

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



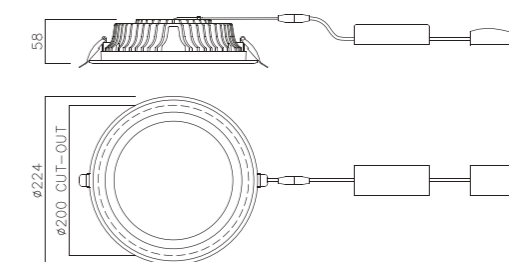
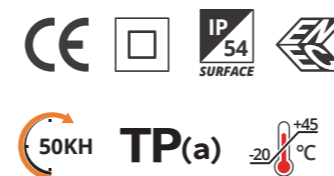
58-62 LED Industrial Light



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

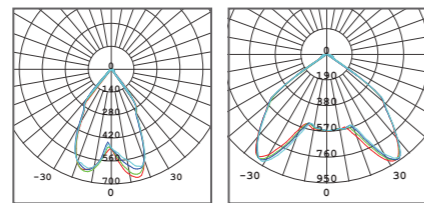
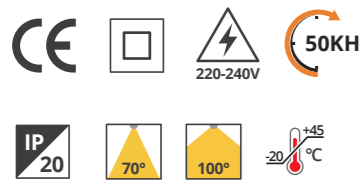
APPLICATIONS

- 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

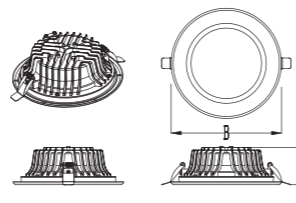
NDL964

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

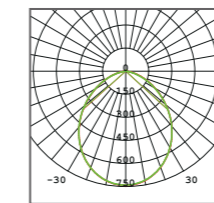
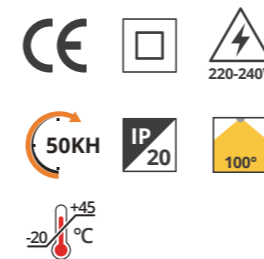
APPLICATIONS

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

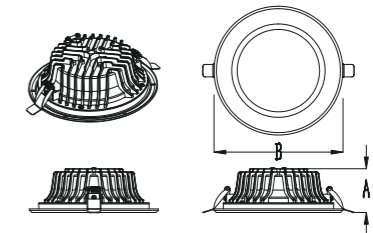
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9643	87002750/751/752	220-240V	7W	3000K/ 4000K/ 6000K	620lm	89	80	70°	0.9	50000hrs
NDL9644	87002753/754/755		10W		1000 lm	100		100°		
NDL9646	87002756/757/758		20W		1940 lm	97				
NDL9648A	87002759/760/761		30W		2900 lm	97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

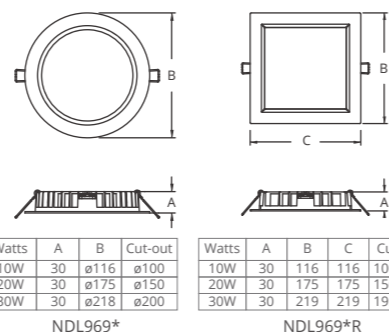
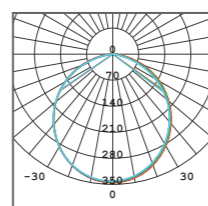
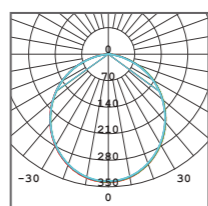
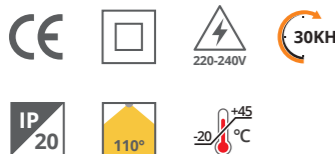
APPLICATIONS

- 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



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

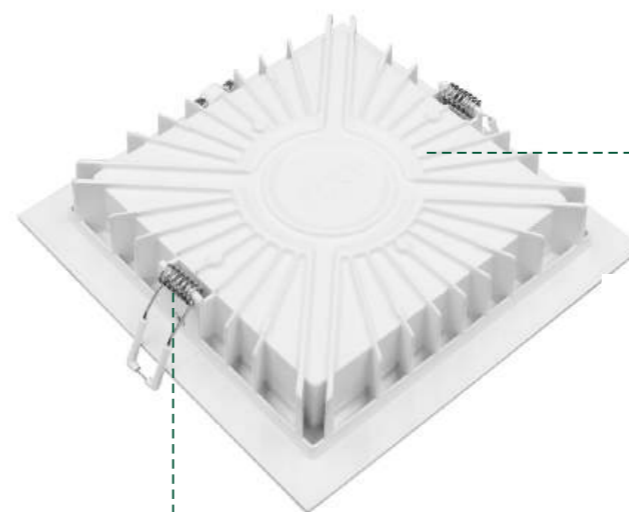
The ripple (fluctuation of the output) from the driver is less than 3.2%. This means that the flicker of the LEDs is so low that at a distance of more than 20cm no flicker is visible at all. This creates a better lit environment with less risk of sore eyes, tiredness and headaches.

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.

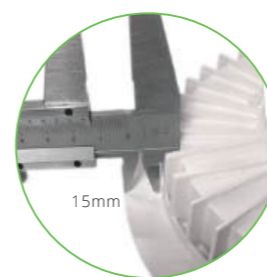
High quality design and materials

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.



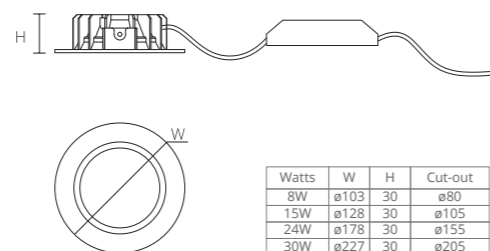
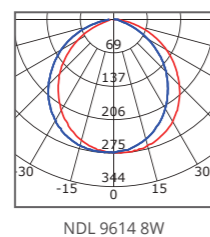
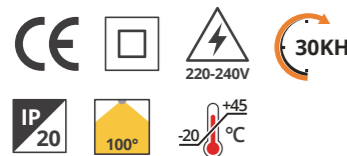
Wide bezel

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

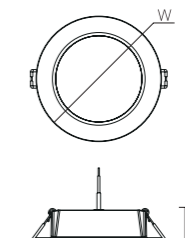
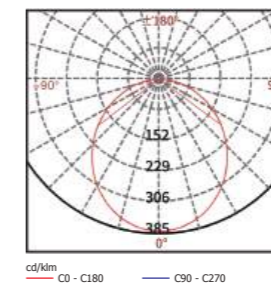
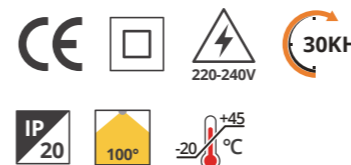
APPLICATIONS

- 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°C
- Efficiency up to 95 lm/w

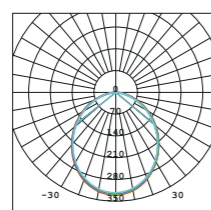
APPLICATIONS

- Office
- Shopping mall
- Retail store
- Residential area

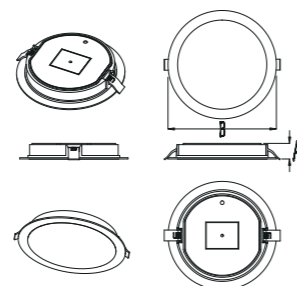
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9203	87000540/41/42	220-240V	5W	3000K 4000K 6500K	400 lm	80	80	100°	≥0.5	30000hrs
NDL9204	87000543/44/45		8W		640 lm	80				
NDL9205	87000546/47/48		12W		1020 lm	85				
NDL9206	87000549/50/51		15W		1425 lm	95				
NDL9208	87000552/53/54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

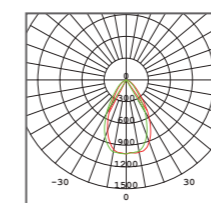
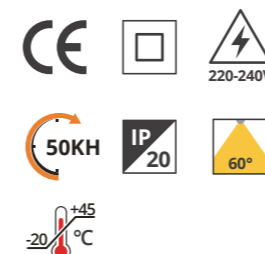
APPLICATIONS

- Living rooms
- Kitchen
- Hotel rooms
- Corridors

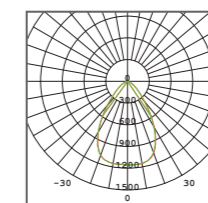
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9103	87002729/730/731	220-240V	6W	3000K/ 4000K/ 6500K	540 lm	90	80	100°	0.9	30000hrs
NDL9104	87002732/733/734		12W		1080 lm					
NDL9106	87002735/736/737		18W		1620 lm					
NDL9108A	87002738/739/740		24W		2160 lm					
NDL9108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

NDL923

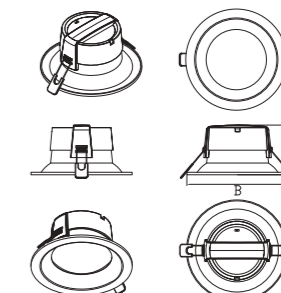
Dip Switch CCT LED Downlight



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

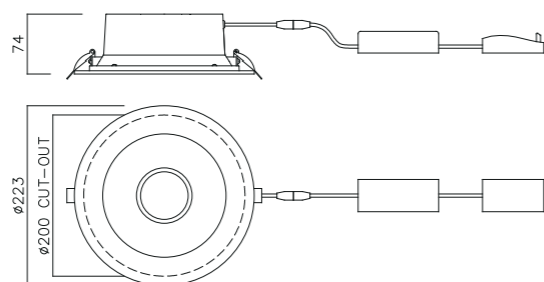
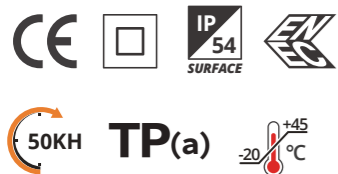
- Corridors
- Offices & Meeting rooms
- Malls & Retailers
- Residential areas

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					



WESTMINSTER

IP54 rated low-glare commercial downlight with medium-beam light distribution



CONSTRUCTION

- Die-cast aluminium bezel, painted white
- Die-cast aluminium heat sink & body, painted black
- Specular aluminium reflector
- Polycarbonate opal diffuser TP(a) rated, deep recessed
- 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., 1,462 lm, 121 l.lm/c.W
 - 20W nom, 17.2W act., 2,097 lm, 122 l.lm/c.W
 - 30W nom, 31W act., 3,466 lm, 112 l.lm/c.W
- CRI>80
- Medium angle, 60° light distribution
- Low glare, UGR<21 in any typical application
- 4000/6500K

APPLICATIONS

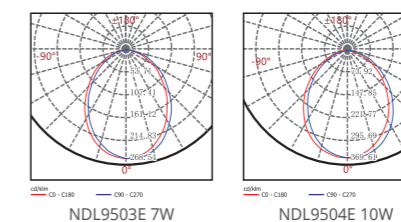
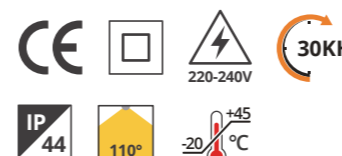
- Corridors & circulation areas
- Changing rooms, toilets and under-canopy
- General lighting in areas with higher ceilings

ORDER CODE	Part Number	CCT	DESCRIPTION
NWM12/840	63307141-U	4000K	Westminster 12W LED Recessed Low Glare Deep Downlight 840
NWM20/840	63307241-U		Westminster 20W LED Recessed Low Glare Deep Downlight 840
NWM30/840	63307341-U		Westminster 30W LED Recessed Low Glare Deep Downlight 840
NWM12/865	63307181-U	6500K	Westminster 12W LED Recessed Low Glare Deep Downlight 865
NWM20/865	63307281-U		Westminster 20W LED Recessed Low Glare Deep Downlight 865
NWM30/865	63307381-U		Westminster 30W LED Recessed Low Glare Deep Downlight 865



NDL950*E

Economical IP44 downlight



Watts	A	B	Cut-out
5W/7W	ø95	58	ø75
8W/10W	ø113	59	ø95
14W/17W	ø174	69	ø150
20W/25W	ø244	85	ø200

FEATURES

- Body and heat sink made of white plastic coated aluminum
- Nano-coated internal reflector for maximum efficiency
- Opal diffuser
- Integrated non-dimmable driver
- Available in four sizes and 8 wattages as listed below: 3 inch, 4 inch, 6 inch and 8 inch

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
- Push-fit (screwless) terminal block for fast installation
- Terminal block cover with built-in strain relief
- CCT available: 3000K / 4000K / 5700K
- Operating temperature: -20°C~+45°C

APPLICATIONS

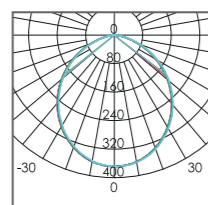
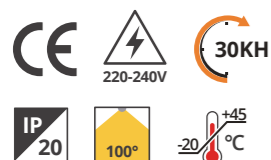
- Kitchen
- Washroom
- Corridor and living area in home
- Small commercial project

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL9503E 5W	87002273/74/75	220-240V	5W	3000K 4000K 5700K	460 lm	92	80	110°	≥0.5	30000hrs
NDL9503E 7W	87002276/77/78		7W		650 lm	93				
NDL9504E 8W	87002279/80/81		8W		760 lm	95				
NDL9504E 10W	87002282/83/84		10W		1000 lm	100				
NDL9506E 14W	87002285/86/87		14W		1400 lm	100				
NDL9506E 17W	87002288/89/90		17W		1800 lm	106				
NDL9508E 20W	87002291/92/93		20W		2200 lm	110			≥0.9	
NDL9508E 25W	87002294/95/96		25W		2750 lm	110				

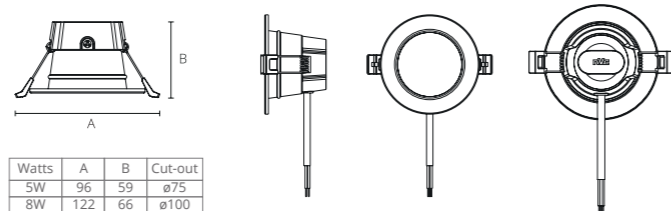


NDL922

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

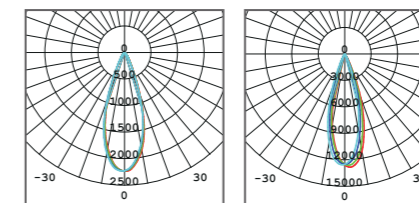
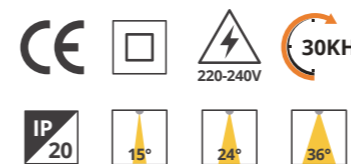
APPLICATIONS

- 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				

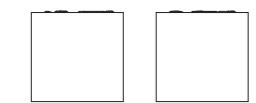
NDL928

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

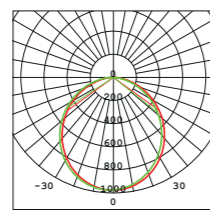
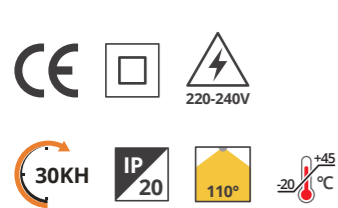
- Corridors
- Offices & Meeting rooms
- Malls & Retail
- Residential areas

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				

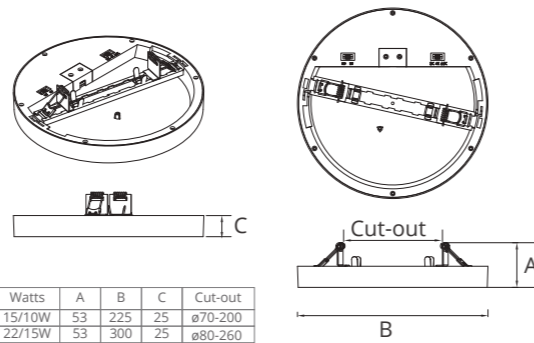


NDL203

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

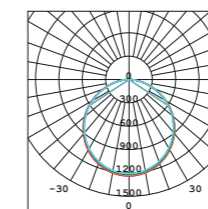
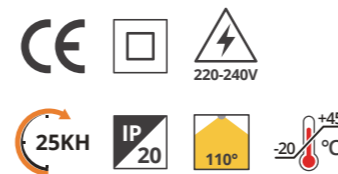
APPLICATIONS

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

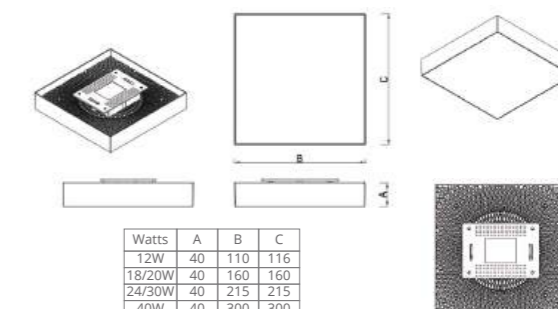
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL203A	87002715	220-240V	15W/10W	3000K/4000K/6500K (Dip Switch)	1720 lm/1150 lm	115	80	110°	0.9	30000hrs
NDL203B	87002716		22W/15W	2530 lm/1720 lm						

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

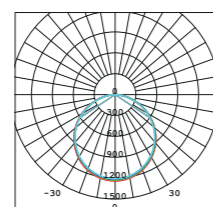
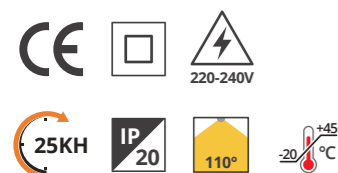
APPLICATIONS

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

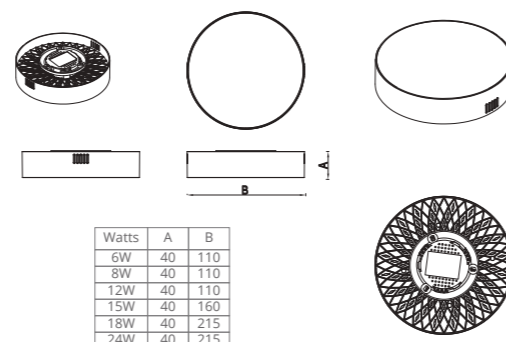
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL2024SM 99	87002801/802/803	220-240V	12W	3000K/4000K/6500K	1080 lm	90	80	110°	0.5	25000hrs
NDL2026SM 99	87002804/805/806		18W		1620 lm					
NDL2026SM 99	87002807/808/809		20W		1800 lm					
NDL2028SM 99	87002810/811/812		24W		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	3000K/4000K/6500K	90	80	110°	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 & Retailis
- Corridors
- Residential ares

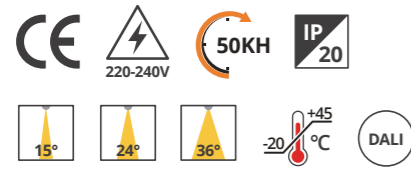
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NDL2024M 99	87002765/766/767	220-240V	6W	3000K/ 4000K/ 6500K	540 lm	90	80	110°	0.5	25000hrs
NDL2024M 99	87002768/769/770		8W		720 lm					
NDL2024M 99	87002771/772/773		12W		1080 lm					
NDL2026M 99	87002774/775/776		15W		1350 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

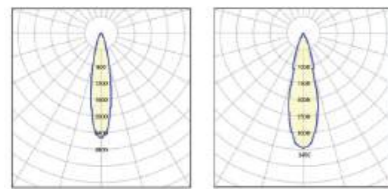


NSP803

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

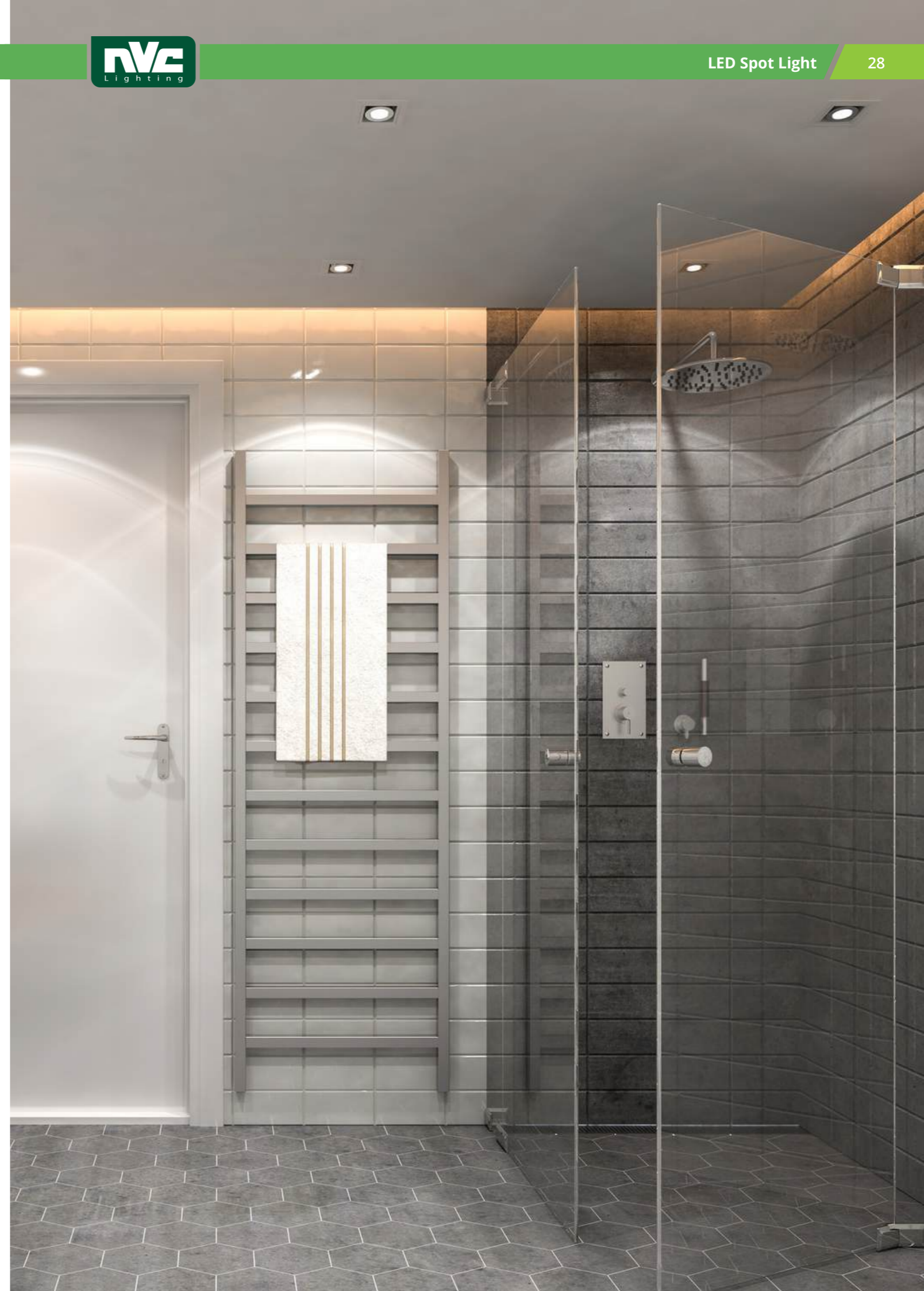
TECHNICAL DETAILS

- 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.

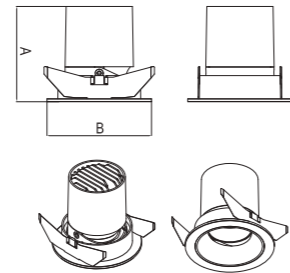
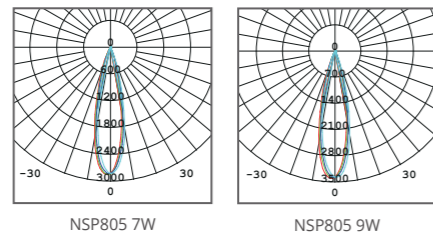
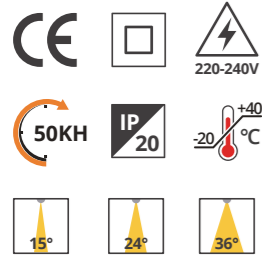
APPLICATIONS

- 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

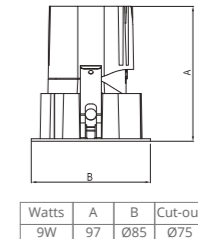
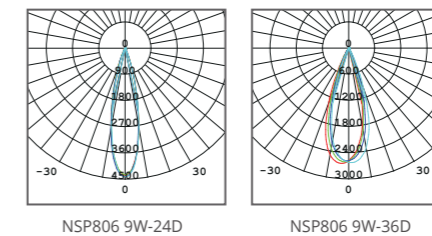
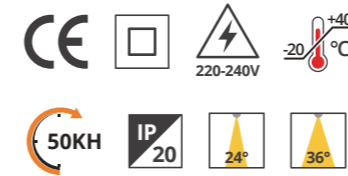
- COB LEDs
- Excellent color rendering up to RA90
- CCT available: 2700K / 3000K / 4000K
- No flicker driver design
- Operating temperatures: -20°C~+40°C
- Beam angles choices:15°/24°/36°

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

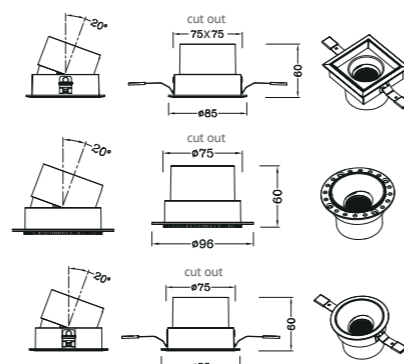
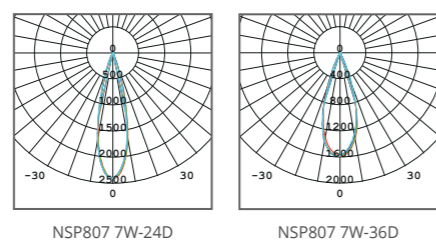
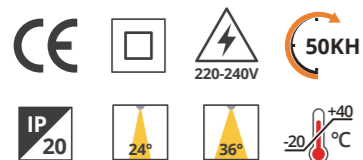
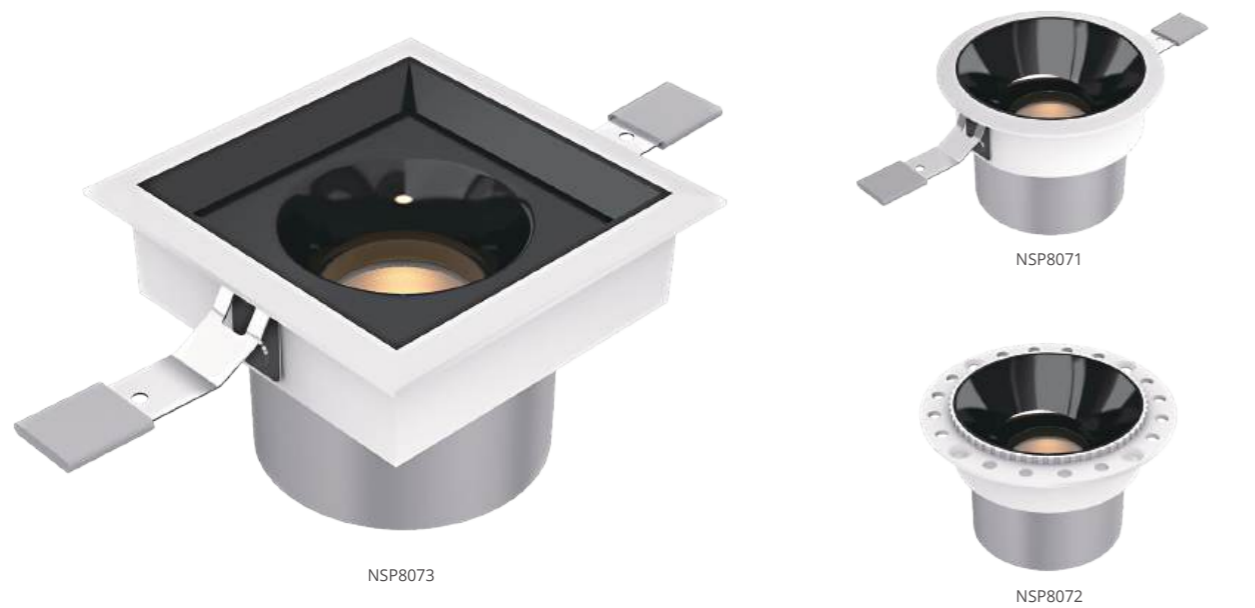
- COB LEDs
- Excellent color rendering up to RA90
- CCT available: 2700K / 3000K / 4000K
- No flicker driver design
- Operating temperatures: -20°C~+40°C
- Beam angles choices:24°/36°

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°

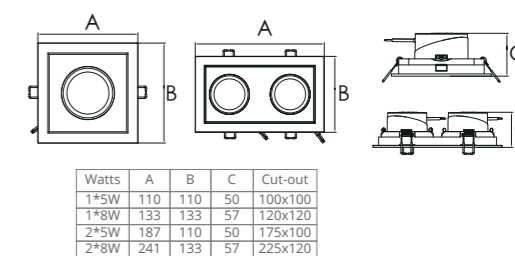
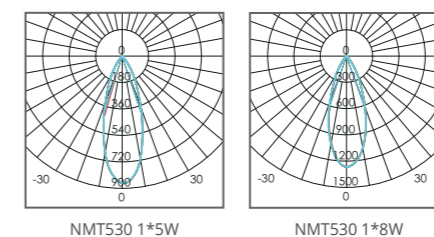
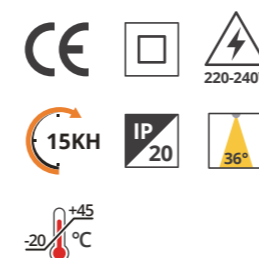
APPLICATIONS

- 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



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

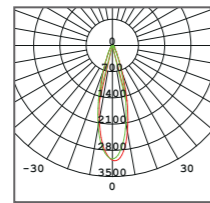
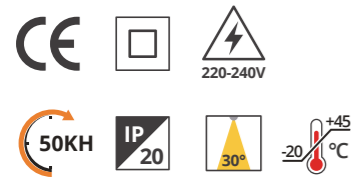
APPLICATIONS

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

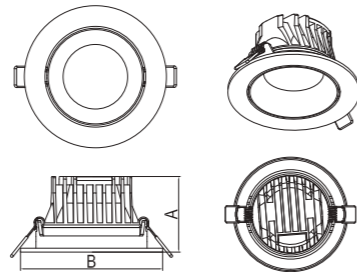
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NMT5301B	87002216/17/18	220-240V	1*5W	3000K/ 4000K/ 5700K	350/375/375 lm	70-75	80	36°	0.5	15000hrs
NMT5302B	87002219/20/21		2*5W		700/750/750 lm					
NMT5301D	87002222/23/24		1*8W		560/600/600 lm					
NMT5302D	87002225/26/27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

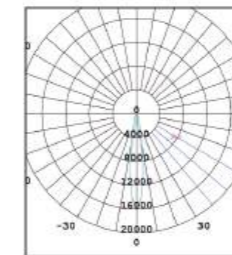
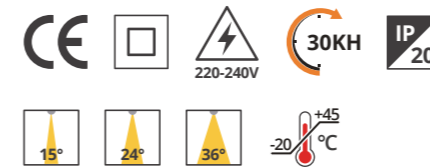
APPLICATIONS

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

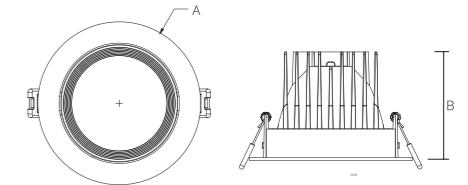
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSP1511	87002957/958/959	220-240V	5W	2700K/ 3000K/ 4000K	450 lm	90	80	30° (selectable24°)	0.9	50000hrs
NSP1512	87002960/961/962		7W		590 lm	84				
NSP1513	87002963/964/965		10W		910 lm	95				
NSP1514	87002966/967/968		16W		1570 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	90			≥0.9				
NSP1601	87001152/55/58			4000K									
NSP1601	87001153/56/59			6500K									
NSP1602A	87001160/63/66		12W	3000K	1100 lm	90			≥0.9				
NSP1602A	87001161/64/67			4000K									
NSP1602A	87001162/65/68			6500K									
NSP1602	87001169/72/75			3000K							1350 lm	90	≥0.9
NSP1602	87001170/73/76			4000K									
NSP1602	87001171/74/77			6500K									
NSP1603A	87001178/81/84		24W	3000K	2300 lm	95			≥0.9				
NSP1603A	87001179/82/85			4000K									
NSP1603A	87001180/83/86			6500K									
NSP1603	87001187/90/93		30W	3000K	2600 lm	86			≥0.9				
NSP1603	87001188/91/94			4000K									
NSP1603	87001189/92/95			6500K									

NSP1180

Recessed LED spot light with a range of bezels

12W/15W
7W/9W

NSP1180-1 Adjustable double ring small
NSP1180-2 Adjustable double ring large
NSP1180-3 Fixed round glare-proof
NSP1180-4 Adjustable round glare-proof
NSP1180-5 Fixed square glare-proof
NSP1180-6 Adjustable square glare-proof

CE, 220-240V, 30KH, IP20, IP54, 15°, 24°, 36°, -20 to +45 °C

NSP1180 7W 36° NSP1180 12W 24°

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			
	87001959/63/67			3000K									
	87001960/64/68			4000K									
	87001961/65/69			6000K									
	87001970/74/78			2700K									
	87001971/75/79			3000K									
	87001972/76/80		4000K										
	87001973/77/81		6000K										
	87001982/86/90		2700K	12W	1150 lm	96							
	87001983/87/91		3000K										
	87001984/88/92		4000K										
	87001985/89/93		6000K										
	87001994/98 87002002		2700K								15W	1360 lm	91
	87001995/99 87002003		3000K										
	87001996 87002000/04		4000K										
	87001997 87002001/05		6000K										

NSP1190

Recessed LED spot light with a range of bezels

NSP1190-1 Fixed round ring small
NSP1190-2 Fixed round ring large
NSP1190-3 Adjustable double ring large
NSP1190-4 Adjustable double ring small
NSP1190-5 Fixed square ring

CE, 220-240V, 30KH, IP20, 15°, 24°, 36°, 50°, -20 to +40 °C

NSP1190 7W NSP1190 10W NSP1190 15W

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

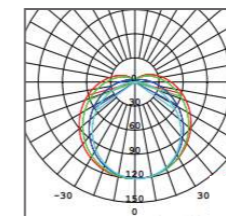
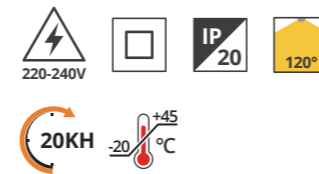
- Bar
- Restaurant
- Hotel
- Meeting room
- Corridor
- High-specification residential project

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
	87003069/078/087/096			3000K						
	87003070/079/088/097			4000K						
	87003071/080/089/098		2700K	10W	900 lm					
	87003072/081/090/099		3000K							
	87003073/082/091/100		4000K							
	87003074/083/092/101		2700K	15W	1350 lm					
	87003075/084/093/102		3000K							
	87003076/085/094/103		4000K							

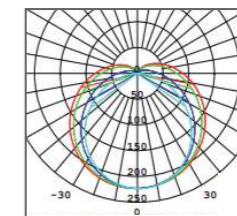


LED Batten Light

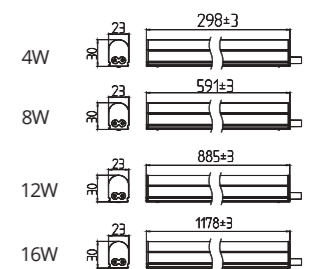
NBT420* T5 LED batten



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	

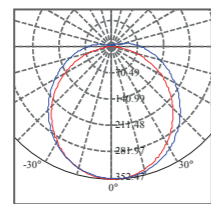
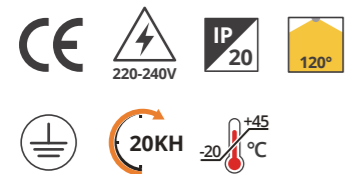


NLED492G

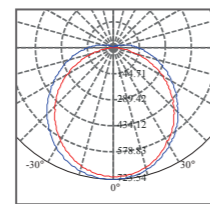
LED fittings for surface or suspended installation



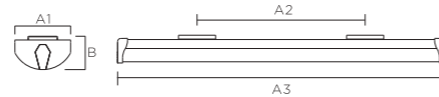
Mounting Bracket



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

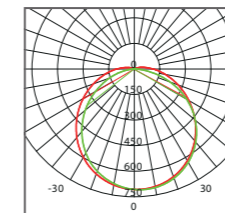
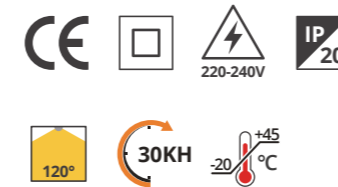
APPLICATIONS

- Suitable for retail stores and offices

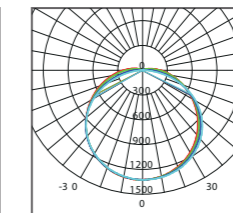
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NLED492G06	70063464	220-240V	18W	3000K	1200 lm	67	80	120°	≥0.9	20000hrs
	70063465		18W	4000K	1200 lm				≥0.9	
	70063466		18W	6500K	1200 lm				≥0.9	
NLED492G12	70063461		36W	3000K	2400 lm				≥0.9	
	70063462		36W	4000K	2400 lm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

NLI430

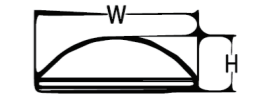
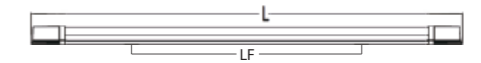
LED Linear light



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	

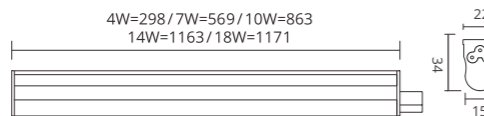
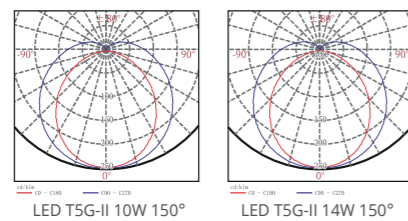
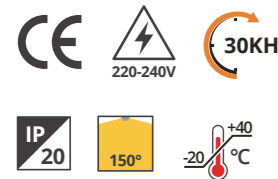


LED T5G

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				

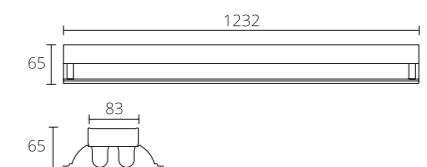
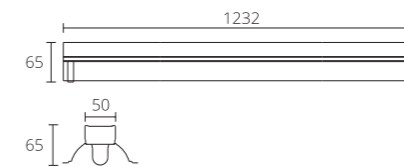
NDL470E

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

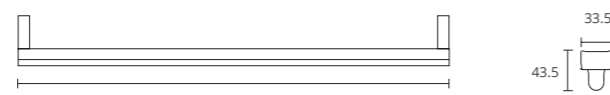
- Installation: Choice of surface mounted or suspended mounted

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

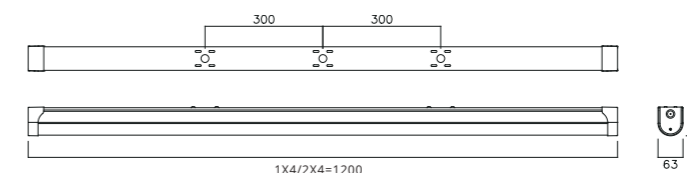
NOTES

- 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



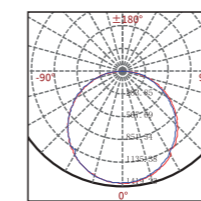
LED Panel Light

NPN450

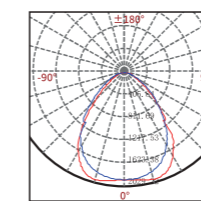
Low UGR edge lit LED panel



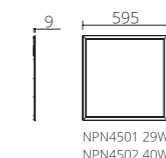
NPN4502U



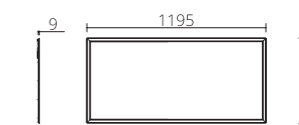
NPN4502 40W



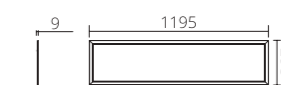
NPN4502U 40W



NPN4501 29W
NPN4502 40W



NPN4503 55W



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

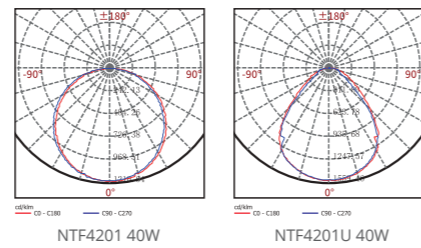
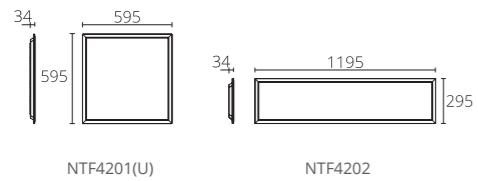
- Office
- Hospital
- School
- Library
- Shopping mall
- Meeting room

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		90°			
	87000372A										6500K
NPN4503 55W	87000373A		55W	4000K	6600 lm	120		110°			
	87000374A										6500K
NPN4502 40W	87000449A		40W	4000K	4300 lm	108		90°			
	87000450A										6500K
NPN4502U 40W (UGR <19)	87000451A				4000K	4100 lm		103			110°
	87000452A										
NPN4503 40W	87000453A			4000K	4300 lm	108		110°			
	87000454A										6500K
NPN4502H 40W	87001377A	4000K		4800 lm	120	90°					
	87001378A						6500K				
NPN4502HS 40W	87001380A	4000K		4800 lm	120	110°					
	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)

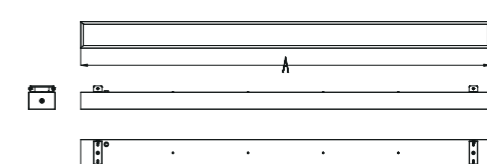
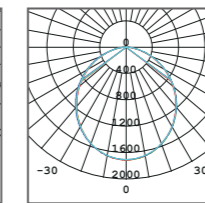
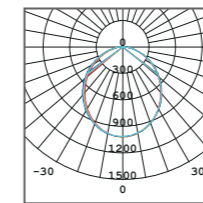
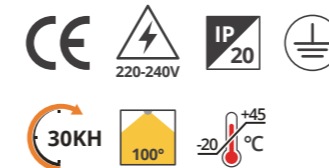
*Accessories need to be ordered as separate items





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

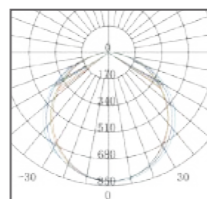
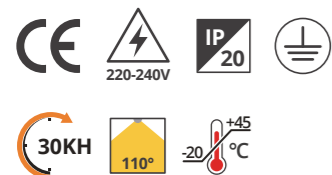
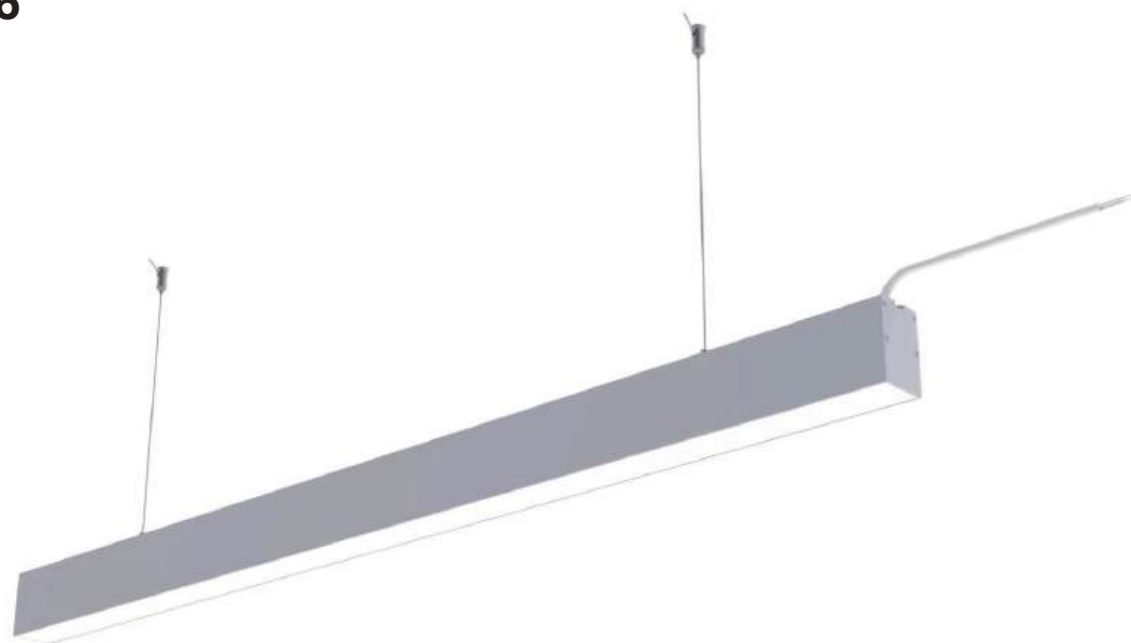
- SMT LEDs
- CRI ≥90
- CCT available: 3000K / 4000K / 5700K
- No flicker driver design
- Operating temperature: -20°C~+45°C

APPLICATIONS

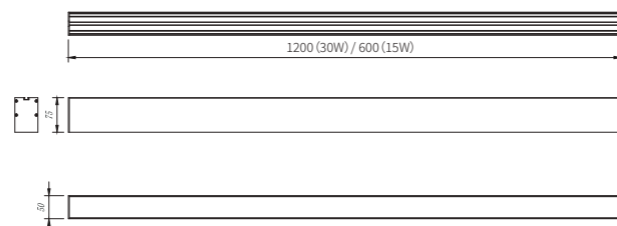
- Corridors
- Public areas in schools
- Public buildings
- Offices
- Hotels

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

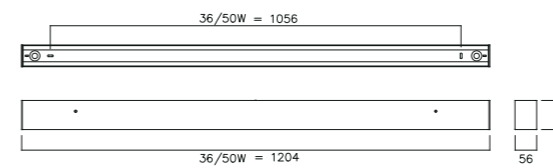
Surface and/or suspended fittings are a versatile solution, especially in buildings with high ceilings, or with a range of different ceiling heights and styles.



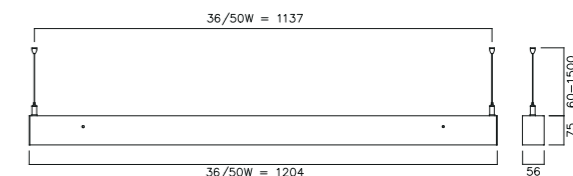
LED STRIP ON REAR PROVIDES 30% UPLIGHT ON BI-DIRECTIONAL VERSIONS



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

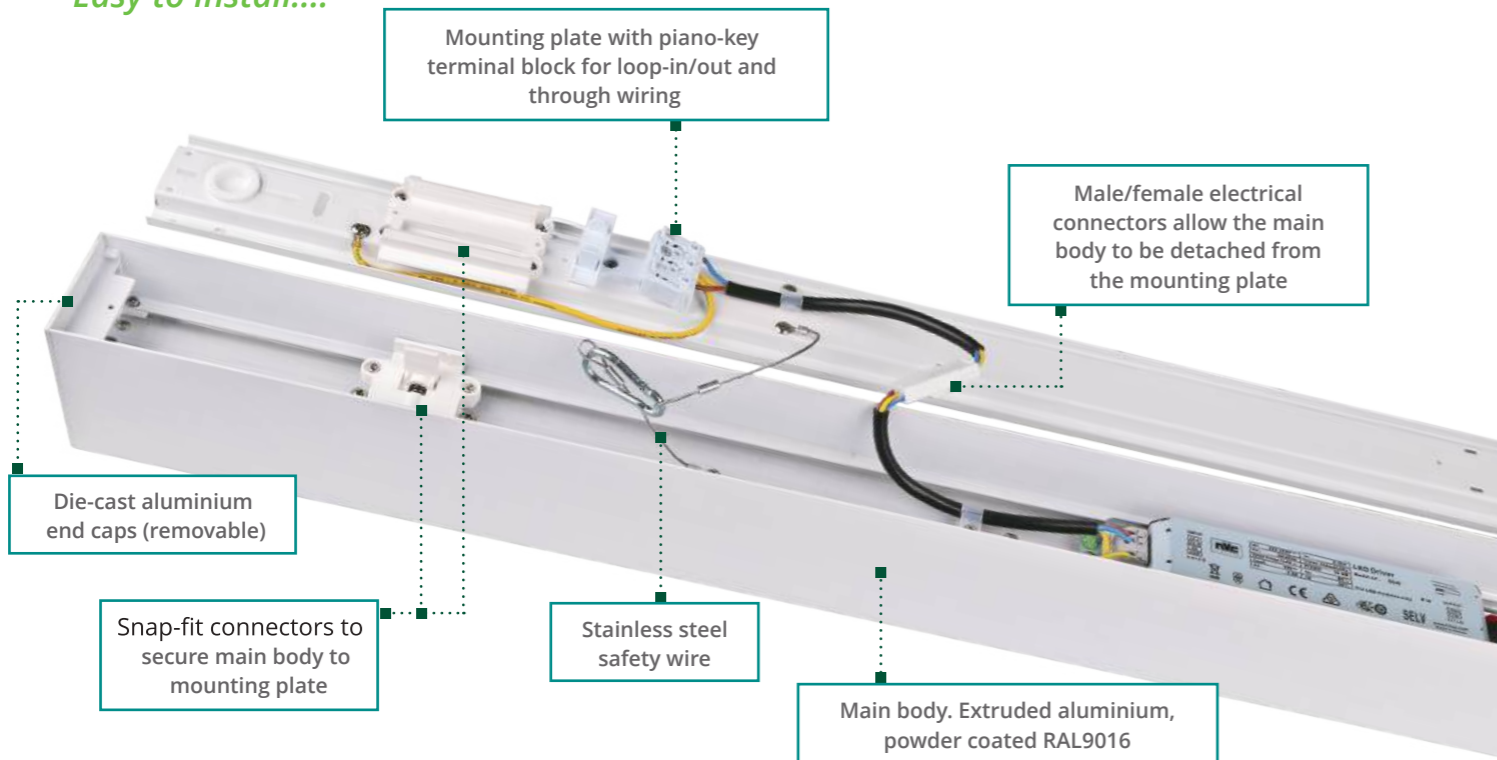
- Corridors and public areas in schools, colleges and public sector buildings
- For surface or suspended installation

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....

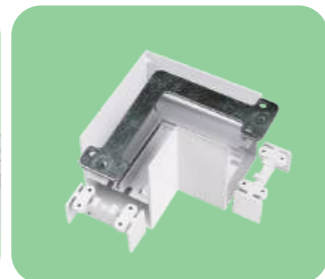


Fittings can be installed individually or as continuous runs in straight-line, L, T or X configurations and the suspended versions can deliver 100% downlight, or a mix of 70% downlight and 30% uplight.

DALLAS ACCESSORIES



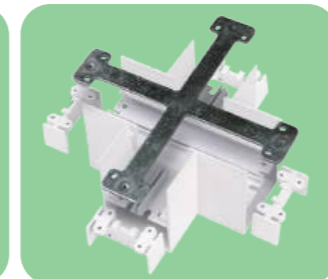
STRAIGHT COUPLING KIT



"L" COUPLING KIT



"T" COUPLING KIT



"X" COUPLING KIT



BLANK IN-FILL SPACERS AVAILABLE IN VARIOUS LENGTHS

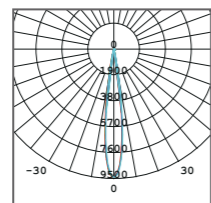
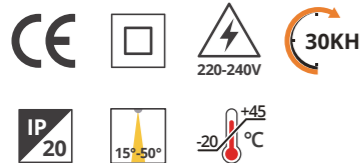
WIRE SUSPENSION KIT. COMES AS STANDARD WITH BI-DIRECTIONAL VERSIONS



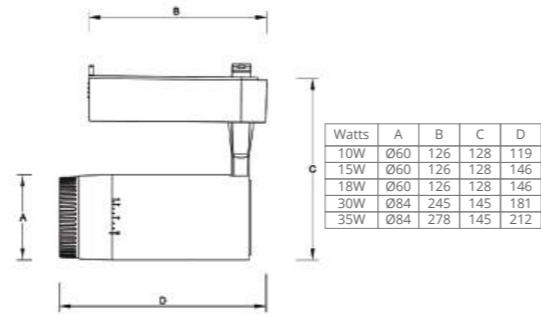
LED Track Light



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					

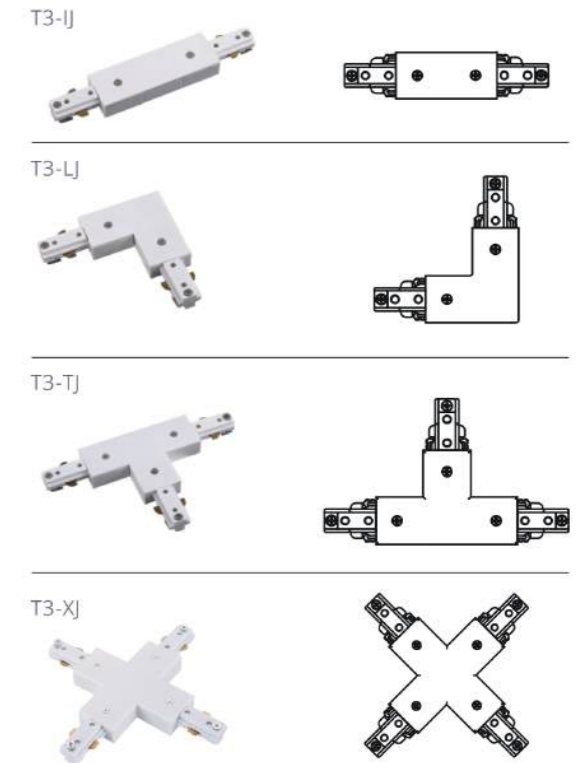
Accessory track-3wire

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		

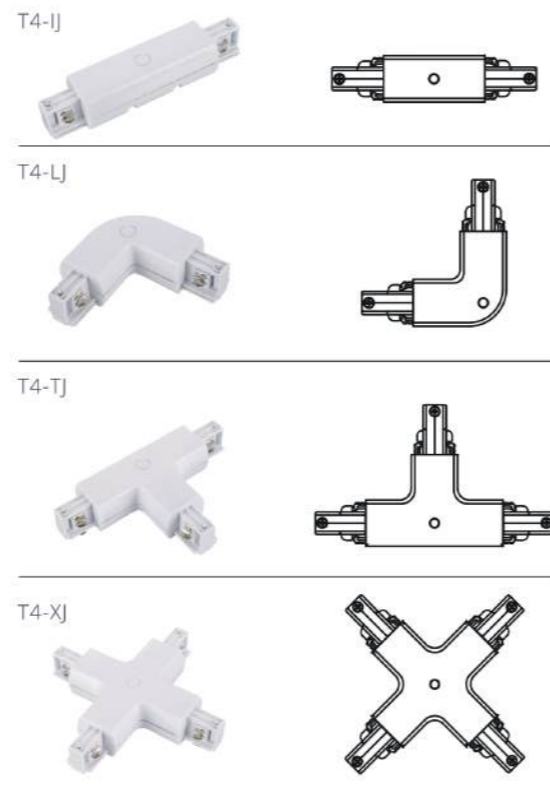
Accessory track-4wire

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)

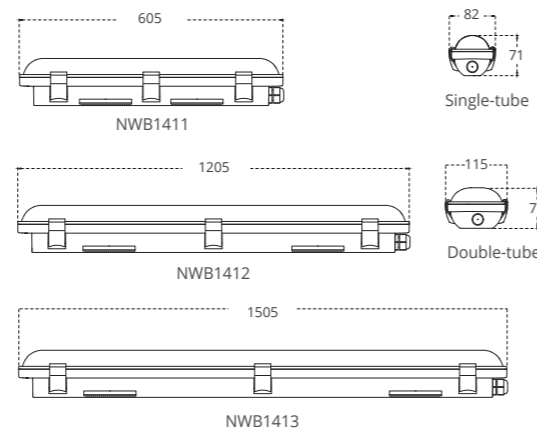
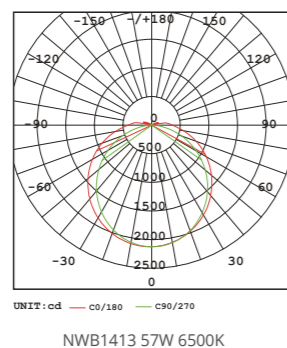
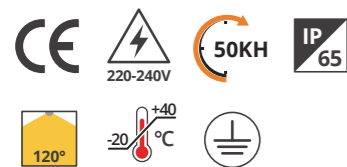
Model	Part Number	Colour	QTY/CNT	CTN Dimensuon
T4/1M	70080547	Black	10PCS	1030x185x95mm
	70080541	White		
T4/1.5M	70080548	Black		
	70080542	White		
T4/2M	70080549	Black		2030x190x83mm
	70080543	White		
T4/IJ	70080757	Black	50PCS	375x195x225mm
	70080753	White		
T4/LJ	70080758	Black	50PCS	375x195x225mm
	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

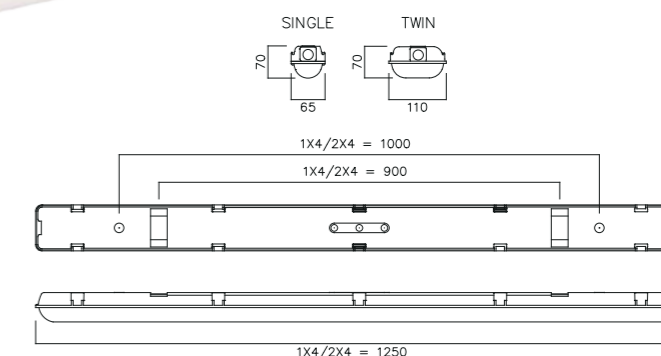
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NWB1411 17W (Single-tube)	87001637/38	220-240V	17W	4000K 6500K	2210 lm	130	80	120°	≥0.9	50000hrs
NWB1411 22W (Double-tube)	87001639/40		22W		2860 lm					
NWB1412 22W (Single-tube)	87001641/42		22W		2860 lm					
NWB1412 40W (Double-tube)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

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

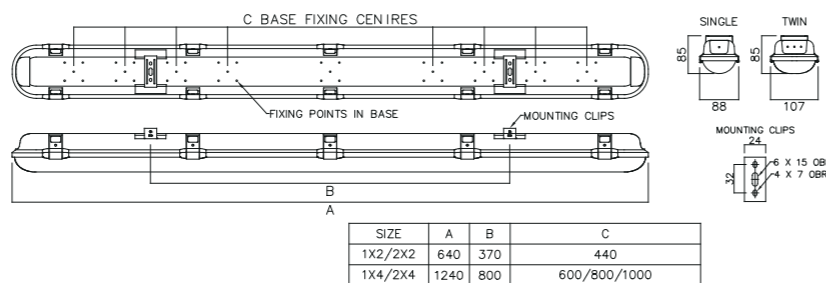
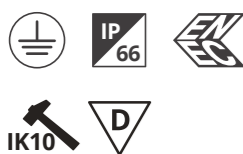
APPLICATIONS

- 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

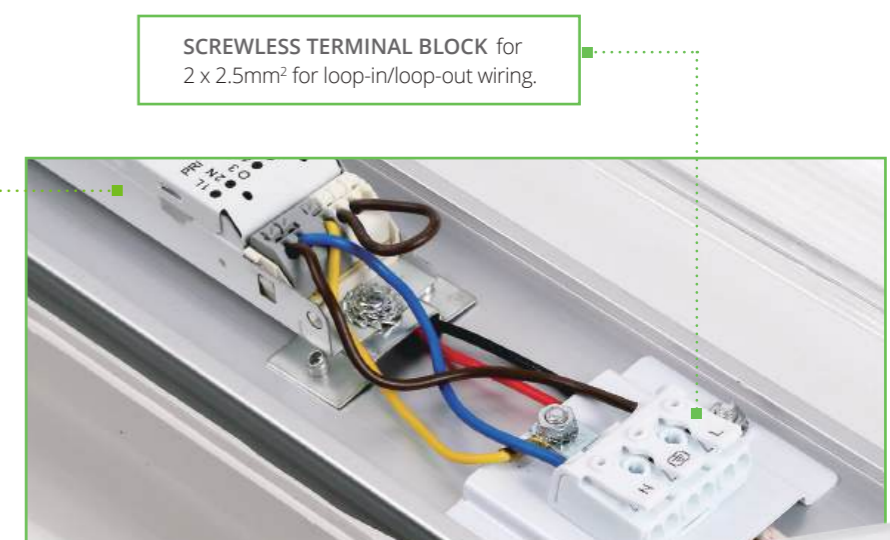
APPLICATIONS

- 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.

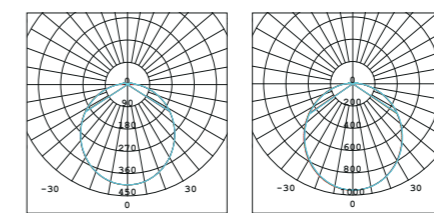
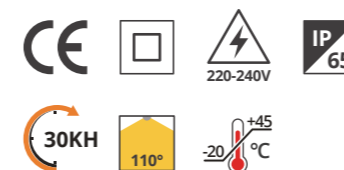




LED Ceiling Light

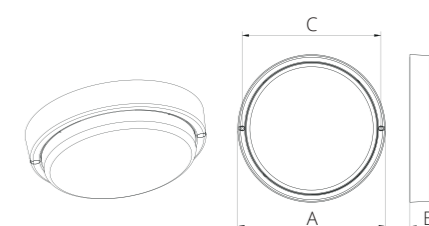
NCL1002

Bulkhead Series - Waterproof Ceiling Light



NCL1002 10W

NCL1002 20W



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

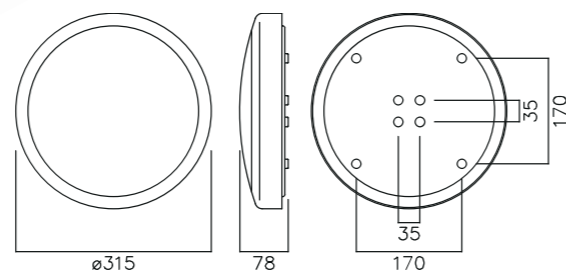
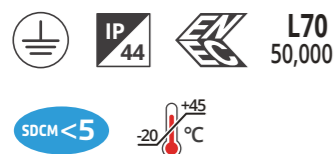
APPLICATIONS

- 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

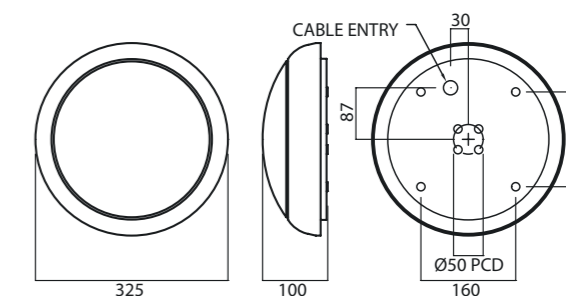
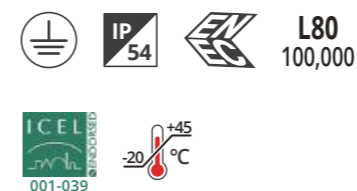
CCT selectable IP54 decorative bulkhead fitting for commercial indoor areas



CCT SELECTABLE 4000K/6500K



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		Portland 18W LED IP54 Chrome Opal 840-865
NPO15/WH/O/MW/840-865	87003375	CCT SELECTABLE 4000K & 6500K + MW SENSOR	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

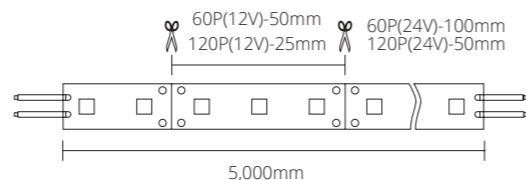
- Four colour temperatures: 2700/3000/4000/6500K
- Accessories can be selected according to installation needs
- Can be cut every 1000mm

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								
NFS5050 60P IP20 24V 12W	87000964/65/66/67	DC24V							
NFS5050 60P IP65 24V 12W	87000968/69/70/71								

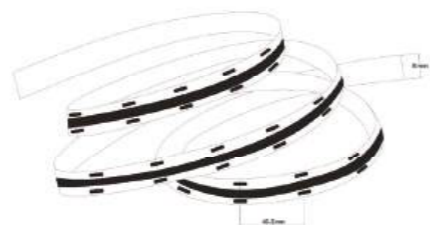
Model	Part Number	Accessories
NFS2835-60P/120P IP65	87001005	Mounting clip
NFS5050 60P IP65	87001006	

* 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

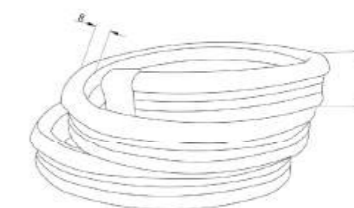
- Decorative lighting
- Cove lighting

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



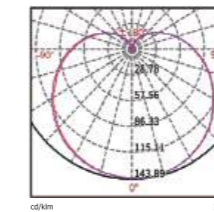
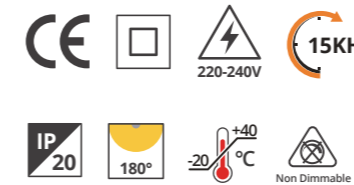
A60
7W/9W



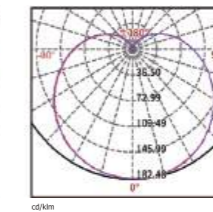
A60
12W



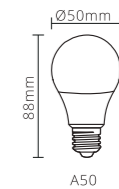
A65
15W



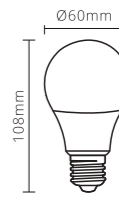
LED A60N 9W 180°



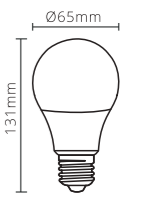
LED A60N 12W 180°



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

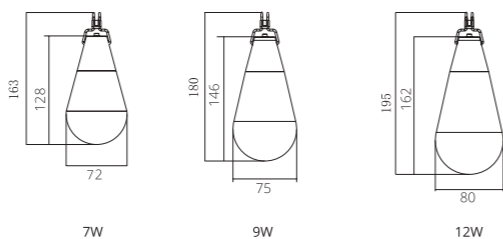
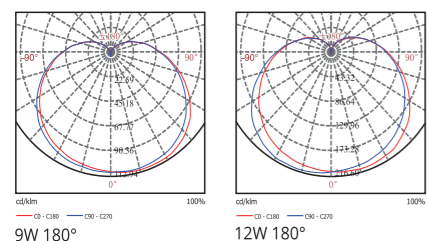
APPLICATIONS

- 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

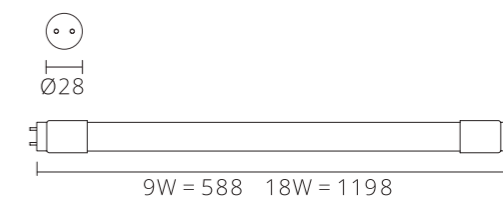
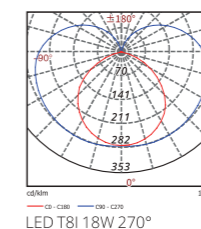
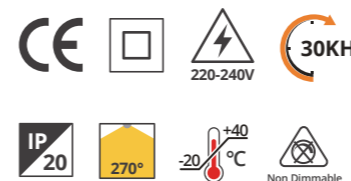
APPLICATIONS

- 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						