9144467	326
9144579	326
9144944	327
9150164	326
9150400	326
9150482	326
9150509	326
9153921	326
9154003	326
9154042	326
9154052	327
9154091	327
9154135	327
9154155	326
9154168	327
9154174	326
9154203	326
9154207	326
9154267	326
9154269	327
9154298	327
9154299	326
9193765	327
2034223-2056914	69

Notes

Concord

Headquarters

Global – Feilo Sylvania
Budapest, Hungary
T. +36 1 880 5900
info.hu@feilosylvania.com

Northern Europe

Belgium and Netherlands
Antwerp
T. +32 (0)3 610 44 44
F. +32 (0)3 610 44 57
info.be@feilosylvania.com

Finland
Helsinki
T. +358 (0)9 5421 2100
info.fi@feilosylvania.com

Germany and Austria
Erlangen
T. +49 9131 793 0
F. +49 9131 793 345
info.de@feilosylvania.com

Scandinavia
Stockholm
T. +46 8 556 322 00
F. +46 8 556 322 10
info.se@feilosylvania.com

United Kingdom
Newhaven
T. +44 (0) 800 440 2478
F. +44 (0) 1273 512688
info.uk@feilosylvania.com

Southern Europe

France
Paris
T. +33 (0)1 55 51 11 00
F. +33 (0)1 55 51 11 08
info.fr@feilosylvania.com

Greece
Athens
T. +30 210 996 65 61
F. +30 210 996 90 29
info.gr@feilosylvania.com

Italy
Milan
T. +39 02 24 12 58 11
F. +39 02 24 12 58 80
info.it@feilosylvania.com

Portugal
Lisbon
T. +351 21 793 77 36/37
F. +351 21 793 77 38
info.pt@feilosylvania.com

Spain
Madrid
T. +34 91 669 90 00
F. +34 91 673 73 64
info.es@feilosylvania.com

Switzerland
Geneva
T. +41 44305 31 80
F. +41 44305 31 81
info.ch@feilosylvania.com

Eastern Europe

Served by our partner/ distributor INESA Europe Kft
T: +36 27 200 988
sales@inesa.hu

Middle East

United Arab Emirates
Dubai
T. +971 4 2998141
F. +971 4 2998142
info.ae@feilosylvania.com

Turkey
Istanbul
T. +90 212 343 4610
info@feilosylvania.com

Africa

South Africa
Durban
T. +27 31 701 2454
F. +27 31 701 2461
reception@inesa.co.za

Asia

China
Guangzhou
T. +86 20 3815 1138
F. +86 20 3869 7572
info.cn@feilosylvania.com

Malaysia
Kuala Lumpur
T. +603 2788 3789
F. +603 2788 3798
info.my@feilosylvania.com

Indonesia
Jakarta
T. +62 21 3049 7341
F. +62 21 3049 7342
info.id@feilosylvania.com

Philippines
Manila
T. +63 2 636 7790
F. +63 2 636 7791
sales.philippines@feilosylvania.com

Taiwan
Taipei
T. +886 2 2563 5585
F. +886 2 2563 5583
info.tw@feilosylvania.com

Thailand
Bangkok
T. +66 0 2656 9039
F. +66 0 2254 3369
info.th@feilosylvania.com

Americas

Argentina, Chile, Uruguay, Paraguay and Bolivia
Buenos Aires
T. +54 11 4546 4200
F. +54 11 4546 4228
info.ar@feilosylvania.com

Colombia
Santafé de Bogota
T. +57 1 782 5200
F. +57 1 719 9621
info.co@feilosylvania.com

Costa Rica, Caribbean, Honduras and Nicaragua
San José
T. +506 22 107 678
F. +506 22 200 338
info.cr@feilosylvania.com

Ecuador and Peru
Quito
T +593 2 281 0773
F +593 2 281 0007

El Salvador
San Salvador
T. +503 2239 2239
F. +503 2284 9670
info.sv@feilosylvania.com

Guatemala
Cd. Guatemala
T. +502 2387 5300
F. +502 2387 5301
info.gt@feilosylvania.com

Mexico
Cd. Mexico
T. +52 55 4627 5500
F. +52 55 5387 7671
marketing@feilo-sli.com.mx

Panama
Cd. Panama
T. +507 236 1000
F. +507 236 1315
info.pa@feilosylvania.com

Venezuela
Caracas
T. +58 212 381 0452
F. +58 212 381 0350
info.ve@feilosylvania.com

Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Current details should therefore be checked with Feilo Sylvania Europe Ltd.

Feilo Sylvania Europe Ltd December 2017 CAT1283

www.concord-lighting.com
www.feilosylvania.co.uk

by **FEILO SYLVANIA**