

The
Brighter
Choice



Volume 8

PROFESSIONAL LED LIGHTING CATALOGUE


Headquarters


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NVC Wechat

An aerial night view of a city, likely Cape Town, South Africa, with a bright star in the sky. The city lights are visible in the foreground and middle ground, with a large mountain range in the background. The sky is a deep blue, and the star is a bright, multi-pointed object in the upper left corner.

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Group Overview

Headquartered in the dynamic business hub of Hong Kong, NVC International is a renowned leader in the global LED lighting industry. Our company made its debut on the main board of the Hong Kong Stock Exchange (HK02222) in 2010, a testament to our commitment to excellence and sound corporate governance. Since our inception in late 1998, NVC International has placed paramount importance on human-centric innovation in product research and development, continuous investment in a portfolio of globally recognized lighting brands, and the empowerment of independent distributors in every region of operation across the world.

At NVC International, our primary focus lies in delivering cutting-edge LED lighting solutions tailored specifically for commercial and industrial applications. We take pride in our ability to assemble bespoke and customized lighting products, catering to a diverse range of requirements, from illuminating landscapes to enhancing architectural facades and decorative projects. Our products adhere to rigorous international standards, ensuring superior quality and reliability.

As a truly global enterprise, NVC International serves clients across the world. Our regional sales offices in Birmingham, UK; Chicago, USA; Stockholm, Sweden; Tokyo, Japan; Singapore; and Zhuhai, China allow us to provide localized support and enhance our customer engagement efforts. To further expand our reach, NVC International has established lighting operation agencies in 22 countries and regions worldwide. Our clientele spans over 30 countries and regions, a testament to our global influence and commitment to meeting the diverse lighting needs of customers around the world.

Supporting this global presence is our unwavering commitment to technological advancements and integrated lighting solutions. This has positioned us as a trusted brand and market leader with recognized expertise in manufacturing and implementing innovative LED lighting solutions. This has paved the way for our extensive manufacturing and development capabilities, encompassing five wholly-owned state-of-the-art factories and three cutting-edge Research and Development (R&D) centers strategically located in the Asia Pacific region. These facilities drive our relentless pursuit of excellence in designing and manufacturing commercial and industrial LED lighting products.

With an unwavering dedication to customer satisfaction, we have garnered a global reputation for providing premium LED lighting products and services. Our innovative and comprehensive LED total lighting solutions cater to a wide array of consumer and commercial clients, enabling them to illuminate their spaces with efficiency, style, and sustainability. This is a testament to our focus extends beyond mere illumination; we are dedicated to creating safe, comfortable, and healthy residential and commercial spaces through our range of solutions and products.

At NVC International, we are driven by our unwavering dedication to innovation, quality, and customer satisfaction. As we continue to evolve, we are committed to pioneering advancements in the global lighting market and delivering exceptional lighting experiences that redefine the way we illuminate our world.

Milestones

2022

NVC International became an official lighting solutions provider for the 2022 Qatar World Cup. Phase two of NVC International's manufacturing facilities based in Bac Ninh, Vietnam, officially commenced production.

2021

NVC Lighting UK was officially designated as a "Certified Carbon Neutral Business" by Carbon Neutral Britain, a leading independent NGO for certifying carbon neutrality in Britain. NVC International's manufacturing facilities based in Kakegawa, Japan, officially commenced production.

2020

NVC International completed its acquisition of Dernier & Hamlyn, a world-renowned bespoke lighting brand in the UK with more than 200 years of heritage. NVC International became a fully participating member of KNX, a global open standard for commercial and residential building automation. NVC International identified "light", "air" and "water" as the three key elements to human survival on a changing planet, expanding the company's future strategy to cover products essential to humanity.

2019

NVC International formed a strategic partnership with KKR for its China lighting business, operating independently as NVC China and NVC International, respectively. NVC International's manufacturing facilities based in Bac Ninh, Vietnam, officially commenced production.

2018

NVC International completed its acquisition of ETI Solid State Lighting, a leading LED lighting provider in North America.

2010

NVC International was listed on the main board of the Hong Kong Stock Exchange.

1998

NVC Lighting Ltd. was established.





Corporate Headquarters



R&D Centres and Manufacturing Bases



22 Distributor Countries

Distributor Network



Global Sales



NVC Lighting Ltd.
UK, covering North Europe



NVC International Holdings Limited
Zhuhai, covering Greater China, North America, Europe, Middle East and North Africa



NVC Lighting & Electrical Technology Limited.
Singapore, covering Southeast Asia, Central and West Asia, East Europe, Central Europe, West Europe, South America, Africa and the CIS



NVC Lighting Japan Co., Ltd.
Tokyo, covering Japan



ETI Solid State Lighting, Inc.
Chicago & Atlanta, covering USA and Canada



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INDOOR

09-25 LED Down Light



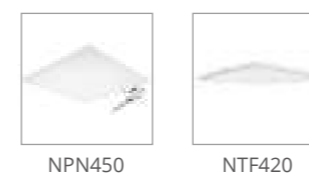
26-34 LED Spot Light



37-44 LED Batten Light



45-48 LED Panel Light



63-66 LED Ceiling Light



49-53 LED Linear Light



67-72 LED Strip



54-57 LED Track Light



73-76 LED Lamp



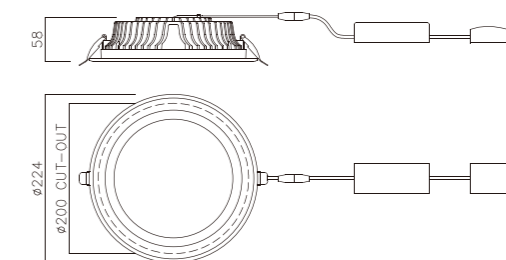
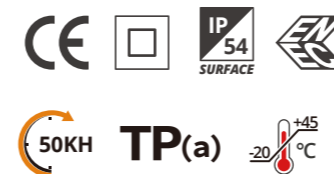
58-62 LED Industrial Light



LED Down Light

WASHINGTON

IP54 rated commercial downlight with wide-beam light distribution



CONSTRUCTION

- Die-cast aluminium bezel, painted white
- Die-cast aluminium heat sink & body, painted black
- Polycarbonate opal diffuser TP(a) rated
- Remote driver with male/female connector for easy installation and maintenance
- 3-pole connection block with piano keys and loop-in/loop-out terminals for quick and toolless wiring

TECHNICAL DETAILS

- Available in 3 wattages:
 - 12W nom., 12.1W act., 1,675 lm, 138 l.lm/c.W
 - 20W nom., 19.4W act., 2,531 lm, 130 l.lm/c.W
 - 30W nom., 34.7W act., 4,505 lm, 130 l.lm/c.W
- CRI>80
- Wide angle, 100° light distribution
- CCT available:4000/6500K

APPLICATIONS

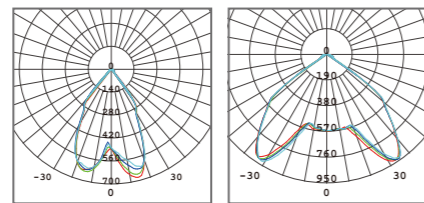
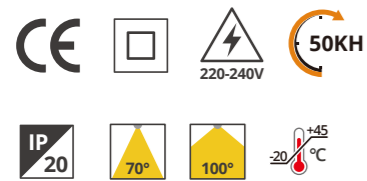
- Corridors & circulation areas
- Changing rooms, toilets and under-canopy

ORDER CODE	Part Number	CCT	DESCRIPTION
NWA12/840	63308141-U	4000K	Washington 12W LED Recessed Opal Shallow Downlight 840
NWA20/840	63308241-U		Washington 20W LED Recessed Opal Shallow Downlight 840
NWA30/840	63308341-U		Washington 30W LED Recessed Opal Shallow Downlight 840
NWA12/865	63308181-U	6500K	Washington 12W LED Recessed Opal Shallow Downlight 865
NWA20/865	63308281-U		Washington 20W LED Recessed Opal Shallow Downlight 865
NWA30/865	63308381-U		Washington 30W LED Recessed Opal Shallow Downlight 865



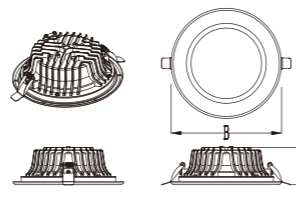
NDL964

COB LED Downlight



NDL964 7W

NDL964 20W



Watts	A	B	Cut-out
7W	45	Ø90	Ø70
10W	43	Ø120	Ø100
20W	55	Ø165	Ø140
30W	60	Ø220	Ø200
40W	60	Ø220	Ø200

FEATURES

- Die-casting aluminum housing
- Excellent heat dissipation
- Aluminum reflector to lower glare

PRODUCT BENEFITS

- High lumen efficiency up to 100lm/w
- Multiple lumen levels to meet project and application needs
- Long lifetime of up to 50,000hrs

TECHNICAL DETAILS

- COB LED
- CRI ≥80
- CCT available: 3000K / 4000K / 6000k
- No flicker driver design
- Operating temperature: -20°C~+45°C

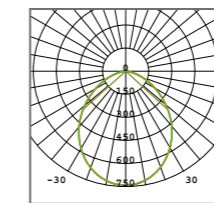
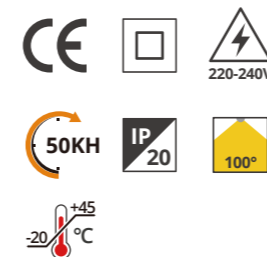
APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retail
- Residential areas

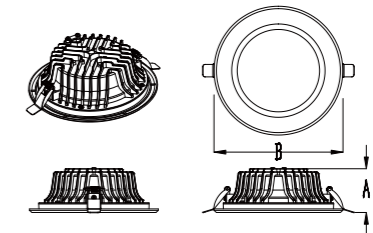
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9643	87002750/751/752	220-240V	7W	3000K/ 4000K/ 6000K	620lm	89	80	70°	0.9	50000hrs
NDL9644	87002753/754/755		10W		1000 lm	100		100°		
NDL9646	87002756/757/758		20W		1940 lm	97				
NDL9648A	87002759/760/761		30W		2900 lm	97				
NDL9648	87002762/763/764		40W		3950 lm	99				

NDL962

Slim Die-cast aluminium LED Downlight



NDL962 15W



Watts	A	B	Cut-out
8W	45	Ø105	Ø90
15W	45	Ø130	Ø115
24W	60	Ø195	Ø175
30W	60	Ø225	Ø200

FEATURES

- Die-casting aluminum housing
- White powder-coating finish
- UV stable polycarbonate diffuser

PRODUCT BENEFITS

- High lumen efficiency
- Multiple lumen levels to meet project and application needs
- Long lifetime of up to 50,000hrs

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- CCT available:3000K / 4000K / 6500K
- No flicker driver design
- Operating temperature: -20°C~+45°C

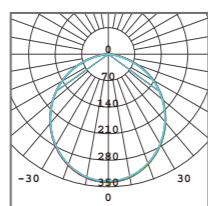
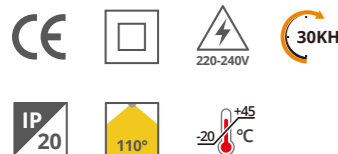
APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retail
- Residential areas

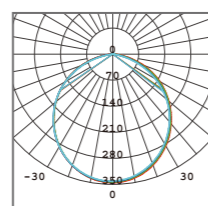
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9624	87002717/718/719	220-240V	8W	3000K/ 4000K/ 6500K	800 lm	100	80	100°	0.9	50000hrs
NDL9625	87002720/721/722		15W		1500 lm					
NDL9627	87002723/724/725		24W		2400 lm					
NDL9628	87002726/727/728		30W		3000 lm					

NDL969

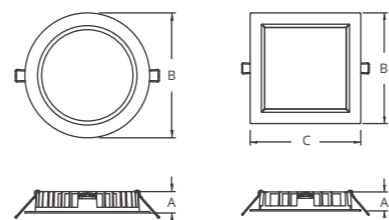
Ultra-slim die-cast aluminum LED Downlight



NDL9694R 10W



NDL9694 10W



Watts	A	B	Cut-out
10W	30	ø116	ø100
20W	30	ø175	ø150
30W	30	ø218	ø200

NDL969*

Watts	A	B	C	Cut-out
10W	30	116	116	100X100
20W	30	175	175	150X150
30W	30	219	219	195X195

NDL969*R

FEATURES

- Die-cast aluminum housing
- Opal polycarbonate LED diffuser
- Ultra slim profile (thickness is only 30mm)
- Semi-white powder-coated finish

PRODUCT BENEFITS

- High efficiency and uniform luminous effect
- Long lifetime of up to 30,000 hours
- Excellent heat dissipation performance
- Durable and sturdy housing

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- CCT available: 3000K/4000K/6500K
- Flicker free with driver PF≥0.9
- Operating temperature: -20°C~+45°C

APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retail
- Residential areas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9694 10W	87002317	220-240V	10W	3000K	1000 lm	100	80	110°	≥0.9	30000hrs
NDL9694 10W	87002318			4000K	1000 lm				≥0.9	
NDL9694 10W	87002319			6500K	1000 lm				≥0.9	
NDL9696 20W	87002320		20W	3000K	2000 lm				≥0.95	
NDL9696 20W	87002321			4000K	2000 lm				≥0.95	
NDL9696 20W	87002322			6500K	2000 lm				≥0.95	
NDL9698 30W	87002323		30W	3000K	3000 lm				≥0.95	
NDL9698 30W	87002324			4000K	3000 lm				≥0.95	
NDL9698 30W	87002325			6500K	3000 lm				≥0.95	
NDL9694R 10W	87002326		10W	3000K	1000 lm				≥0.9	
NDL9694R 10W	87002327			4000K	1000 lm				≥0.9	
NDL9694R 10W	87002328			6500K	1000 lm				≥0.9	
NDL9696R 20W	87002329		20W	3000K	2000 lm				≥0.95	
NDL9696R 20W	87002330			4000K	2000 lm				≥0.95	
NDL9696R 20W	87002331			6500K	2000 lm				≥0.95	
NDL9698R 30W	87002332		30W	3000K	3000 lm				≥0.95	
NDL9698R 30W	87002333			4000K	3000 lm				≥0.95	
NDL9698R 30W	87002334			6500K	3000 lm				≥0.95	

NDL969

Ultra-slim die-cast aluminum LED Downlight

Structure and details

Ultra slim profile

Being just 30mm thick the NDL969 can fit in almost any ceiling void.

Low flicker

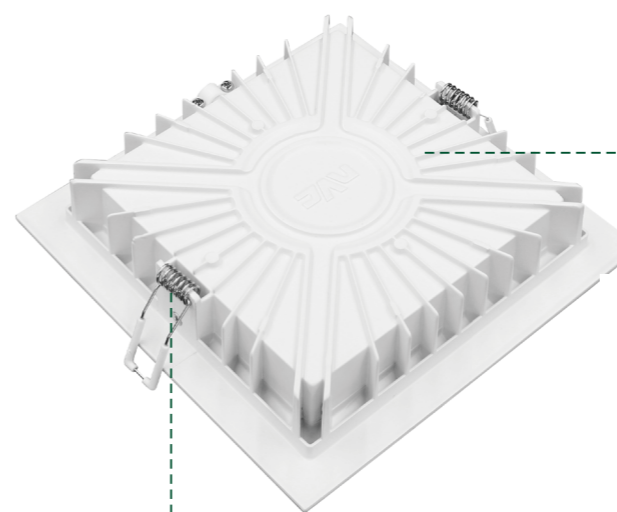
The ripple (fluctuation of the output) from the driver is less than 3.2%. This means that the flicker of the LEDs is so low that at a distance of more than 20cm no flicker is visible at all. This creates a better lit environment with less risk of sore eyes, tiredness and headaches.

High efficiency

Delivering up to 100 luminaire lumens per circuit watt, this is a highly efficient fixture, delivering more light for less power than many similar competing fittings. Its high efficiency not only lowers electricity bills, it also reduces the total load on the air conditioning system.

High quality design and materials

The heavy-duty die-cast aluminium housing with cooling fins ensures that the LEDs stay cool. That helps ensure a long life for the fitting with low rates of lumen depreciation.



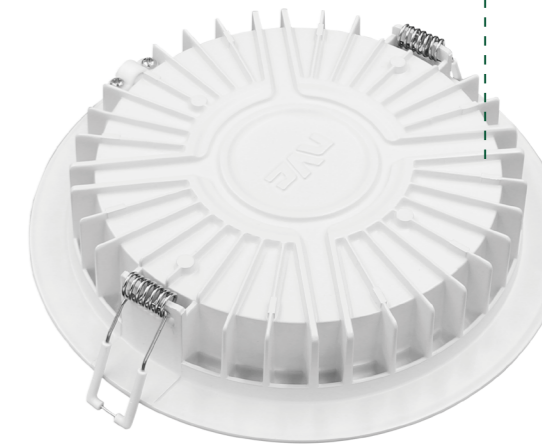
Secure ceiling fixing

The strong spring clips are easy to fit to the housing and they pull the whole fitting firmly up against the ceiling. This ensures the fitting remains in exactly the right position, even if there is vibration, so the installation is in perfect condition for years. The plastic coating on the clips reduces the risk of damage to the ceiling.



Wide bezel

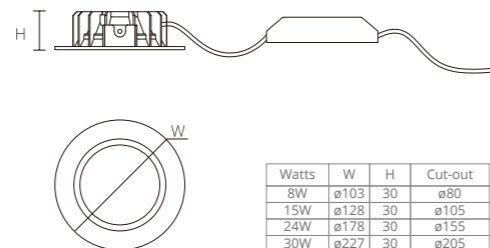
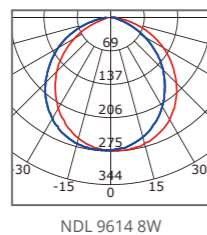
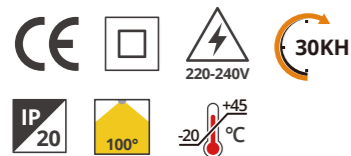
The wide bezel (15mm) means that the cut-out does not have to be very accurate, and the fitting is more likely to be an easy retro-fit solution when upgrading an existing installation.





NDL961

Ultra-Slim LED downlight



FEATURES

- Die-cast aluminum housing , higher-grade and excellent heat dissipation
- Anti-fog , uniform light output , creating a comfortable light environment
- 3cm ultra-slim design suitable for narrow ceiling space
- External independent power supply

PRODUCT BENEFITS

- High lumen efficiency up to 103lm/w and uniform luminous effect
- Long lifetime of up to 30,000 hours
- Excellent heat dissipation performance
- Low profile design applicable for various applications

TECHNICAL DETAILS

- SMD Chip
- CRI > 80
- CCT available: 3000K/4000K/ 6500K
- Operating temperature:-20°C~+45°C

APPLICATIONS

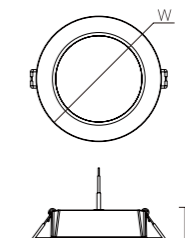
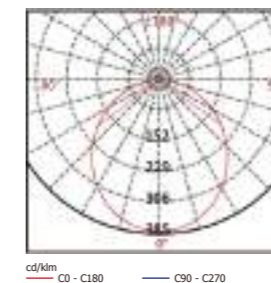
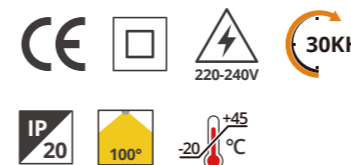
- Home
- Retail
- Office
- Hotel rooms

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9614	87001130/31/32	220-240V	8W	3000K 4000K 6500K	700 lm	88	80	100°	0.5	30000hrs
NDL9615	87001133/34/35		15W		1540 lm	103			0.9	
NDL9616	87001136/37/38		24W		2300 lm	96			0.97	
NDL9618	87001139/40/41		30W		3000 lm	100				



NDL920

Ultra-slim LED downlight



FEATURES

- Ultra-slim design
- PC body and bezel
- Flicker free separate driver included
- Suitable for recessed mounting

PRODUCT BENEFITS

- Multiple choices of beam angle and color temperature for various applications.
- Excellent heat dissipation performance
- Easy installation and easy maintenance with separate driver
- Low profile design to fit for more applications.

TECHNICAL DETAILS

- CRI >80
- CCT available 3000K/4000K/6500K
- Operating temperature: -20°C to 45°
- Efficiency up to 95 lm/W

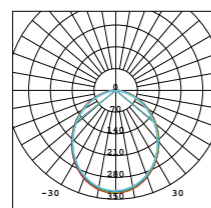
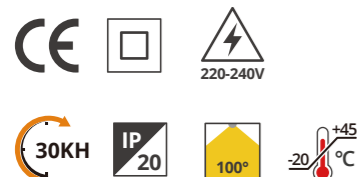
APPLICATIONS

- Office
- Shopping mall
- Retail store
- Residential area

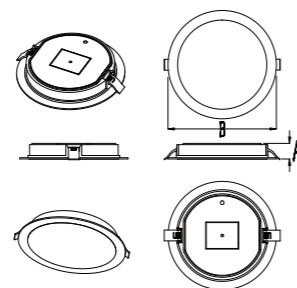
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9203	87000540/41/42	220-240V	5W	3000K 4000K 6500K	400 lm	80	80	100°	≥0.5	30000hrs
NDL9204	87000543/44/45		8W		640 lm	80				
NDL9205	87000546/47/48		12W		1020 lm	85				
NDL9206	87000549/50/51		15W		1425 lm	95				
NDL9208	87000552/53/54		18W		1710 lm	95				

NDL910

Economical Ultra-slim LED Downlight



NDL910 6W



Watts	A	B	Cut-out
6W	25	Ø90	Ø75
12W	25	Ø120	Ø100
18W	25	Ø170	Ø150
24W	25	Ø220	Ø200
30W	25	Ø220	Ø200
36W	25	Ø300	Ø280
40W	25	Ø300	Ø280

FEATURES

- Back lit ultra thin LED downlight
- Engineering PP material
- High quality PC diffuser

PRODUCT BENEFITS

- Ultra-thin design with a height of only 25mm, good for low ceiling application
- Multiple lumen levels to meet project and application needs

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- CCT available: 3000K / 4000K / 6500K
- No flicker driver design
- Operating temperature:-20°C~+45°C

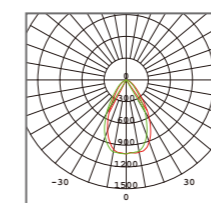
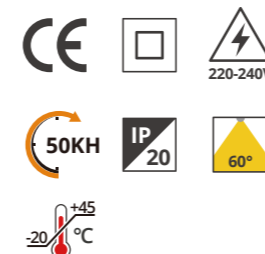
APPLICATIONS

- Living rooms
- Kitchen
- Hotel rooms
- Corridors

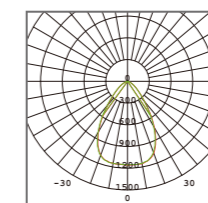
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9103	87002729/730/731	220-240V	6W	3000K/ 4000K/ 6500K	540 lm	90	80	100°	0.9	30000hrs
NDL9104	87002732/733/734		12W		1080 lm					
NDL9106	87002735/736/737		18W		1620 lm					
NDL9108A	87002738/739/740		24W		2160 lm					
NDL9108	87002741/742/743		30W		2700 lm					
NDL9109A	87002744/745/746		36W		3240 lm					
NDL9109	87002747/748/749		40W		3600 lm					

NDL923

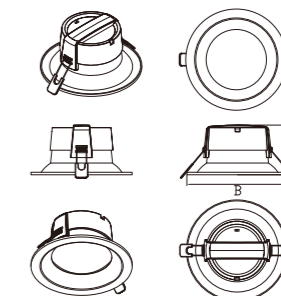
Dip Switch CCT LED Downlight



NDL923 12W



NDL923 15W



Watts	A	B	Cut-out
8W	61.5	Ø88	Ø70
12W	71	Ø118	Ø95
15W	85	Ø165	Ø145
20W	85	Ø200	Ø170
30W	93	Ø230	Ø200

FEATURES

- Die casting aluminum housing
- Anti-dazzle prism
- Delicate and beautiful
- White powder-coating finish
- Dip-switch to select CCT

PRODUCT BENEFITS

- High lumen efficiency up to 120lm/w
- Anti-glare design (UGR < 19) to bring a better comfortable environment
- Multiple lumen levels to meet project and application needs
- Long lifetime of up to 50,000hrs
- Easy to choose CCT through dip switch on the product to reduce stock

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- No flicker driver design
- Operating temperature:-20°C~+45°C

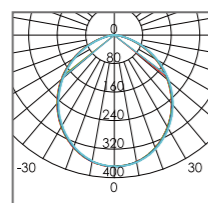
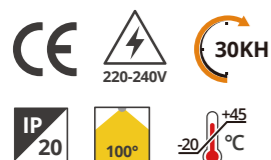
APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retailers
- Residential areas

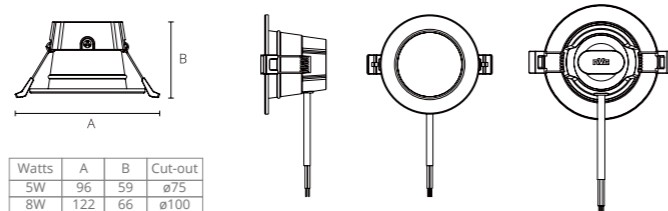
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9233 8W	87002710	220-240V	8W	3000/4000/5700K (Dip Switch)	960 lm	120	80	60°	0.9	50000hrs
NDL9234 12W	87002711		12W		1440 lm					
NDL9236 15W	87002712		15W		1500 lm					
NDL9237 20W	87002713		20W		2000 lm					
NDL9238 30W	87002714		30W		3000 lm					

NDL922

Appealing and Functional LED downlight



NDL 922



Watts	A	B	Cut-out
5W	96	59	ø75
8W	122	66	ø100
12W	149	76	ø125
18W	179	77	ø150
24W	229	77	ø200

FEATURES

- Cold-rolled steel sheet housing, better heat dissipation with higher strength and better texture
- Deep trim design to provide uniform light and anti-glare design create a comfortable light environment

PRODUCT BENEFITS

- Uniform luminous effect
- Long lifetime of up to 30,000 hours
- Excellent heat dissipation performance
- Multiple choices of color temperatures for various applications

TECHNICAL DETAILS

- SMD LEDs
- CCT available: 3000 / 4000 / 6500K
- CRI > 80
- Operating temperatures: -20 to 45°C
- Built-in driver

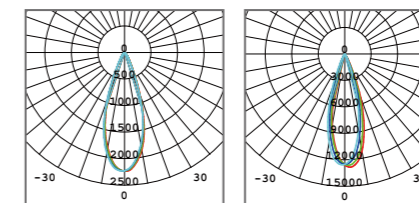
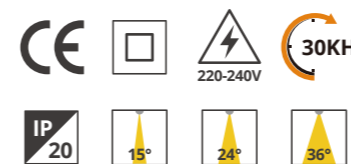
APPLICATIONS

- Home
- Retail store
- Office
- Hotel rooms

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9223	87001516/17/18	220-240V	5W	3000K 4000K 6500K	400 lm	80	80	100°	≥0.75	30000hrs
NDL9224	87001519/20/21		8W		640 lm	80			≥0.9	
NDL9225	87001522/23/24		12W		960 lm	80				
NDL9226	87001525/26/27		18W		1440 lm	80				
NDL9228	87001528/29/30		24W		1920 lm	80				

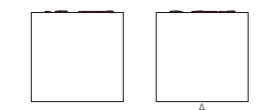
NDL928

Surface mounted LED downlight



NDL9284M 10W

NDL9286M 40W



Watts	A	B
10W	ø100	100
20W	ø134	123
30W	ø134	135
40W	ø160	158

FEATURES

- Die-cast aluminium housing
- Polycarbonate reflector and bezel
- White powder-coated finish
- Anti-glare trim design
- Body color is optional, white(99), black(Q4)

PRODUCT BENEFITS

- Uniform luminous effect
- Excellent heat dissipation performance
- Multiple beam angles choices:15°/24°/36°

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- CCT available: 4000K /6500k
- No flicker driver design
- Operating temperature:-20°C~+45°C

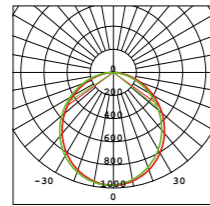
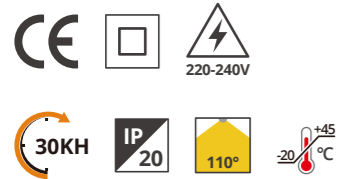
APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retails
- Residential areas

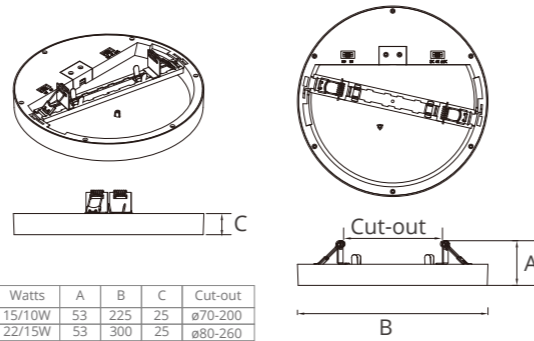
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9284M 99/Q4	87002837/838/861/862	220-240V	10W	4000K/ 6500K	820 lm	82	80	15°	0.9	30000hrs
NDL9285AM 99/Q4	87002839/840/863/864		20W		1570 lm	79				
NDL9285M 99/Q4	87002841/842/865/866		30W		2655 lm	89				
NDL9286M 99/Q4	87002843/844/867/868		40W		3520 lm	88				
NDL9284M 99/Q4	87002845/846/869/870		10W		820 lm	82		24°		
NDL9285AM 99/Q4	87002847/848/871/872		20W		1570 lm	79				
NDL9285M 99/Q4	87002849/850/873/874		30W		2655 lm	89				
NDL9286M 99/Q4	87002851/852/875/876		40W		3520 lm	88				
NDL9284M 99/Q4	87002853/854/877/878		10W		820 lm	82		36°		
NDL9285AM 99/Q4	87002855/856/879/880		20W		1570 lm	79				
NDL9285M 99/Q4	87002857/858/881/882		30W		2655 lm	89				
NDL9286M 99/Q4	87002859/860/883/884		40W		3520 lm	88				

NDL203

Dip switch CCT and Wattage change LED downlight



NDL203 22W



FEATURES

- Engineering PC material
- Low profile and modern design
- Applicable to low ceilings

PRODUCT BENEFITS

- High lumen efficiency up to 115lm/w and uniform luminous effect
- Excellent heat dissipation performance
- Dip-switch to easily choose color temperature and wattage to reduce stock
- Surface and recessed installation
- Adjustable cutout to easily fit for recessed holes

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- No flicker driver design
- Operating temperature:-20°C~+45°C

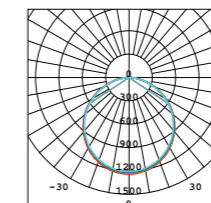
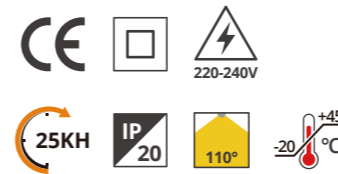
APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retails
- Corridors
- Residential ares

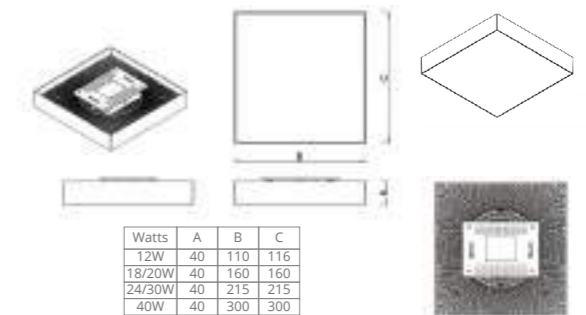
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL203A	87002715	220-240V	15W/10W	3000K/ 4000K/ 6500K (Dip Switch)	1720 lm/1150 lm	115	80	110°	0.9	30000hrs
NDL203B	87002716		22W/15W	2530 lm/1720 lm						

NDL202*SM

Square surface mounted LED downlight



NDL202*SM 30W



FEATURES

- Engineering PC material
- Low profile and modern design
- Applicable to low ceilings
- Body color is optional, white (99), black(04)

PRODUCT BENEFITS

- High lumen efficiency and uniform luminous effect
- Excellent heat dissipation performance
- Multiple lumen levels to meet project and application needs.

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- CCT available 3000K/4000K/6500K
- No flicker driver design
- Operating temperature:-20°C~+45°C

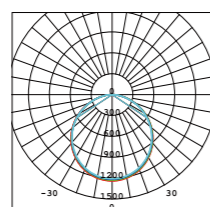
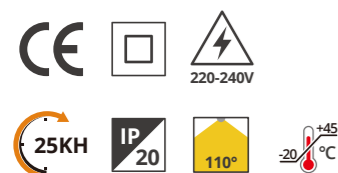
APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retails
- Corridors
- Residential ares

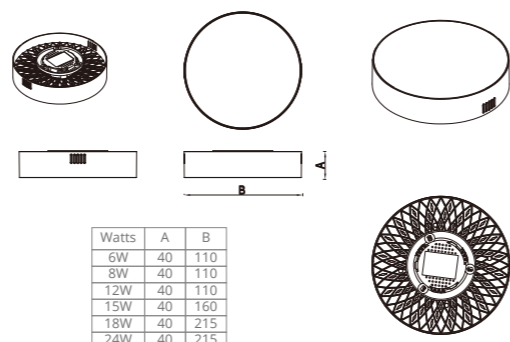
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL2024SM 99	87002801/802/803	220-240V	12W	3000K/ 4000K/ 6500K	1080 lm	90	80	110°	0.5	25000hrs
NDL2026SM 99	87002804/805/806		18W		1620 lm					
NDL2026SM 99	87002807/808/809		20W		1800 lm					
NDL2028SM 99	87002810/811/812		24W		2160 lm					
NDL2028SM 99	87002813/814/815		30W		2700 lm					
NDL2029SM 99	87002816/817/818		40W		3600 lm					
NDL2024SM 04	87002819/820/821		12W		1080 lm				0.5	
NDL2026SM 04	87002822/823/824		18W		1620 lm					
NDL2026SM 04	87002825/826/827		20W		1800 lm					
NDL2028SM 04	87002828/829/830		24W		2160 lm					
NDL2028SM 04	87002831/832/833		30W		2700 lm					
NDL2029SM 04	87002834/835/836		40W		3600 lm					

NDL202*M

Round surface mounted LED downlight



NDL202*M 15W



FEATURES

- Engineering PC material
- Low profile and modern design
- Applicable to low ceilings
- Body color is optional, white (99), black(04)

PRODUCT BENEFITS

- High lumen efficiency and uniform luminous effect
- Excellent heat dissipation performance
- Multiple lumen levels to meet project and application needs.
- More choices of product size and lumen level

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- CCT available:3000K/4000K/6500K
- No flicker driver design
- Operating temperature:-20°C~+45°C

APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retail
- Corridors
- Residential areas

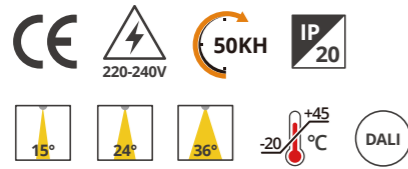
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL2024M 99	87002765/766/767	220-240V	6W	3000K/ 4000K/ 6500K	540 lm	90	80	110°	0.5	25000hrs
NDL2024M 99	87002768/769/770		8W		720 lm					
NDL2024M 99	87002771/772/773		12W		1080 lm					
NDL2026M 99	87002774/775/776		15W		1350 lm					
NDL2028M 99	87002777/778/779		18W		1620 lm					
NDL2028M 99	87002780/781/782		24W		1920 lm					
NDL2024M 04	87002783/784/785		6W		540 lm					
NDL2024M 04	87002786/787/788		8W		720 lm					
NDL2024M 04	87002789/790/791		12W		1080 lm					
NDL2026M 04	87002792/793/794		15W		1350 lm					
NDL2028M 04	87002795/796/797		18W		1620 lm					
NDL2028M 04	87002798/799/800		24W		1920 lm					

LED Spot Light

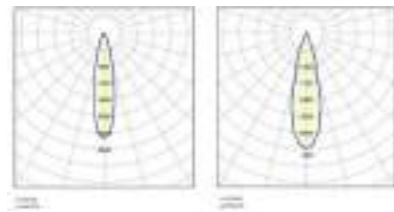


NSP803

Si-Ray Series - LED spot light



Watts	A	B
6W	ø42.5	45
9W	ø55	55.5
12W	ø55	72
20/24W	ø70	90
33W	ø87	107



NSP803-9W

NSP803-12W

Part Number	Bezels	Size/mm	Cut-out/mm
87001713	6W Straight down	Φ63*H39	ø55
87001714	6W Wall washer	Φ65*H38	ø55
87001715	6W Frameless	Φ65*H38	ø55
87001716	9/12W Straight down	Φ83*H42	Φ75
87001717	9/12W Wall washer	Φ83*H46	Φ75
87001718	9/12W Frameless	Φ110*H46	Φ75
87001719	9/12W Grille	155*85*H43	145*75
87001720	20/24W Straight down	Φ112*H64	Φ100
87001721	20/24W Wall washer	Φ112*H64	Φ100
87001722	20/24W Frameless	Φ150*H64	Φ100
87001723	20/24W Grille	220*110*H45	205*95
87001724	33W Straight down	Φ140*H78	Φ125
87001725	33W Wall washer	Φ140*H78	Φ125
87001726	33W Frameless	Φ208*H78	Φ125

FEATURES

- Trim ring accessories optional to match all applications
- Rigorously designed secondary optics structure to ensure the best lighting experience
- No flickering driver design
- Tunable color temperature at 2700-6500K for 6W/9W/12W
- DALI smart control (0%-100% Dimmable)

PRODUCT BENEFITS

- Modularized design of light source and four trim rings optional for various applications
- High CRI up to RA 90
- Multiple beam angle choices and color temperatures
- Long lifetime of up to 50,000hrs

TECHNICAL DETAILS

- COB LEDs
- CRI 90
- Beam angles available: 15°/24°/36°
- Innovative design with great heat dissipation
- Cutting-edge black light technology
- Electrophoresis plating reflector
- A range of bezels, as illustrated above, is available and are to be ordered as separate items.

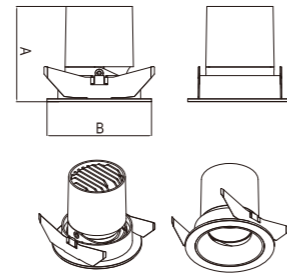
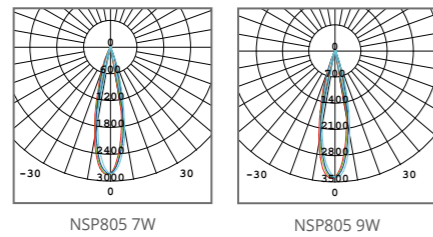
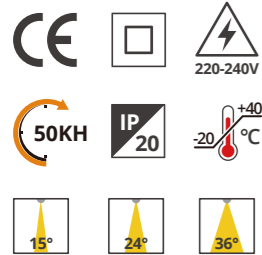
APPLICATIONS

- Commercial and residential use
- Hotels
- Retail stores
- Clubhouse
- Villa

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSP803	87001677/678/679	220-240V	6W	2700-6500K	400 lm	67	90	15°/24°/36°	≥0.95	50000hrs
	87001680/681/682		9W		600 lm	67				
	87001683/684/685		12W		780 lm	65				
	87001686/687/688		20W	2700K	2100 lm	105				
	87001689/690/691			3000K						
	87001692/693/694			4000K						
	87001695/696/697		24W	2700K	2400 lm	100				
	87001698/699/700			3000K						
	87001701/702/703			4000K						
	87001704/705/706		33W	2700K	3500 lm	106				
	87001707/708/709			3000K						
	87001710/711/712			4000K						



NSP805



Watts	A	B	Cut-out
7W	60	Ø64	Ø55
9W	80	Ø84	Ø75
12W	80	Ø84	Ø75
15W	95	Ø104	Ø95

FEATURES

- Die-cast aluminium housing
- Polycarbonate lens
- Exquisite and aesthetically designed
- White powder-coated finish
- Body color is optional, white(Q9), black(Q4)

PRODUCT BENEFITS

- Deep trim design
- Anti-glare lens and construction
- Excellent heat dissipation performance
- Long lifetime of up to 50,000hrs

TECHNICAL DETAILS

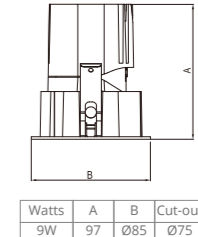
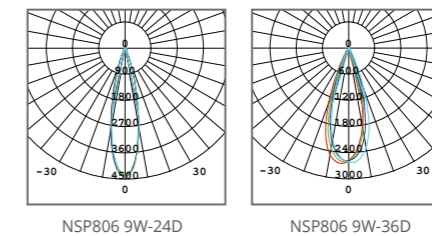
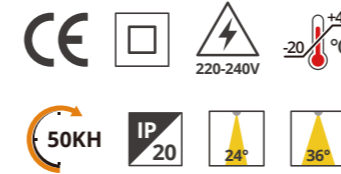
- COB LEDs
- Excellent color rendering up to RA90
- CCT available: 2700K / 3000K / 4000K
- No flicker driver design
- Operating temperatures: -20°C~+40°C
- Beam angles choices:15°/24°/36°

APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retailers
- Residential areas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSP8051 99/04	87002885/886/887/921/922/923	220-240V	7W	2700K/ 3000K/ 4000K	490 lm	70	90	15°	0.9	50000hrs
NSP8052 99/04	87002888/889/890/924/925/926		9W		630 lm					
NSP8053 99/04	87002891/892/893/927/928/929		12W		840 lm					
NSP8054 99/04	87002894/895/896/930/931/932		15W		1050 lm					
NSP8051 99/04	87002897/898/899/933/934/935		7W		490 lm					
NSP8052 99/04	87002900/901/902/936/937/938		9W		630 lm					
NSP8053 99/04	87002903/904/905/939/940/941		12W		840 lm					
NSP8054 99/04	87002906/907/908/942/943/944		15W		1050 lm					
NSP8051 99/04	87002909/910/911/945/946/947		7W		490 lm					
NSP8052 99/04	87002912/913/914/948/949/950		9W		630 lm					
NSP8053 99/04	87002915/916/917/951/952/953		12W		840 lm					
NSP8054 99/04	87002918/919/920/954/955/956		15W		1050 lm					

NSP806



Watts	A	B	Cut-out
9W	97	Ø85	Ø75

FEATURES

- Die-cast aluminum housing
- Polycarbonate lens
- Exquisite and aesthetically designed
- White powder-coated finish

PRODUCT BENEFITS

- Deep trim design
- Anti-glare lens and construction
- Excellent heat dissipation performance
- Long lifetime of up to 50,000hrs

TECHNICAL DETAILS

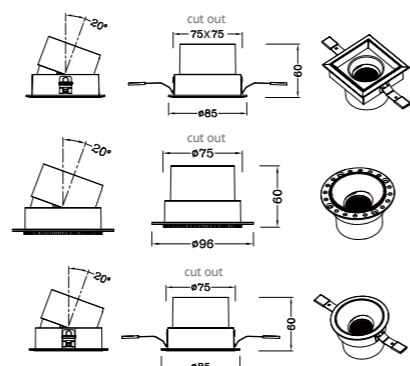
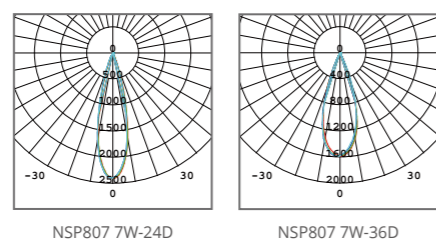
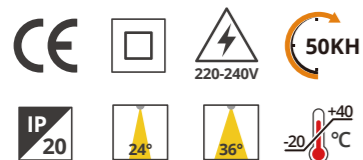
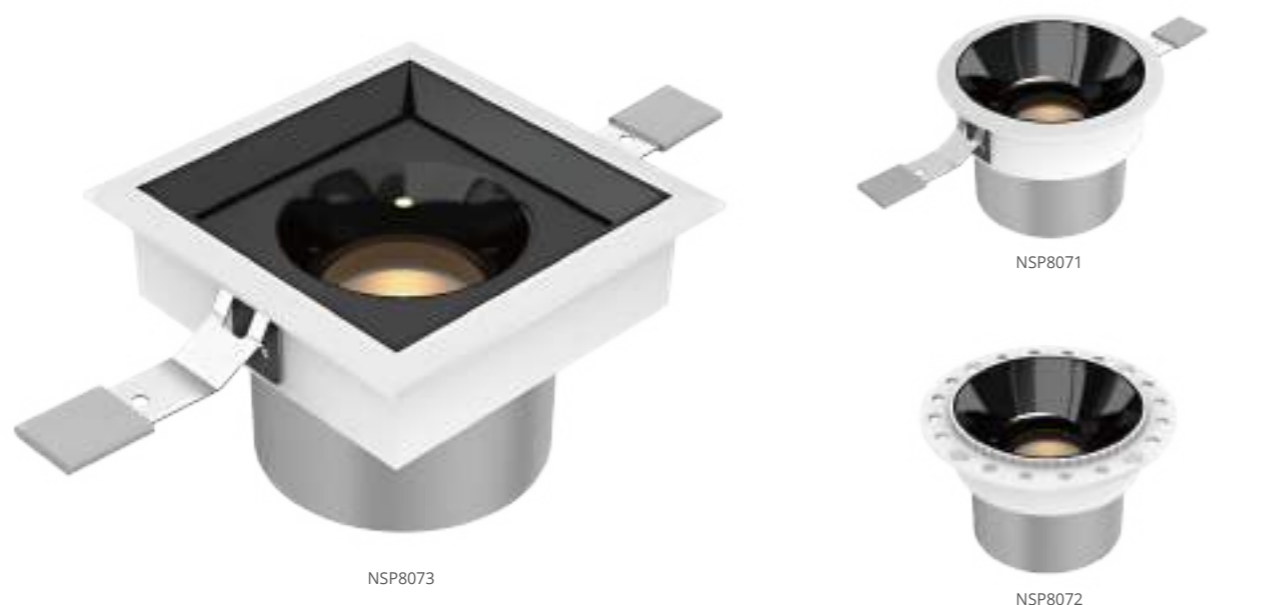
- COB LEDs
- Excellent color rendering up to RA90
- CCT available: 2700K / 3000K / 4000K
- No flicker driver design
- Operating temperatures: -20°C~+40°C
- Beam angles choices:24°/36°

APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retailers
- Residential areas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSP8061	87002972/973/974	220-240V	9W	2700K/ 3000K/ 4000K	720 lm	80	90	24°	0.9	50000hrs
NSP8062	87002975/976/977									
NSP8063	87002978/979/980									
NSP8064	87002981/982/983									
NSP8061	87002984/985/986							36°		
NSP8062	87002987/988/989									
NSP8063	87002990/991/992									
NSP8064	87002993/994/995									

NSP807



FEATURES

- Die-cast aluminium housing
- Polycarbonate lens
- Exquisite and aesthetically designed
- White powder-coated finish
- Body color is optional: white (99),black(04)

PRODUCT BENEFITS

- Deep trim design
- Anti-glare lens and construction
- Excellent heat dissipation performance
- Long lifetime of up to 50,000hrs

TECHNICAL DETAILS

- COB LEDs
- CRI ≥80
- CCT available: 3000K / 4000K
- No flicker driver design
- Operating temperatures: -20°C~+40°C
- Beam angles choices:24°/36°

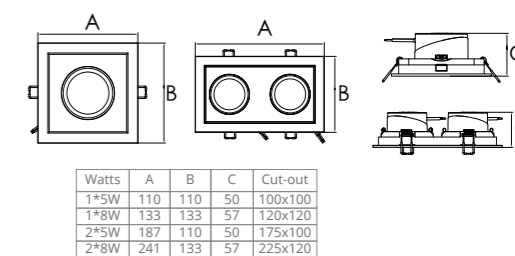
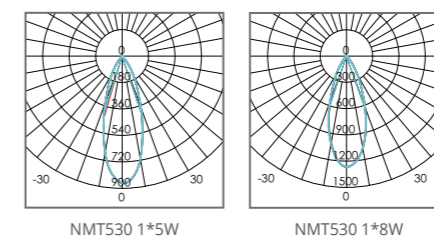
APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retailers
- Residential areas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSP8071 99	87002996/997/998/999	220-240V	7W	3000K/4000K	420 lm	60	80	24°/36°	0.9	50000hrs
NSP8072 99	87003000/001/002/003									
NSP8073 99	87003004/005/006/007									
NSP8071 04	87003008/009/010/011									
NSP8072 04	87003012/013/014/015									
NSP8073 04	87003016/017/018/019									

NMT530

Economical Multiple LED spot light



Watts	A	B	C	Cut-out
1*5W	110	110	50	100x100
1*8W	133	133	57	120x120
2*5W	187	110	50	175x100
2*8W	241	133	57	225x120

FEATURES

- Plastic body, built-in aluminium cup
- Adjustable angle: horizontal 350°, vertical 30°
- Clear beam angle and provide professional accent lighting
- LED module is easily removed and replaced if required for maintenance purposes

PRODUCT BENEFITS

- Uniform light effect and nature light
- Accurate spotlighting of the reflector cup
- High transmittance of optical lens

TECHNICAL DETAILS

- Good color rendering at RA80
- CCT available:3000/4000/5700K
- Operating temperatures: -20-45°C
- No flicker driver design

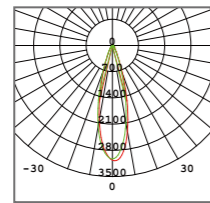
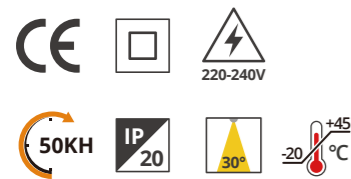
APPLICATIONS

- Hotel
- Shopping mall
- Retail store
- Restaurant
- Museum

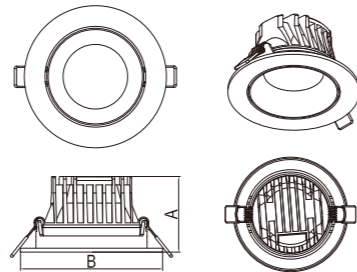
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NMT5301B	87002216/17/18	220-240V	1*5W	3000K/4000K/5700K	350/375/375 lm	70-75	80	36°	0.5	15000hrs
NMT5302B	87002219/20/21		2*5W		700/750/750 lm					
NMT5301D	87002222/23/24		1*8W		560/600/600 lm					
NMT5302D	87002225/26/27		2*8W		1120/1200/1200 lm					

NSP151

Anti-dazzle prism LED spot light



NSP151 10W



Watts	A	B	Cut-out
5W	35	Ø70	Ø55
7W	45	Ø88	Ø75
10W	55	Ø110	Ø95
16W	70	Ø135	Ø120
24W	85	Ø175	Ø150

FEATURES

- Die-casting aluminum housing
- Anti-dazzle prism
- White powder-coating finish

PRODUCT BENEFITS

- Complete opening to meet all kinds of commercial lighting and accent lighting
- Anti-glare to create a comfortable light environment

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- Excellent color rendering up to RA90
- CCT available: 2700K/3000K /4000K
- No flicker driver design
- Operating temperature:-20°C~+45°C

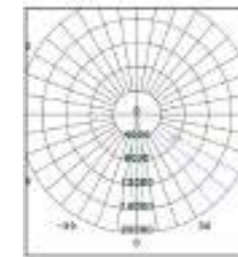
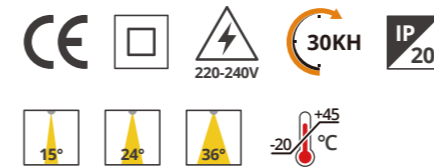
APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retailers
- Residential areas

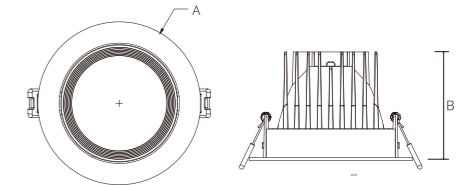
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSP1511	87002957/958/959	220-240V	5W	2700K/ 3000K/ 4000K	450 lm	90	80	30° (selectable24°)	0.9	50000hrs
NSP1512	87002960/961/962		7W		590 lm	84				
NSP1513	87002963/964/965		10W		910 lm	95				
NSP1514	87002966/967/968		16W		1570 lm	98				
NSP1515	87002969/970/971		24W		2300 lm	96				

NSP160

Die-cast aluminum LED spot light



NSP160 24W



Watts	A	B	Cut-out
6/9W	Ø85	53	Ø75
12/15W	Ø110	70	Ø100
24/30W	Ø130	92	Ø120

FEATURES

- Die-cast aluminum lamp body, excellent heat dissipation and durable
- External independent power supply and customizable dimming
- Deep anti-glare to create a comfortable light environment

PRODUCT BENEFITS

- Multiple choices of beam angle and color temperature for various applications.
- Best solution for project with high CRI up to RA90
- Excellent heat dissipation performance
- Long life time up to 30,000hrs

TECHNICAL DETAILS

- COB chip with reflector cup, precise light distribution, natural light spot
- CRI RA90, excellent colour rendering
- 3 CCT available: 3000 / 4000 / 6500K
- optional three beam angles:15° / 24° / 36°
- Operating temperature : -20 to 45°C

APPLICATIONS

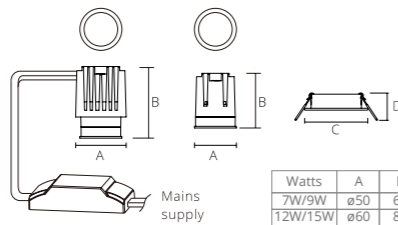
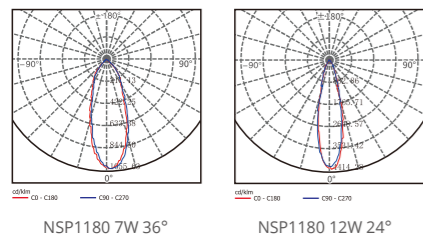
- Hotel
- Shopping mall
- Retail store
- Residential areas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSP1601A	87001142/45/48	220-240V	6W	3000K	500 lm	80	90	15°/24°/36°	≥0.5	30000hrs
NSP1601A	87001143/46/49			4000K						
NSP1601A	87001144/47/50			6500K						
NSP1601	87001151/54/57		9W	3000K	700 lm					
NSP1601	87001152/55/58			4000K						
NSP1601	87001153/56/59			6500K						
NSP1602A	87001160/63/66		12W	3000K	1100 lm	90				
NSP1602A	87001161/64/67			4000K						
NSP1602A	87001162/65/68			6500K						
NSP1602	87001169/72/75			3000K					1350 lm	
NSP1602	87001170/73/76			4000K						
NSP1602	87001171/74/77			6500K						
NSP1603A	87001178/81/84		24W	3000K	2300 lm	95				
NSP1603A	87001179/82/85			4000K						
NSP1603A	87001180/83/86			6500K						
NSP1603	87001187/90/93		30W	3000K	2600 lm	86				
NSP1603	87001188/91/94			4000K						
NSP1603	87001189/92/95			6500K						



NSP1180

Recessed LED spot light with a range of bezels



Bezels	Part Number	Colour	C	D	Cut-out
NSP1180-1	87002006/07	Black or White	ø85	24	ø75
NSP1180-2	87002008/09		ø110	23	ø95
NSP1180-3	87002010/11		ø84	46	ø75
NSP1180-4	87002012/13		ø100	47	ø92
NSP1180-5	87002014/15		84x84	46	75x75
NSP1180-6	87002016/17		100x100	47	92x92

Watts	A	B
7W/9W	ø50	64
12W/15W	ø60	85

FEATURES

- Die-cast aluminium body and heat sink
- Frosted PC diffuser
- White painted die-cast aluminium bezels
- Adjustable angle 20° (for NSP1180-1/2/4/6 only)
- Separate driver included

PRODUCT BENEFITS

- Multiple choices of beam angle and color temperature for various applications.
- Excellent heat dissipation performance
- Easy installation and easy maintenance with separate driver

TECHNICAL DETAILS

- COB LEDs
- CRI 90
- Beam angles available: 15°/24°/36°
- A range of bezels, as illustrated above, is available and are to be ordered as separate items.

APPLICATIONS

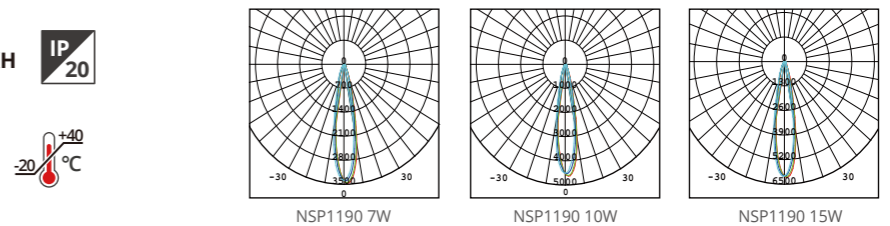
- Bar
- Restaurant
- Hotel
- Meeting room
- Corridor
- High-specification residential project

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSP1180	87001958/62/66	220-240V	7W	2700K	650 lm	93	90	15°/24°/36°	≥0.9	30000hrs
	3000K									
	4000K									
	6000K									
	87001959/63/67		9W	2700K	860 lm	96				
	3000K									
	4000K									
	6000K									
	87001960/64/68		12W	2700K	1150 lm	96				
	3000K									
	4000K									
	6000K									
	87001961/65/69		15W	2700K	1360 lm	91				
	87001970/74/78			3000K						
	87001971/75/79			4000K						
	87001972/76/80			6000K						
	87001973/77/81		87001994/98 87002002	2700K	1360 lm	91				
	87001974/78			3000K						
	87001975/79			4000K						
	87001976/80			6000K						
87001977/81	87001995/99 87002003	2700K	1360 lm	91						
87001978/82		3000K								
87001979/83		4000K								
87001980/84		6000K								
87001981/85	87001996 87002000/04	2700K	1360 lm	91						
87001982/86		3000K								
87001983/87		4000K								
87001984/88		6000K								
87001985/89	87001997 87002001/05	2700K	1360 lm	91						
87001986/90		3000K								
87001987/91		4000K								
87001988/92		6000K								



NSP1190

Recessed LED spot light with a range of bezels



Watts	A	B
7W	ø50	40
10W	ø50	50
15W	ø50	60

Bezels	Part Number	Colour	C	D	Cut-out
NSP1190-1	87003104/09	Black or White	ø78	45	ø70
NSP1190-2	87003105/10		ø85	35	ø75
NSP1190-3	87003106/11		ø105	45	ø90
NSP1190-4	87003107/12		ø78	45	ø70
NSP1190-5	87003108/13		85x85	45	75x75

FEATURES

- Die-cast aluminium body and heat sink
- Frosted PC diffuser
- White painted die-cast aluminium bezels
- Adjustable angle 20° (for NSP1190-3/-4 only)
- Separate driver included

PRODUCT BENEFITS

- Multiple choices of beam angle and color temperature for various applications.
- Excellent heat dissipation performance
- Easy installation and easy maintenance with separate driver

TECHNICAL DETAILS

- COB LEDs
- CRI 80
- Beam angles available: 15°/24°/36°/50°
- A range of bezels, as illustrated above, is available and are to be ordered as separate items.

APPLICATIONS

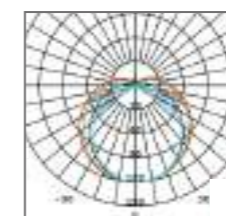
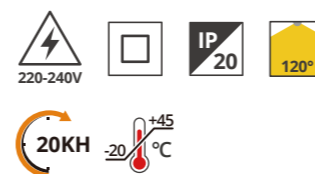
- Bar
- Restaurant
- Hotel
- Meeting room
- Corridor
- High-specification residential project

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSP1190	87003068/077/086/095	220-240V	7W	2700K	630 lm	90	80	15°/24°/36°/50°	≥0.9	30000hrs
	3000K									
	4000K									
	87003070/079/088/097		10W	2700K	900 lm					
	87003071/080/089/098			3000K						
	87003072/081/090/099			4000K						
	87003073/082/091/100		15W	2700K	1350 lm					
	87003074/083/092/101			3000K						
	87003075/084/093/102			4000K						
	87003076/085/094/103			4000K						

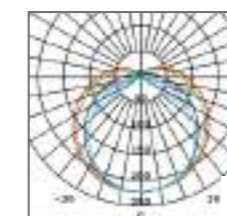


LED Batten Light

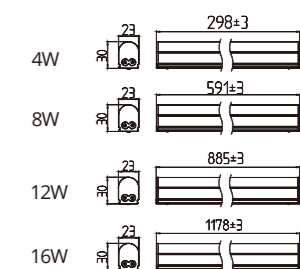
NBT420* T5 LED batten



NBT4201 4W



NBT4202 8W



FEATURE

- Opal polycarbonate diffuser
- Built-in LED driver included
- Linkable
- Maximum connection 10Pieces for all wattages
- Jumper cable: Order this as a separate item



PRODUCT BENEFITS

- Seamless connection to achieve linear consistency light effect
- Four product length to meet project needs
- Multi CCT available for various applications

TECHNICAL DETAILS

- SMD LEDs
- 100lm/W
- PF ≥0.9
- CCT available :3000K/4000K/6500K
- Supplied with integral driver
- CRI ≥80

APPLICATIONS

- General commercial lighting
- Stores
- Cove lighting

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NBT4201/03	87002201/02/03	220-240V	4W	3000K/4000K/6500K	400 lm	100	>80	120°	≥0.9	20000hrs
NBT4202/06	87002204/05/06		8W	3000K/4000K/6500K	800 lm				≥0.9	
NBT4203/09	87002207/08/09		12W	3000K/4000K/6500K	1200 lm				≥0.9	
NBT4204/12	87002210/11/12		16W	3000K/4000K/6500K	1600 lm				≥0.9	

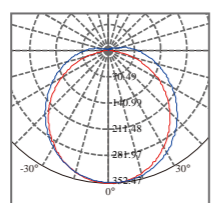


NLED492G

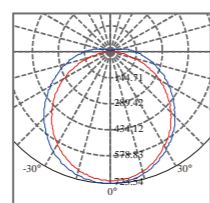
LED fittings for surface or suspended installation



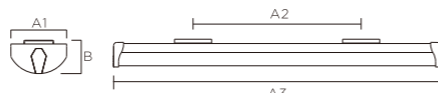
Mounting Bracket



NLED492G 18W



NLED492G 36W



Watts	A1	A2	A3	B
18W	75	290	561	46
36W	75	790	1198	46

FEATURE

- Steel body
- Polycarbonate diffuser
- Cable entry on rear

PRODUCT BENEFITS

- Easy installation with included mounting accessory
- Multiple choices of color temperature for various applications
- Mounting bracket for surface and suspended installations

TECHNICAL DETAILS

- SMD LEDs
- CCT available :3000K/4000K /6500K
- Supplied with integral driver
- CRI ≥80

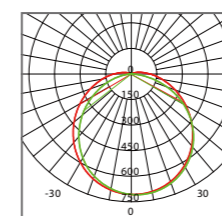
APPLICATIONS

- Suitable for retail stores and offices

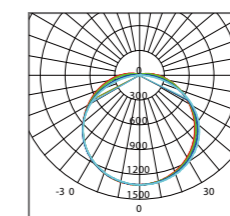
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NLED492G06	70063464	220-240V	18W	3000K	1200 lm	67	80	120°	≥0.9	20000hrs
	70063465		18W	4000K	1200 lm				≥0.9	
	70063466		18W	6500K	1200 lm				≥0.9	
NLED492G12	70063461		36W	3000K	2400 lm				≥0.9	
	70063462		36W	4000K	2400 lm				≥0.9	
	70063463		36W	6500K	2400 lm				≥0.9	

NLI430

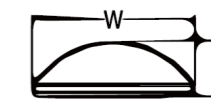
LED Linear light



NLI4301 20W 120° 4000K



NLI4302 40W 120° 6500K



Watts	L	W	H	LF
20W	600	71	25	300-450
40W	1200	71	25	600-750

FEATURES

- Lightweight and stylish products, Large luminous surface design and better lighting effect
- Up to 110lm/w efficacy, performance above industry standard level
- PC cover, high transmittance and anti-yellowing
- Concealed wire installation

PRODUCT BENEFITS

- Low profile design compatible with various styles of application environment
- High lumen efficiency to save energy
- Multiple color temperature choices for various applications

TECHNICAL DETAILS

- CCT available: 3000K/4000K/6500K
- Lifespan: 30,000h
- Finish Colour: White
- Operating temperature: -20°C to 45°C
- Installation: Surface
- Driver: Internal
- IP: IP20

APPLICATIONS

- Office
- Shopping mall
- Factory
- Car Park

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NLI4301	87002163	220V-240V	20W	3000K	2100 lm	105	80	120°	0.5	30000hrs
	87002164		20W	4000K	2200 lm	110			0.5	
	87002165		20W	6500K	2200 lm	110			0.5	
NLI4302	87002166		40W	3000K	4200 lm	105			0.5	
	87002167		40W	4000K	4400 lm	110			0.5	
	87002168		40W	6500K	4400 lm	110			0.5	

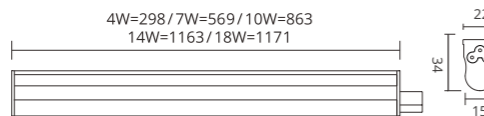
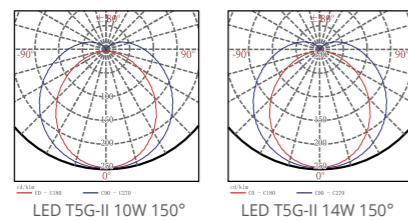
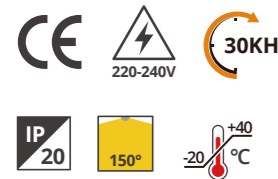


LED T5G

Slim T5 LED battens for cove lighting



Adjustable bracket
Order this as a separate item



FEATURES

- Aluminium housing
- Opal polycarbonate diffuser
- Built-in driver
- Linkable
- Plugs, middle connectors, end caps and installation accessories included

PRODUCT BENEFITS

- High lumen efficiency up to 100lm/w and uniform luminous effect
- Long lifetime of up to 30,000 hours
- Maximum connection of 8pcs for 4W, 7W and 14W, 5pcs for 18W
- Easy Installation and extension connection

TECHNICAL DETAILS

- SMD LEDs
- Product length options: 29.8/56.9/86.3/116.3cm available
- Standard version (t5g-id).
4W /280lm , 7W/550lm.
10W/800lm , 14W/1, 050lm
- High lumen version (T5GH).
4W/400lm . 7W/700lm.
10W/1000lm , 14W/1400lm.
18W/2000lm.
- Jumper cable :
Order this as a separate item
- Adjustable bracket:
Order this as a separate item

APPLICATIONS

- General commercial use
- Cove lighting
- Residential lighting

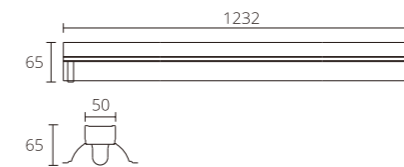
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
LED T5G03 II	70087547/48/49	220-240V	4W	3000K 4000K 6500K	280 lm	70	>75	150°	≥0.5	30000hrs
LED T5G06 II	70087550/51/52		7W		550 lm	79				
LED T5G09 II	70087563/64/65		10W		800 lm	80				
LED T5G12 II	70087566/67/68		14W		1050 lm	75				
LED T5GH03	70087569/70/71		4W		400 lm	100				
LED T5GH06	70087572/73/74		7W		700 lm	100				
LED T5GH09	70087575/76/77		10W		1000 lm	100				
LED T5GH12	70087578/79/80		14W		1400 lm	100				
LED T5GH12	70087581/82/83		18W		2000 lm	111				

NDL470E

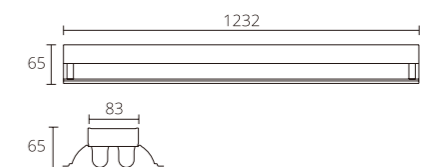
Surface or suspended mounted battens



NDL470**-1TUBE



NDL470**-2TUBES



FEATURES

- Suitable for LED T8 tube (should be ordered this as a separate item)
- Cold rolled sheet body

PRODUCT BENEFITS

- Good retrofit choice for LED Tube
- Easy Installation and wiring
- Maintenance free

APPLICATIONS

- Supermarket
- School
- Indoor car park
- General commercial lighting

NOTES

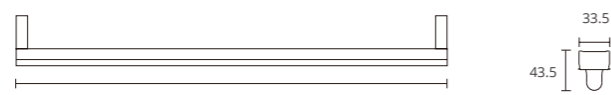
- Installation: Choice of surface mounted or suspended mounted

Model	Part Number	Description
NDL470ED-2TUBES	87003270	Single-end empty battens with cover,suitable for two 1200mm LED T8 tube
NDL470ES-2TUBES	70079591	Double-end empty battens with cover,suitable for two 1200mm LED T8 tube
NDL470ED-1TUBE	70079590	Single-end empty battens with cover,suitable for one 1200mm LED T8 tube
NDL470ES-1TUBE	70079589	Double-end empty battens with cover,suitable for one 1200mm LED T8 tube



NLED4811

Surface mounted empty battens



9W=610mm 18W=1220mm

NLED4811

FEATURES

- Suitable for LED T8 tube (should be ordered this as a separate item)
- Cold rolled sheet body

PRODUCT BENEFITS

- Good retrofit choice for LED Tube
- Easy Installation and wiring
- Maintenance free

APPLICATIONS

- Supermarket
- School
- Indoor car park
- General commercial lighting

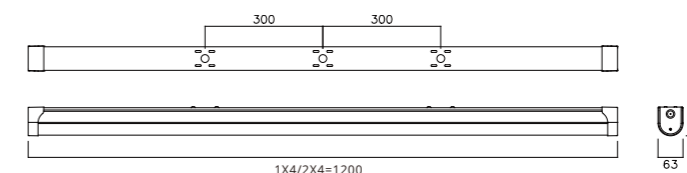
NOTES

- Installation: Choice of surface mounted or suspended mounted

Model	Part Number	Description
NLED4811 9W	70089859	Double-end Empty battens, suitable for one 588mm LED T8 tube
NLED4811 18W	70089858	Double-end Empty battens, suitable for one 1,198mm LED T8 tube

TEXAS

Batten available in standard and high-output



CONSTRUCTION

- Conventional batten width steel body
- White RAL9016 powder coated finish
- Opal polycarbonate LED diffuser
- BESA fixing points on rear
- LEDs on metal core PCB
- Central cable entry point
- Piano key terminal block for speed of installation & loop in / loop out wiring
- Provided with security screws to stop removal of front cover from the body

TECHNICAL DETAILS

- Available in 2 Wattage:
 - 1x4, 24W, 2,970 lm, 126 l.lm/c.W
 - 2x4, 46W, 5,700 lm, 125 l.lm/c.W
- CRI>80
- CCT 4000/6500K
- Branded ENEC approved flicker free driver

APPLICATIONS

- Suitable for commercial or domestic applications

Model	Part Number	CCT	DESCRIPTION
NTE1X4/840	87003300	4000K	Texas LED Single 4Ft Batten 840
NTE2X4/840	87003301		Texas LED Twin 4Ft Batten 840
NTE1X4/865	87003304	6500K	Texas LED Single 4Ft Batten 865
NTE2X4/865	87003305		Texas LED Twin 4Ft Batten 865



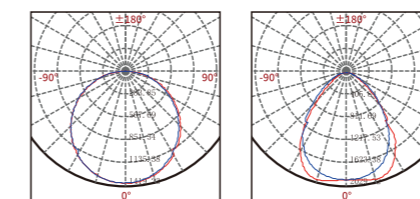
LED Panel Light

NPN450

Low UGR edge lit LED panel

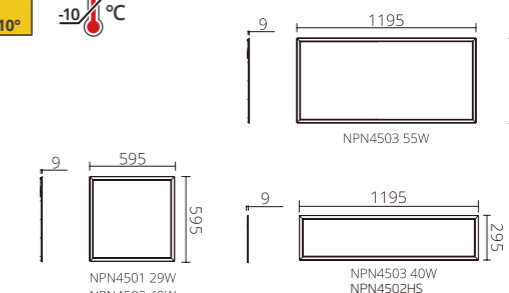


NPN4502U



NPN4502 40W

NPN4502U 40W



NPN4501 29W
NPN4502 40W

NPN4503 40W
NPN4502HS

FEATURES

- Aluminium frame and frosted PS diffuser plate
- PMMA light guide plate
- Separate low-flicker driver included (OSRAM, Philips and Tridonic brand are available for choice)
- Suitable for surface installation, recessed installation and suspension installation

PRODUCT BENEFITS

- High lumen efficiency up to 120lm/w
- Surface and suspension installation kit available
- Edit lit design to achieve low UGR
- No flicker driver design

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- CCT available: 4000K/6500K
- Supplied with integral driver
- Beam angle available: 90°/110°

APPLICATIONS

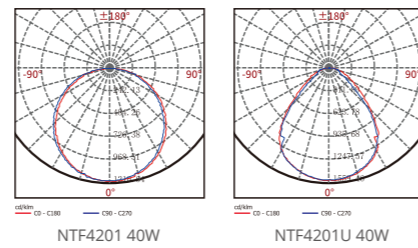
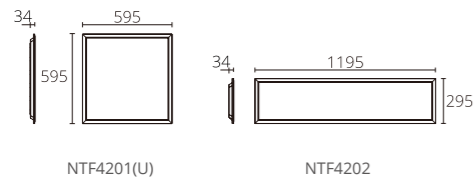
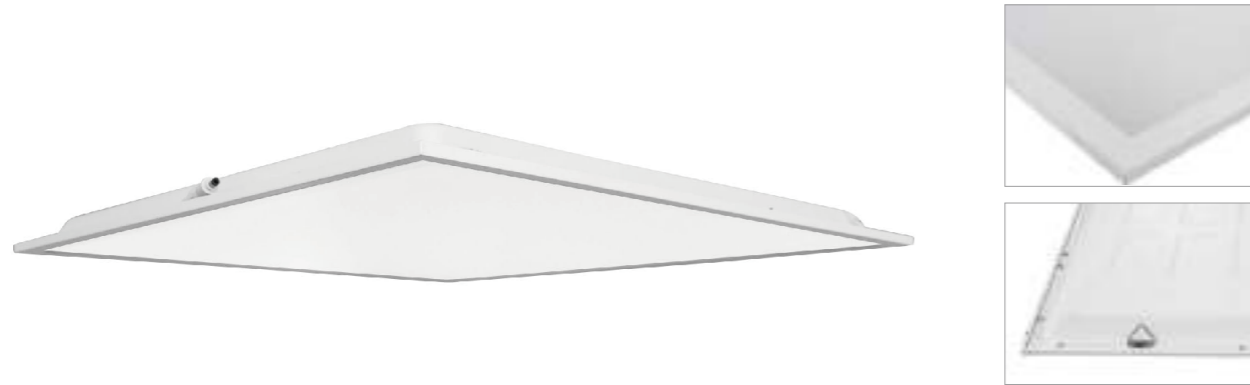
- Office
- Hospital
- School
- Library
- Shopping mall
- Meeting room

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NPN4501 29W	87000369A	220-240V	29W	4000K	3480 lm	120	80	110°	≥0.95	30000hrs
	87000370A			6500K						
NPN4501U 29W (UGR <19)	87000371A			4000K	3300 lm	114				
	87000372A			6500K						
NPN4503 55W	87000373A		55W	4000K	6600 lm	120				
	87000374A			6500K						
NPN4502 40W	87000449A			40W	4000K	4300 lm		108		
	87000450A				6500K					
NPN4502U 40W (UGR <19)	87000451A		4000K		4100 lm	103				
	87000452A		6500K							
NPN4503 40W	87000453A		4000K	4300 lm	108					
	87000454A					6500K				
NPN4502H 40W	87001377A	4800 lm		4300 lm	120					
	87001378A					6500K				
NPN4502HS 40W	87001380A		4000K							
	87001381A		6500K							

Model	Part Number	Accessories
NPN4501/NPN4501U/NPN4502/NPN4502U/NPN4502H	87000455A	Panel Clip NPN4502 (4pcs included)
NPN4503/NPN4502HS	87000456A	Panel Clip NPN4503 (6pcs included)
NPN4501/NPN4501U/NPN4502/NPN4502U/NPN4502H	87000457A	Surface kit for NPN 4502 (600x600)
NPN4503/NPN4502HS	87000458A	Surface kit for NPN 4503 (1200x600 or 1200x300)
NPN4501/NPN4501U/NPN4502/NPN4502U/NPN4502H	87000459A	Panel Wire for 600x600(2pcsx1.1m/set)
NPN4503/NPN4502HS	87000460A	Panel Wire for 1200x300(3pcsx1.1m/set)

NTF420

Low UGR back lit LED panel light



CONSTRUCTION

- Aluminum frame and frosted PS diffuser plate
- 0.35mm gvanized sheet
- Separate low flicker driver included (OSRAM, Philips and Tridonic brand are available for choice)
- Suitable for surface installation and recessed installation

PRODUCT BENEFITS

- High lumen efficiency up to 108lm/w
- Optional surface installation kit available
- Back lit design with even light distribution
- No flicker driver design

TECHNICAL DETAILS

- SMD LEDs
- CRI >80
- CCT available: 4000K/6500K
- Beam angle available: 90°/110°

APPLICATIONS

- Office
- Hospital
- School
- Library
- Shopping mall
- Meeting room

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NTF4201 40W	87000461A	220-240V	40W	4000K	4300 lm	108	80	110°	0.95	30000hrs
	87000462A			6500K						
NTF4201U 40W (UGR <19)	87000463A			4000K	4000 lm	100		90°		
	87000464A			6500K						
NTF4202 40W	87000465A			4000K	4300 lm	108		110°		
	87000466A			6500K						

Model	Part Number	Accessories
NTF4201/NPN4201U	87000467A	Panel Clip NTF4201 (4pcs included)
NTF4202	87000468A	Panel Clip NTF4202 (6pcs included)
NTF4201/NPN4201U	87000469A	Surface Kit for NTF4201 (600x600)
NTF4202	87000470A	Surface Kit for NTF4202 (1200x300)

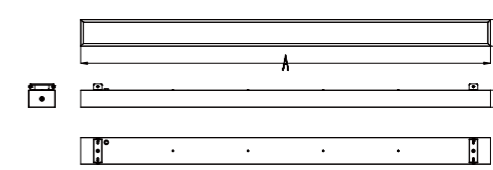
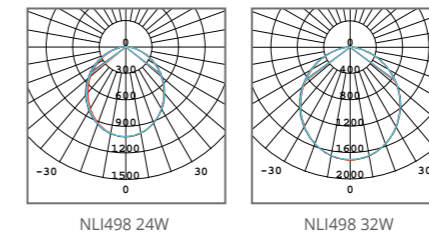
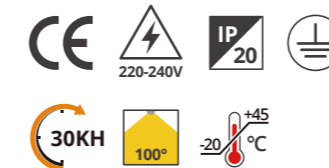
*Accessories need to be ordered as separate items





LED Linear Light

NLI498



Model	Watts	A	B	C
NLI4981	24W	1200	60	50
NLI4982	24W	1200	80	50
NLI4983	24W	1200	100	50
NLI4984	32W	1200	120	50
NLI4985	32W	1200	150	50
NLI4986	42W	1200	200	50

FEATURES

- Aluminum and polycarbonate construction
- White powder-coated finish
- UV-stable opal polycarbonate diffuser

PRODUCT BENEFITS

- Regular length 120cm with slim design
- Multiple wattage and color temperature choices
- Linear low-profile design compatible to various lighting environment
- Surface and suspended installations

TECHNICAL DETAILS

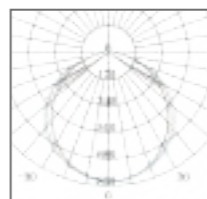
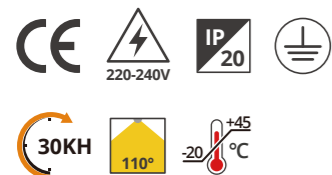
- SMT LEDs
- CRI ≥90
- CCT available: 3000K / 4000K / 5700K
- No flicker driver design
- Operating temperature: -20°C~+45°C

APPLICATIONS

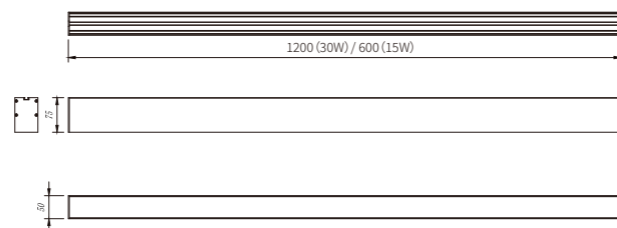
- Corridors
- Public areas in schools
- Public buildings
- Offices
- Hotels

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NLI4981	87003050/51/52	220-240V	24W	3000K/ 4000K/ 5700K	1920 lm	80	90	100°	≥0.9	30000hrs
NLI4982	87003053/54/55									
NLI4983	87003056/57/58									
NLI4984	87003059/60/61		32W		2560 lm					
NLI4985	87003062/63/64									
NLI4986	87003065/66/67									

NLI496



NLI496 30W



FEATURES

- Aluminum housing with great durability, excellent heat dissipation
- Unique modular structure design, can be used in various applications
- UV-stable opal polycarbonate diffuser

PRODUCT BENEFITS

- Regular length 120cm with slim design
- Multiple wattage and color temperature choices
- Linear low-profile design compatible to various lighting environment
- Rope installation (ceiling, embedded customization) can be extended and spliced to meet different scenarios

TECHNICAL DETAILS

- Efficacy up to 100 lm/w
- CRI 90
- CCT available: 4000/6500K
- Operating temperature: -20-45°C
- No flicker driver design

APPLICATIONS

- Corridors
- Public areas in schools
- Public buildings
- Offices
- Hotels

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NLI4961	87002110	220-240V	15W	4000K	1500 lm	100	90	110°	0.9	30000hrs
NLI4961	87002111			6500K						
NLI4962	87002112		30W	4000K						
NLI4962	87002113			6500K						

DALLAS

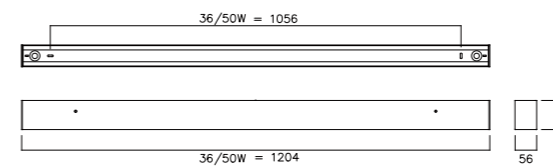
Surface and/or suspended fittings are a versatile solution, especially in buildings with high ceilings, or with a range of different ceiling heights and styles.



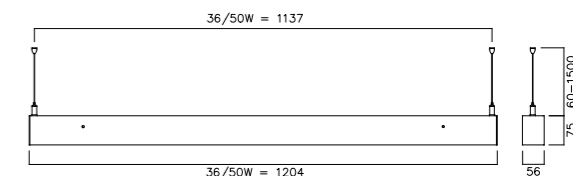
LED STRIP ON REAR PROVIDES 30% UPLIGHT ON BI-DIRECTIONAL VERSIONS



SURFACE MOUNT



SUSPENDED



TECHNICAL DETAILS

- DOWNLIGHT ONLY, for surface or suspended installation, with opal diffuser or aluminium reflector
 - 4ft (36W) opal, 4,450 lm, 121 l.lm/c.W
 - 4ft (36W) reflector, 4,240 lm, 117 l.lm/c.W
- BI-DIRECTIONAL (70% down & 30% up), for suspended installation only, with opal diffuser or aluminium reflector
 - 4ft (50W) opal, 5,780 lm, 115 l.lm/c.W
 - 4ft (50W) reflector, 5,495 lm, 113 l.lm/c.W

CONSTRUCTION

- Aluminium and polycarbonate construction
- White powder coated finish - RAL9016
- UV stable opal polycarbonate diffuser
- LEDs on metal core PCB
- Coupling kits available to extend system

APPLICATIONS

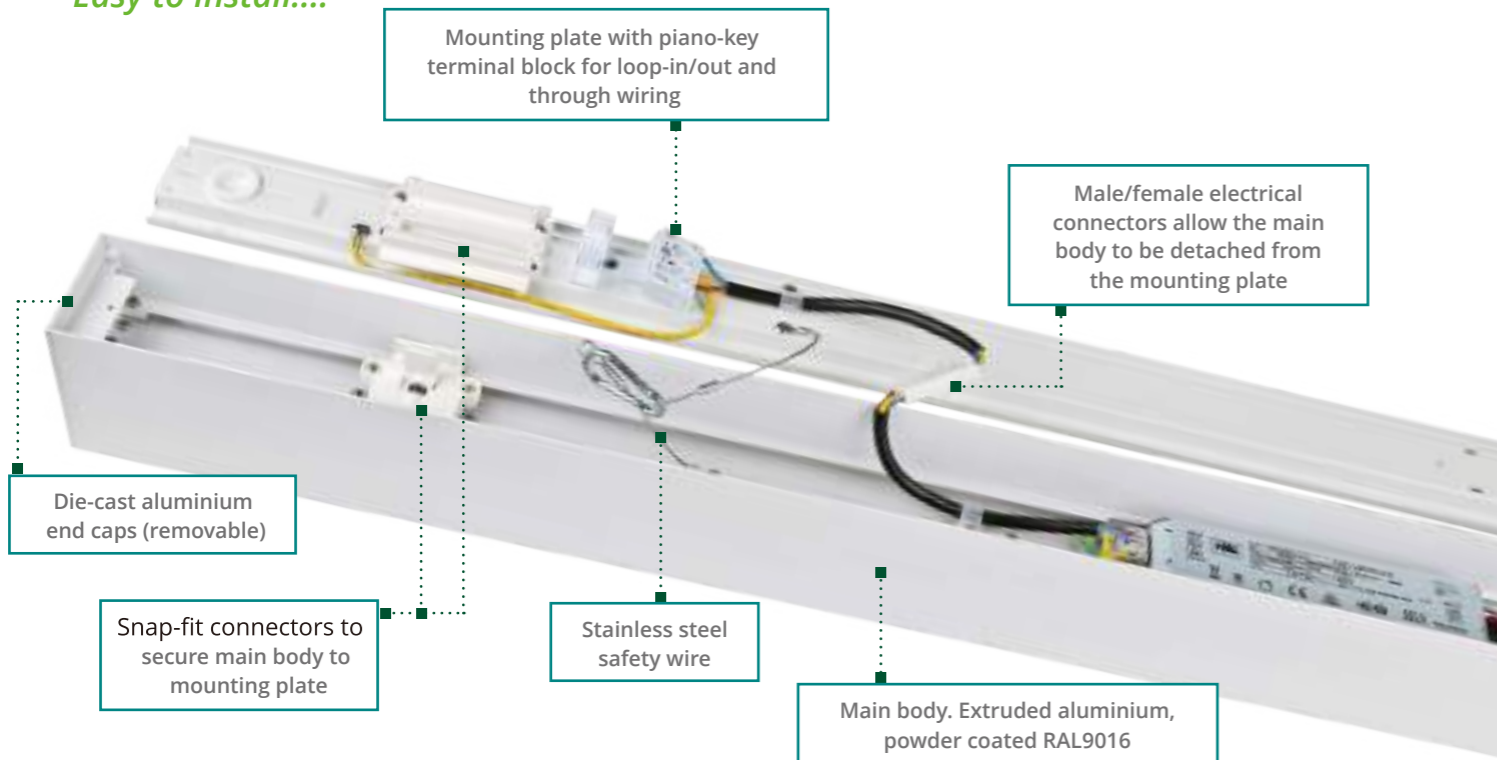
- Corridors and public areas in schools, colleges and public sector buildings
- For surface or suspended installation

OPTIONS

- DIMMING: DD (DALI or Switch Dim) or CF (Corridor Function) available. Add suffix DD or CF as required.

Model	Part Number	CCT	DESCRIPTION
NDL36/BK/R/DO/840	87003286	4000K	Dallas Black 36W Reflector LED 4Ft Surface Suspended Down Only 840
NDL50/BK/R/BD/840	87003287		Dallas Black 50W Reflector LED 4Ft Suspended Bi-Direct 840
NDL36/BK/O/DO/840	87003288		Dallas Black 36W Opal LED 4Ft Surface Suspended Down Only 840
NDL50/BK/O/BD/840	87003289		Dallas Black 50W Opal LED 4Ft Suspended Bi-Direct 840
NDL/BK/R/STRAIGHT	87003290	ACCESSORIES	Dallas Black Reflector Straight Coupling Kit
NDL/BK/R/L	87003291		Dallas Black Reflector L Coupling Kit
NDL/BK/R/T	87003292		Dallas Black Reflector T Coupling Kit
NDL/BK/R/X	87003293		Dallas Black Reflector X Coupling Kit
NDL/BK/O/STRAIGHT	87003294		Dallas Black Opal Straight Coupling Kit
NDL/BK/O/L	87003295		Dallas Black Opal L Coupling Kit
NDL/BK/O/T	87003296		Dallas Black Opal T Coupling Kit
NDL/BK/O/X	87003297		Dallas Black Opal X Coupling Kit

DALLAS Easy to install....



Fittings can be installed individually or as continuous runs in straight-line, L, T or X configurations and the suspended versions can deliver 100% downlight, or a mix of 70% downlight and 30% uplight.

DALLAS ACCESSORIES



STRAIGHT COUPLING KIT



"L" COUPLING KIT



"T" COUPLING KIT



"X" COUPLING KIT



BLANK IN-FILL SPACERS AVAILABLE IN VARIOUS LENGTHS

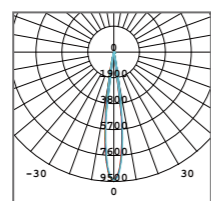
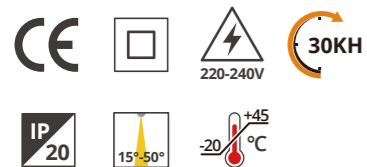
WIRE SUSPENSION KIT, COMES AS STANDARD WITH BI-DIRECTIONAL VERSIONS



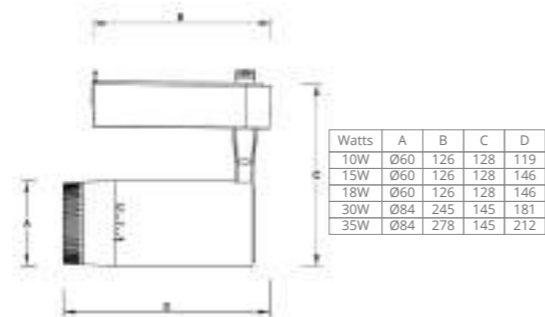
LED Track Light



NTR360



NTR360A 10W



FEATURES

- Die-cast aluminium housing
- Polycarbonate reflector and bezel
- White powder-coated finish
- Body color is optional, white(99), black(04)

PRODUCT BENEFITS

- 15° to 50° stepless Zoomable
- Multiple color temperature and lumen level options
- Long lifetime of up to 30,000hrs

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- CCT available: 3000K / 4000K / 6000K
- No flicker driver design
- Operating temperature: -20°C~+45°C

APPLICATIONS

- Corridors
- Offices & Meeting rooms
- Malls & Retailers
- Residential areas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NTR360A 99/04	87003020/021/022/035/036/037	220-240V	10W	3000K/ 4000K/ 6000K	800 lm	80	80	15°-50°	0.5	30000hrs
NTR360B 99/04	87003023/024/025/038/039/040		15W		1200 lm					
NTR360C 99/04	87003026/027/028/041/042/043		18W		1600 lm					
NTR360D 99/04	87003029/030/031/044/045/046		30W		2400 lm					
NTR360E 99/04	87003032/033/034/047/048/049		35W		2800 lm					

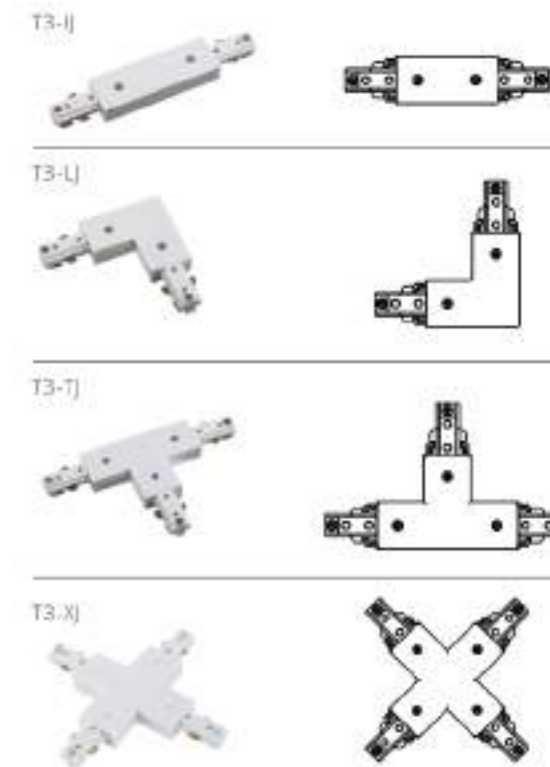
Accessory track-3wire

Single circuit track + accessories



Black

Semi white



FEATURES AND SPECIFICATION

- Three copper wires (conductors), secured in an insulating (polycarbonate)retainer
- The configuration of the I, L,T and X connectors prevents any connection either with another connector (listed below) or an NVC light fitting with reversed polarity
- Aluminium body, powder coated in white or black
- Available in three lengths of 1m, 1.5m and 2m
- Uniform surface and interior colour(black or white)

Single circuit track

- Live and dead ends included with each length of track
- Available in three lengths: 1m, 1.5m or 2m
- Three joining accessories are available to give I,L,T and X installations, as listed below
- Material: PMMA(Polymethyl methacrylate)

Model	Part Number	Colour	QTY/CNT	CTN Dimensuon
T3/1M	70080544	Black	20PCS	1030x190x83mm
	70080538	White		
T3/1.5M	70080545	Black		1530x190x83mm
	70080539	White		
T3/2M	70080546	Black		2030x190x83mm
	70080540	White		
T3/IJ	70080749	Black	100PCS	375x195x225mm
	70080745	White		
T3/LJ	70080750	Black	50PCS	370x235x140mm
	70080746	White		
T3/TJ	70080751	Black	50PCS	375x195x225mm
	70080747	White		
T3/XJ	70080752	Black	25PCS	360x220x175mm
	70080748	White		

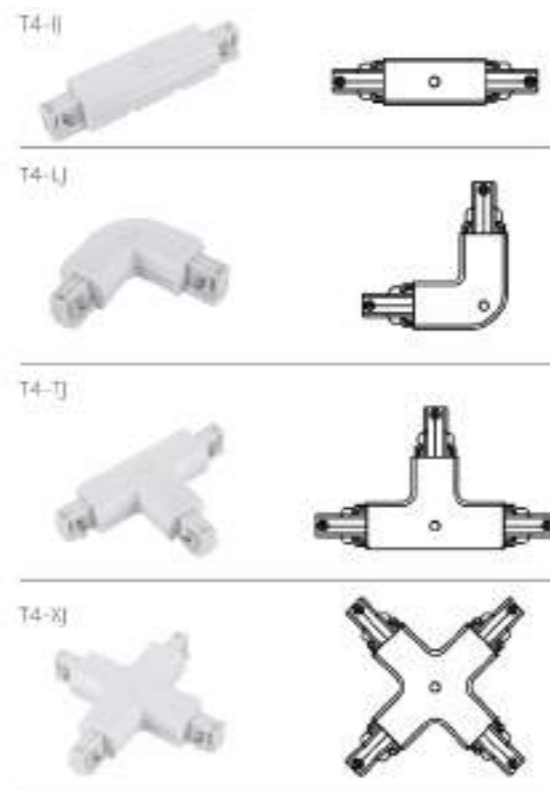
Accessory track-4wire

Single circuit track + accessories



Black

Semi white



FEATURES AND SPECIFICATION

- Four copper wires (conductors), secured in an insulating (polycarbonate)retainer
- The configuration of the live and neutral connectors prevents any connection either with another connector(listed below)or an NVC light fitting with reversed polarity
- Aluminium body, powder coated in white or black
- Available in three lengths of 1m, 1.5m and 2m
- Uniform surface and interior colour(black or white)

Single circuit track

- Live and dead ends included with each length of track
- Available in three lengths: 1m, 1.5m or 2m
- Four joining accessories are available to give I,L,T and X installations, as listed below
- Material: PMMA(Polymethyl methacrylate)

Model	Part Number	Colour	QTY/CNT	CTN Dimensuon
T4/1M	70080547	Black	10PCS	1030x185x95mm
	70080541	White		
T4/1.5M	70080548	Black		
	70080542	White		
T4/2M	70080549	Black		2030x190x83mm
	70080543	White		
T4/IJ	70080757	Black	50PCS	375x195x225mm
	70080753	White		
T4/LJ	70080758	Black	50PCS	375x195x225mm
	70080754	White		
T4/TJ	70080759	Black	30PCS	375x195x225mm
	70080755	White		
T4/XJ	70080760	Black	20PCS	370x235x220mm
	70080756	White		

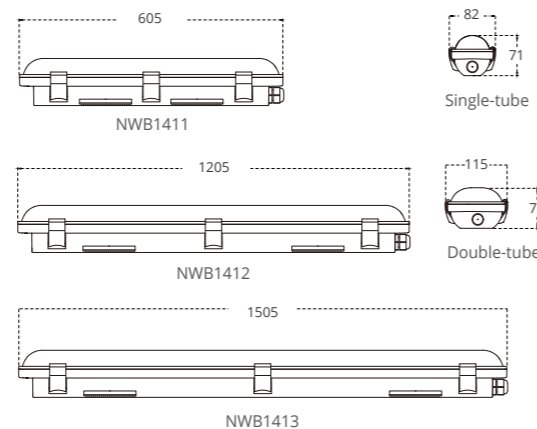
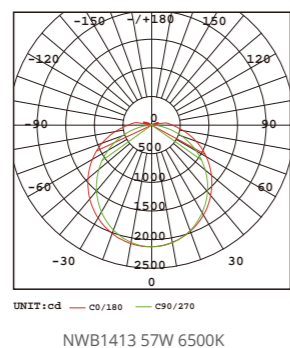
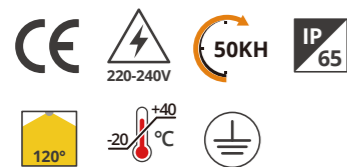


LED Industrial Light



NWB141

LED Waterproof Batten



FEATURES

- PC housing and opal PC diffuser
- Can be suspended from wire/ chain using clips provided Reinforced drill points in base for direct surface fixing or conduit suspension
- Choice of the emergency power driver supply, motion sensor and dimmable driver supply versions make to order

PRODUCT BENEFITS

- High lumen efficiency up to 130lm/w and uniform luminous effect
- Long lifetime of up to 50,000 hours
- Excellent heat dissipation performance
- Durable and sturdy housing
- Resistant to impact and many chemical agents

TECHNICAL DETAILS

- SMD LEDs
- IP65 and IK08 ratings
- CRI ≥80
- CCT available:4000K/6500K

APPLICATIONS

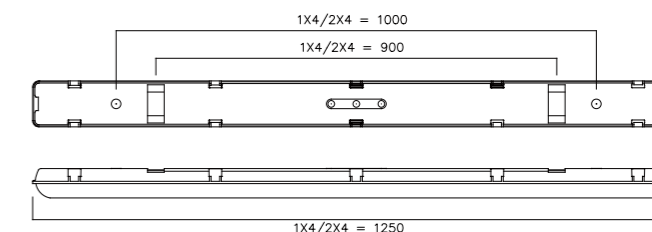
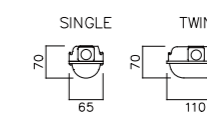
- Industry
- Garages
- Workshops
- Food preparation areas
- External under-canopy use
- Warehouse
- Car Parks

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NWB1411 17W (Single-tube)	87001637/38	220-240V	17W	4000K 6500K	2210 lm	130	80	120°	≥0.9	50000hrs
NWB1411 22W (Double-tube)	87001639/40		22W		2860 lm					
NWB1412 22W (Single-tube)	87001641/42		22W		2860 lm					
NWB1412 40W (Double-tube)	87001643/44		40W		5200 lm					
NWB1413 36W (Single-tube)	87001645/46		36W		4680 lm	123				
NWB1413 57W (Double-tube)	87001647/48		57W		7010 lm					
NWB1412 22W (Single-tube emergency light)	87001649/50		22W		2860 lm					
NWB1412 40W (Double-tube emergency light)	87001651/52		40W		5200 lm	130				
NWB1413 36W (Single-tube emergency light)	87001653/54		36W		4680 lm					
NWB1413 57W (Double-tube emergency light)	87001655/56		57W		7010 lm					
NWB1412 40W (Double-tube sensor light)	87001657/58		40W		5200 lm	123				
NWB1413 57W (Double-tube sensor light)	87001659/60		57W		7010 lm					



CLEVELAND

Polycarbonate IP65 weather-proof fitting



L70 50,000 SDCM <5

TECHNICAL DETAILS

- Single & twin rows of SMD LEDs on metal core PCB
- 1,250mm (4ft)
 - Single 23W, 2,915 lm, 125 l.lm/c.w
 - Twin 38W, 4,845 lm, 126 l.lm/c.w
- CRI >80
- CCT 4000/6500K
- Branded ENEC approved flicker free driver

PRODUCT BENEFITS

- High lumen efficiency up to 130lm/w and uniform luminous effect
- Long lifetime of up to 50,000 hours
- Excellent heat dissipation performance
- Durable and sturdy housing
- Resistant to impact and many chemical agents

CONSTRUCTION

- Polycarbonate base and opal diffuser
- Grade 316 stainless steel clips
- Aluminium heat-sink
- Stainless steel surface mounting clips
- Can also be suspended from wire/chain using clips provided

APPLICATIONS

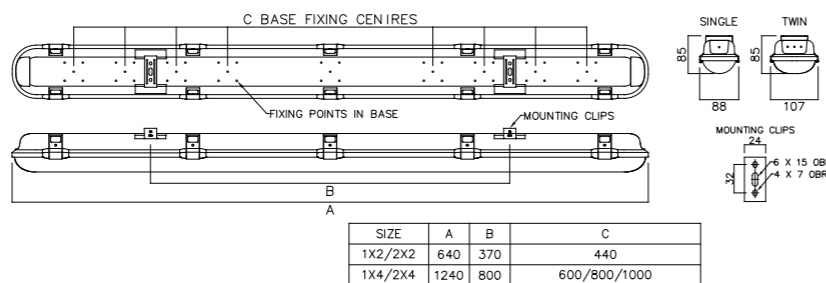
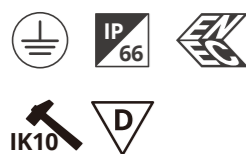
- Industry, garages & workshops
- Food preparation areas
- Resistant to impact and many chemical agents, but for suitability in specific environments please take specialist advice.

Model	Part Number	CCT	DESCRIPTION
NCV1X4/840	87003308	4000K	Cleveland LED Single 4Ft IP65 Non Corrosive 840
NCV2X4/840	87003309		Cleveland LED Twin 4Ft IP65 Non Corrosive 840
NCV1X4/865	87003312	6500K	Cleveland LED Single 4Ft IP65 Non Corrosive 865
NCV2X4/865	87003313		Cleveland LED Twin 4Ft IP65 Non Corrosive 865



GREENLAND

Premium polycarbonate IP66 weather-proof, non-corrosive fitting with dimming and sensor options



TECHNICAL DETAILS

- Single & twin rows of LEDs
- 640mm (2ft)
 - Single 9.5W, 1,140 lm, 120 l.lm/c.W
 - Twin 17W, 2,128 lm, 123 l.lm/c.W
- 1,240mm (4ft)
 - Single 28W, 3,400 lm, 121 l.lm/c.W
 - Twin 45W, 6,370 lm, 140 l.lm/c.W
- CRI>80
- CCT 4000/6500K
- Branded ENEC approved flicker free driver

CONSTRUCTION

- Polycarbonate base and opal diffuser
- Grade 316 stainless steel clips
- Reinforced drill points in base for direct surface fixing, or conduit suspension.
- Stainless steel surface mounting clips
- Can also be suspended from wire/chain using clips provided

APPLICATIONS

- Industry, garages & workshops
- Food preparation areas
- Non-emergency versions rated to -20°C (M3 versions rated to 0oC)
- Resistant to impact and many chemical agents, but for suitability in specific environments please takespecialist advice.
- External under-canopy use

Model	Part Number	CCT	DESCRIPTION
NGN1X2/840	87003314	4000K	Greenland LED V2 Single 2Ft 840
NGN2X2/840	87003315		Greenland LED V2 Twin 2Ft 840
NGN1X4/840	87003316		Greenland LED V2 Single 4Ft 840
NGN2X4/840	87003317		Greenland LED V2 Twin 4Ft 840
NGN1X2/865	87003318	6500K	Greenland LED V2 Single 2Ft 865
NGN2X2/865	87003319		Greenland LED V2 Twin 2Ft 865
NGN1X4/865	87003320		Greenland LED V2 Single 4Ft 865
NGN2X4/865	87003321		Greenland LED V2 Twin 4Ft 865

GREENLAND

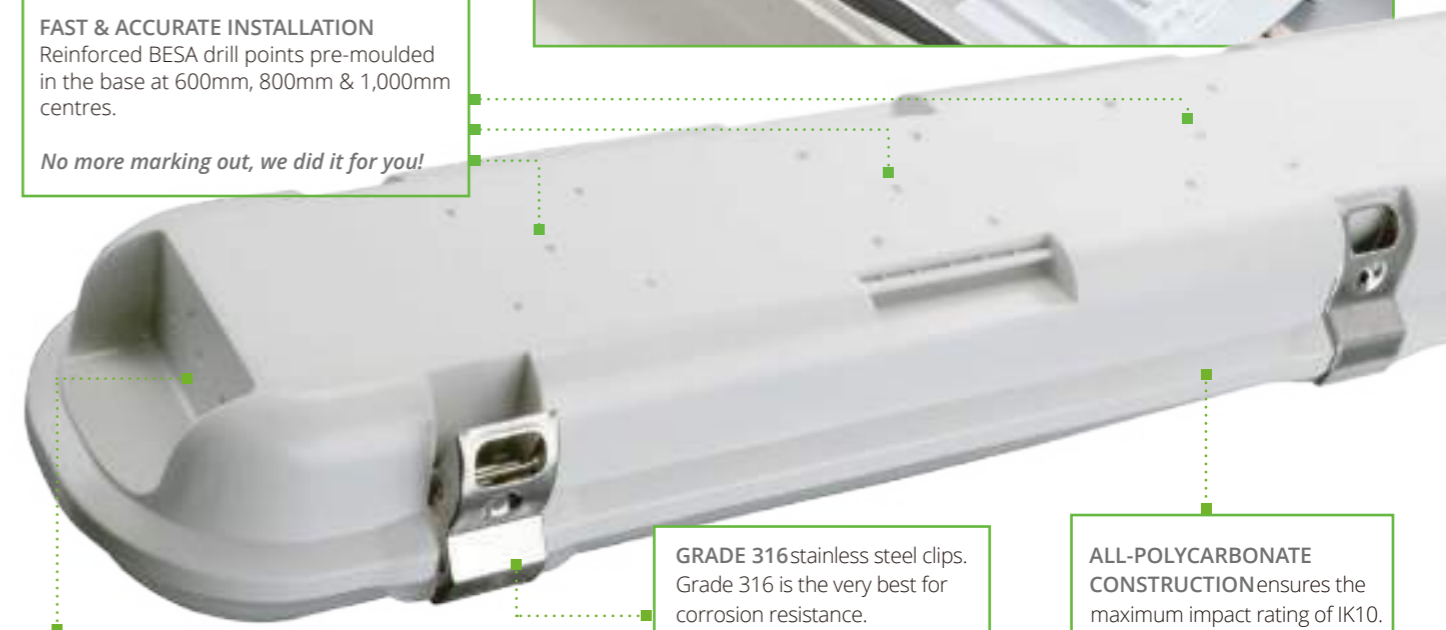
Easy installation features

FLICKER FREE ENEC APPROVED LED DRIVER.

SCREWLESS TERMINAL BLOCK for 2 x 2.5mm² for loop-in/loop-out wiring.



FAST & ACCURATE INSTALLATION
Reinforced BESA drill points pre-moulded in the base at 600mm, 800mm & 1,000mm centres.
No more marking out, we did it for you!



GRADE 316 stainless steel clips. Grade 316 is the very best for corrosion resistance.

ALL-POLYCARBONATE CONSTRUCTION ensures the maximum impact rating of IK10.

Many brands supply a cable gland fitted – but most cable entry is from the rear, so you waste time removing the glands. We supply an IP66 gland, but it is loose, not fitted.

GOOD GLARE CONTROL. Ribbed internal surface of the controller gives good glare control.

EASY TO CLEAN. Smooth external surface is easy to keep clean.

GOOD THERMAL MANAGEMENT. LEDs on a metal core PCB, mounted on an aluminium heat sink for good thermal management and long-life.

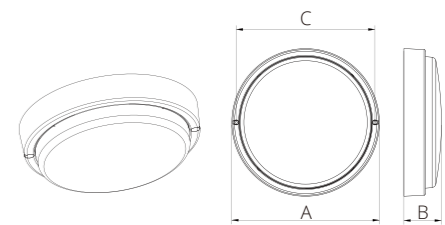
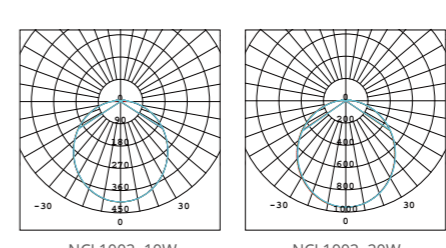
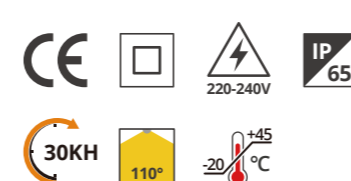




LED Ceiling Light

NCL1002

Bulkhead Series - Waterproof Ceiling Light



Watts	A	B	C
10W	220	65	204
20W	280	71	263
30W	350	81	332

FEATURES

- Independent IP65 waterproof box design, without removing interior structure of the fixture
- High strength housing material, not easy to deformation and oxidize

PRODUCT BENEFITS

- Maintenance-free due to long lifetime and solid housing material
- High IP rate up to IP65 for harsh applications
- High efficacy to save more energy

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- CCT available 3000K/4000K/6500K
- Full optical configuration, power coverage industry scene
- High lumen efficiency up to 130lm/w

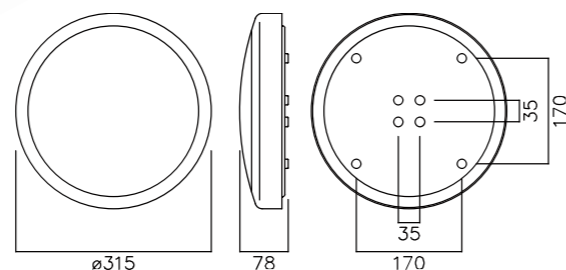
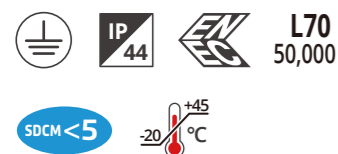
APPLICATIONS

- Industry
- Corridors
- Warehouse
- Car Park

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NCL10021	87001665/66/67	220-240V	10W	3000K/4000K/6500K	1300 lm	130	80	110°	0.5	30000hrs
NCL10022	87001668/69/70		20W	3000K/4000K/6500K	2600 lm				0.9	
NCL10023	87001671/72/73		30W	3000K/4000K/6500K	3900 lm				0.9	

PAXFORD

IP44 decorative bulkhead fitting for commercial indoor areas



TECHNICAL DETAILS

- 13.3W, 1,082 lm, 81 l.lm/c.W
- CRI >80
- CCT available: 4000/6500K

FEATURES

- Polycarbonate base and bezel
- Opal polycarbonate diffuser

APPLICATIONS

- Maintenance-free due to long lifetime and sold housing material
- IP44 rating for outdoor use

Model	Part Number	CCT	DESCRIPTION
NPX/WH/840	87003369	4000K	Paxford LED Bulkhead IP44 White Opal 840
NPX/WH/865	87003370	6500K	Paxford LED Bulkhead IP44 White Opal 865

PORTLAND

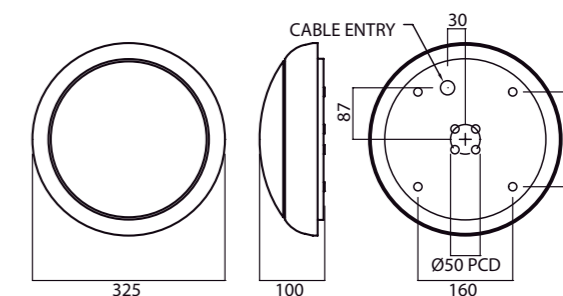
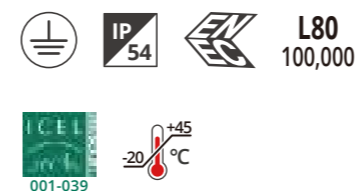
CCT selectable IP54 decorative bulkhead fitting for commercial indoor areas



CCT SELECTABLE 4000K/5000K



AVAILABLE WITH MICRO-WAVE SENSOR FITTED



TECHNICAL DETAILS

- Two wattages available:
 - 15W nom., 16.7W act., 1,739 lm, 104 l.lm/c.W
 - 18W nom., 20W act., 2,057 lm, 103 l.lm/c.W
- CRI >80
- CCT selectable 4000K/6500K
- Branded ENEC approved, flicker free, LED driver

CONSTRUCTION

- Polycarbonate base and bezel
- Opal polycarbonate diffuser
- Available with either a white bezel (WH) or chrome bezel (CH), as listed

APPLICATIONS

- Maintenance-free due to long lifetime and sold housing material
- IP54 rating for outdoor use

Model	Part Number	CCT	DESCRIPTION
NPO15/WH/O/840-865	87003371	CCT SELECTABLE 4000K & 6500K	Portland 15W LED IP54 White Opal 840-865
NPO15/CH/O/840-865	87003372		Portland 15W LED IP54 Chrome Opal 840-865
NPO18/WH/O/840-865	87003373		Portland 18W LED IP54 White Opal 840-865
NPO18/CH/O/840-865	87003374	CCT SELECTABLE 4000K & 6500K + MW SENSOR	Portland 18W LED IP54 Chrome Opal 840-865
NPO15/WH/O/MW/840-865	87003375		Portland 15W LED IP54 White Opal MW 840-865
NPO15/CH/O/MW/840-865	87003376		Portland 15W LED IP54 Chrome Opal MW 840-865
NPO18/WH/O/MW/840-865	87003377		Portland 18W LED IP54 White Opal MW 840-865
NPO18/CH/O/MW/840-865	87003378		Portland 18W LED IP54 Chrome Opal MW 840-865



LED Strip

NFS2835-1/2

High voltage LED strip light



FEATURES

- 2835 SMD LEDs: 6W 60 LEDs/m, 8W 120 LEDs/m
- 6W: 100 meters per roll (one driver included)
- 8W: 50 meters per roll (one driver included)

PRODUCT BENEFITS

- Easy to cut and install
- Complete installation accessories optional for easy connection
- High lumen output per meter to provide sufficient atmosphere light
- IP 65 rating for outdoor use
- Seamless light effect and no dark area between connections

TECHNICAL DETAILS

- Flexible PVC casing, good light transmission and odor-free
- Good stability copper substrate
- Great electrical conductivity copper wire strong tensile resistance
- Anti-dead LEDs design: A dead LED bead will not cause others and obvious dark areas

APPLICATIONS

- Shopping mall
- Hotel
- Home
- Cove lighting

OPTIONS

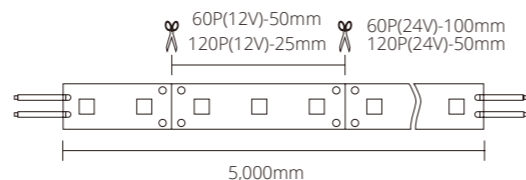
- Four colour temperatures: 2700/3000/4000/6500K
- Accessories can be selected according to installation needs
- Can be cut every 1000mm

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NFS2835 60P IP65 220V 6W	87000916/17/18/19	220V	6W	2700K /3000K /4000K /6500K	230/250/250/250lm	41	80	120°	0.9	25000hrs
NFS2835 120P IP65 220V 8W	87000920/21/22/23		8W		480/500/500/500 lm	62				

Model	Part Number	Accessories
NFS2835 60P IP65 220V 6W	87001007	Mounting clip
	87001008	End-cap
	87001009	Easy middle connector
	87001920	220V High voltage LED driver
NFS2835 120P IP65 220V 8W	87001923	Mounting clip
	87001924	End-cap
	87001925	Easy middle connector
	87001926	220V High voltage LED driver

NFS2835-3/4 NFS5050-1

Slim & flexible LED strip lights



FEATURES

- Choice of SMD 2835 or 5050 LEDs 2835
- 2835 SMD LEDs:
 - 5W 60 LEDs/meter
 - 12W 120 LEDs/meter
- 5050 SMD LEDs:
 - 12W 60 LEDs/m (Three-cores SMD)
- Five meters per roll (driver is not included)

OPTIONS

- IP rating: Choice of IP 20 or IP65
- Four colour temperatures: 2700K/3000K/4000K/6500K

PRODUCT BENEFITS

- Easy to cut and install
- Complete installation accessories optional for easy connection
- High lumen output per meter to provide sufficient atmosphere light
- Seamless light effect and no dark areas between connections
- IP 20 and IP65 versions available to application in indoor and outdoor environment.

APPLICATIONS

- Shopping mall
- Hotel
- Home
- Cove lighting

TECHNICAL DETAILS

- Safe and reliable 12V/24V low voltages design, no risk of electric shock
- Double-sided film-coated copper substrate, good stability with 24V in 5 meters voltage drop is less than 1.5V
- The IP20 version: bare board + adhesive design, which is convenient to install and flexible in shape
- The IP65 version: environmentally friendly silicone casing, good water resistance, good flexibility, good light transmission and good yellowing resistance

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	Lifetime
NFS2835 60P IP20 12V 5W	87000924/25/26/27	DC12V	5W	2700K 3000K 4000K 6500K	400/450/450/450 lm	80	80	120°	25000hrs
NFS2835 60P IP65 12V 5W	87000928/29/30/31		5W		1100/1200 /1200/1200 lm	92			
NFS2835 120P IP20 12V 12W	87000932/33/34/35	12W	400/450/450/450 lm		80				
NFS2835 120P IP65 12V 12W	87000936/37/38/39	12W	1100/1200 /1200/1200 lm		92				
NFS2835 60P IP20 24V 5W	87000948/49/50/51	DC24V	5W		400/450/450/450 lm	80			
NFS2835 60P IP65 24V 5W	87000952/53/54/55		5W		1100/1200 /1200/1200 lm	92			
NFS2835 120P IP20 24V 12W	87000956/57/58/59	12W	900/900/960/960 lm	75					
NFS2835 120P IP65 24V 12W	87000960/61/62/63	12W							
NFS5050 60P IP20 12V 12W	87000940/41/42/43	DC12V	12W						
NFS5050 60P IP65 12V 12W	87000944/45/46/47	DC12V	12W						
NFS5050 60P IP20 24V 12W	87000964/65/66/67	DC24V	12W						
NFS5050 60P IP65 24V 12W	87000968/69/70/71	DC24V	12W						

Model	Part Number	Accessories
NFS2835-60P/120P IP65	87001005	Mounting clip
NFS5050 60P IP65	87001006	

* For driver options, please refer to page P72.





NFSCOB1

High-End COB Strip Light



FEATURES

- Flip chip technology based on flexible substrate led chips, makes the light ultra-high reliability, flat surface, faster heat transfer and longer lifespan
- Flexibility, easier to bend and decrease the risk of damaging the strip or the LEDs
- Continuous light lines without and dark spots

PRODUCT BENEFITS

- Easy to cut and install
- High lumen output per meter to provide sufficient atmosphere light
- IP 20 to use indoor

TECHNICAL DETAILS

- Efficacy up to 92 lm/w
- 140° beam angles
- Four colour temperatures: 2700K/3000K/4000K/6500K
- Operating temperatures:-20 to 40°C

APPLICATIONS

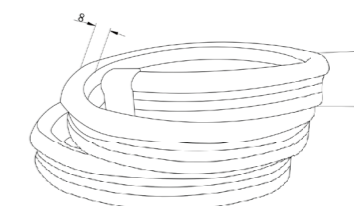
- Decorative lighting
- Cove lighting

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	Lifetime
NFSCOB1IP20 12W	87001420/21/22/23	DC24V	12W	2700K /3000K /4000K /6500K	1100/1200 /1200/1200 lm	92	90	140°	30000hrs

* For driver options, please refer to page P72.

NFSFSG1

LED Soft Strip Light (Waterproof)



FEATURES

- Silicone housing, better flexibility, easier to bend and decrease the risk of damaging the strip or the LEDs
- Continuous light lines without any dark spots

PRODUCT BENEFITS

- Flexible and easier to bend to meet project design requirement
- Seamless light effect and no dark areas between connections
- IP65 to use in outdoor environment.

TECHNICAL DETAILS

- 150° beam angles
- Four colour temperatures: 2700K/3000K/4000K/6500K
- IP65 waterproof rating
- Operating temperatures:-20 to 40°C

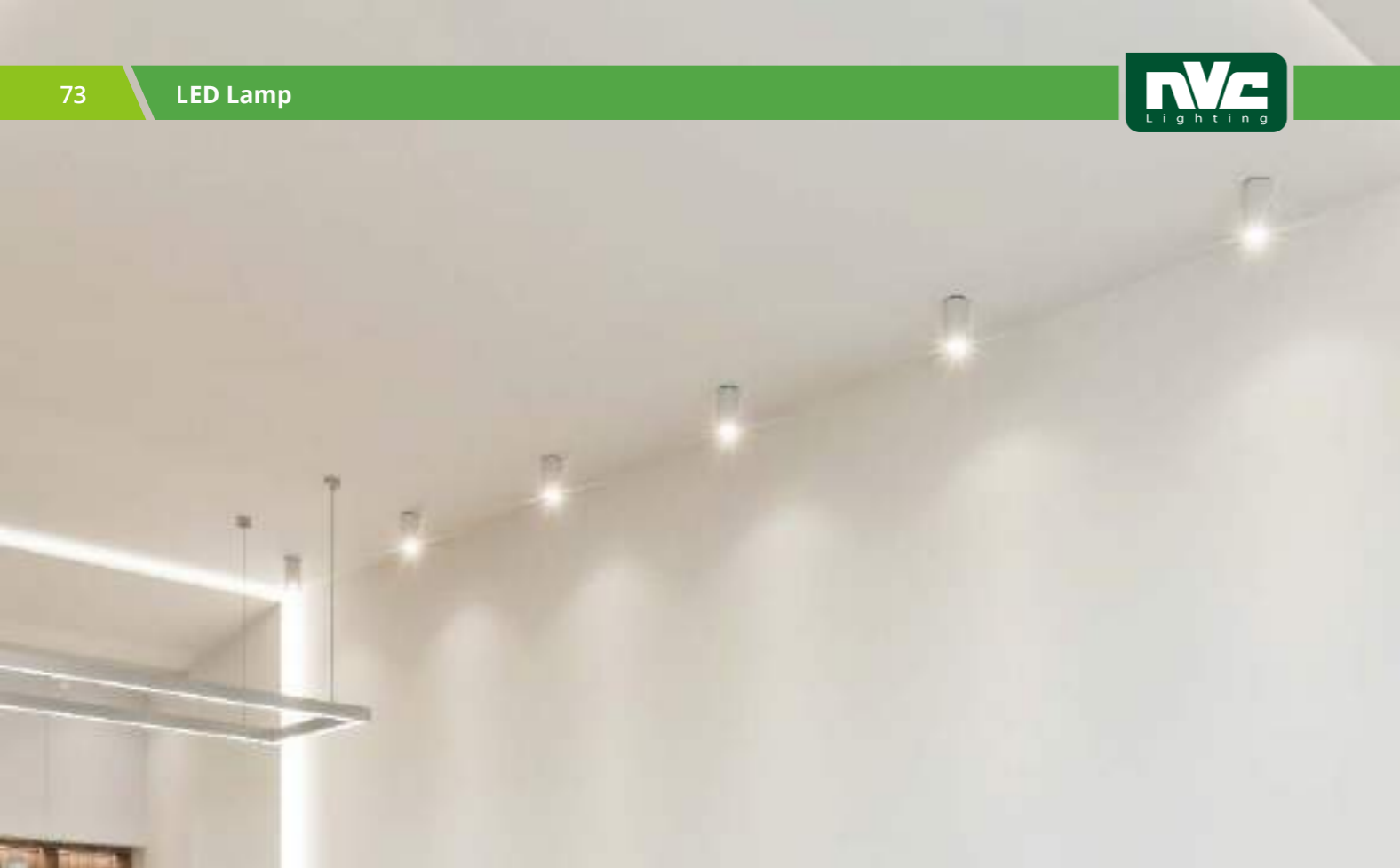
APPLICATIONS

- Facade
- Highlight architectural feature
- Corridor and walkway
- Decorative garden lighting

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	Lifetime
NFSFSG1IP65 10W	87001416/17/18/19	DC24V	10W	2700K /3000K /4000K /6500K	180 lm	80	150°	30000hrs

*Driver options for NFS2835-3-4 / NFS5050-1/NFSCOB1/NFSFSG1

Model	Part Number	Input Voltage	Power(W)	Size(mm)	Output Voltage	Output Current
DV1000-030W-DC12V IP20	87002020	220-240V	30W	L90*W35*H24	12V	2.5A
DV1000-040W-DC12V IP20	87001661		40W	L134*W35*H24		3.3A
DV1000-060W-DC12V IP20	87001662		60W	L170*W35*H24		5A
DV1000-100W-DC12V IP20	87002023		100W	L135*W49*H30		8.3A
DV1000-150W-DC12V IP20	87002024		150W	L145*W49*H30		12.5A
DV1000-200W-DC12V IP20	87002025		200W	L195*W49*H30		16.6A
DV1000-300W-DC12V IP20	87002027		300W	L258*W49*H30	25A	
DV1000-030W-DC24V IP20	87002021		24V	30W	L90*W35*H24	1.25A
DV1000-060W-DC24V IP20	87002022			60W	L170*W35*H24	2.5A
DV1000-100W-DC24V IP20	87001663			100W	L135*W49*H30	4.2A
DV1000-150W-DC24V IP20	87001664	150W		L145*W49*H30	7A	
DV1000-200W-DC24V IP20	87002026	200W		L195*W49*H30	8.33A	
DV1000-300W-DC24V IP20	87002028	300W		L258*W49*H30	12.5A	



LED Lamp



LED-AN Economical LED bulb

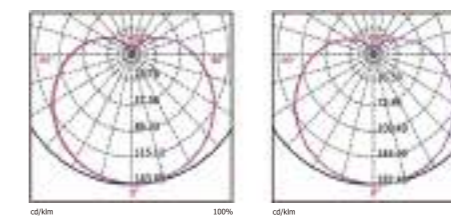
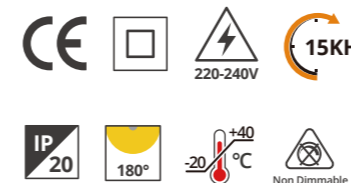


A50
3W/5W

A60
7W/9W

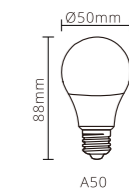
A60
12W

A65
15W

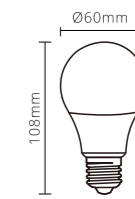


LED A60N 9W 180°

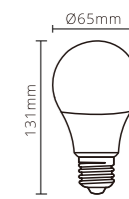
LED A60N 12W 180°



A50



A60



A65

FEATURES

- Plastic coated aluminium housing
- Built-in constant current LED driver

PRODUCT BENEFITS

- Perfect replacement of traditional incandescent and CFL lamps
- Energy saving up to 80%
- 3 sizes to use in various applications

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥80
- Beam angle : 180°
- CCT available: 3000K/6500K

APPLICATIONS

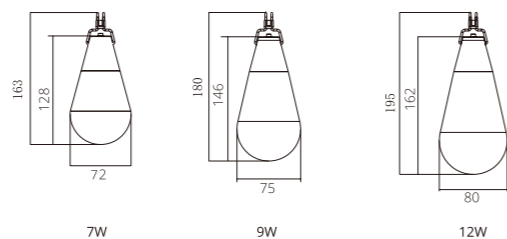
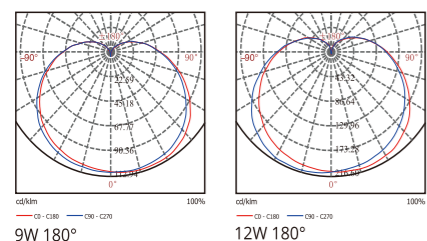
- For use in fittings with E27 lampholders
- To replace incandescent and CFL lamps

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
LED A50N 3W	87000144/43	220-240V	3W	3000K 6500K	260 lm	87	80	180°	≥0.5	15000hrs
LED A50N 5W	87000146/45		5W		420 lm	84				
LED A60N 7W	87000310/980		7W		600 lm	86				
LED A60N 9W	87000148/47		9W		800 lm	89				
LED A60N 12W	87000150/49		12W		1100 lm	92				
LED A65N 15W	87000312/982		15W		1380 lm					



LED A-EM

Emergency LED Light bulb



FEATURES

- PC diffusion cover
- E27 base
- LED driver included
- Flicker free built-in LED driver

PRODUCT BENEFITS

- Use for emergency situations
- Long working hours up to 3 hours
- Long life time of up to 25,000hrs
- Suspension kit with hook to use anywhere you want

TECHNICAL DETAILS

- SMD LEDs
- CRI>80
- Battery capacity: 7/9W 1200mah/12W 1500mah
- CCT available:3000K/4000K/6500K
- Provides up to 3 hours of uninterrupted light (200lm-250lm)
- Efficiency up to 90 lm/W

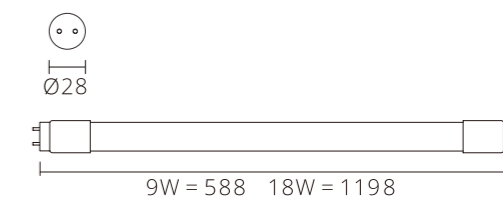
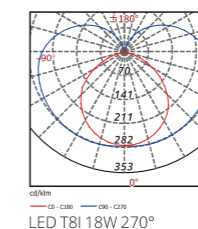
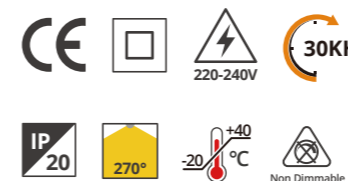
APPLICATIONS

- For power failure
- Stall booth

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
LED A70-EM 7W	87001024/25/26	220-240V	7W	3000K 4000K 6500K	700 lm	100	80	180°	≥0.7	25000hrs
LED A75-EM 9W	87001027/28/29		9W		810 lm	90				
LED A80-EM 12W	87001030/31/32		12W		1140 lm	95				

LED T8*

Standard LED tubes for general lighting



FEATURES

- Tube material: Glass
- Slim led tubes: Wider beam angles
- Built in constant current LED driver included
- Suitable for double ended batters, single ended version (optional)

PRODUCT BENEFITS

- Easy installation with rewiring needed
- Wide light distribution to provide more even light in the space
- Sufficient lumen level to replace traditional fluorescent tubes

TECHNICAL DETAILS

- SMD 2835 LEDs
- CRI>80
- CCT available: 3000K/4000K/6500K

APPLICATIONS

- Ideal solution for replacement of traditional fluorescent tubes in school, offices, supermarkets and rail stations

NOTE

- Not suitable for use in sealed fittings

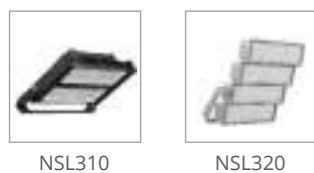
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
LED T8IS 18W	87003456	220-240V	18W	3000K	1800 lm	100	80	270°	≥0.5	15000hrs
	87003457			4000K						
	87003458			6500K						
LED T8IS 9W	87003459	220-240V	9W	3000K	900 lm	100	80	270°	≥0.5	15000hrs
	87003460			4000K						
	87003461			6500K						
LED T8E 18W	70060239	110-240V	18W	3000K	1800 lm	100	80	270°	≥0.9	30000hrs
	70060240			4000K						
	70060241			6500K						
LED T8E 9W	70060235	110-240V	9W	3000K	900 lm	100	80	270°	≥0.9	30000hrs
	70060236			4000K						
	70060237			6500K						

OUTDOOR

79-92 LED Flood Light



93-95 LED Stadium/Sport/Golf Light



96-102 LED In-Ground Light



103-106 LED Underwater Light



107-122 LED Wall Light



123-130 LED Bollard Light



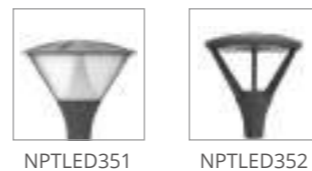
131-133 LED Canopy Light



134-140 LED Industrial High/Low bay Light



141-143 LED Post-top Light



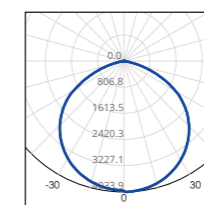
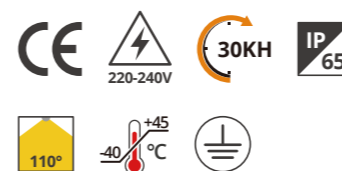
144-147 LED Street Light



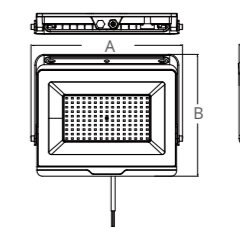


LED Flood Light

NFD271



NFD271 100W



Watts	A	B	C
30W	158	127	29
50W	203	178	29
70W/100W	287	231	38
150W	343	250	40

FEATURES

- Die-cast aluminum housing with powder coating
- Reflector material: nanometre PC (pass over 650°C glow wire) with tempered glass (4mm±0.2mm)

PRODUCT BENEFITS

- High lumen efficiency
- Long lifetime of up to 30,000 hours
- Excellent heat dissipation performance
- Die-cast aluminum housing
- Bracket included for easy mounting onto the wall
- Up to 16,500lm for commercial and industrial use

TECHNICAL DETAILS

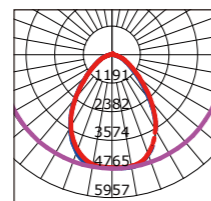
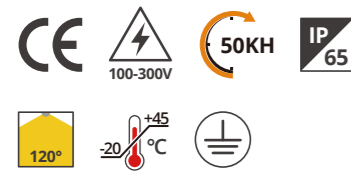
- 2835 LEDs
- CRI ≥80
- CCT available: 4000K/6500K
- Operation Temperature: -40°C-45°C

APPLICATIONS

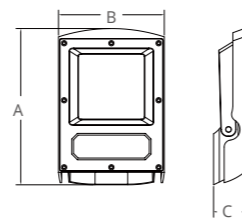
- Security lighting
- Landscape areas
- Sports facilities
- Industrial premises
- Building facades

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NFD271	87003250	220-240V	30W	4000K	3300lm	110	80	110°	0.9	30000hrs
	87003260			6500K						
	87003251		50W	4000K	5500lm					
	87003261			6500K						
	87003252		70W	4000K	7700lm					
	87003262			6500K						
	87003253		100W	4000K	11000lm					
	87003263			6500K						
87003254	150W	4000K	16500lm							
87003264		6500K								

NFD316



NFD316 100W



Watts	A	B	C
30W	177	120	35
50W	200	140	35
70W/100W	306	220	35
150W	347	250	35

FEATURES

- Die-cast aluminum housing with Powder coating
- Working voltage: 100-300V
- Large light-emitting area
- Slim housing design

PRODUCT BENEFITS

- High lumen efficiency
- Long lifetime of up to 50,000 hours
- Excellent heat dissipation performance
- Bracket is included for easy mounting onto the wall
- Up to 15,000lm for commercial and industrial use

TECHNICAL DETAILS

- 2835 LEDs
- CRI ≥80
- CCT Available:4000K/6500K
- Operation Temperature: -20°C~45°C

APPLICATIONS

- Security lighting
- Landscape areas
- Sports facilities
- Industrial premises
- Building facades

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NFD316	87003255	100-300V	30W	4000K	3000lm	100	80	120°	0.95	50000hrs
	87003265			6500K						
	87003256		50W	4000K	5000lm					
	87003266			6500K						
	87003257		70W	4000K	7000lm					
	87003267			6500K						
	87003258		100W	4000K	10000lm					
	87003268			6500K						
87003259	150W	4000K	15000lm							
87003269		6500K								

NFDLED251

COB LED flood light

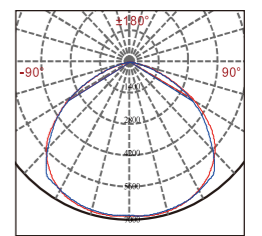


CONSTRUCTION

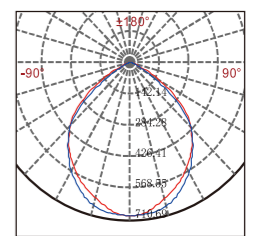
- Die-cast aluminium housing
- Aluminium 6063 reflector
- Powder coated surface treatment
- Driver included
- Complete with a IP65 cable gland, and pre-wired 3x1.0mm2 H05RN
- Weight and windage:
 - 20W, 0.83kg, 0.03m2
 - 40W, 1.92kg, 0.07m2
 - 60W and 80W, 2.67kg, 0.08m2
 - 100W, 3kg, 0.1m2
 - 160W, 5.12kg, 0.18m2
 - 200W, 7kg, 0.24m2

PRODUCT BENEFITS

- Multiple color temperature options: 3000K/4000K/6500K
- Different lumen level options from 1500lm up to 20330lm to meet various project requirements.
- IP65 and solid housing to be applicable in harsh applications.
- PIR sensor option available to for safety use and more energy saving
- Long lifetime of up to 50,000hrs, maintenance-free
- Wide range of applications in outdoors buildings or places



NFDLED251 200W



NFDLED251 20W

TECHNICAL DETAILS

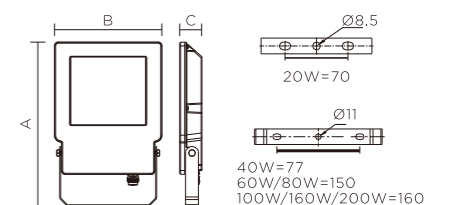
- COB LEDs
- CRI≥80
- CCT available:3000K/4000K/6500K

APPLICATIONS

- Area lighting
- Wall washing
- Driveway lighting
- Security lighting
- Landscape lighting

OPTIONS

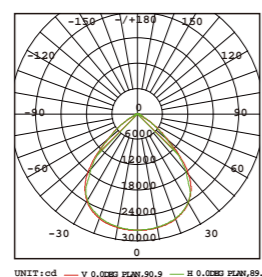
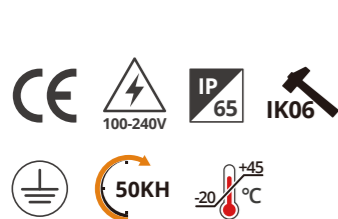
- Sensor: Optional PIR sensor



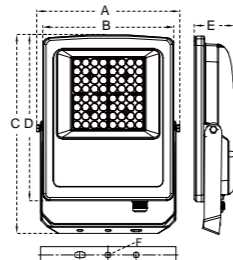
Watts	A	B	C
20W	228	149	42
40W	331	217	45
60/80W	365	245	52
100W	369	275	52
160W	439	303	60
200W	592	376	67

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NFDLED251 20W	70077849/850/851	110-240V	20W	3000K 4000K 6500K	1500 lm	75	80	110°	0.9	50000hrs
NFDLED251 40W	70077852/853/854	110-240V	40W		3200 lm	80				
NFDLED251 60W	70077855/856/857	110-240V	60W		5400 lm	90				
NFDLED251 80W	70077858/859/860	110-240V	80W		7200 lm	90				
NFDLED251 100W	70083521/522/523	110-240V	100W	3000K 4000K 6000K	9000 lm	90	80	110°	0.9	50000hrs
NFDLED251 160W	70083524/525/526	220-240V	160W	15660 lm	98					
NFDLED251 200W	70083527/528/529	220-240V	200W	20330 lm	102					

NFL258S



NFL258S 300W 5700K



10W=60
30/50W=80
100/150W=150
200/300W=180

	A	B	C	D	E	F
10W	131	116	176	140	39	φ8.5
30W	176	160	219	183	42	φ8.5
50W	203	186	283	236	57	φ8.5
100/150W	265	245	368	320	64	φ11
200W	356	336	435	380	72	φ11
300W	427	387	503	455	78	φ14

CONSTRUCTION

- Die-cast aluminium housing
- Aluminium 6063 reflector
- Powder coated surface treatment
- Driver included
- Complete with a IP65 cable gland, and pre-wired 3x1.0mm2 H05RN
- Weight and windage:
 - 20W, 0.83kg, 0.03m2
 - 40W, 1.92kg, 0.07m2
 - 60W and 80W, 2.67kg, 0.08m2
 - 100W, 3kg, 0.1m2
 - 160W, 5.12kg, 0.18m2
 - 200W, 7kg, 0.24m2

PRODUCT BENEFITS

- High lumen efficiency up to 140lm/w
- Long lifetime of up to 50,000hrs
- Excellent heat dissipation
- IP65 and solid housing to be applicable in harsh applications
- Best lumen output and design for industrial and commercial use

TECHNICAL DETAILS

- COB LEDs
- CRI ≥80
- CCT Available:3000K/6000K
- Operation Temperature: -20°C~45°C

APPLICATIONS

- Area lighting
- Wall washing
- Driveway lighting
- Security lighting
- Landscape lighting

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NFL258S 10W	87001568/69	100-240V	10W	3000K 6000K	1300 lm	130	80	90° (selectable 30°/ 60° / 20°*100°)	0.9	50000hrs
NFL258S 30W	87001570/71		30W		3600 lm	120				
NFL258S 50W	87001572/73		50W		6500 lm	130				
NFL258S 100W	87001574/75	220-240V	100W	14000 lm	140	0.95				
NFL258S 150W	87001576/77		150W	21000 lm	140					
NFL258S 200W	87001578/79		200W	26000 lm	130					
NFL258S 300W	87001580/81	100-240V	300W	38000 lm	127					

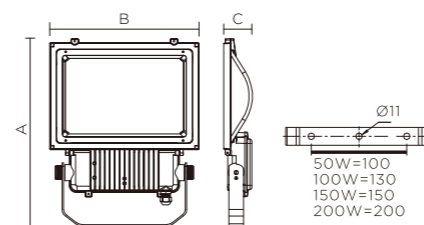
NFDLED253



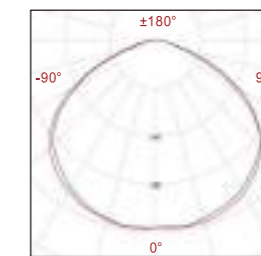
Optional PIR sensor

100W

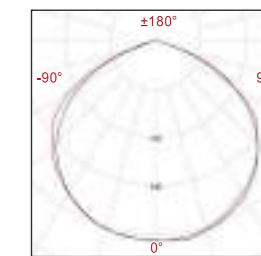
200W



Watts	A	B	C
50W	291	230	58
100W	381	312	62
150W	444	353	66
200W	515	420	87



NFDLED253 100W



NFDLED253 150W

CONSTRUCTION

- Die-cast aluminium housing
- 6063 Aluminium reflector
- Powder coated surface treatment(RAL9007)
- LED driver included
- Complete with a IP65 cable gland, and pre-wired 3x1.0mm2 H05RN
- Weight and windage:
 - 50W, 1.56kg, 0.06m2
 - 100W, 3.45kg, 0.12m2
 - 150W, 4.9kg, 0.16m2
 - 200W, 7.47kg, 0.22m2

TECHNICAL DETAILS

- COB LEDs
- CRI ≥80
- CCT available:4000K/6500k

OPTIONS

- Sensor: Optional PIR sensor

APPLICATIONS

- Area lighting
- Wall washing
- Driveway lighting
- Security lighting
- Landscape lighting

PRODUCT BENEFITS

- Multiple color temperature options: 4000K/6500K
- High lumen output level options to meet various projects requirements.
- IP65 and solid housing to be applicable in harsh applications.
- PIR sensor option available to for safety use and more energy saving
- Long lifetime of up to 30,000hrs, maintenance- free
- Wide range of applications in outdoors buildings or places

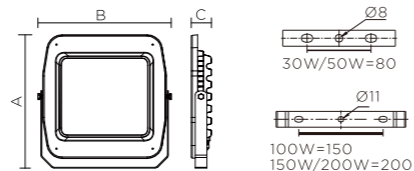
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NFDLED253 50W	70077558/59	110-240V	50W	4000K / 6500K	4920 lm	98	80	120°	0.95	30000hrs
NFDLED253 100W	70077561/62		100W		9250 lm	93				
NFDLED253 150W	70077564/65		150W		13560 lm	90				
NFDLED253 200W	70077567/68		200W		18650 lm	93				

NFDLED254

Slim and cost-effective LED flood light



30W



CONSTRUCTION

- Die-casting aluminium housing
- AC LED driver included
- Complete with a IP65 cable gland, and pre-wired 3x0.75mm² H05RN wire
- Weight and windage:
 - 30W, 0.86kg, 0.03m²
 - 50W, 1.12kg, 0.04m²
 - 100W, 2.79kg, 0.1m²
 - 150W, 3.5kg, 0.13m²
 - 200W, 4.7kg, 0.17m²

PRODUCT BENEFITS

- Multiple color temperature options: 3000K/4000K/6000K
- High lumen output level options to meet various projects requirements.
- IP65 and solid housing to be applicable in harsh applications.
- Long lifetime of up to 30,000hrs, maintenance- free
- Wide range of applications in outdoors buildings or places
- Cost-effective with slim solid design

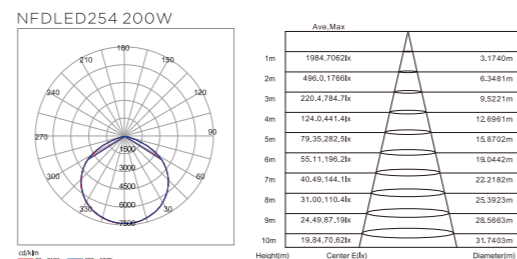
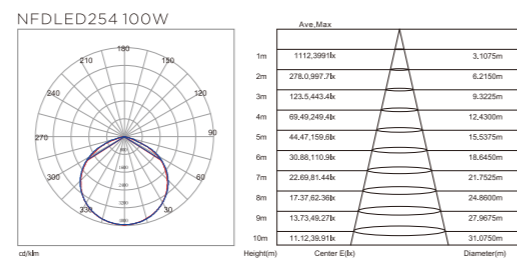
TECHNICAL DETAILS

- SMD LEDs
- CRI ≥70
- CCT available:3000K/4000K/6000K

Watts	A	B	C
30W	176	176	38
50W	208	208	45
100W	322	322	52
150W	364	364	57
200W	410	410	62

APPLICATIONS

- Landscape
- Wall washer
- Gardens



Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NFDLED254 30W	70083506/07/08	220-240V	30W	3000K / 4000K / 6000K	2780 lm	93	70	120°	0.95	30000hrs
NFDLED254 50W	70083509/10/11		50W		4900 lm	98				
NFDLED254 100W	70083512/13/14		100W		10000 lm	100				
NFDLED254 150W	70083515/16/17		150W		14690 lm	98				
NFDLED254 200W	70083518/19/20		200W		19700 lm	99				

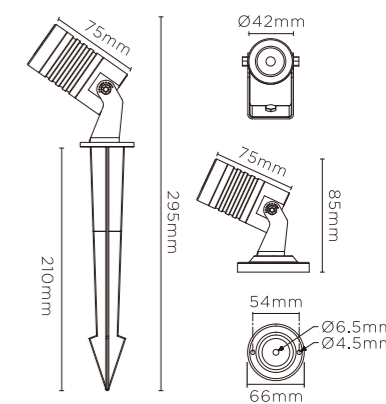
NFLED4011

Landscape flood light



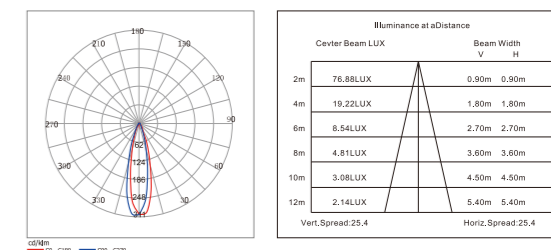
NFLED4011

NFLED4011-1



NFLED4011-1

NFLED4011



CONSTRUCTION

- Aluminium body with anodized finish
- Tempered glass 3mm thick
- LED driver included with 110-240V versions only
- Supplied complete mounting plate (for surface mounting) and spike (for ground mounting)

PRODUCT BENEFITS

- IP66 and solid housing to be applicable in harsh applications.
- Long lifetime of up to 35,000hrs, maintenance- free
- Easy mounting with spike or mounting plate for ground and surface mounting

APPLICATIONS

- Lawns and gardens
- Paths
- Driver: 110-240V versions supplied complete with built-in driver. For 24V versions, the driver must be ordered as a separate item

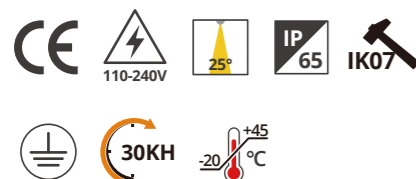
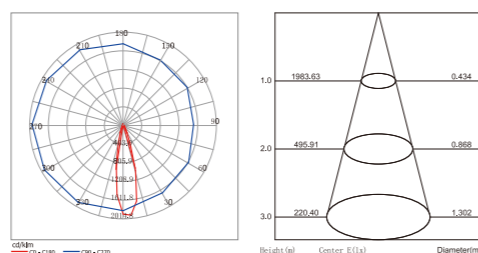
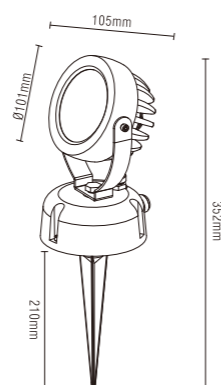
TECHNICAL DETAILS

- High power LEDs
- CRI ≥80
- CCT available:3000K/6000K
- Beam angle:30° (selectable 15°)

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NFLED4011	70067881	110-240V (selectable DC24)	3W	3000K	150 lm	80	30° (selectable 15°)	0.5	35000hrs
NFLED4011	87003391			6000K	160 lm				
NFLED4011-1	70068552			3000K	150 lm				
NFLED4011-1	87003392			6000K	160 lm				

NFLED5001

Landscape flood lights



CONSTRUCTION

- Die-cast aluminium housing
- Powder coated surface treatment
- Tempered glass
- LED driver included
- Complete with twin IP65 cable glands, and pre-wired with 3x1.0mm H05RN wire
- Supplied for spike mounting, supplied complete with spike
- Choice of three finishes:
 - Black (optional color)
 - Dark grey (similar to RAL 7037)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP65 and solid housing to be applicable in harsh applications.
- Long lifetime of up to 30,000hrs, maintenance- free
- Three finish colors available to be harmony with outdoor lighting designs
- Easy mounting with spike

TECHNICAL DETAILS

- High power LEDs
- CRI ≥80
- CCT available:3000K/6000K
- Beam angle:25°

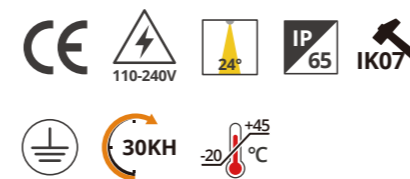
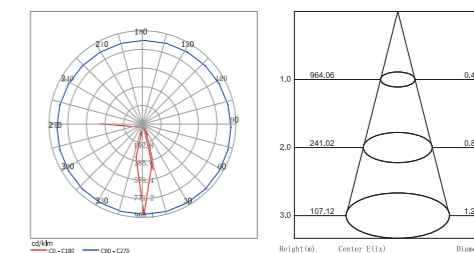
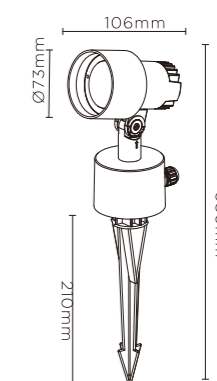
APPLICATIONS

- Lawns
- Paths
- Gardens

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NFLED5001 6W	87003387	110-240V	6W	3000K	492 lm	82	80	25°	0.5	30000hrs
NFLED5001 6W	87003388			6000K	552 lm	92				

NFLED5012

Landscape flood lights



CONSTRUCTION

- Die-cast aluminium housing
- Powder coated surface treatment
- Tempered glass
- LED driver included
- Complete with twin IP65 cable glands, and pre-wired with 3x1.0mm2 H05RN wire
- Supplied for spike mounting, supplied complete with spike
- Choice of three finishes:
 - Black (optional color)
 - Dark grey (similar to RAL 7037)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP65 and solid housing to be applicable in harsh applications.
- Long lifetime of up to 30,000hrs, maintenance- free
- Three finish colors available to be harmony with outdoor lighting designs
- Easy mounting with spike or mounting plate for ground and surface mounting

TECHNICAL DETAILS

- High power LED
- CRI ≥80
- CCT available:3000K/6000K
- Beam angle:24°

APPLICATIONS

- Lawns
- Paths
- Gardens

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NFLED5012 7W	87003389	110-240V	7W	3000K	316 lm	80	24°	0.5	30000hrs
NFLED5012 7W	87003390			6000K	348lm				

NFLED4012/NFLED4013

Landscape high power flood lights

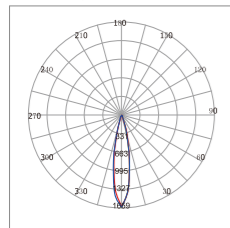


NFLED4012

NFLED4013



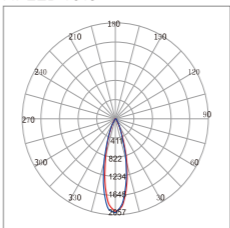
NFLED4012



Illuminance at a Distance			
Center Beam LUX	Beam Width V	Beam Width H	
2m 412.67LUX	0.7m	0.7m	
4m 103.17LUX	1.40m	1.40m	
6m 45.85LUX	2.10m	2.10m	
8m 25.79LUX	2.80m	2.80m	
10m 16.51LUX	3.50m	3.50m	
12m 11.46LUX	4.20m	4.20m	

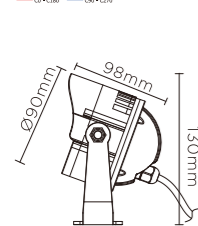
Vert. Spread: 19.7 Horiz. Spread: 19.3

NFLED4013

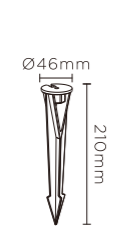


Illuminance at a Distance			
Center Beam LUX	Beam Width V	Beam Width H	
2m 501.48LUX	1m	1m	
4m 125.37LUX	2m	2m	
6m 55.72LUX	3m	3m	
8m 31.34LUX	4m	4m	
10m 20.06LUX	5m	5m	
12m 13.93LUX	6m	6m	

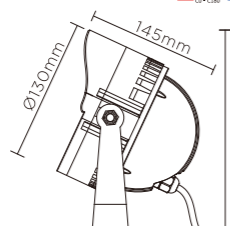
Vert. Spread: 28.2 Horiz. Spread: 27.9



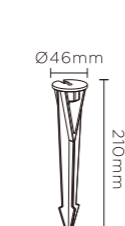
NFLED4012
Windage: 0,008m²
Weight: 0.9kg



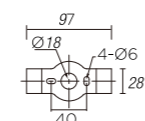
Spike
(Not included)



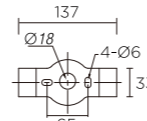
NFLED4013
Windage: 0,017m²
Weight: 1.7kg



Spike
(Not included)



NFLED4012

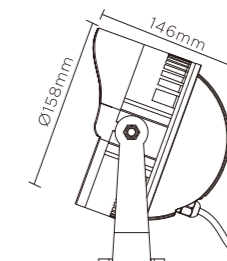


NFLED4013

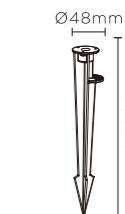
Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime	Accessories
NFLED4012	87003393	110-240V (selectable DC24)	6W	3000K	408 lm	80	30° (selectable 15°)	0.7	35000hrs	spike 210
NFLED4012	87003394			6000K	430 lm					
NFLED4013	87003395	13W	13W	3000K	1040 lm	80	30° (selectable 15°)	0.9	35000hrs	spike 210
NFLED4013	87003396			6000K	1100 lm					

NFLED4014

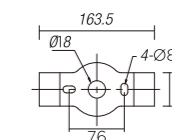
Landscape high power flood lights



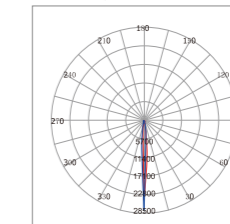
NFLED4014
Windage: 0,025m²
Weight: 2.4kg



Spike
(Not included)



NFLED4014



Illuminance at a Distance			
Center Beam LUX	Beam Width V	Beam Width H	
2m 6177.67LUX	0.2m	0.2m	
4m 1544.42LUX	0.5m	0.5m	
6m 666.41LUX	0.7m	0.7m	
8m 386.10LUX	1.0m	1.0m	
10m 247.11LUX	1.20m	1.20m	
12m 171.60LUX	1.40m	1.40m	

Vert. Spread: 6.9 Horiz. Spread: 6.7

CONSTRUCTION

- Die-cast aluminium housing
- Power coated aluminium bracket
- Tempered glass 4mm thick
- LED driver included with 110-240V versions only
- Mounting spike not include
- DC24V, driver not included, please refer to the driver section
- Choice of three finishes:
 - Dark grey (optional color)
 - Black (optional color)
 - Light grey (similar to RAL 7023)

PRODUCT BENEFITS

- IP65 and solid housing to be applicable in harsh applications.
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 35,000hrs, maintenance-free
- Easy mounting with bracket for surface mounting and spike optional for ground mounting

TECHNICAL DETAILS

- High power LEDs
- CCT available: : 3000K/6000K
- CRI≥80
- Beam angle:15°/30°

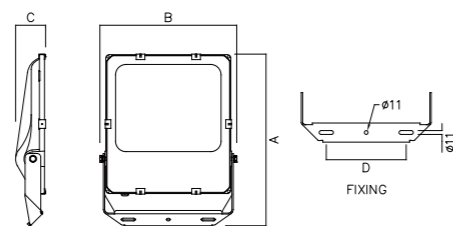
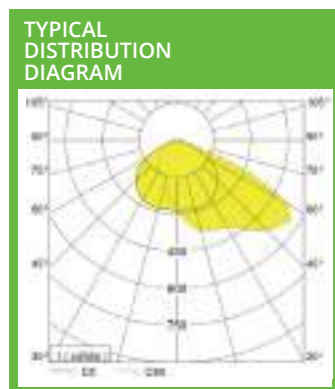
APPLICATIONS

- Lawns and gardens
- Paths
- Sculptures
- Driver: Choice of the built-in 110-240V driver or separate DC 24V IP65 driver (separate driver not included)

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NFLED4014	87003397	110-240V (selectable DC24)	18W	3000K	1600 lm	80	30° (selectable 15°)	0.9	35000hrs
NFLED4014	87003398			6000K	1700 lm				

LYNX

Premium IP66 aluminium diecast asymmetric floodlight



SIZE	A	B	C	D
50W	314	240	63	100-140
100W	418	330	77	130-190
150W	451	330	77	130-190
200W	494	395	87	200-260
300W	567	465	97	200-280

TECHNICAL DETAILS

- Asymmetric lens
- Available in five wattages:
 - 50W, 6,860 lm at 54W, 127 l.lm/cW
 - 100W, 13,970 lm at 104W, 135 l.lm/cW
 - 150W, 19,810 lm at 147W, 135 l.lm/cW
 - 200W, 26,640 lm at 206W, 129 l.lm/cW
 - 300W, 38,710 lm at 301W, 129 l.lm/cW
- CRI >70
- CCT 4000/6500K

CONSTRUCTION

- All variants IP66 rated
- Aluminium die-cast body enclosure
- 4mm toughened glass front panel.
- Castings & bracket painted black, fine sand texture finish (RAL9017)
- Pre-wired with 1.5m H05RN-F 3x1mm² flex
- Easy to install

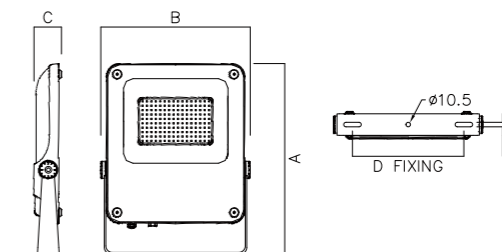
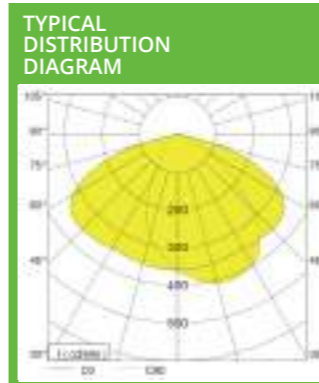
APPLICATIONS

- Fascias, building facades, sports facilities, industrial premises, area floodlighting, perimeter and security lighting

Model	Part Number	CCT	DESCRIPTION
NLX50/740	87003351	4000K	Lynx 50W IP66 LED Asymmetric Floodlight 740
NLX100/740	87003352		Lynx 100W IP66 LED Asymmetric Floodlight 740
NLX150/740	87003353		Lynx 150W IP66 LED Asymmetric Floodlight 740
NLX200/740	87003354		Lynx 200W IP66 LED Asymmetric Floodlight 740
NLX300/740	87003355		Lynx 300W IP66 LED Asymmetric Floodlight 740
NLX50/765	87003356	6500K	Lynx 50W IP66 LED Asymmetric Floodlight 765
NLX100/765	87003357		Lynx 100W IP66 LED Asymmetric Floodlight 765
NLX150/765	87003358		Lynx 150W IP66 LED Asymmetric Floodlight 765
NLX200/765	87003359		Lynx 200W IP66 LED Asymmetric Floodlight 765
NLX300/765	87003360		Lynx 300W IP66 LED Asymmetric Floodlight 765

COUGAR

IP65 aluminium diecast asymmetric floodlight



SIZE	A	B	C	D
50W	358	250	60	120-180
100W	408	281	60	142-202
150W	442	346	64	180-260
200W	532	346	68	180-260

TECHNICAL DETAILS

- Asymmetric lens
- Available in 4 wattages:
 - 50W, 6,425lm at 52W, 124 l.lm/cW
 - 100W, 10,850lm at 99W, 110 l.lm/cW
 - 150W, 16,420 at 151W, 108 l.lm/cW
 - 200W, 23,050 at 200W, 115 l.lm/cW
- CRI >70
- CCT 4000/6500K

CONSTRUCTION

- All variants IP65 rated
- Aluminium die-cast body enclosure
- 4mm toughened glass front panel.
- Castings & bracket painted black, fine sand texture finish (RAL9017)
- Pre-wired with 0.7m H05RN-F 3x1mm² flex
- Easy to install

APPLICATIONS

- Fascias, building facades, sports facilities, industrial premises, area floodlighting, perimeter and security lighting

Model	Part Number	CCT	DESCRIPTION
NCU50/740	87003361	4000K	Cougar 50W IP65 LED Asymmetric Floodlight 740
NCU100/740	87003362		Cougar 100W IP65 LED Asymmetric Floodlight 740
NCU150/740	87003363		Cougar 150W IP65 LED Asymmetric Floodlight 740
NCU200/740	87003364		Cougar 200W IP65 LED Asymmetric Floodlight 740
NCU50/765	87003365	6500K	Cougar 50W IP65 LED Asymmetric Floodlight 765
NCU100/765	87003366		Cougar 100W IP65 LED Asymmetric Floodlight 765
NCU150/765	87003367		Cougar 150W IP65 LED Asymmetric Floodlight 765
NCU200/765	87003368		Cougar 200W IP65 LED Asymmetric Floodlight 765

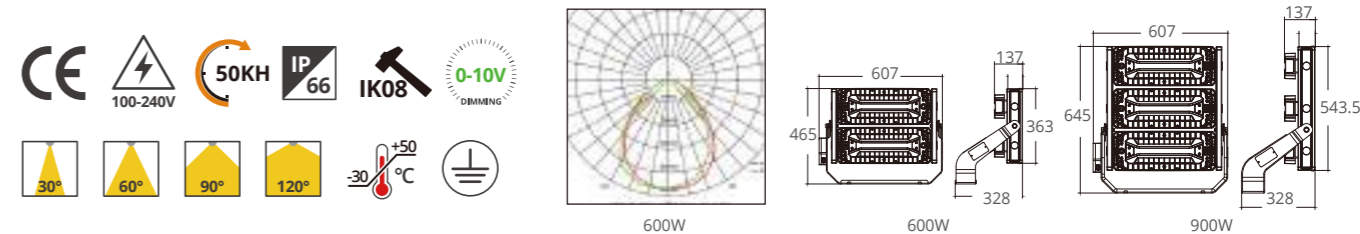


LED Stadium/Sport/Golf Light

NSL310



600W



FEATURES

- Die-cast aluminum housing
- Rotational angle of single module at ±30° and easy to disassemble and replace
- Sufficient lumen level to meet stadium and sports lighting requirements
- Easy maintenance with modular lighting design

PRODUCT BENEFITS

- High lumen efficiency up to 150lm/w
- IP66 rating
- Long lifetime of up to 50,000hrs
- Excellent heat dissipation performance
- Durable and sturdy housing

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥70
- Driver PF ≥0.95
- Operation Temperature: -30°-50°
- 0-10V dimming
- Beam angle available: 30°/60°/90°/120°

APPLICATIONS

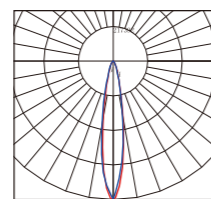
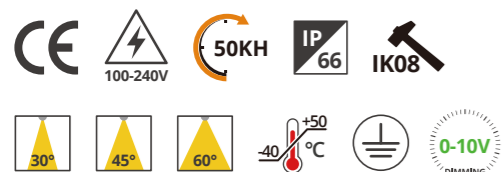
- Sport fields
- Stadium
- Golf fields
- Area lighting
- Mining industry lighting
- Horse racing track
- Harbor areas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSL310 600W	87003115	100-240V	600W	6500K	90000lm	150	70	30°	0.95	50000hrs
	87003116							60°		
	87003117							90°		
	87003118							120°		
NSL310 900W	87003119	900W	900W	6500K	135000lm	150	70	30°	0.95	50000hrs
	87003120							60°		
	87003121							90°		
	87003122							120°		

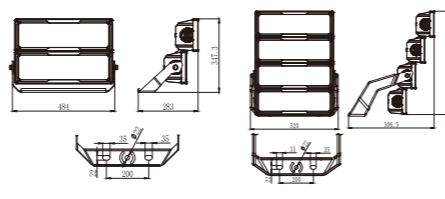
NSL320



1000W



NSL320



500W dimensions

1000W dimensions

FEATURES

- Die-cast aluminum housing
- Uniform illumination, multiple Lens design available
- Symmetrical and asymmetric lens to meet customer lighting needs in various places
- Stronger Heat Dissipation
- Beam angle available: 30°/45°/60°

PRODUCT BENEFITS

- High lumen efficiency up to 160lm/w
- IP66 rating
- Long lifetime of up to 50,000hrs
- Excellent heat dissipation with ladder structure design
- Easy installation with fast disassembly of each modular
- Clean appearance with concealed Wiring

TECHNICAL DETAILS

- SMD LEDs
- CRI ≥70
- Driver PF ≥0.95
- Operation Temperature: -40°C~+50°C
- 0-10V dimming

APPLICATIONS

- Sport fields
- Stadium
- Golf
- Area lighting
- Mining industry lighting
- Horse racing track
- Harbor
- Airport

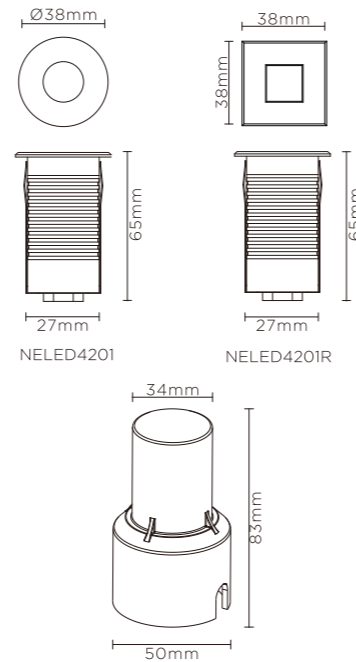
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSL320 500W	87003123	100-240V	500W	6500K	80000lm	160	70	30°	0.95	50000hrs
	45°									
	60°									
NSL320 1000W	87003126	100-240V	1000W	6500K	160000lm	160	70	30°	0.95	50000hrs
	45°									
	60°									

LED In-Ground Light



NELED4201

Low wattage in-ground lights



CONSTRUCTION

- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 5mm thick
- PVC mounting sleeve
- LED driver not included
- Weight limit: 113kg on area Ø10mm
- Complete with a IP67 cable gland, and pre-wired with 2x1.00mm² H05RN wire

PRODUCT BENEFITS

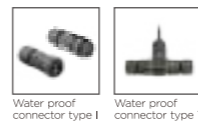
- IP67 and solid housing to be applicable in harsh applications.
- Long lifetime of up to 35,000hrs, maintenance- free
- Easy mounting with PVC mounting sleeve
- Connectors optional for easy multiple product connections

TECHNICAL DETAILS

- High power LEDs
- CRI ≥80
- CCT available:3000K/5700K
- Beam angle:120°

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks



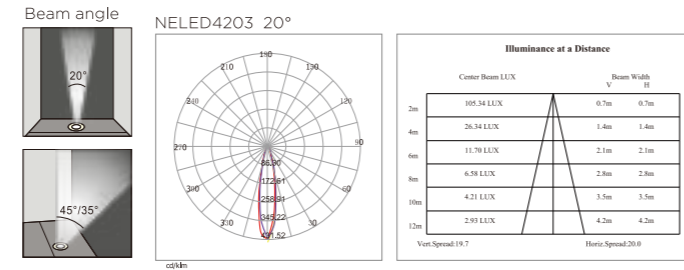
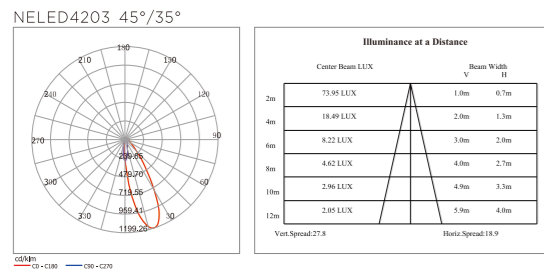
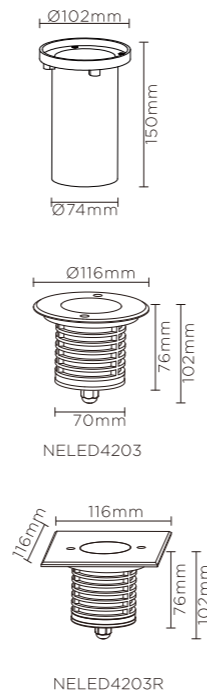
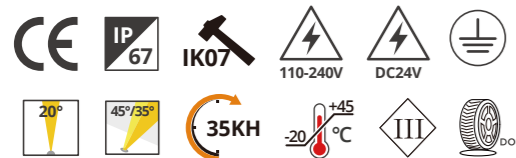
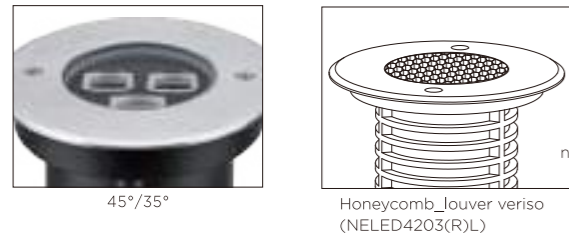
Driver: Choice of separate DC 24V IP65 driver (separate driver not included)
 Connector: Choice of two types of IP67 connector, straight (type I) or (Type T)

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	Lifetime
NELED4201	70057669	DC24V	0.6W	3000K	30 lm	80	120°	35000hrs
NELED4201	70085536			5700K	36 lm			
NELED4201R	70085537			3000K	30 lm			
NELED4201R	70085538			5700K	36 lm			



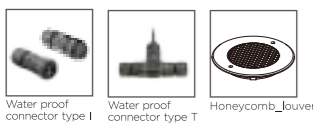
NELED4203

High power LEDs IP67 in-ground lights



CONSTRUCTION

- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 8mm thick
- PVC mounting sleeve
- LED driver included with 110-240V versions only
- Weight limit: 917kg on area Ø10mm, 2000kg on area Ø30mm, 2000kg on area Ø60mm,
- Complete with a IP67 cable gland, and pre-wired with 2x1.00mm² H05RN wire (DC24V) or 3x1.00mm² H05RN wire(110-240V)



PRODUCT BENEFITS

- IP67 and solid housing to be applicable in harsh applications.
- Long lifetime of up to 35,000hrs, maintenance- free
- Two driver solutions to meet project requirement: DC24V or 110-240V

TECHNICAL DETAILS

- High power LEDs
- CRI ≥80
- CCT available:3000K/5700K
- Beam angle:20° (selectable 45/35°)

OPTIONS

- Version: Choice of the tempered glass version or honeycombjouver version
- Driver: Choice of separate DC 24V IP65 driver (separate driver are not included)
- Connector: Choice of two types of IP67 connector, straight (type I) or T (type T)
- Cover: Choice of tempered glass cover or honeycomb louver

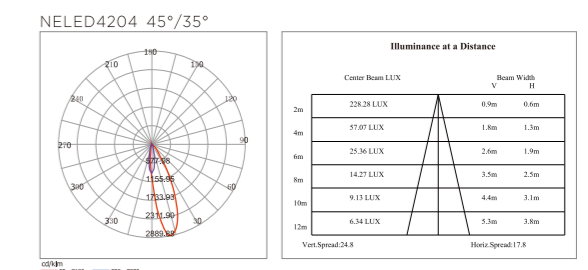
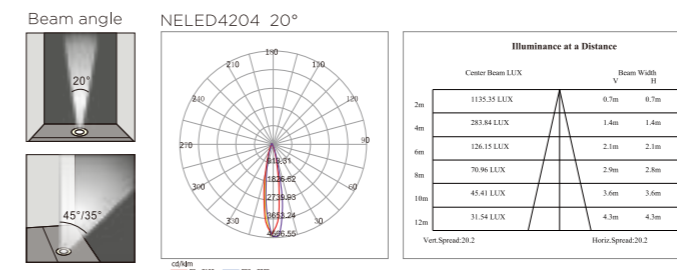
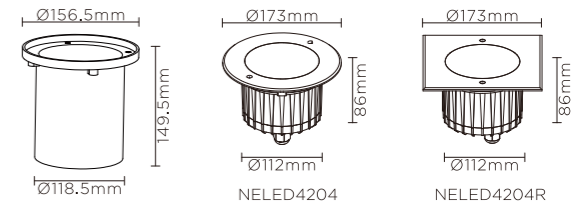
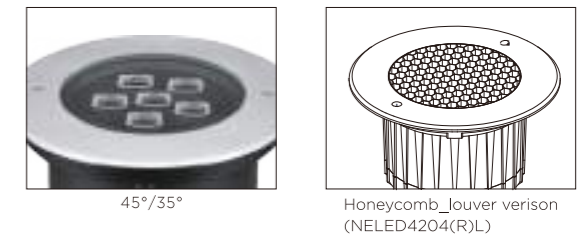
APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NELED4203 (R)	70077652	DC24V	5.2W	3000K	445 lm	80	20° (selectable 45/35°)	N/A	35000hrs
NELED4203 (R)	70085126			5700K	480 lm				
NELED4203 (R)	87003399	110-240V	6W	3000K	445 lm				
NELED4203 (R)	87003400			5700K	480 lm				

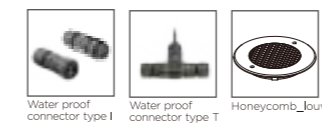
NELED4204

High power LEDs IP67 in-ground lights



CONSTRUCTION

- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 8mm thick
- PVC mounting sleeve
- LED driver included with 110-240V versions only
- Weight limit: 917kg on area Ø10mm, 2000kg on area Ø30mm, 2000kg on area Ø60mm,
- Complete with a IP67 cable gland, and pre-wired with 2x1.00mm² H05RN wire (DC24V) or 3x1.00mm² H05RN wire(110-240V)



PRODUCT BENEFITS

- IP67 and solid housing to be applicable in harsh applications.
- Long lifetime of up to 35,000hrs, maintenance- free
- Two driver solutions to meet project requirement: DC24V or 110-240V

TECHNICAL DETAILS

- High power LEDs
- CRI ≥80
- CCT available:3000K/5700K
- Beam angle:20° (selectable 45/35°)

OPTIONS

- Driver: Choice of separate DC 24V IP65 driver (separate driver not included)
- Connector: Choice of two types of IP67 connector, straight (type I) or T (type T)
- Cover: Choice of tempered glass cover or honeycomb louver

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

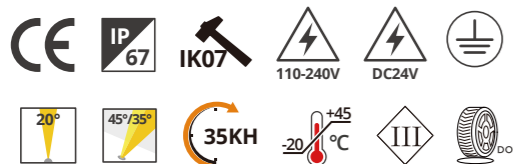
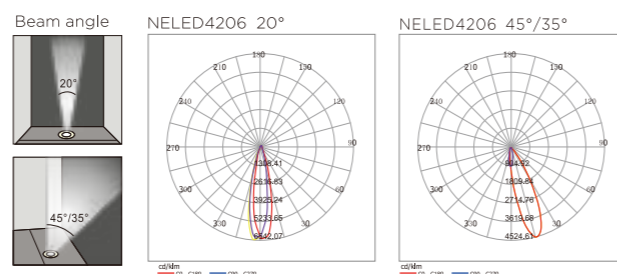
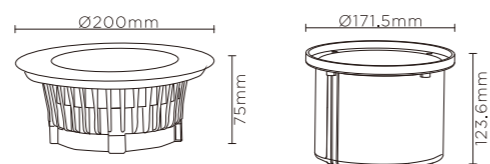
Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NELED4204 (R)	87003401	DC24V	13W	3000K	995 lm	80	20° (selectable 45/35°)	N/A	35000hrs
NELED4204 (R)	87003402			5700K	1050 lm				
NELED4204 (R)	87003403	110-240V	13W	3000K	995 lm				
NELED4204 (R)	87003404			5700K	1050 lm				

NELED4206

High power LEDs IP67 in-ground lights



45°/35°



CONSTRUCTION

- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 8mm thick
- PVC mounting sleeve
- LED driver included with 110-240V versions only
- Weight limit: 784kg on area Ø10mm, 1230kg on area Ø30mm, 2000kg on area Ø60mm,
- Complete with a IP67 cable gland, and pre-wired with 2x1.00mm2 H05RN wire (DC24V) or 3x1.00mm2 H05RN wire(110-240V)

PRODUCT BENEFITS

- IP67 and solid housing to be applicable in harsh applications.
- Long lifetime of up to 35,000hrs, maintenance- free
- Two driver solutions to meet project requirement: DC24V or 110-240V

TECHNICAL DETAILS

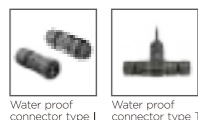
- High power LEDs
- CRI ≥80
- CCT available:3000K/5700K
- Beam angle:20° (selectable 45/35°)

OPTIONS

- Driver: Choice of separate DC 24V IP65 driver (separate driver not included)
- Connector: Choice of two types of IP67 connector, straight (type I) or T (type T)

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks



Water proof connector type I Water proof connector type T

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NELED4206	87003405	DC24V	20W	3000K	1600 lm	80	20° (selectable 45/35°)	N/A	35000hrs
NELED4206	87003406			5700K	1800 lm				
NELED4206	70056339	110-240V	18W	3000K	1600 lm				
NELED4206	70057243			5700K	1800 lm				

NELED4212

Side light output IP67 in-ground lights



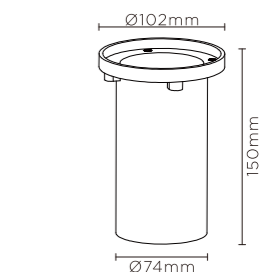
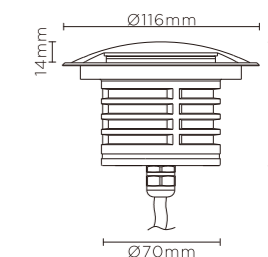
NELED4212A



NELED4212B



NELED4212D



CONSTRUCTION

- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 8mm thick
- PVC mounting sleeve
- Weight limit: 2,000kg
- LED driver included with 110-240V versions only
- Complete with a IP67 cable gland, and pre-wired with 2x1.00mm2 H05RN wire (DC24V) or 3x1.00mm2 H05RN wire(110-240V)

PRODUCT BENEFITS

- IP67 and solid housing to be applicable in harsh applications.
- Long lifetime of up to 35,000hrs, maintenance- free
- Two driver solutions to meet project requirement: DC24V or 110-240V

OPTIONS

- Driver: Choice of separate DC 24V IP65 driver (separate driver not included)
- Connector: Choice of two types of IP67 connector, straight (type I) or T (type T)



Water proof connector type I Water proof connector type T

TECHNICAL DETAILS

- SMD LEDs
- CRI≥80
- CCT : 3000K

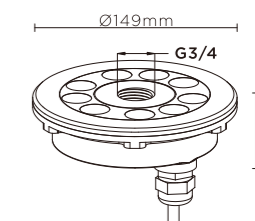
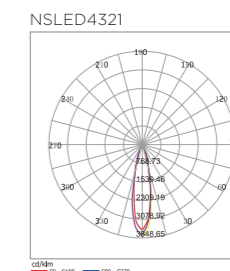
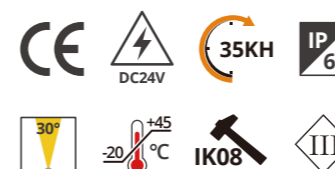
APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	PF	Lifetime
NELED4212A	87003407	DC24V	3W	3000K	10 lm	80	N/A	35000hrs
NELED4212A	87003408	110-240V	4W		10 lm		0.5	
NELED4212B	70056340	DC24V	3W		15 lm		N/A	
NELED4212B	70095559	110-240V	4W		15 lm		0.5	
NELED4212D	70058172	DC24V	3W		16 lm		N/A	
NELED4212D	70092093	110-240V	4W		16 lm		0.5	

LED Underwater Light

NSLED4321 IP68 LED fountain lights



FEATURES

- Grade 316 satin finish stainless steel body and bezel
- EPDM gasket
- 8mm tempered glass
- LED driver not included

PRODUCT BENEFITS

- IP68 and solid housing to be applicable in harsh applications.
- Long lifetime of up to 35,000hrs, maintenance-free
- RGB version available to meet underwater decoration needs

TECHNICAL DETAILS

- High power LEDs
- CRI≥80
- CCT available: 3000K/5700K and RGB version

OPTIONS

- Driver: Choice of separate DC 24V IP65 driver (separate driver not included)

APPLICATIONS

- Fountains
- Underwater decorations

WARNING

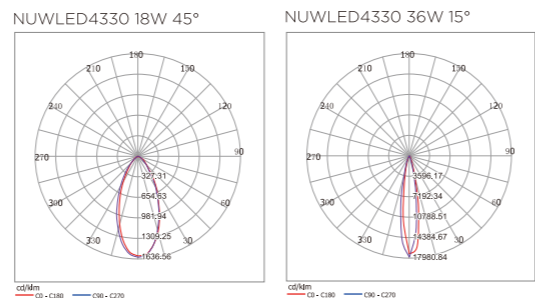
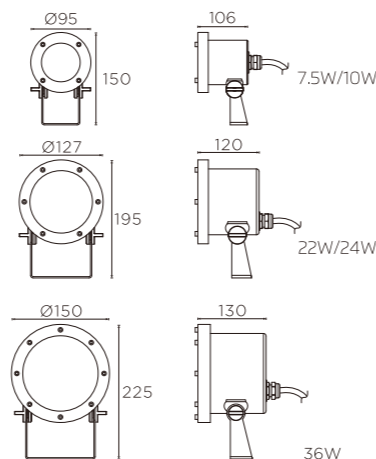
- Must be installed underwater to prevent over-heating

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	Lifetime
NSLED4321 17W	70067880	DC24V	17W	3000K	780lm	80	30°	35000hrs
NSLED4321 17W	87003418			5700K	850lm			
NSLED4321 24W	87003419		24W	RGB	N/A	N/A		



NUWLED4330

Adjustable IP68 underwater lights



FEATURES

- Grade 316 satin finish stainless steel body and bracket
- PC lens
- 5mm thickness tempered glass front cover

PRODUCT BENEFITS

- IP68 and solid housing to be applicable in harsh applications
- Long lifetime of up to 35,000hrs, maintenance- free
- Easy installation with included bracket
- RGB version available to meet underwater decoration needs

TECHNICAL DETAILS

- High Power LEDs
- CCT available: 3000K/5700K/ RGB version
- Selectable beam angle: 15°/20°/45°

OPTIONS

- Driver: Choice of separate DC 24V IP65 driver (separate driver not included)

APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

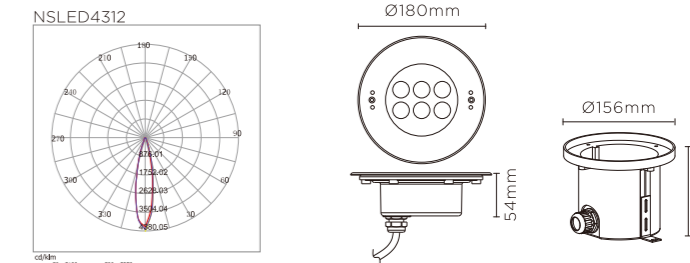
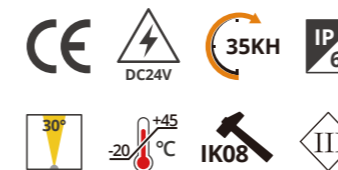
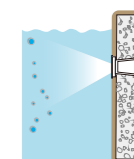
WARNING

- Must be installed underwater to prevent over-heating

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	Lifetime
NUWLED4330 7.5W	87003409	DC24V	7.5W	3000K	675lm	80	30° (selectable 15°/20°/45°)	35000hrs
NUWLED4330 7.5W	87003410			5700K	750lm			
NUWLED4330 10W	87003411		10W	RGB	N/A	N/A		
NUWLED4330 22W	87003412		22W	3000K	1500lm	80		
NUWLED4330 22W	87003413			5700K	1700lm			
NUWLED4330 24W	87003414		24W	RGB	N/A	N/A		
NUWLED4330 36W	87003415		36W	3000K	2700lm	80		
NUWLED4330 36W	87003416			5700K	3000lm			
NUWLED4330 36W	87003417			RGB	N/A			

NSLED4312

Recessed mounting IP68 underwater lights



FEATURES

- Grade 316 stainless steel housing and satin finish bezel
- EPDM gasket
- 7mm tempered glass
- PVC mounting sleeve
- Weight limit: 958kg on area Ø10mm, 1032kg on area Ø30mm, 1693kg on area Ø60mm,
- LED driver not included

PRODUCT BENEFITS

- IP68 and solid housing to be applicable in harsh applications
- Long lifetime of up to 35,000hrs, maintenance- free
- Easy installation with PVC mounting sleeve
- RGB version available to meet underwater decoration needs

TECHNICAL DETAILS

- High power LEDs
- CCT available:3000K/5700K/RGB version
- Beam angle:30°

OPTIONS

- Driver: Choice of separate DC 24V IP65 driver (separate driver not included)

APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

WARNING

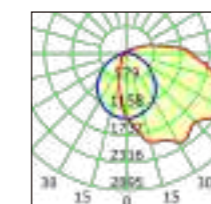
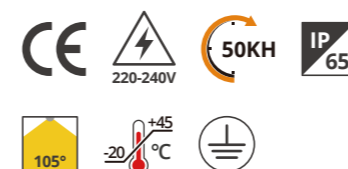
- Must be installed underwater to prevent over-heating

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	Lifetime
NSLED4312 17W	70058969	DC24V	17W	3000K	780lm	80	30°	35000hrs
NSLED4312 17W	87003420			5700K	850lm			
NSLED4312 24W	87003421		24W	RGB	N/A	N/A		

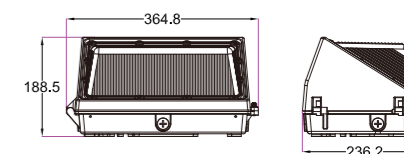


LED Wall Light

NWL370



NWL370



(29W-120W)

FEATURES

- Die-cast aluminum housing
- Polycarbonate lens
- IP65 for outdoor use
- Up to 16,200lm for real commercial and industrial use
- Provides comfortable light with frosted lens

PRODUCT BENEFITS

- High lumen efficiency up to 135lm/w
- Long lifetime of up to 50,000hrs
- Excellent heat dissipation performance

TECHNICAL DETAILS

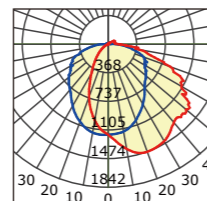
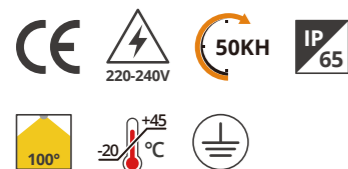
- CRI ≥80
- CCT available: 3000K or 5000K
- Driver PF ≥0.9
- Operation Temperature: -20°C ~+45°C

APPLICATIONS

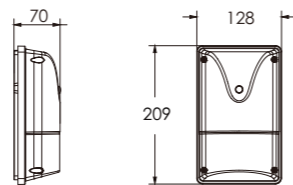
- Commercial exterior use on buildings and entrances
- Courtyard
- Commercial industrial use
- Outdoor landscape
- Hotels
- Wall areas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NWL3701	87003197	220-240V	29W	3000K	3915lm	135	80	105°	0.9	50000hrs
	87003198			5000K						
NWL3702	87003199		40W	3000K	5400lm					
	87003200			5000K						
NWL3703	87003201		60W	3000K	8100lm					
	87003202			5000K						
NWL3704	87003203		80W	3000K	10800lm					
	87003204			5000K						
NWL3705	87003205		100W	3000K	13500lm					
	87003206			5000K						
NWL3706	87003207		120W	3000K	16200lm					
	87003208			5000K						

NWL380



NWL380



(15W-30W)

FEATURES

- Die-cast aluminum housing
- Polycarbonate lens
- Modern design
- IP65 for outdoor use

PRODUCT BENEFITS

- High lumen efficiency up to 135lm/w
- Long lifetime of up to 50,000hrs
- Excellent heat dissipation performance

TECHNICAL DETAILS

- CRI ≥80
- CCT available:3000K/5000K
- Driver PF ≥0.9
- Operation Temperature: -20°C ~+45°C

APPLICATIONS

- Commercial exterior use on buildings and entrances
- Courtyard
- Commercial industrial use
- Outdoor landscape use
- Hotels
- Wall areas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NWL3801	87003209	220-240V	15W	3000K	2025lm	135	80	100°	0.9	50000hrs
	87003210			5000K						
NWL3802	87003211		20W	3000K	2500lm					
	87003212			5000K						
NWL3703	87003213		26W	3000K	3250lm					
	87003214			5000K						
NWL3804	87003215		30W	3000K	3750lm					
	87003216			5000K						

NWL41



NWL41001

NWL41002

NWL41081

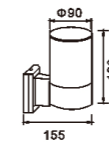
NWL41082

NWL41083

NWL41114



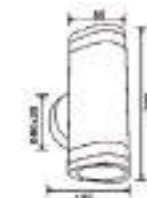
NWL41001



NWL41002



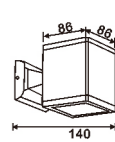
NWL41081



NWL41082



NWL41083



NWL41114

FEATURES

- Powder coating finish
- Aluminum die-casting body, Clear glass diffuser, Silicone gasket

PRODUCT BENEFITS

- Long lifetime of up to 50,000hrs
- Excellent heat dissipation Performance
- Modern designs to fit various applications

TECHNICAL DETAILS

- COB LEDs
- CRI ≥80
- CCT available3000K/6000K
- Driver PF≥0.9,
- Operation Temperature: -20°C~+45°C

APPLICATIONS

- Corridors
- Hotels
- Apartments
- Restaurants
- Gardens
- Villas

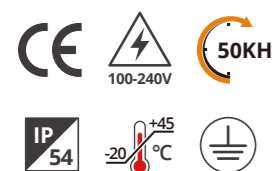
Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	PF	Lifetime
NWL41001 (Black)	87003153	100-240V	2*7W	3000K	980lm	80	0.9	50000hrs
	87003154			6000K				
NWL41001 (Grey)	87003155			3000K				
	87003156			6000K				
NWL41002 (Black)	87003157		7W	3000K	490lm			
	87003158			6000K				
	87003159			3000K				
NWL41081 (Black)	87003160		5W	3000K	350lm			
	87003161			6000K				
	87003162			3000K				
NWL41081 (Grey)	87003163		2*5W	3000K	70lm			
	87003164			6000K				
	87003165			3000K				
NWL41082 (Black)	87003166		2*5W	3000K	70lm			
	87003167			6000K				
	87003168			3000K				
NWL41083 (Black)	87003169		2*5W	3000K	70lm			
	87003170			6000K				
	87003171			3000K				
NWL41083 (Grey)	87003172		2*6W	3000K	840lm			
	87003173			6000K				
	87003174			3000K				
NWL41114 (Black)	87003175		2*6W	3000K	840lm			
	87003176			6000K				



NWL420



NWL42003 NWL42004 NWL42024 NWL42037 NWL42038



FEATURES

- Powder coating finish
- Aluminum die-casting body, Clear glass diffuser, Silicone gasket

PRODUCT BENEFITS

- Long lifetime of up to 50,000hrs
- Excellent heat dissipation Performance
- Modern designs to fit various applications

TECHNICAL DETAILS

- COB LEDs
- CRI ≥80
- CCT available: 3000K/6000K
- Driver PF≥0.9,
- Operation Temperature: -20°C ~+45°C

APPLICATIONS

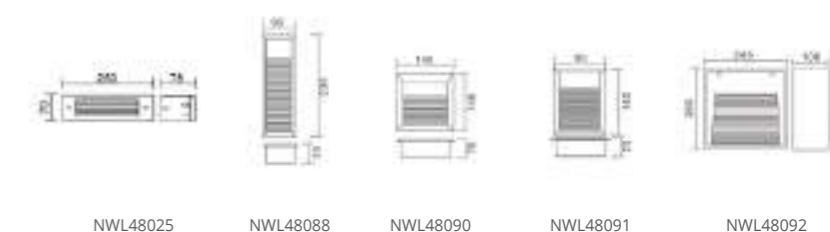
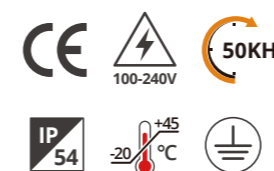
- Corridors
- Hotels
- Apartments
- Restaurants
- Gardens
- Villas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	PF	Lifetime		
NWL42003 (Black)	87003177	100-240V	6W	3000K	420lm	70	80	0.9	50000hrs		
	87003178			6000K							
	87003179			3000K							
NWL42003 (Grey)	87003180			6000K							
	NWL42004 (Black)			87003181						3000K	420lm
				87003182						6000K	
87003183			3000K								
NWL42004 (Grey)	87003184		6000K								
	NWL42024 (Black)		87003185	3000K	840lm						
			87003186	6000K							
87003187			3000K								
NWL42024 (Grey)	87003188		6000K								
	NWL42037 (Black)	87003189	3000K	210lm							
		87003190	6000K								
87003191		3000K									
NWL42037 (Grey)	87003192	6000K									
	NWL42038 (Black)	87003193	3000K		210lm						
		87003194	6000K								
87003195		3000K									
NWL42038 (Grey)	87003196	6000K									

NWL480



NWL48025 NWL48026 NWL48088 NWL48090 NWL48091 NWL48092



FEATURES

- Powder coating finish
- Aluminum die-casting body, Clear glass diffuser, Silicone gasket

PRODUCT BENEFITS

- Long lifetime of up to 50,000hrs
- Excellent heat dissipation Performance
- Modern designs to fit various applications

TECHNICAL DETAILS

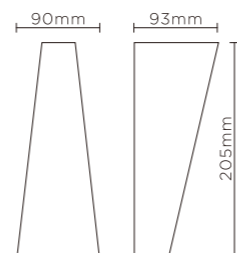
- COB LEDs
- CRI ≥80
- CCT available: 3000K/6000K
- Driver PF≥0.9,
- Operation Temperature: -20°C ~+45°C

APPLICATIONS

- Corridors
- Hotels
- Apartments
- Restaurants
- Gardens
- Villas

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	PF	Lifetime		
NWL48025 (Black)	87003129	100-240V	18W	3000K	1260lm	80	0.9	50000hrs		
	87003130			6000K						
NWL48025 (Grey)	87003131			3000K						
	87003132			6000K						
NWL48026 (Black)	87003133			18W					1260lm	3000K
	87003134									6000K
NWL48026 (Grey)	87003135		3000K							
	87003136		6000K							
NWL48088 (Black)	87003137		6W		420lm					3000K
	87003138									6000K
NWL48088 (Grey)	87003139			3000K						
	87003140			6000K						
NWL48090 (Black)	87003141			6W					420lm	3000K
	87003142									6000K
NWL48090 (Grey)	87003143		3000K							
	87003144		6000K							
NWL48091 (Black)	87003145		3W		210lm					3000K
	87003146									6000K
NWL48091 (Grey)	87003147			3000K						
	87003148			6000K						
NWL48092 (Black)	87003149			24W					1680lm	3000K
	87003150									6000K
NWL48092 (Grey)	87003151		3000K							
	87003152		6000K							

NWLED3531



FEATURES

- Die-cast aluminum lamp body, excellent heat dissipation and durable
- External independent power supply and customizable dimming
- Deep anti-glare to create a comfortable light environment

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Long lifetime of up to 30,000hrs, maintenance-free
- Modern design provides up and down light to create better light atmosphere

TECHNICAL DETAILS

- High power LEDs
- CRI≥80
- Beam angle: 7°X47°

APPLICATIONS

- Wall decorations
- Corridors
- Balconies

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NWLED3531	70055076	220-240V	6W	3000K	210 lm	80	7°*47°	≥0.5	30000hrs

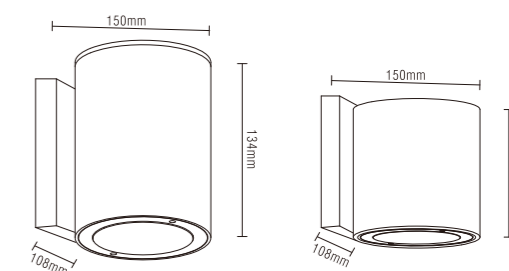
NWLED5512



NWLED5512-1



NWLED5512-2



NWLED5512-1

NWLED5512-2

FEATURES

- Aluminium housing
- Clear glass cover
- LED driver included
- Powder coated surface treatment
- NWLED5512-1 double sides light output
- NWLED5512-2 single side light output
- Supply with 3x1.0mm2 wire
- Choice of three finishes:
 - Light grey (similar to RAL 7023)
 - Black (optional color)
 - Dark grey (optional color)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance-free

TECHNICAL DETAILS

- High power LEDs
- CRI≥80
- CCT available:3000K/6000K
- Beam angle: 25°

APPLICATIONS

- Wall decorations
- Corridors
- Columns

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NWLED5512-1	87003437	110-240V	14.5W	3000K	872 lm	80	25°	≥0.9	30000hrs
	70080550			6000K	950 lm				
NWLED5512-2	87003438		7.5W	3000K	502 lm				
	70088958			6000K	550 lm				

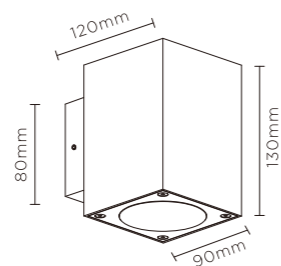
NWLED5513



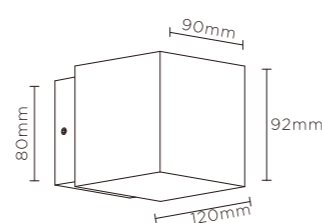
NWLED5513-1



NWLED5513-2



NWLED5513-1



NWLED5513-2

FEATURES

- Aluminium housing
- Clear glass cover
- LED driver included
- Powder coated surface treatment
- NWLED5513-1 double sides light output
- NWLED5513-2 single side light output
- Supply with 3x1.0mm² wire
- Choice of three finishes:
 - Light grey (similar to RAL 7023)
 - Black (optional color)
 - Dark grey (optional color)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free

TECHNICAL DETAILS

- High power LEDs
- CRI≥80
- CCT available: 3000K/6000K
- Beam angle: 25°

APPLICATIONS

- Wall decorations
- Corridors
- Columns

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NWLED5513-1	70062485	110-240V	14.5W	3000K	872 lm	80	25°	≥0.9	30000hrs
	87003439			6000K	950 lm				
NWLED5513-2	70062487		7.5W	3000K	502 lm				
	87003440			6000K	550 lm				

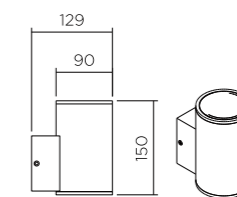
NWLED3543/NWLED3544



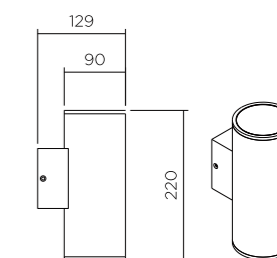
NWLED3543



NWLED3544



NWLED3543



NWLED3544

FEATURES

- Aluminium housing
- Clear glass cover
- LED driver included
- Powder coated surface treatment
- NWLED3543 single side light output
- NWLED3544 double sides light output
- Supply with 3x1.0mm² wire
- Choice of three finishes:
 - Black (similar to RAL 7021)
 - Dark grey (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free

TECHNICAL DETAILS

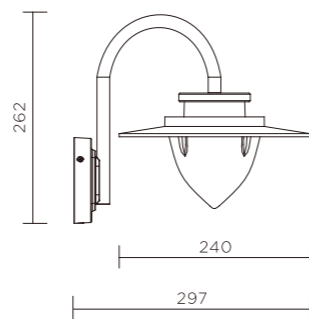
- COB LEDs
- CRI≥80
- CCT available: 3000K/6500K
- Beam angle: 40°

APPLICATIONS

- Wall decorations
- Corridors
- Balconies

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NWLED3543	70090090	110-240V	9.4W	3000K	560 lm	80	40°	≥0.9	30000hrs
NWLED3544	70080955		18.5W	6500K	1100 lm		/		

NWMLLED353



FEATURES

- Die-casting aluminium housing
- PC diffuser
- Powder coated surface treatment
- LED driver included
- Supply with 3x1.0mm wire
- Choice of three finishes:
 - Dark grey (similar to RAL 7037)
 - Black (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free

TECHNICAL DETAILS

- COB LEDs
- CRI≥80
- CCT available: 3000K/4000K/6500K
- Beam angle: 170°

APPLICATIONS

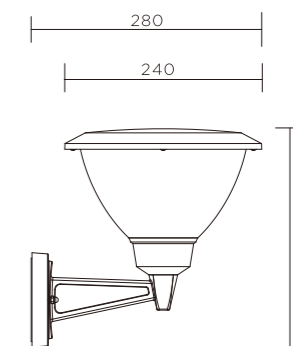
- Wall decorations
- Corridors
- Columns

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NWMLLED353	87003441	110-240V	8.5W	3000K (Selectable 4000K/6500K)	600 lm	80	170°	≥0.9	30000hrs

NWMLLED354



NBLLLED354



FEATURES

- Die-casting aluminium housing
- PC diffuser
- Powder coated surface treatment
- LED driver included
- Supply with 3x1.0mm wire
- Choice of three finishes:
 - Dark grey (similar to RAL 7037)
 - Black (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free

TECHNICAL DETAILS

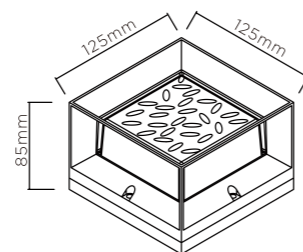
- COB LEDs
- CRI≥80
- CCT available: 3000K/4000K/6500K
- Beam angle: 150°

APPLICATIONS

- Lawns
- Gardens
- Paths

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NWMLLED354	87003442	110-240V	8.5W	3000K (Selectable 4000K/6500K)	800 lm	80	150°	≥0.9	30000hrs

NWLED3505



FEATURES

- Die-cast aluminium housing
- Frosted tempered glass cover
- Powder coated surface treatment
- LED driver included
- Supply with 3x1.0mm² wire
- Choice of three finishes:
 - Dark grey (similar to RAL 7037)
 - Black (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free
- Comfortable light due to frosted tempered glass cover

TECHNICAL DETAILS

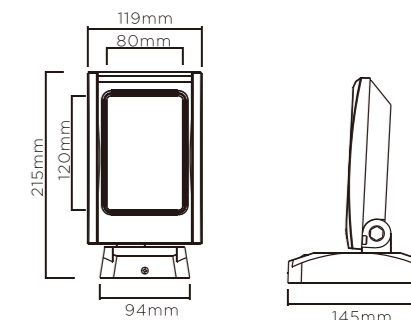
- COB LEDs
- CRI≥80
- CCT available: 3000K/5700K
- Beam angle: 95°

APPLICATIONS

- Wall decorations
- Corridors

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NWLED3505	70056634	220-240V	6.5W	3000K	700 lm	80	95°	≥0.5	30000hrs
	70055647			5700K					

NWLED3501A



FEATURES

- Die-cast aluminium housing
- Frosted tempered glass cover
- Powder coated surface treatment
- LED driver included
- Supplied with 3x1.0mm² wire
- Choice of three finishes:
 - Dark grey (similar to RAL 7037)
 - Black (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free
- Comfortable light due to frosted tempered glass cover

TECHNICAL DETAILS

- SMD LEDs
- CRI≥80
- CCT available: 3000K/6500K
- Beam angle: 60°

APPLICATIONS

- Wall decorations
- Corridors

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NWLED3501A	70055687	110-240v	12W	3000K (Selectable 6500K)	850 lm	>80	60°	≥0.5	30000hrs

NWLED556 SERIES



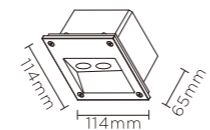
NWLED5561



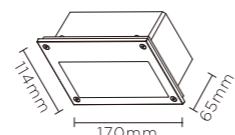
NWLED5562



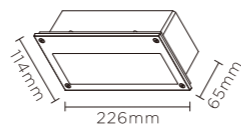
NWLED5563



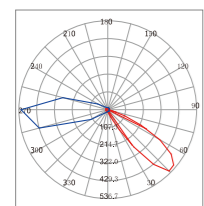
NWLED5561



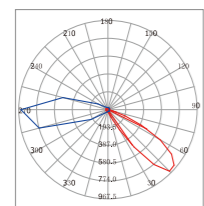
NWLED5562



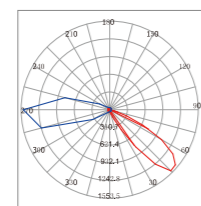
NWLED5563



NWLED5561



NWLED5562



NWLED5563

FEATURES

- Die-casting aluminium housing
- Clear glass lens
- LED driver included
- Supplied with 3x1.0mm² wire
- Choice of three finishes:
 - Dark grey (similar to RAL 7037)
 - Black (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free
- Three size options to provide more lumen choices

TECHNICAL DETAILS

- SMD LEDs
- CRI≥80
- CCT available: 3000K/6000K
- Beam angle: 30°

APPLICATIONS

- Lawns
- Gardens
- Paths

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NWLED5561	87003443	110-240V	3.5W	3000K	169 lm	80	30°	≥0.45	30000hrs
	87003444			6000K					
NWLED5562	87003445		5W	3000K	327 lm				
	87003446		6000K						
NWLED5563	87003447		7.5W	3000K	529 lm				
	87003448			6000K					

NWLED5571A

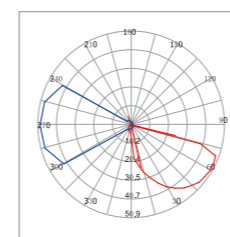
NWLED5572A



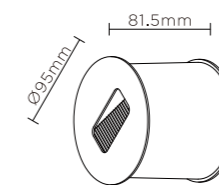
NWLED5571A



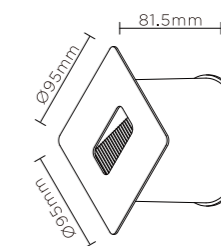
NWLED5572A



NWLED5571A



NWLED5571A



NWLED5572A

FEATURES

- Die-cast aluminium housing
- 304 stainless steel front cover
- LED driver included
- Powder coated surface treatment
- Supply with 3x1.0mm² wire

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free
- More design choices with round and square shape of the housing

TECHNICAL DETAILS

- High power LEDs
- CRI≥80
- CCT available: 3000K/6000K
- Beam angle: 65°

APPLICATIONS

- Wall decorations
- Corridors
- Wall decorations

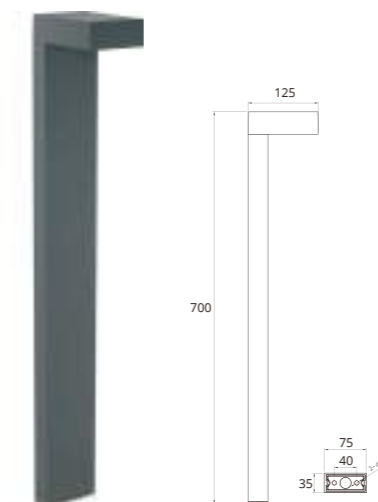
Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NWLED5571A	87003449	110-240V	3W	3000K	54 lm	80	65°	≥0.45	30000hrs
	87003450			6000K	59 lm				
NWLED5572A	87003451		3W	3000K	54 lm				
	87003452			6000K	59 lm				



Bollard Light



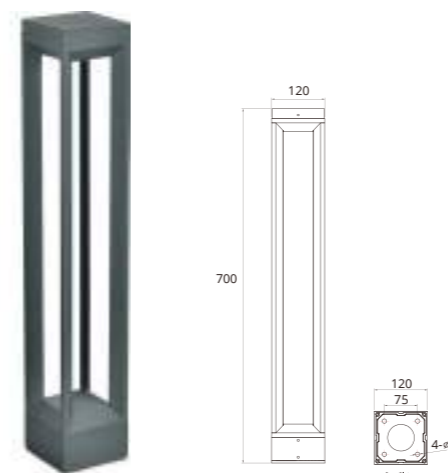
NBL355



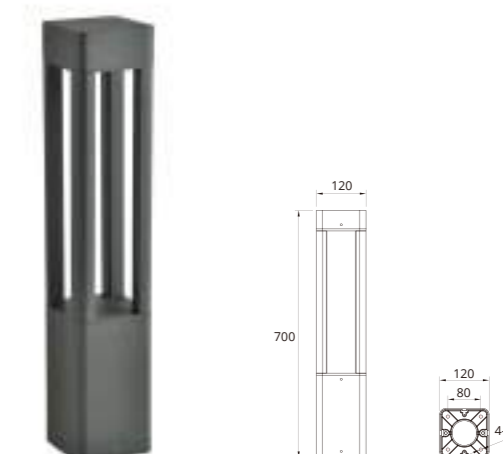
NBL3551 5W



NBL3552 7W / NBL3553 9W



NBL3554 10W



NBL3555 10W



FEATURES

- Die-cast aluminium housing with powder coating
- Modern design to provide the best comfortable and ambient light
- Wide outdoor landscape applications

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Anti-corrosion housing
- Maintenance free
- Excellent heat dissipation performance

TECHNICAL DETAILS

- High power LEDs
- CRI ≥80
- SDCM<5

APPLICATIONS

- Gardens
- Paths
- Lawns

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	Beam Angle	PF	Lifetime
NBL3551	87003217	110-240V	5W	3000K	275	55	120°	0.6	20000hrs
NBL3552	87003218		7W		285		360°		
NBL3553	87003219		9W		495		360°		
NBL3554	87003220		10W		550		N/A	0.9	
NBL3555	87003221		10W		550		N/A		



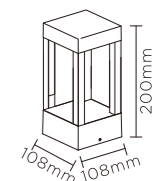
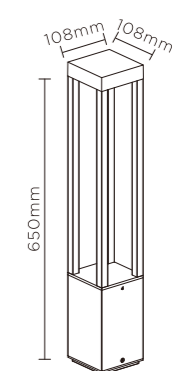
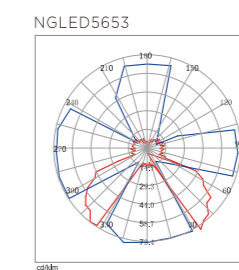
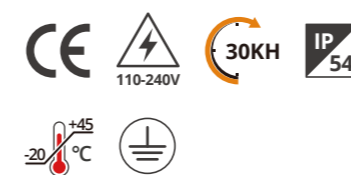
NGLED5653



NGLED5653-2



NGLED5653-1



NGLED5653-1

NGLED5653-2

FEATURES

- Extruded aluminium housing
- Convex glass
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
 - Dark grey (similar to RAL 7037)
 - Black (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications.
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free
- Easy installation with provided mounting bolts

TECHNICAL DETAILS

- High power LEDs
- CRI≥80
- CCT available: 3000K/6000K

APPLICATIONS

- Lawns
- Gardens
- Paths

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	PF	Lifetime
NGLED5653-1	87003426	110-240V	7W	3000K	143lm	80	0.85	30000hrs
NGLED5653-1	87003427			6000K	155lm			
NGLED5653-2	87003428			3000K	143lm			
NGLED5653-2	87003429			6000K	155lm			



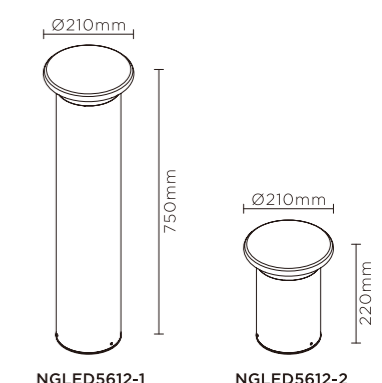
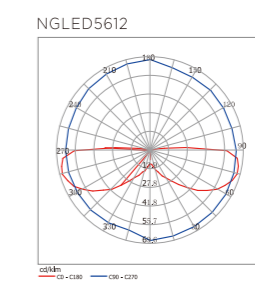
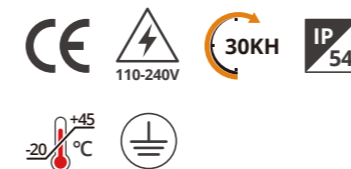
NGLED5612



NGLED5612-2



NGLED5612-1



FEATURES

- Extruded aluminium housing
- Clear PC cover
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
 - Dark grey (similar to RAL 7037)
 - Black (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications.
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free
- Easy installation with provided mounting bolts

TECHNICAL DETAILS

- High power LEDs
- CRI≥80
- CCT available: 3000K/6000K

APPLICATIONS

- Lawns
- Gardens
- Paths

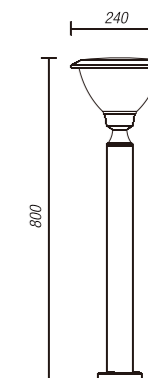
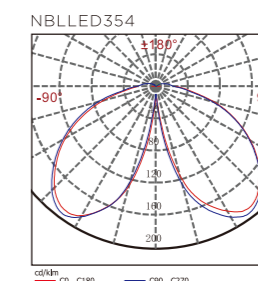
Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	PF	Lifetime
NGLED5612-1	87003430	110-240V	12W	3000K	253lm	80	0.85	30000hrs
NGLED5612-1	87003431			6000K	275lm			
NGLED5612-2	87003432			3000K	253lm			
NGLED5612-2	87003433			6000K	275lm			



NGLED354



NWMLLED354



FEATURES

- Die-casting aluminium housing
- Pre-treated for corrosion
- PC diffuser
- LED driver included
- Choice of three finishes:
 - Dark grey (similar to RAL 7037)
 - Black (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance-free
- Easy installation with provided mounting bolts

TECHNICAL DETAILS

- COB LEDs
- CRI≥80
- CCT available: 3000K/4000K/6500K

APPLICATIONS

- Lawns
- Gardens
- Paths

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	PF	Lifetime
NBLLLED354 8W	87000133	110-240V	8W	3000K	800lm	100	80	0.9	30000hrs
NBLLLED354 8W	87003434			4000K					
NBLLLED354 8W	87003435			6500K					



LED Canopy Light

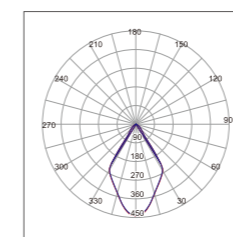
NLEDM3301/NLEDM3302



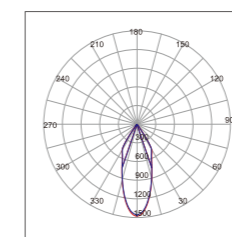
NLEDM3302



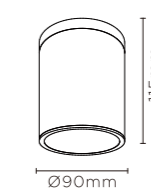
NLEDM3301



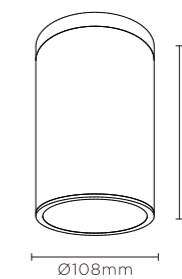
NLEDM3301 8W



NLEDM3302 12W



NLEDM3301



NLEDM3302

FEATURES

- Die-casting aluminium housing
- Powder coated surface treatment
- Forsted glass cover
- LED driver included
- Choice of three finishes:
 - Black (optional color)
 - Dark grey (optional color)
 - Light grey (similar to RAL 7023)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free

TECHNICAL DETAILS

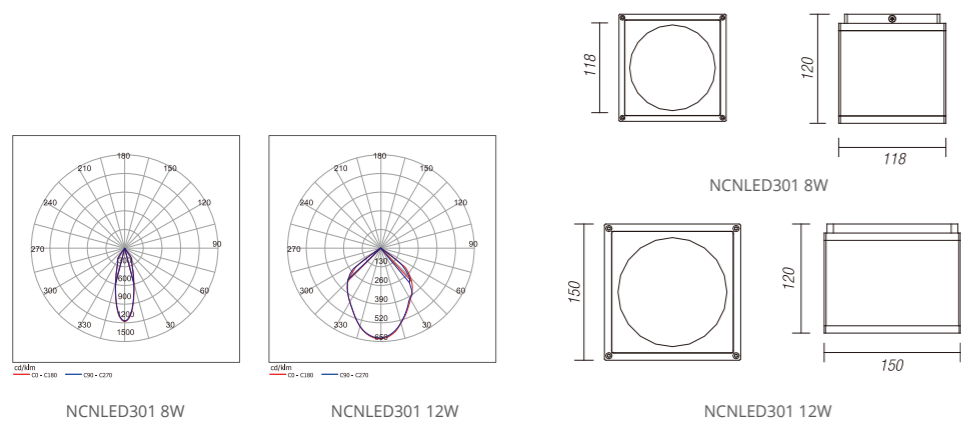
- COB LEDs
- CRI≥80
- CCT:3000K
- Optional CCT: 4000K/6500K

APPLICATIONS

- Porches + entrances
- Corridors
- Under-canopy lighting

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NLEDM3301	70077932	220-240V	8W	3000K(Selectable 4000K/6500K)	490 lm	61	80	40°	≥0.9	30000hrs
NLEDM3302	70070260	110-240V	12W		800 lm	92	80			

NCNLED301



FEATURES

- Die-casting aluminium housing
- Powder coated surface treatment
- Tempered glass diffuser
- LED driver included
- Supply with 3x1.0mm wire
- Choice of three finishes:
 - Black (optional color)
 - Dark grey (optional color)
 - Light grey (similar to RAL 7023)

PRODUCT BENEFITS

- IP54 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free

TECHNICAL DETAILS

- High power LEDs
- CRI≥80
- CCT available: 3000K/4000K/6500K
- Beam angle: 35°/85°

APPLICATIONS

- Porches + entrances
- Corridors
- Under-canopy lighting

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NCNLED301	70090547	110-240V	8.5W	3000K	650 lm	76	80	35°	≥0.9	30000hrs
	87003453		13W	(Selectable 4000K/6500K)	1100 lm	85		85°		



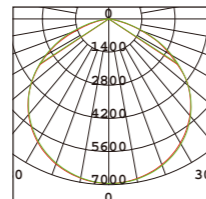
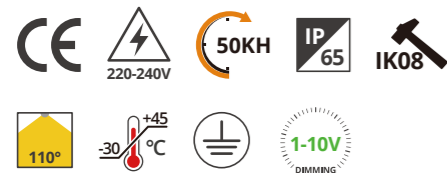
LED Industrial High/Low bay Light



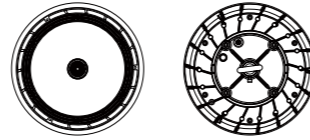
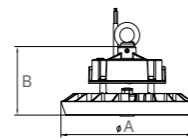
NHB383



NHB383 120W



NHB383 120W



Watts	A	B
100/120W	220	115
150W	270	115
200W	310	115
240W	340	115

FEATURES

- Die-cast aluminum housing and Polycarbonate lens
- 110° beam angles for various applications

PRODUCT BENEFITS

- High lumen efficiency up to 160lm/w
- Long lifetime up to 50,000hrs
- Excellent heat dissipation performance
- 6KV surge protection suits to different countries

TECHNICAL DETAILS

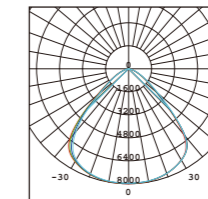
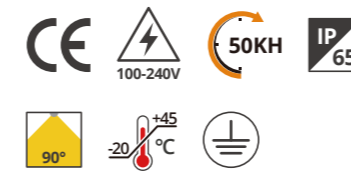
- SMD LEDs
- CRI≥80
- CCT available: 4000K/6500K
- Driver PF≥0.9
- No flicker driver design
- 1-10V dimming
- Operation Temperature: -30°C~+45°C
- IK08 rating
- IP65 rating

APPLICATIONS

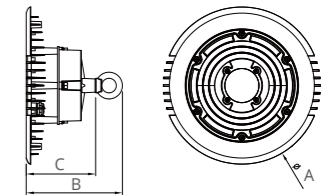
- Gym
- Warehouse
- Factory
- Indoor space
- Operation center

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NHB383	87003222	220-240V	100W	4000K	16000lm	160	80	110°	0.9	50000hrs
	87003223			6500K						
	87003224		120W	4000K	19200lm					
	87003225			6500K						
	87003226		150W	4000K	24000lm					
	87003227			6500K						
	87003228		200W	4000K	32000lm					
	87003229			6500K						
	87003230		240W	4000K	38400lm					
	87003231			6500K						

NHB308



NHB308 120W



Watts	A	B	C
80W/120W	258	158	114
150W/200W	300	164	114

FEATURES

- Die-cast aluminum shell coated with polyester powders with high resistance to harsh outdoor environment
- Non-dimmable

PRODUCT BENEFITS

- High lumen efficiency up to 130lm/w
- Long lifetime up to 50,000hrs
- Excellent heat dissipation performance
- Durable and sturdy housing

TECHNICAL DETAILS

- SMD LEDs
- CRI≥80
- CCT available: 4000K/6500K
- No flicker driver design
- Operation Temperature: -20°C~+45°C
- IK08 rating
- IP65 rating

APPLICATIONS

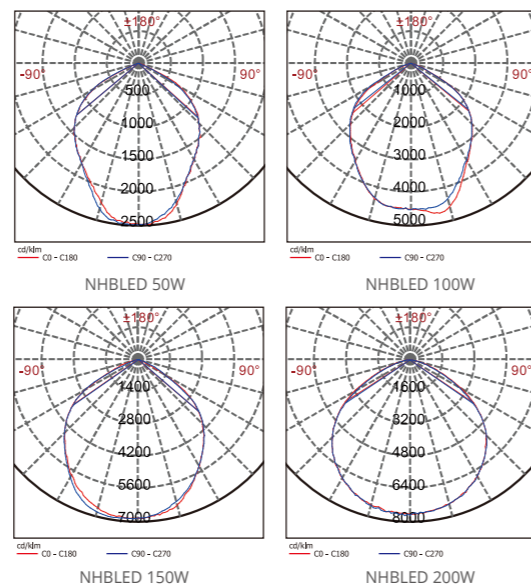
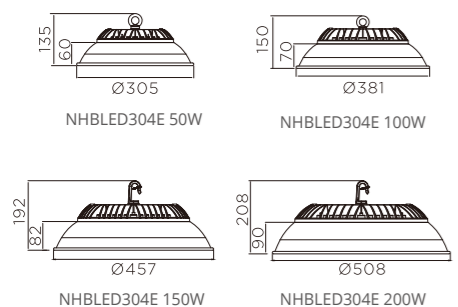
- Warehouses & Storage
- Industrial Facilities
- Sports Facilities
- Manufacturing Facilities
- Gymnasiums
- Airports
- Retail Centers

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NHB308	87003232	100-240V	80W	4000K	10400lm	130	80	90°	0.95	50000hrs
	87003233			6500K						
	87003234		120W	4000K	15600lm					
	87003235			6500K						
	87003236		150W	4000K	19500lm					
	87003237			6500K						
	87003238		200W	4000K	26000lm					
	87003239			6500K						



NHBLED304E

Cost-effective DOB highbay



FEATURES

- Die-casting aluminium housing
- Aluminum 6063 reflector
- LED driver on board

PRODUCT BENEFITS

- IP65 and solid housing to be applicable in harsh applications
- High lumen design to meet commercial and industrial lumen requirement
- Long lifetime of up to 30,000hrs, maintenance-free
- Anti-glare reflector design to provide better light

TECHNICAL DETAILS

- SMD LEDs
- CCT available: 3000K/4000K/6000K
- CRI≥80
- IP 65 rating
- IK09 rating

APPLICATIONS

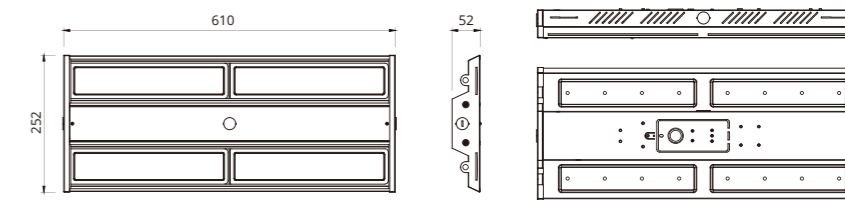
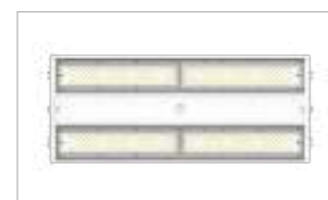
- Industrial production areas
- Warehouses
- Exhibition halls

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NHBLED304E	70083532	220-240V	50W	6000K (Selectable 3/4000K)	5000 lm	100	70	100°	≥0.95	30000hrs
	70083535		100W		10000 lm					
	70083538		150W		15000 lm					
	70083541		200W		20000 lm					



KELSO

LED Low-Bay



FEATURES

- Steel sheet housing, excellent heat dissipation and great durability
- Back side smooth design, prevent dust accumulation
- Driver and LED separated for better heat dissipation
- Ceiling and suspension mount (accessories not included)

PRODUCT BENEFITS

- Long lifetime of up to 50,000hrs
- Maintenance free
- Works best with ceilings to reduce glare and more focused illumination
- High efficiency to save more energy

TECHNICAL DETAILS

- Efficacy up to 150 lm/w
- CRI≥80
- CCT available: 4000K/6500K
- Beam angle: 110°
- Operating temperatures: -20-45°C
- 50000 hours of lifetime

APPLICATIONS

- Warehouse
- Garage
- Workshop
- Indoor stadium
- Logistic center
- Retail store

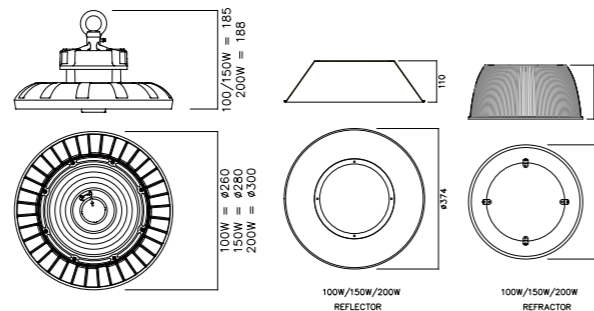
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NKE100/840	87003322	220-240V	100W	4000K	15000 lm	150	≥80	110°	≥0.9	50000hrs
NKE135/840	87003323		135W		20250 lm					
NKE100/865	87003324		100W	6500K	15000 lm					
NKE135/865	87003325		135W		20250 lm					

ORDER CODE	Part Number	ACCESSORIES DESCRIPTION
NKE/SW	87003462	Kelso suspension wire
NKE/SMB	87003463	Kelso Surface Mount Bracket



JUPITER

High-performance high-bay fitting with dimming and sensor options



CONSTRUCTION

- Die-cast aluminium body, matt black painted
- UV stable clear polycarbonate front pane
- LEDs mounted on metal core PCB for good heat dissipation
- Driver in separate die-cast aluminium enclosure, mounted on rear of main body
- Pre-wired with 1m of H05 mains cable and 1m of H05 1-10V control signal cable
- Supplied with a steel eyelet for suspended mounting. For surface mounting a stirrup bracket is available.

TECHNICAL DETAILS

- Three wattages available:
-100W, 15,679 lm at 99.2W, 158 l.lm/c.W
-150W, 23,759 lm at 149W, 159 l.lm/c.W
-200W, 31,664 lm at 190W, 167 l.lm/c.W
- CRI >80, CCT 4000/6500K, beam angle 90°
- 1-10V dimming, dimming, use optional.

APPLICATIONS

- Industrial premises
- Large retail sites
- Public areas in airports, railway stations and coach terminals
- Coldstores, suitable to -30°C
- Harsh environments to +45°C

OPTIONS

- **Dimming.** Supplied ready for 1-10V dimming.
- **Attachments** to be ordered as separate items:
-Reflectors (polycarbonate) and reflectors (aluminium)
-Stirrup mounting bracket for mounting direct to a surface
-Microwave sensor. Plug-in micro-wave occupancy sensor available, programmable via an infra-red handset. Both items to be ordered separately, as listed below.

JUPITER can be fitted with a micro-wave occupancy sensor (purchased separately). The sensor plugs in with a twist-lock action and maintains the IP65 rating of the fitting. It is designed to control just the fitting in which it is installed – it is not designed for master/servant configuration.

FULLY PROGRAMMABLE VIA REMOTE HANDSET

DETECTION RANGE

Up to 12m diameter at 7m mounting height, but the detection range can be reduced to prevent unnecessary triggering.

HOLD TIME

Sometimes called the delay time. This is the amount of time between when the last movement was detected and the lights dimming down to the stand-by dimming level.



STAND-BY DIMMING LEVELS

When occupancy is no longer detected the light can be dimmed to a pre-set level before switching off altogether. The stand-by dim level is adjustable to 10%, 20% or 30%.



1-10V dimming as standard. The JUPITER driver accepts a 1-10V dimming control signal, as generated by the sensor (available separately). Use of the sensor is optional - the driver works as a fixed-output device if no sensor is installed. Sensors with a 1-10V output are available from manufacturers such as Ex-Or and CP Electronics.

JUPITER is a high-performance and versatile high-bay fitting. It is used chiefly in industrial and big box retail projects but is equally suited to the public circulation and foyer areas in airports, train stations and buildings such as schools and hospitals.

ATTACHMENTS

In addition to the sensor, JUPITER has a range of attachments available:



REFRACTORS

Made of clear polycarbonate, the refractor reduces the beam angle very slightly, but substantially reduces the risk of glare. The refractor is generally most useful for reducing glare at lower mounting heights.



REFLECTORS

Made of aluminium, the reflector reduces the beam angle, and substantially reduces the risk of glare. The reflector is most used when JUPITER is installed at mounting heights above about 10m.



STIRRUP MOUNTING BRACKET

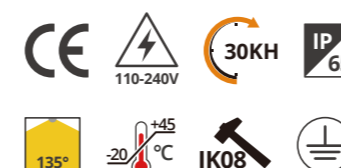
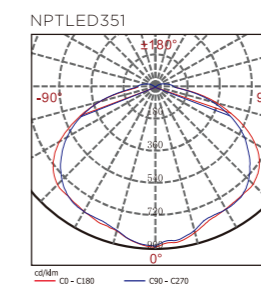
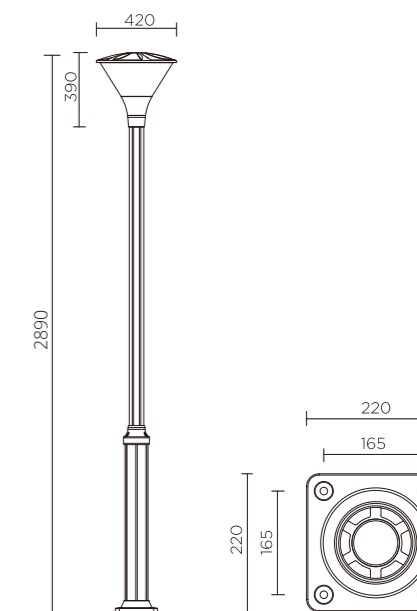
JUPITER is supplied complete with a suspension eyelet, but for mounting direct to a surface a stirrup mounting bracket is available.

ORDER CODE	Part Number	CCT	DESCRIPTION
NJP/100/1-10V/840	63806141-U	4000K	Jupiter 100W LED UFO High Bay IP65 1-10V 840
NJP/150/1-10V/840	63807141-U		Jupiter 150W LED UFO High Bay IP65 1-10V 840
NJP/200/1-10V/840	63808141-U		Jupiter 200W LED UFO High Bay IP65 1-10V 840
NJP/100/1-10V/865	63806181-U	6500K	Jupiter 100W LED UFO High Bay IP65 1-10V 865
NJP/150/1-10V/865	63807181-U		Jupiter 150W LED UFO High Bay IP65 1-10V 865
NJP/200/1-10V/865	63808181-U		Jupiter 200W LED UFO High Bay IP65 1-10V 865
NJP/PLUG-IN/MW/SENSOR	70209101-U	ACCESSORIES	Jupiter Plug-In MW Sensor
NJP/MW/PROG/HS	70210101-U		Jupiter Plug-In MW Sensor Programming Handset
NJP/REFL/100-150-200	70511101-U		Jupiter ALI Reflector For 100W/150W/200W
NJP/REFR/100-150-200	70512101-U		Jupiter PC Refractor For 100W/150W/200W
NJP/SMB/100-150-200	70320101-U		Jupiter 100W/150W/200W Stirrup Mount Bracket Kit



LED Post-top Light

NPTLED351



FEATURES

- Die-casting aluminium housing
- Powder coated surface treatment
- PC diffuser
- Driver included
- 2500mm pole included
- Foundation included
- Choice of three finishes:
 - Dark grey (similar to RAL 7037)
 - Black (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP65 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance-free
- Easy installation with pole and foundation
- Easier self-cleaning with modern design

TECHNICAL DETAILS

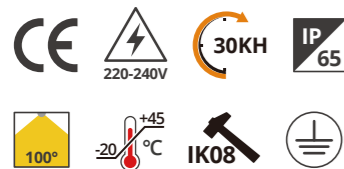
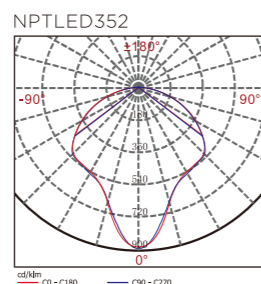
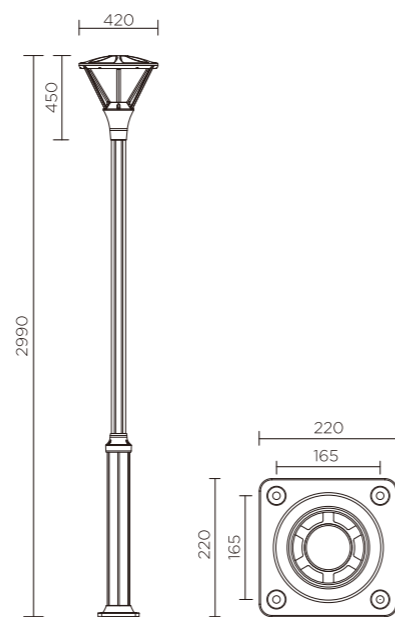
- COB LEDs
- CRI≥80
- CCT available: 3000K/4000K/6500K
- Beam angle: 135°
- IK 08 rating
- IP65 rating

APPLICATIONS

- For functional, architectural and decorative lighting
- Hotels, offices and residential developments

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NPTLED351 60W	87003436	110-240V	60W	3000K (selectable 4000K/6500K)	6000lm	100	80	135°	0.9	30000hrs

NPTLED352



FEATURES

- Extruded aluminium housing
- Clear PC cover
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
 - Dark grey (similar to RAL 7037)
 - Black (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

- IP65 and solid housing to be applicable in harsh applications
- Three finish colors available to be harmony with outdoor lighting designs
- Long lifetime of up to 30,000hrs, maintenance- free
- Easy installation with pole and foundation
- Easier self-cleaning with modern design

TECHNICAL DETAILS

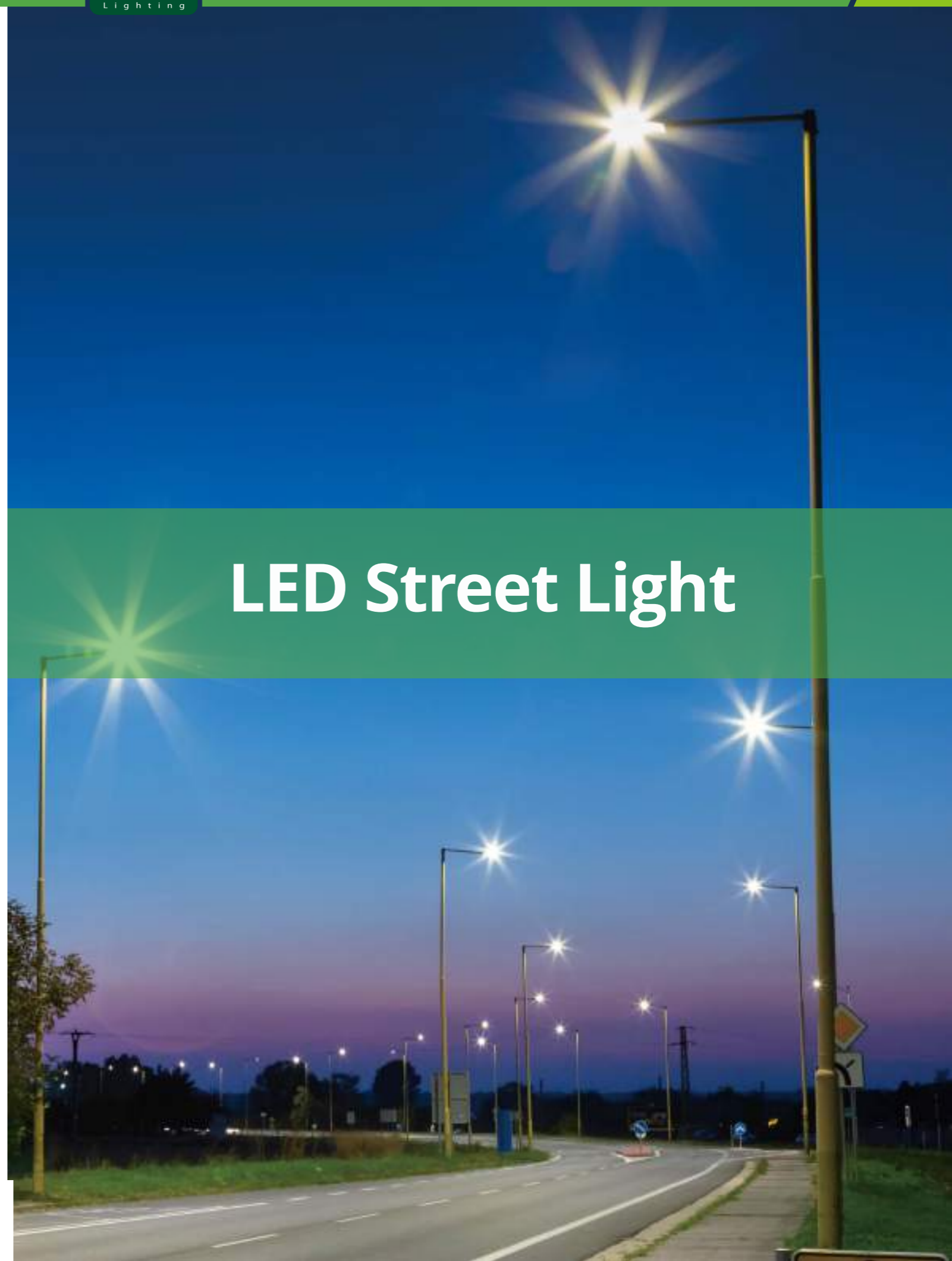
- High power LEDs
- CCT available: 3000K/4000K/6500K
- CRI≥80
- Beam angle: 100°
- IK 08 rating
- IP65 rating

APPLICATIONS

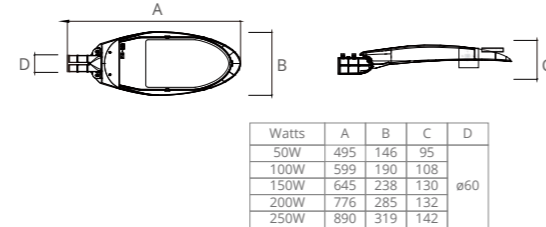
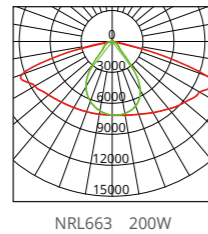
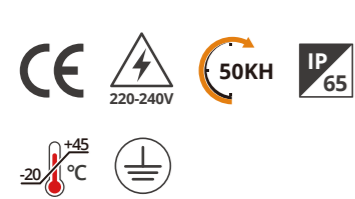
- Lawns
- Gardens
- Paths

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NPTLED352 36W	70090034	220-240V	36W	3000K (selectable 4000K/6500K)	2700lm	75	80	100°	0.9	30000hrs

LED Street Light



NRL663



FEATURES

- Die-cast aluminum housing and Polycarbonate lens with glass
- Streamlined and unique appearance design
- Smooth housing design to avoid dust
- 6KV SPD

PRODUCT BENEFITS

- High-power LED
- Long lifetime of up to 50,000hrs
- Excellent heat dissipation performance
- Support horizontal and vertical installation, the installation angle can be adjusted by 15 degree

TECHNICAL DETAILS

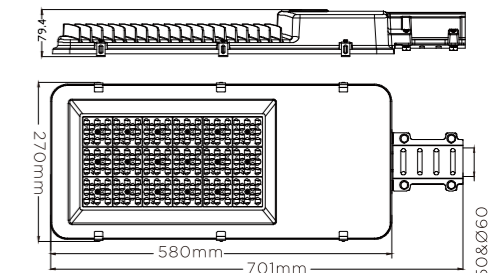
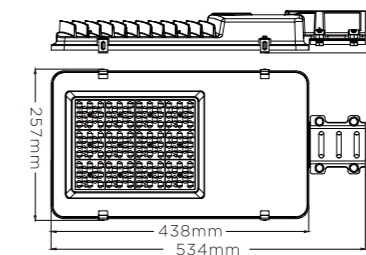
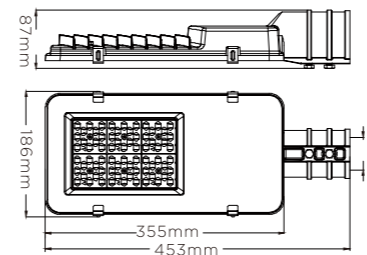
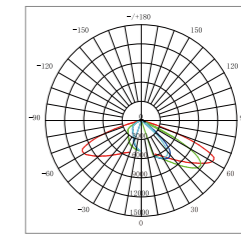
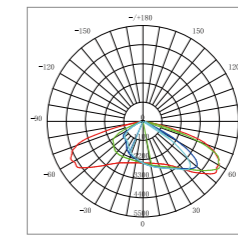
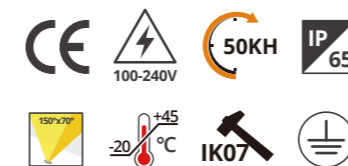
- 3030 LEDs
- CCT available: 4000K/5000K
- Driver PF≥0.9
- Operation Temperature: -20°C~+45°C
- IP65 rating
- IK07 rating
- 1-10V dimming optional

APPLICATIONS

- Urban expressway
- Trunk road
- Branch road
- Residential district
- Courtyard

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NRL663	87003240	220-240V	50W	4000K	6500lm	130	70	150*70°	0.9	50000hrs
	87003241			5000K						
	87003242		4000K	100W	13000lm					
	87003243		5000K							
	87003244		4000K	150W	19500lm					
	87003245		5000K							
	87003246		4000K	200W	26000lm					
	87003247		5000K							
	87003248		4000K	250W	32500lm					
87003249	5000K									

NRWLED627



NRWLED627 60W

NRWLED627 100W
NRWLED627 120W

NRWLED627 150W
NRWLED627 180W

FEATURES

- Die-cast aluminium housing
- Powder coated surface treatment
- Tempered glass front cover
- PC lens
- Driver included
- 6KV SPD

PRODUCT BENEFITS

- IP65 and solid housing to be applicable in harsh applications
- High lumen efficiency to save energy
- Long lifetime of up to 50,000hrs, maintenance- free
- Complete lumen package solutions

TECHNICAL DETAILS

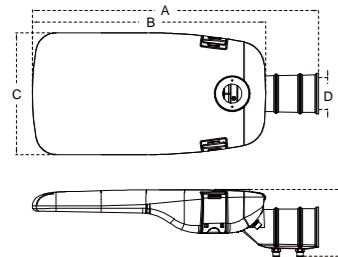
- LUMILEDS LEDs
- CRI≥80
- CCT available: 3000K/4000K/5700K
- IP65 rating
- IK07 rating
- 1-10V dimming optional

APPLICATIONS

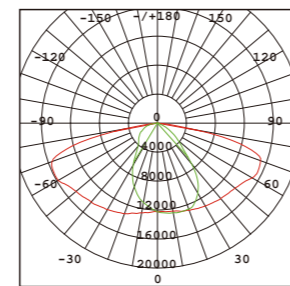
- Roads
- Car parks
- Residential areas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NRWLED627 60W	87003454/3455/1373	220-240V	60W	3000K 4000K 5700K	7200 lm	120	80	150*70°	≥0.95	50000hrs
NRWLED627 100W	70092378/79/80	100-240V	100W		12000 lm					
NRWLED627 120W	70092381/82/83		120W		14400 lm					
NRWLED627 150W	70092384/85/86		150W		18000 lm					
NRWLED627 180W	70092387/88/89		180W		21600 lm					

NRL629



Watts	A	B	C	D	E
30W/50W	540	440	230		126
80W/100W	640	540	280	ø60	128
120W/150W/180W	750	650	336		128
250W/280W/300W	770	670	396		138



NRL629 300W

FEATURES

- Die-cast aluminum housing
- High lumen output, long lasting good stability
- Optimized light distribution
- Suitable for vertical, horizontal installation
- Powder coated surface treatment
- Tempered glass optical cover and dark gray fitting colour
- Driver included

PRODUCT BENEFITS

- IP66 and solid housing to be applicable in harsh applications
- High lumen efficiency to save energy
- Long lifetime of up to 50,000hrs, maintenance- free
- Complete lumen package solutions

TECHNICAL DETAILS

- Wide voltage: AC100~240V
- Surge protection up to 10KV
- PC lens
- IK08 rating
- IK66 rating
- CCT available: 3000K/4000K
- 1-10V dimming optional

APPLICATIONS

- Road
- Yard
- Plaza
- Car Parks
- Residential Area

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NRL629 30W	87001582/83	100-240V	30W	3000K 4000K	4200 lm	140	80	160*90°	≥0.95	50000hrs
NRL629 50W	87001584/85		50W		6500 lm	130				
NRL629 80W	87001586/87		80W		10800 lm	135				
NRL629 100W	87001588/89		100W		13100 lm	131				
NRL629 120W	87001590/91		120W		15600 lm	130				
NRL629 150W	87001592/93		150W		19500 lm	130				
NRL629 180W	87001594/95		180W		23700 lm	132				
NRL629 250W	87001596/97		250W		34000 lm	136				
NRL629 280W	87001598/99		280W		37700 lm	135				
NRL629 300W	87001600/01		300W		39700 lm	132				

Global Quality Approvals & Symbol Keys

CE This mark is a declaration that the product in question meets the requirements of the applicable EU directives. In the case of lighting products this means that they comply with the Low Voltage Directive (LVD), the Electromagnetic Compatibility (EMC) Directive and the Restrictions of the Use of Certain Hazardous Substances Directive (RoHS). It is the responsibility of the lighting manufacturer to ensure that all their products that are sold in the European Economic Area carry the CE mark.

Class I. The product is provided with basic insulation and all exposed conductive parts are connected to an earth terminal

Class II. Basic and supplementary insulation in accordance with BS EN60598. No provision for an earth connection.

Class III. Separated extra-low voltage. No voltages higher than 50v AC or 120v DC are generated.

Mains voltage 12V AC/DC

Mains voltage 100~240V AC

Mains voltage 220V AC

Mains voltage 220-240V AC

IP rating. All fittings are IP20 unless otherwise stated. A table of Ingress Protection values is to be found on page 136.

It can not be dimmed .

Mains dimming. The fitting can be dimmed with mains dimming function .

Analogue dimming. The fitting can be dimmed with analogue dimming.

Digital dimming. The fitting can be dimmed with DALI , switch dim and corridor function.

Step dimming. The fitting can be dimmed with step dimming.

Beam angle . The angle of the beam dictates the size of the area to be covered in light .

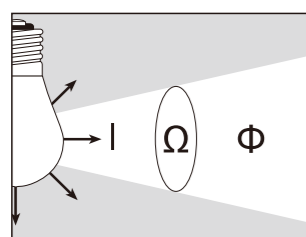
Fresh light. Luminaire suitable for applications where natural colour is required.

Glossary of the Most Important Lighting Terms

As with any technical or scientific discipline, lighting technology has its own special terms and concepts for defining the characteristics of lamps and luminaires and for standardizing the units of measurement. The most important of these are described here.

Luminous flux Φ

Unit of measurement: lumen [lm]. Luminous flux Φ is all the radiated power emitted by a light source evaluated with the spectral sensitivity of the eye and the photometric radiation equivalent km.

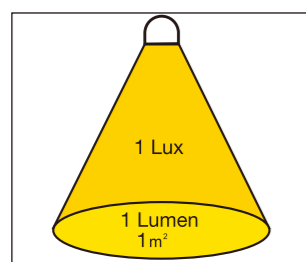


Luminous flux Φ
Luminous intensity I
is a measure of the luminous flux Ω emitted in solid angle Φ .

Illuminance E

Unit of measurement: lux [lx]. Illuminance E is the ratio between the luminous flux and the area being illuminated.

An illuminance of 1 lx occurs when a luminous flux of 1 lm is evenly distributed over an area of 1 m².



Illuminance E

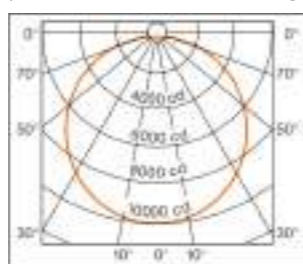
Light and radiation

Light is taken to mean the electromagnetic radiation that the human eye perceives as brightness, in other words that part of the spectrum that can be seen. This is the radiation between 360 and 830 nm, a tiny fraction of the known spectrum of electromagnetic radiation.

Luminous intensity I

Unit of measurement: candela [cd]. Generally speaking, a light source emits its luminous flux Φ in different directions and at different intensities.

Luminous intensity is the luminous flux radiated in a particular direction (solid angle Ω).

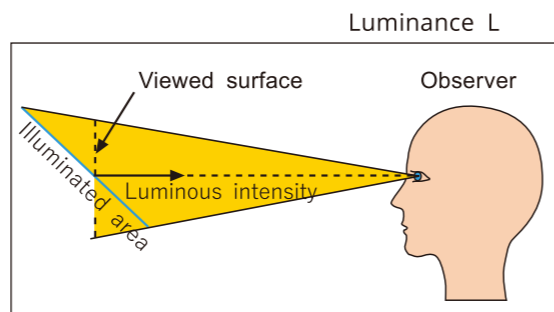


Polar diagram

Luminance L

Unit of measurement: candela per square meter [cd/m²].

The luminance L of a light source or an illuminated area is a measure of the impression of brightness.



Luminance L

The most important photometric formulae:

Luminous intensity [cd]	I	$\frac{\text{Luminous flux}}{\text{Solid angle } \Omega \text{ [sr]}}$	Luminance [cd/m ²]	L	$\frac{\text{Luminous intensity [cd]}}{\text{Viewed luminous area [m}^2\text{]}}$
Illuminance [lx]	E	$\frac{\text{Luminous flux falling on area [lm]}}{\text{Illuminated area [m}^2\text{]}}$	Lum. efficacy [lm/W]	h	$\frac{\text{Generated luminous flux [lm]}}{\text{Electrical power consumed [W]}}$

IP Rating

Luminaires are rated according to their resistance to the ingress of both liquids and solids by the code defining their Index of Protection (explained below)-often known as an "IP" Rating which you will find next to every product in this catalogue.

IP ratings explained

"IP" ("Ingress Protection") Rating

First digit

Protection against ingress of foreign bodies e.g. tools, dust, fingers, etc.

Second digit

Protection against ingress of liquids

Foreign Bodies First digit		Liquids Second digit	
IP0 _X	No-protection	IPX0	No-protection
IP1 _X	Protected against solid objects greater than 50mm (e.g. accidental touch by hands)	IPX1	Protected against vertically falling drops of water (e.g. condensation)
IP2 _X	Protected against solid objects up to 12mm (e.g. fingers)	IPX2	Protected against direct sprays of water up to 15 degrees from vertical
IP3 _X	Protected against solid objects greater than 2.5mm (e.g. tools and wires)	IPX3	Protected against direct sprays of water up to 60 degrees from vertical
IP4 _X	Protected against solid objects greater than 1mm (e.g. small tools and wires)	IPX4	Protected against water sprays from all directions-limited ingress permitted
IP5 _X	Protected against dust, limited ingress (e.g. no harmful deposit)	IPX5	Protected against low pressure jets of water from all directions-limited ingress permitted
IP6 _X	Totally protected against dust	IPX6	Protected against high pressure jets of water (use on ship deck)-limited ingress permitted
		IPX7	Protected against the effects of immersion between 15cm and 1m
		IPX8	Protected against long periods of immersion under pressure

IK Rating (Impact Resistance)

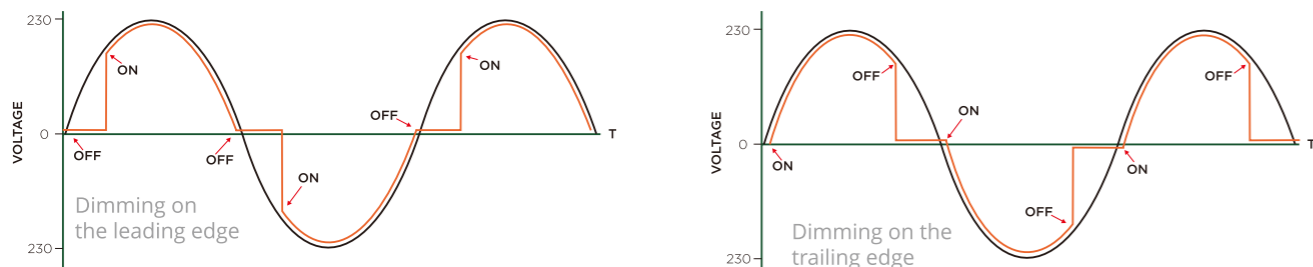
Table - Relation between IK code and impact energy

IK00	Not Protected	IK06	Impact tested to withstand 1 joules (0.25Kg mass dropped from 400mm)
IK01	Impact tested to withstand 0.14 joules (0.25Kg mass dropped from 56mm)		
IK02	Impact tested to withstand 0.2 joules (0.25Kg mass dropped from 80mm)	IK07	Impact tested to withstand 2 joules (0.5Kg mass dropped from 400mm)
IK03	Impact tested to withstand 0.35 joules (0.25Kg mass dropped from 140mm)	IK08	Impact tested to withstand 5 joules (1.7Kg mass dropped from 300mm)
IK04	Impact tested to withstand 0.5 joules (0.25Kg mass dropped from 200mm)	IK09	Impact tested to withstand 10 joules (5Kg mass dropped from 200mm)
IK05	Impact tested to withstand 0.7 joules (0.25Kg mass dropped from 280mm)	IK10	Impact tested to withstand 20 joules (5Kg mass dropped from 400mm)

Dimming

MAINS DIMMING

Fluorescent fittings and many LED fittings cannot be dimmed with 50Hz (phase) dimmers. Whether these are leading or trailing edge dimmers, the control gear or driver cannot operate correctly if it is switched off for a variable period twice in every mains cycle (which is how a mains dimmer works, see diagrams below). If mains dimming (abbreviated to MD) is not mentioned on any page in this catalogue it should be assumed that the fitting in question is not mains dimmable.



HF DIMMING

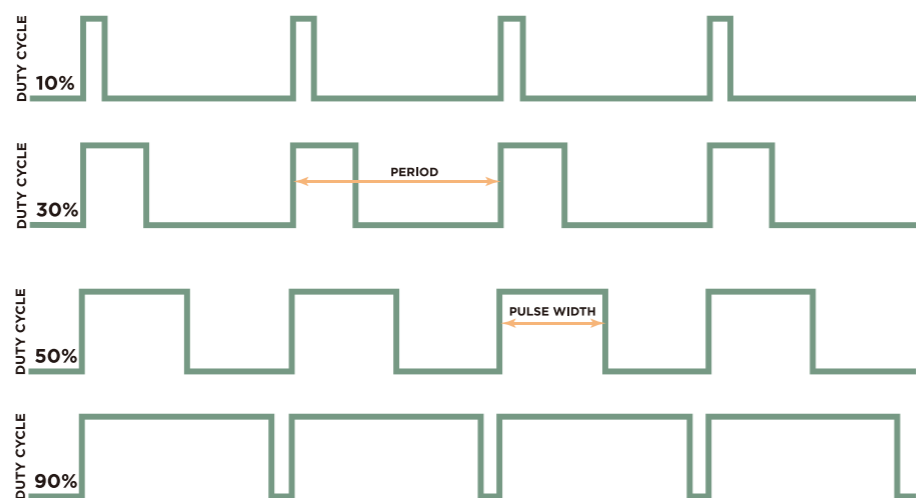
Many fittings can be dimmed if the correct driver is used. To do this the driver is permanently connected to mains power but also receives a dimming control signal, instructing it to increase or lower the light output.

On receipt of a dimming control signal a driver will dim the fittings by use of pulse width modulation, amplitude modulation or sometimes a combination of them both.

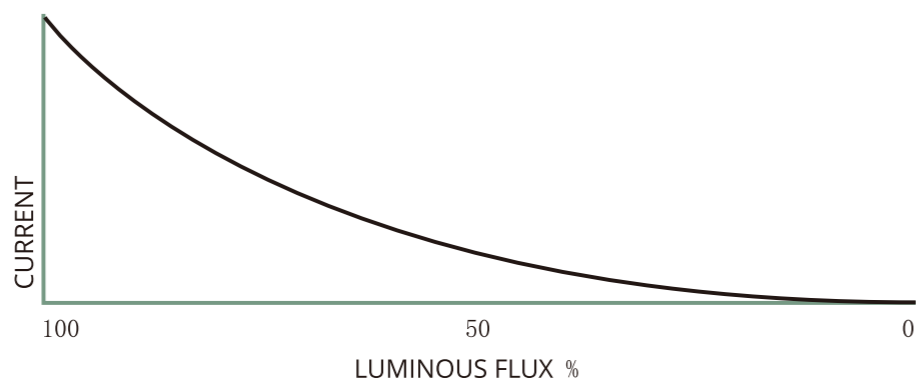
Pulse width modulation (PWM) entails turning the LEDs on and off. The % "on" time is the duty cycle. The higher the duty cycle the brighter the light appears to be to the human eye. PWM has many advantages as a dimming method (efficiency, simplicity of implementation and low cost), but it has disadvantages too, one of which is the risk of discernible flicker and stroboscopic effects.

Amplitude modulation (AM) involves the gradual reduction of the drive current to bring about a reduction in light output. This method of dimming avoids the risk of visible flicker but it lacks the simplicity and efficiency of PWM.

Some driver manufacturers use a combination of PWM and AM to achieve the best possible performance.



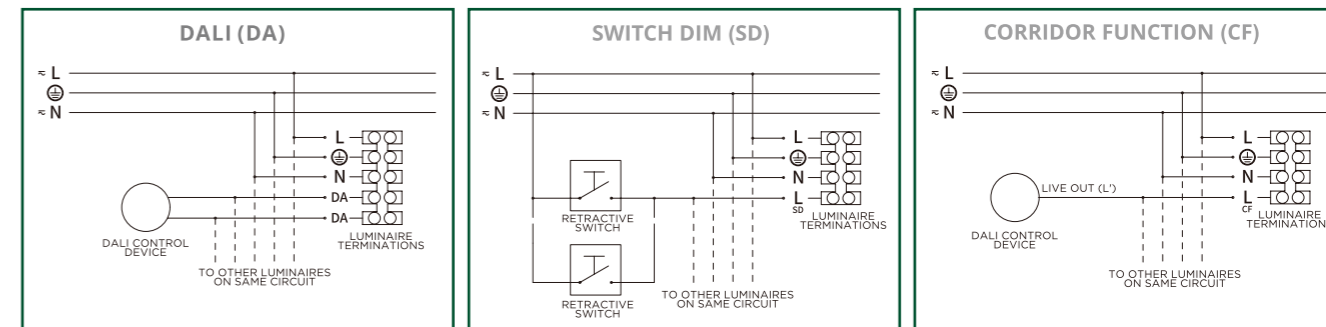
Pulse Width Modulation



Amplitude Modulation

DIMMING CONTROL SIGNALS

There are three types of dimming control signal that we offer as standard options and it may be helpful to think of them as languages – a means by which the driver is told what to do. The three types of dimming control signal we offer are as follows:



DALI

Typically, a DALI control signal will be generated by a sensor or a lighting control system. Manually operated rotary knobs that generate a DALI control signal are available (at some cost), but if pure manual control is required we would usually recommend switch dim as the simpler and more economical solution.

SWITCH DIM

Switch dim is a means of controlling a luminaire via a retractive switch. It is a low-cost, intuitive and easy-to-install approach to providing manual dimming control.

CORRIDOR FUNCTION

Corridor function can be operated by an occupancy sensor, time switch or manual switch. When the switch contact is "made" the light output will be 100%; when the contact is broken the light output will be 10%, or some other value that may be programmed in the driver or control gear.

Other dimming control options are available, including 1-10v (analogue dimming) and DSI (digital serial interface). If one of these is needed, please check availability and lead-time before ordering.

Flicker

Almost all LEDs flicker to some extent and this is often increased during dimming. Flicker is caused by Ripple Current - a regular fluctuation of the output of the driver. The best drivers have current ripple of less than 10%, but on others the ripple can be several times this.

The frequency of flicker varies greatly from product to product, but with LEDs it is generally in the range of 100 – 1,000Hz. By comparison, mains flicker (as with switch-start products) is 50Hz and fluorescent Hf products are operating typically at 40,000-60,000Hz.

The extent of flicker is measured in two ways, Percent Flicker and Flicker Index. In both cases a low figure indicates better performance. A poor LED fitting might have a percent flicker of 50 and a flicker index of 0.3. A better fitting might have a percent flicker of 17.5 and a flicker index of 0.05.

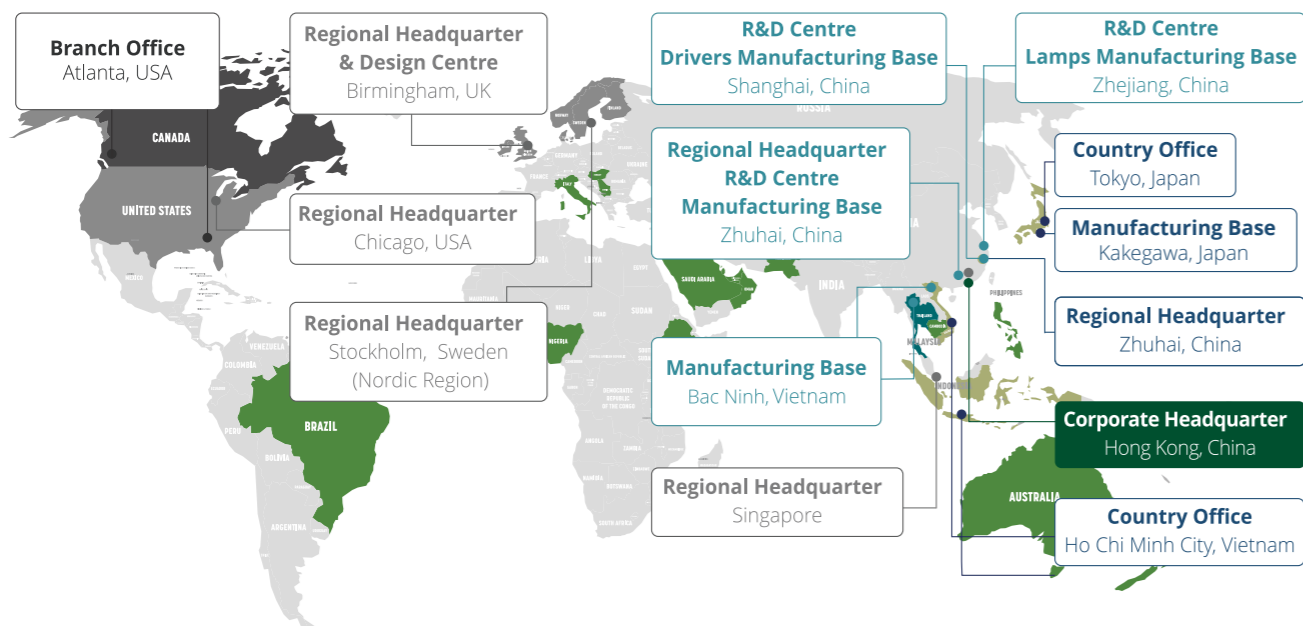
Frequency effects our perception of flicker; a flicker index of 0.2 might be deemed unacceptable at 100Hz, but acceptable at 300Hz. It is therefore not helpful for a manufacturer to claim "My flicker index is better than yours." The extent to which flicker matters (or not) is a function of the extent of the flicker and the frequency.

Can we see flicker? Generally we cannot see flicker, but some people are sensitive to it and for them it can cause headaches, as was the case with people working under some old fluorescent fittings operating at 50Hz.

A digital camera is not the best way to judge flicker. What you see through a digital camera is a function of LED flicker and the camera's frequency of operation.



► Our Sales & Support Network



Corporate Headquarters

Hong Kong (SAR), China

Regional Headquarters

Zhuhai, China Birmingham, UK Chicago, USA Singapore Sweden, Stockholm (Nordic Region)

Country Office

Tokyo, Japan Ho Chi Minh City, Vietnam

Branch Office

Atlanta, USA

Manufacturing Bases / R&D Centres

Shanghai, China Zhejiang, China Zhuhai, China Shenzhen, China Bac Ninh, Vietnam

Local Representatives

Oman Qatar Kuwait Saudi Arabia U.A.E

Distributors

Australia Brazil Cambodia Ethiopia Hungary Iraq Jordan
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