ISSUE 5

EXTERIOR LIGHTING CATALOGUE

nVc Lighting

NVC LIGHTING – WORKING WITH YOU, WHEREVER YOU ARE

NVC is a lighting brand working with its customers around the world. Wherever we operate we have products for a wide range of commercial, industrial, residential and exterior applications that are suited to local market conditions. However, wherever we work there is one thing that is always the same – we aim to get as close to our customers as we can.

NVC Retail Store in Doha - Qatar

GOOD VALUE PRODUCTS, IN-STOCK LOCALLY

Very often a customer needs a small number of good value products today, for installation tomorrow. That might be batten fittings, panels, downlights or some low-wattage LED flood-lights for a residential project. We are there to help, with a network of local distributors carrying popular products in stock.

2016 Rio Olympic Games - Brazil

LIGHTING PROJECTS

Around the world we are best known as lighting suppliers for complete projects. Maybe our help is required to create just the right ambience in a new hotel, or a refurbishment project has ambitious targets to achieve for energy savings. Developers, architects and consultants come to NVC for just this sort of in-depth help and advice.

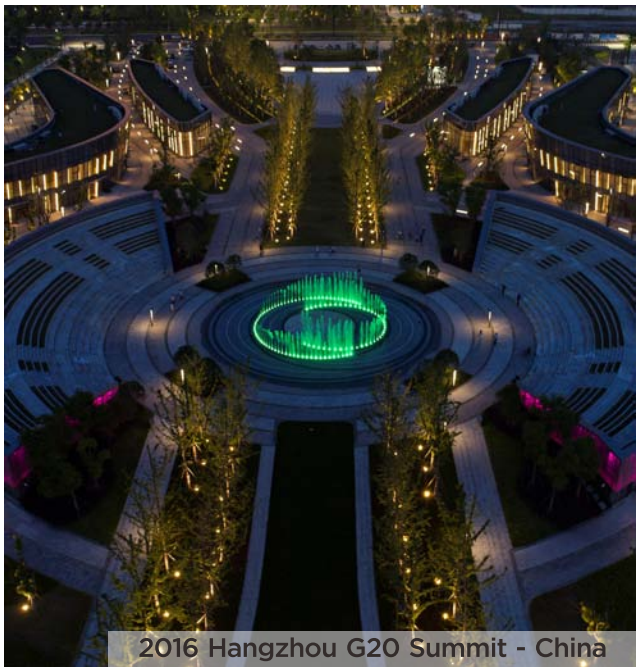
Typically, we will be able to supply lighting design services, advice on energy saving, local installation support – to make sure the contractor knows exactly how to install our products – and after-sales support with spares and repairs, if required.

COMPLETE LIGHTING SOLUTIONS

On most projects we can supply all the lighting that is required from our very wide range of standard products, but on some projects something special is required. A large 5-star hotel might require a custom-designed bedside lamp for each guest bedroom, or a special design of wall-bracket to match the theme the interior designers are creating. This is where we use the services of our own BERKELEY Division.

The BERKELEY Division consists of designers, engineers and material specialists all bursting with ideas to help turn a concept sketch from an architect, interior designer or lighting designer into a fully engineered and costed product. Using this approach we have created signature lighting fixtures for bars, restaurants and night-clubs as well as for hotels and shopping malls.

The capability of our BERKELEY Division is available to any client with whom we are already working, and the resulting product design is unique to that client – not replicated and put in a catalogue for general sale.


2016 Hangzhou G20 Summit - China

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NVC has a policy of continual product improvement. The information in this catalogue is provided for reference only and while every effort was made to ensure it was correct at the time of printing, we reserve the right to make corrections as well as product alterations and improvements at any time without notice. Trademarks are the property of NVC Lighting Technology Corporation or their respective owners.

NVC - a vertically integrated family of companies

Customers

Our sales & support network

NVC Lighting Technology Corporation, Huizhou, China
Our China Headquarters has 37 operation centres and 3,800 NVC-branded retail outlets in China.

NVC Lighting Do Brasil Comercio, Importaçao E Exportaçao Ltda, Sao Paulo, Brazil
Our Brazil regional office has a 3,940m² warehouse and an extensive showroom. We have a staff of 30, offering a wide range of lighting products and services tailored to local market requirements.

NVC Lighting Middle East, Dubai, United Arab Emirates
Our Middle East regional office supports our branch offices in Kuwait, Oman, Qatar, Saudi Arabia and the UAE

NVC Lighting & Electrical Technology (Singapore) Private Limited., Singapore
Our SE Asian regional office supports our branch offices throughout Southeast Asia, East Europe, South America, Africa and CIS

NVC Lighting Ltd, Birmingham, UK
Our UK regional office has over 100 staff and has annual sales of £32 million. The main markets served are the UK, Ireland and Scandinavia.

NVC Lighting

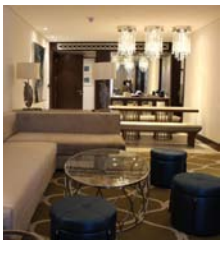
Lighting for commercial, industrial, retail, residential, amenity and exterior applications

ARCATEC
DRIVERS MADE BY NVC

NVC has its own factory in Shanghai dedicated to the design and manufacture of drivers. The Arcatec range of drivers is specifically designed to ENEC standards for European markets, but these drivers can also be specified in other markets if required.

Berkeley™

Berkeley is a specialist division of NVC providing a bespoke manufacturing service, usually for residential or decorative lighting.



ETI

ETI is the largest shareholder in NVC, and the 2nd largest LED chip manufacturer in China, with plants in Zhuhai, Dalian and Wuhan. Wherever it is appropriate we use ETI LEDs in our products.

NVC – a family of companies, united to bring you the best available lighting technology.

NVC was founded in 1998 and is much more than just the largest lighting manufacturer in China, and one of the largest in the world. We are a family of vertically integrated companies that is unique in our field.

THE LARGEST LIGHTING MANUFACTURER IN CHINA

Our factories and R&D centres in China and the UK design and manufacture one of the widest ranges of lighting products of any company today. With such a broad range of commercial, industrial, retail, decorative and exterior lighting we can generally supply almost everything required on a large project.

In China we distribute our products through 37 Regional Operation Centres, supporting a total of some 3,800 NVC-branded retail outlets.

Around the world we have regional office, local offices and distributors supplying and supporting our customers in Europe, the Middle East, Asia and South America.

NVC is listed on the Hong Kong stock exchange and we have a global turnover (2017) of $647 million. Our shareholders include Goldman Sachs (5%), Schneider (10%) and ETI (27%).

Our company has two logos: International logo Domestic logo (China)

A BESPOKE PRODUCT DESIGN AND MANUFACTURING SERVICE

BERKELEY is a division of NVC Lighting providing a bespoke design and manufacturing service. We deploy BERKELEY to support large projects where, for example, a 5-star hotel might require its own signature design of guest-room bedside lights in addition to standard NVC products being used elsewhere. It is the BERKELEY capability that enables us to say with confidence that we really can supply a complete lighting solution.

DRIVERS MADE BY NVC

We design and make our own drivers for many of the fittings in this catalogue. We have a specialist electronics factory in Shanghai manufacturing drivers to European (ENEC) and US (UL) standards for other leading brands – you would recognise their names.

On selected products we use the Arcatec range of drivers. This our own brand of high-performance, high-specification drivers, made in our Shanghai factory and especially suited to industrial applications. Wherever these are used we offer a 5 year warranty.

On most other product we offer NVC branded drivers, These provide excellent value, full compliance with the regulations for the market for which they are designed, and of course, they have the backing of your local NVC office, wherever you are. We make them – so we support them. Unless otherwise stated, products with an NVC-branded driver carry a 3 year warranty.

ONE OF CHINA'S LARGEST LED MANUFACTURERS

ETI is listed on the Shenzhen stock exchange and has factories in Zhuhai, Wuhu and Dalian. ETI designs and manufactures wafers and packaged LEDs in many formats, including SMD and COB. Wherever possible we use ETI LEDs in our products.

Because of our very close relationship with ETI their LEDs are available to us on the shortest possible lead times. Our customers also benefit from having first-use of new products and access to a depth of product technical support and knowledge that few rivals can match.

ETI makes a wide range of LED devices, but when ETI's range does not include the precise product required we use other LED brands, especially Cree. We have a long-standing relationship with Cree stretching back many years, and our head office, with one of our R&D centres, is conveniently located close to one of Cree's factories.

10 LED Flood Lights

12 NFDLED251

13 NFDLED253

14 NFDLED254

16 NFDLED901

18 JAGUAR

20 NFLED5001

21 NFLED5012

23 NFLED4011

24 NFLED4012

24 NFLED4013

25 NFLED4014

26 NFLED4015

26 NFLED4016

28 LED In-Ground Lights

30 NELED4201

30 NELED4201R

31 NELED4202

31 NELED4202R

32 NELED4203

33 NELED4204

34 NELED4206

35 NELED4205

35 NELED4205R

36 NELED4501C

37 NELED4212A

37 NELED4212B

37 NELED4212D

38 LED Underwater Lights

39 NUWLED4330

40 NSLED4321

41 NSLED4310

42 NSLED4315

43 NSLED4312

44 LED Bollards

47 NGLED5623

49 NGLED5613

51 NGLED5653

53 NGLED5663

55 NGLED5612

57 NGLED5615

58 NGLED3607

59 NGLED3603

60 NGLED3562

62 NBLLED353

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LED Surface Wall Lights 70

73 NWLED3531

75 NWLED5512-1

75 NWLED5512-2

76 NWLED5513-1

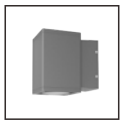
76 NWLED5513-2

77 NWLED3543

77 NWLED3544

78 NWMLED351

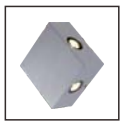
78 NWMLED351-2


79 NWMLED352

79 NWMLED352-2

80 NWMLED353

81 NWMLED354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88 NWLED5561

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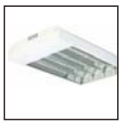
107 OREGON

108 NHBLED304

109 NHBLED304E
50W

109 NHBLED304E
100W

109 NHBLED304E
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114 NLED 49*

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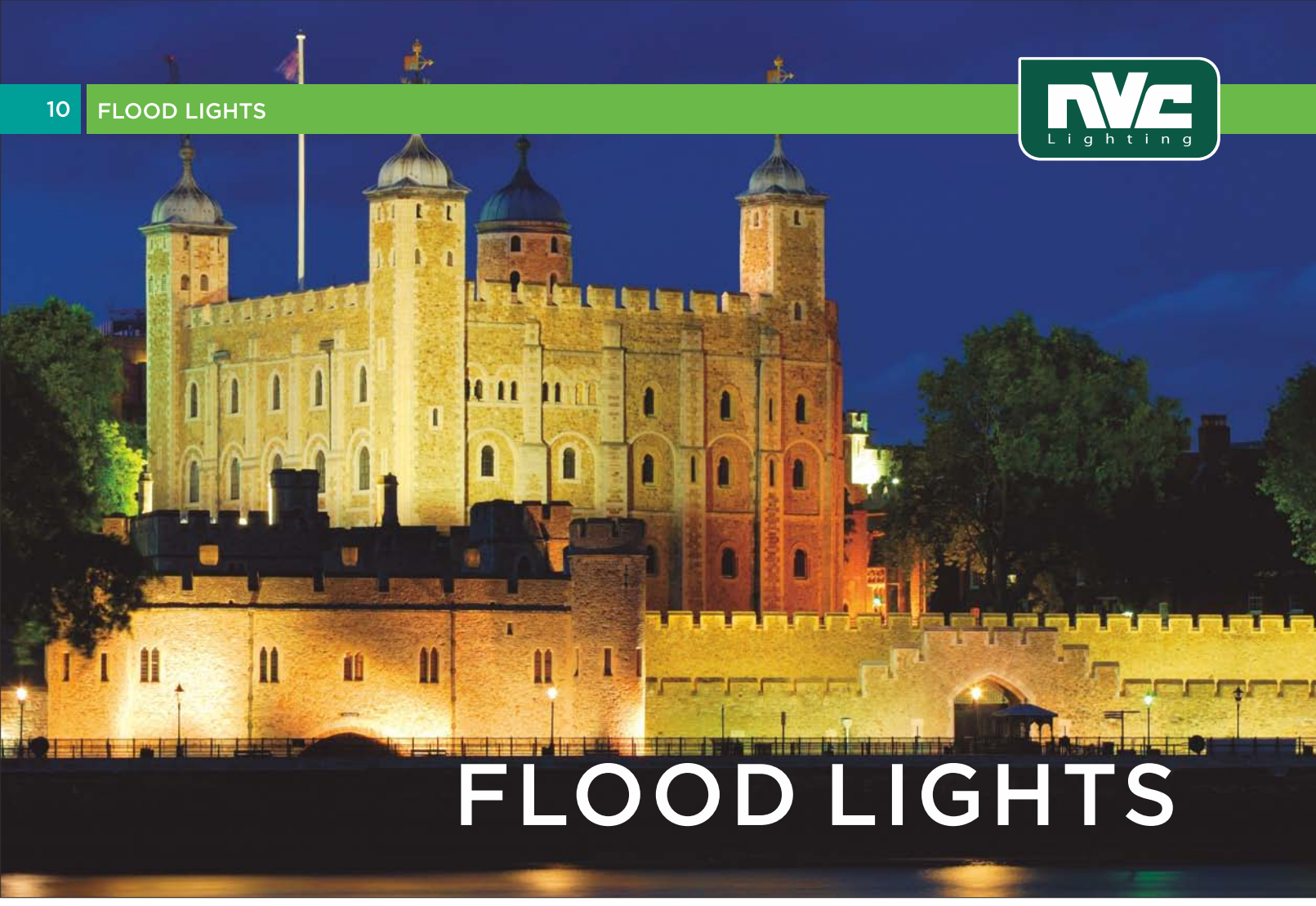


FLOOD LIGHTS

12 NFDLED251

13 NFDLED253

14 NFDLED254

16 NFDLED901

18 JAGUAR

20 NFLED5001

21 NFLED5012

23 NFLED4011

24 NFLED4012
NFLED4013

25 NFLED4014

26 NFLED4015
NFLED4016

Flood lights

	Wide beam			Narrow beam		Landscape				
	NFDLED251 PAGE 12	NFDLED253 PAGE 13	NFDLED254 PAGE 14	NFDLED901 PAGE 16	JAGUAR PAGE 18	NFLED5001 PAGE 20	NFLED5012 PAGE 21	NFLED4011 PAGE 23	NFLED4012 NFLED4013 NFLED4014 PAGE 24	NFLED4015 NFLED4016 PAGE 26
WATTAGE	**LUMEN OUTPUT**									
1-10						552	348	150	460	540
10-20	1,520								890/1,800	1,380
30			2,780							
40	3,360									
50		4,920	4,900							
60	5,200									
75				9,750						
80	9,100				8,145					
100	9,250	9,250	11,165	13,000						
150		13,560	14,690	19,500	13,010					
160	15,660									
200	20,330	18,650	19,700	26,000						
240				31,200	22,700					
FEATURES										
Lumen per watt	100	92	100	130	100	69	39	43	68/100	75/72
Colour temp.	3000K/ 4000K/ 6000K	3000K/ 4000K/ 6000K	3000K/ 4000K/ 6000K	3000K/ 4000K/ 5000K	3000K/ 4000K/ 6000K	3000K/ 4000K/ 6000K	3000K/ 4000K/ 6000K	3000K/ 4000K/ 6000K	3000K/ 4000K/ 6000K	3000K/ 4000K/ 6000K
Mounting	Column or surface	Column or surface	Column or surface	Column or surface	Column or surface	Surface or spike	Surface or spike	Surface or spike	Surface or spike	Surface or spike
IP rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
IK rating	IK07	IK07	IK07	IK10	IK10	IK07	IK07	IK08	IK08	IK08
Input voltage	220-240V	110-240V	220-240V	180-305V	100-305V	110-240V	110-240V	110-240V DC24V	110-240V DC24V	110-240V DC24V
Material & housing	Aluminium									
Beam type	Symmetric 100°	Symmetric 120°	Symmetric 115°	Symmetric 25°x75° 36°x88° Asymmetric 32°x84° 50°x88°	/	Symmetric 25°	Symmetric 24°	Symmetric 30°	Symmetric 15°/30°	Symmetric 25°
Protection class	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I Class III	Class I Class III	Class I Class III
Dimming	N	N	N	Y(optional)	Y(optional)	N	N	N	N	N
Sensor	Optional PIR	Optional PIR	N	Optional dusk-dawn photo-cell	Optional PE photo-cell	N	N	N	N	N

NFDLED251

COB LED flood lights

Optional PIR sensor

20W/40W

60W/80W

100W/160W

200W

100° 120° 110-240V 220-240V IP65 30000h

APPLICATIONS

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

TECHNICAL DETAILS

- COB LEDs
- Rated life: 30,000 hours

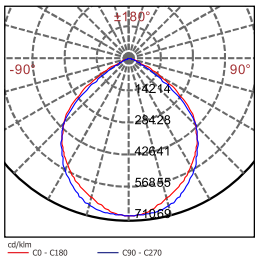
OPTIONS

- **Sensor:** Optional PIR sensor

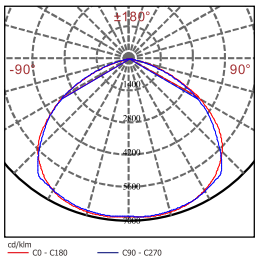
CONSTRUCTION

- Die-cast aluminium housing
- Aluminium 6063 reflector
- Powder coated surface treatment
- Driver included
- Complete with a IP65 cable gland, and pre-wired 3x1.0mm^2 H05RN
- Weight and windage:
  - 20W, 0.83kg, 0.03m^2
  - 40W, 1.92kg, 0.07m^2
  - 60W and 80W, 2.67kg, 0.08m^2
  - 100W, 3kg, 0.1m^2
  - 160W, 5.12kg, 0.18m^2
  - 200W, 7kg, 0.24m^2

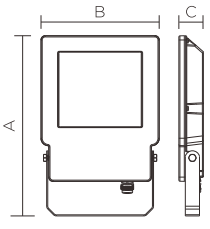
NFDLED251 20W

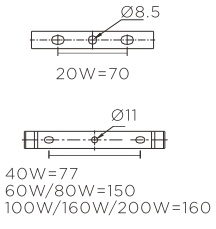


NFDLED251 200W



Model	Input	Watts	Colour temp.	Lumens	CRI
NFDLED251 20W	110-240V	20W	3000K/4000K/6000K	1,520 lm	>70
NFDLED251 40W	110-240V	40W	3000K/4000K/6000K	3,360 lm	>70
NFDLED251 60W	110-240V	60W	3000K/4000K/6000K	5,200 lm	>70
NFDLED251 80W	110-240V	80W	3000K/4000K/6000K	9,100 lm	>70
NFDLED251 100W	220-240V	100W	3000K/4000K/6000K	9,250 lm	>70
NFDLED251 160W	220-240V	160W	3000K/4000K/6000K	15,660 lm	>70
NFDLED251 200W	220-240V	200W	3000K/4000K/6000K	20,330 lm	>70





Watts	A	B	C
20W	228	149	42
40W	331	217	45
60W/80W	365	245	52
100W	396	275	52
160W	439	303	60
200W	592	376	67

NFDLED253

COB LED flood lights

Optional PIR sensor

100W

200W

120° 110-240V IP65 30000h

APPLICATIONS

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

TECHNICAL DETAILS

- COB LEDs
- Rated life: 30,000 hours

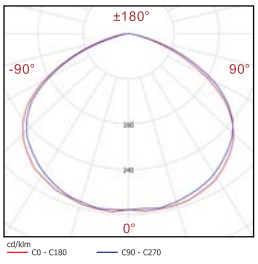
OPTIONS

- **Sensor:** Optional PIR sensor

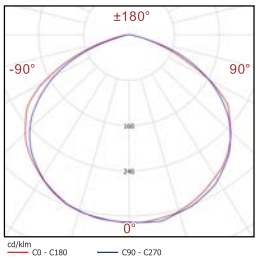
CONSTRUCTION

- Die-casting aluminium housing
- 6063 Aluminium reflector
- Powder coated surface treatment (RAL9007)
- LED driver included
- Complete with a IP65 cable gland, and pre-wired 3x1.0mm^2 H05RN
- Weight and windage:
  - 50W, 1.56kg, 0.06m^2
  - 100W, 3.45kg, 0.12m^2
  - 150W, 4.9kg, 0.16m^2
  - 200W, 7.47kg, 0.22m^2

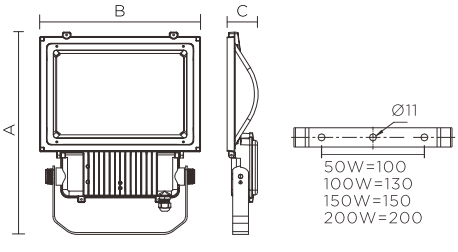
NFDLED253 100W



NFDLED253 150W



Model	Watts	Colour temp.	Lumens	CRI
NFDLED253 50W	50W	3000K/4000K/6000K	4,920 lm	>70
NFDLED253 100W	100W	3000K/4000K/6000K	9,250 lm	>70
NFDLED253 150W	150W	3000K/4000K/6000K	13,560 lm	>70
NFDLED253 200W	200W	3000K/4000K/6000K	18,650 lm	>70



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

NFDLED254

Slim and cost-effective LED flood lights

30W

50W

100W

150W

200W

APPLICATIONS

- Landscape
- Wall washer
- Gardens

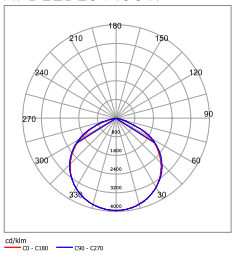
CONSTRUCTION

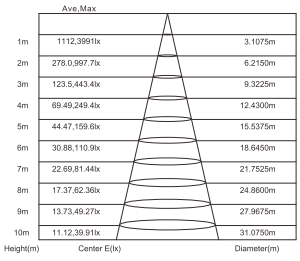
- Die-casting aluminium housing
- AC LED driver included
- Complete with a IP65 cable gland, and pre-wired 3x0.75mm^2 H05RN wire
- Weight and windage:
  - 30W, 0.86kg, 0.03m^2
  - 50W, 1.12kg, 0.04m^2
  - 100W, 2.79kg, 0.1m^2
  - 150W, 3.5kg, 0.13m^2
  - 200W, 4.7kg, 0.17m^2

TECHNICAL DETAILS

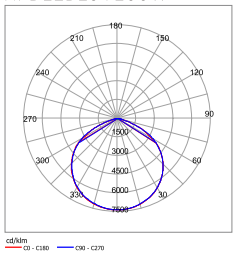
- SMD LEDs
- Rated life: 30,000 hours

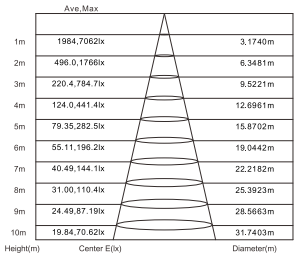
NFDLED254 100W



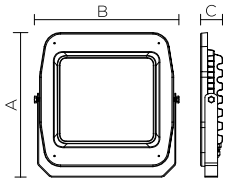


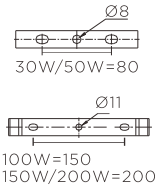
NFDLED254 200W





Model	Watts	Colour temp.	Lumens	CRI
NFDLED254 30W	30W	3000K/4000K/6000K	2,780 lm	>70
NFDLED254 50W	50W	3000K/4000K/6000K	4,900 lm	>70
NFDLED254 100W	100W	3000K/4000K/6000K	11,165 lm	>70
NFDLED254 150W	150W	3000K/4000K/6000K	14,690 lm	>70
NFDLED254 200W	200W	3000K/4000K/6000K	19,700 lm	>70





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

South Africa
www.southafrica.info
THE RISE OF A MODERN ECONOMY KE NAKO
South Africa

NFDLED901

Professional stadium flood lights

APPLICATIONS

- Sports facilities
- Area lighting
- Billboards

TECHNICAL DETAILS

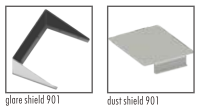
- Nichia SMD3030 LEDs
- Rated life: 50,000 hours

CONSTRUCTION

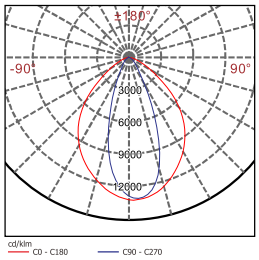
- Die-casting aluminium housing, pre-treated for corrosion resistance
- PC lens
- LEDs on metal core PCB
- Weight and windage:
  - 75W, 100W and 150W, 4.3kg, 0.12m^2
  - 200W and 240W, 6.4kg, 0.16m^2
- Choice of 3 finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

OPTIONS

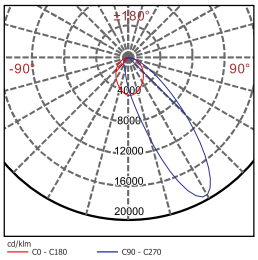
- Optional NEMA socket
- Optional anti-glare shield to be ordered as a separate item
- Optional anti-dust shield to be ordered as a separate item
- **Dimming:** Fixed output as standard, digital dimming available with seven pin NEMA socket and sensor
- **Version:** Choice of the standard version or dusk-dawn photocell version



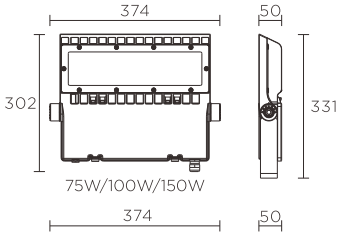
NFDLED901 100W

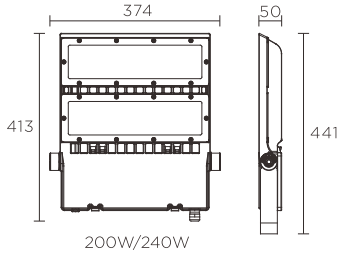


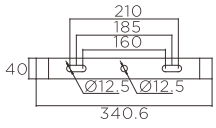
NFDLED901 150W



Model	Watts	Colour temp.	Lumens	CRI	PF
NFDLED901 75W	75W	3000K/4000K/5000K	9,750 lm	>70	>0.9
NFDLED901 100W	100W	3000K/4000K/5000K	13,000 lm	>70	>0.9
NFDLED901 150W	150W	3000K/4000K/5000K	19,500 lm	>70	>0.9
NFDLED901 200W	200W	3000K/4000K/5000K	26,000 lm	>70	>0.9
NFDLED901 240W	240W	3000K/4000K/5000K	31,200 lm	>70	>0.9
Accessories					
glare shield 901					
dust shield 901					



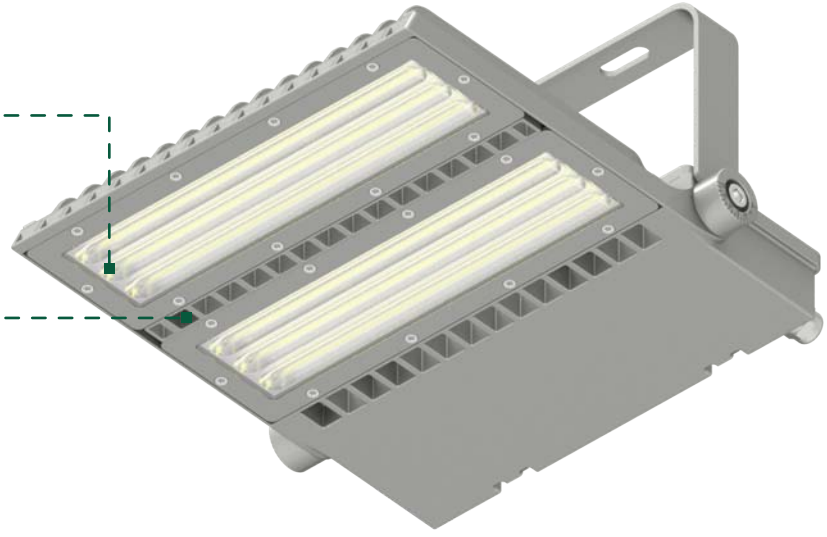




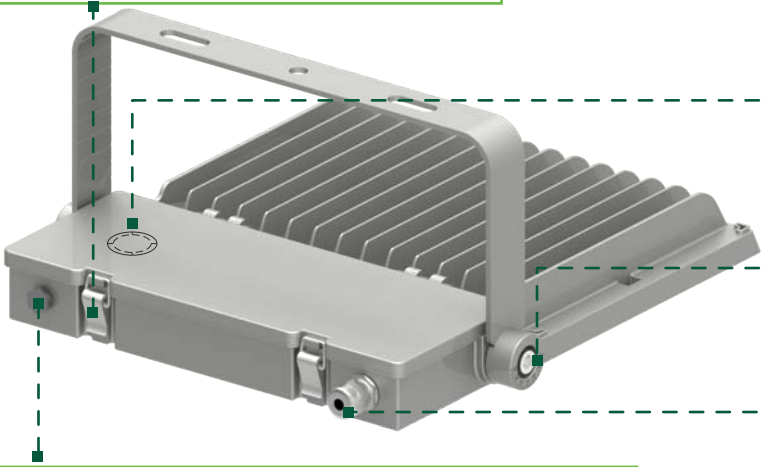
Structure and details

Precise light control
A range of three different lenses is available to give exactly the light distribution that is required.

Good thermal management for longer life span
With the LED chips and driver being engineered with ventilation gaps in between them, the luminaire is kept cool, promoting a longer life span.



Tool-free access with stainless steel clips on the driver cover



Optional NEMA socket three or seven pin

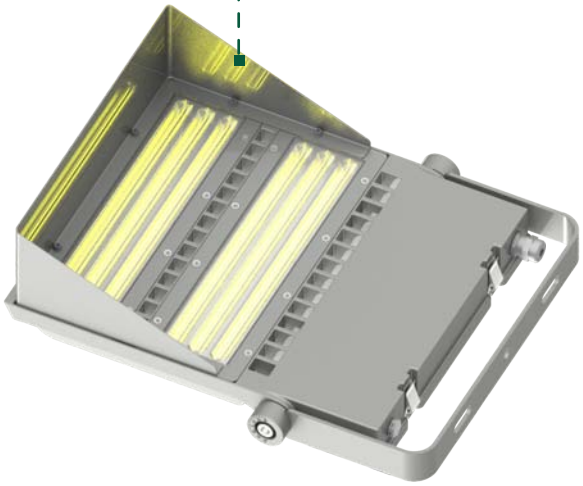
Easy adjustment
Accurate aiming is made easy with the provision of graduated markings at the end of the mounting bracket.

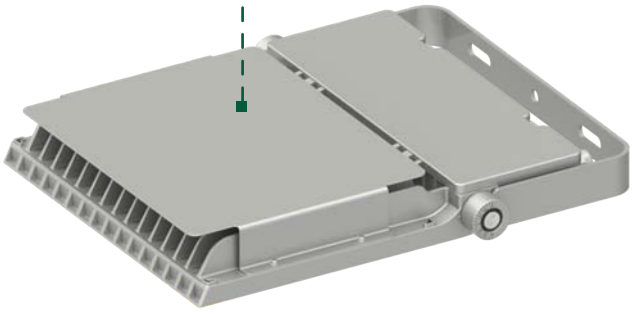
Waterproof
Supplied with a stainless steel IP65 cable gland fitted, and pre-wired with 3x1.0mm^2 H05RN wire.

Breather valve
This prevents an excessive pressure difference building up which can compromise the IP rating. It also prevents the accumulation of moisture through condensation.

Glare shield
The optional anti-glare shield means this product can be used in residential areas without causing complaints about glare.

Dust shield
Rear cover for protection against the build-up of dust and dirt helps maintain good thermal performance.





JAGUAR

IP65 LED aluminium die-cast asymmetric flood lights

100-305V CE IP65 50000h

APPLICATIONS

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

OPTIONS

- **Photo-cell:** JAGUAR is available with a miniature PE cell fitted

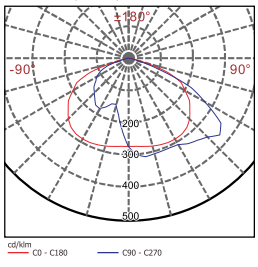
CONSTRUCTION

- Asymmetrical lens
- Aluminium die-cast body enclosure with glass front panel
- Castings & bracket painted grey, fine sand texture finish (RAL9022)
- Hinged terminal cover with captive stainless steel socket head screws
- Complete with twin IP65 cable gland
- Weight and windage:
  - 80W, 9.2kg, 0.1m^2
  - 150W, 13.3kg, 0.15m^2
  - 240W, 13.4kg, 0.23m^2

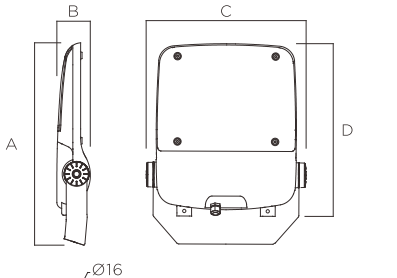
TECHNICAL DETAILS

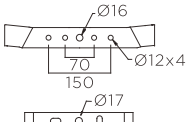
- High power CREE LEDs
- Rated life: 50,000 hours

NJG80W/LED/740

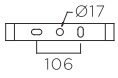


Model	Watts	Colour temp.	Lumens	CRI	PF
NJG80W/LED/740	80W	4000K	8,145 lm	>70	>0.9
NJG150W/LED/740	150W	4000K	13,010 lm	>70	>0.9
NJG240W/LED/740	240W	4000K	22,700 lm	>70	>0.9





FIXING CENTRES FOR 150W & 240W



FIXING CENTRES FOR 80W

Watts	A	B	C	D
80W	405	73	282	356
150W	489	81	386	400
240W	594	93	460	508

NFLED5001

Landscape flood lights

25° 110-240V IP65 30000h

APPLICATIONS

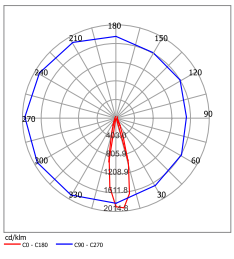
- Lawns and gardens
- Paths

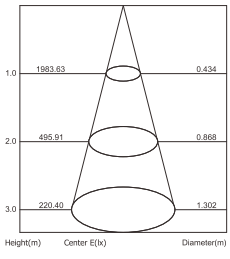
CONSTRUCTION

- Die-cast aluminium housing
- Powder coated surface treatment
- Tempered glass
- LED driver included
- Complete with twin IP65 cable glands, and pre-wired with 3x1.0mm^2 H05RN wire
- Supplied for spike mounting, supplied complete with spike
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

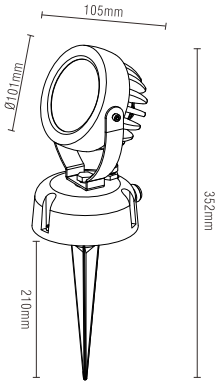
TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours





Model	LED Chip	Watts	Colour temp.	Lumens	CRI
NFLED5001	6x1W	8W	3000K/6000K	552 lm	>80



NFLED5012

Landscape flood lights

NFLED5012

NFLED5012A

24° 110-240V IP65 30000h

APPLICATIONS

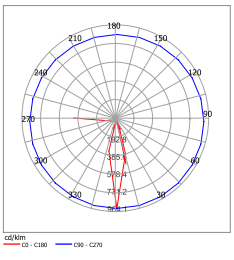
- Lawns and gardens
- Paths

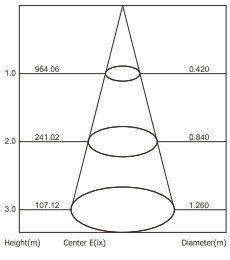
CONSTRUCTION

- Die-cast aluminium housing
- Powder coated surface treatment
- Tempered glass
- LED driver included
- Complete with twin IP65 cable glands, and pre-wired with 3x1.0mm² H05RN wire
- Supplied for spike mounting, supplied complete with spike
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

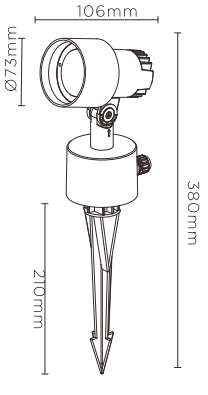
TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

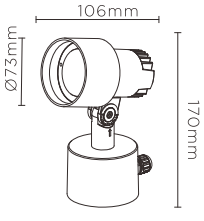




Model	LED Chip	Watts	Colour temp.	Lumens	CRI
NFLED5012	1x7W COB	9W	3000K	3,16 lm	>80
NFLED5012	1x7W COB	9W	6000K	3,48 lm	>80
NFLED5012A	3x2W	6.5W	3000K	2,40 lm	>80
NFLED5012A	3x2W	6.5W	6000K	2,66 lm	>80



NFLED5012



NFLED5012A

NFLED4011

Landscape flood lights

NFLED4011-1

NFLED4011

30° DC240V 110-240V CE IP65 III 30000h

APPLICATIONS

- Lawns and gardens
- Paths

TECHNICAL DETAILS

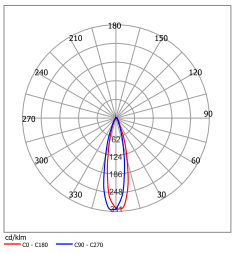
- Osram LEDs
- Rated life: 30,000 hours

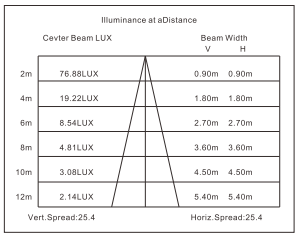
CONSTRUCTION

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

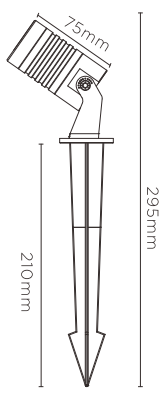
OPTIONS

- **Driver:** 110-240V versions supplied complete with built-in driver. For 24V versions, the driver must be ordered as a separate item, listed below

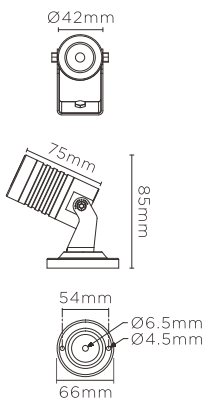




Model	Input	LED Chip	Watts	Colour temp.	Lumens	CRI
NFLED4011	DC24/110-240V	1x2WCOB	3.5W	3000K	120lm	>80
NFLED4011	DC24/110-240V	1x2WCOB	3.5W	6000K	150lm	>80
NFLED4011-1	DC24/110-240V	1x2WCOB	3.5W	3000K	120lm	>80
NFLED4011-1	DC24/110-240V	1x2WCOB	3.5W	6000K	150lm	>80
Driver						
NLED-DV110* (see page 127)						



NFLED4011-1



NFLED4011

NFLED4012 NFLED4013

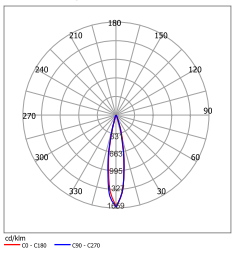
Landscape high power flood lights

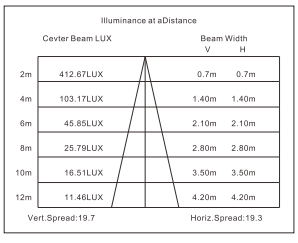
NFLED4012

NFLED4013

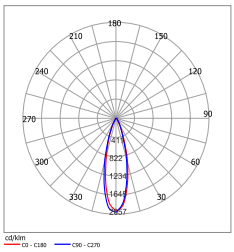
15° 30° DC24V 110-240V IP65 III 30000h

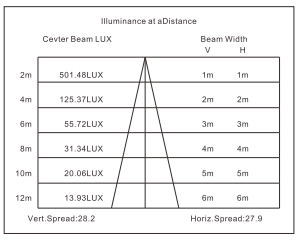
NFLED4012





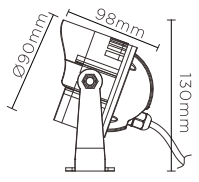
NFLED4013



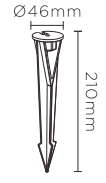


Model	Input	LED Chip	Watts	Colour temp.	Lumens	CRI	Beam angle
NFLED4012	DC24	3x2W	6W	3000K	380lm	>80	15°, 30°
NFLED4012	DC24	3x2W	6W	6000K	460lm	>80	15°, 30°
NFLED4012	110-240V	3x2W	7W	3000K	380lm	>80	15°, 30°
NFLED4012	110-240V	3x2W	7W	6000K	460lm	>80	15°, 30°
NFLED4013	DC24	6x2W	13W	3000K	760lm	>80	15°, 30°
NFLED4013	DC24	6x2W	13W	6000K	890lm	>80	15°, 30°
NFLED4013	110-240V	6x2W	13.5W	3000K	760lm	>80	15°, 30°
NFLED4013	110-240V	6x2W	13.5W	6000K	890lm	>80	15°, 30°

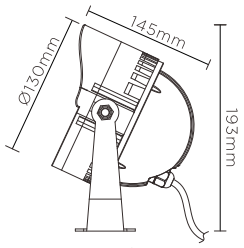
Accessories	Driver
spike 210	NLED-DV110* (see page 127)



NFLED4012
Windage: 0.008m²
Weight: 0.9kg

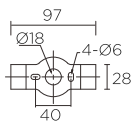


Spike
(Not included)

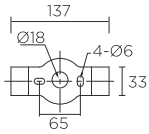


NFLED4013
Windage: 0.017m²
Weight: 1.7kg

Spike
(Not included)



NFLED4012



NFLED4013

NFLED4014

Landscape high power flood lights

NFLED4014

15° 30° DC24V 110-240V IP65 30000h

APPLICATIONS

- Lawns and gardens
- Paths
- Sculptures

TECHNICAL DETAILS

- NICHIA LED
- Rated life: 30,000 hours

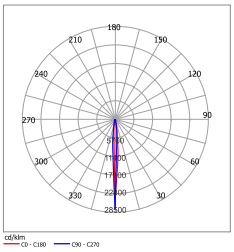
OPTIONS

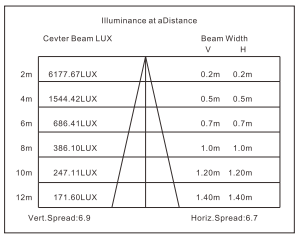
- **Driver:** Choice of the built-in 110-240V driver or separate DC 24V IP65 driver (separate driver not included)

CONSTRUCTION

- Die-cast aluminium housing
- Power coated aluminium bracket
- Tempered glass 4mm thick
- LED driver included with 110-240V versions only
- Mounting spike not include
- 20V DC, driver not included. please refer to the driver section
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

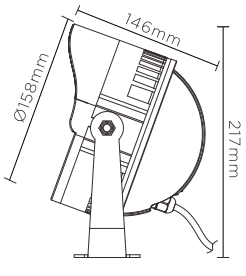
NFLED4014





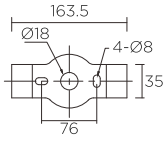
Model	Input	LED Chip	Watts	Colour temp.	Lumens	CRI	Beam angle
NFLED4014	DC24	6x3W	18W	3000K	1600lm	>80	15°, 30°
NFLED4014	DC24	6x3W	18W	6000K	1800lm	>80	15°, 30°
NFLED4014	110-240V	6x3W	18W	3000K	1600lm	>80	15°, 30°
NFLED4014	110-240V	6x3W	18W	6000K	1800lm	>80	15°, 30°

Accessories	Driver
spike 308	NLED-DV110* (see page 127)



NFLED4014
Windage: 0.025m²
Weight: 2.4kg

Spike
(Not included)



NFLED4015 NFLED4016

Landscape COB flood lights

NFLED4015

NFLED4016

25° DC24V 110-240V IP65 30000h

APPLICATIONS

- Lawns and gardens
- Paths

TECHNICAL DETAILS

- COB LEDs
- Rated life: 30,000 hours

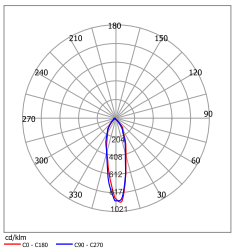
CONSTRUCTION

- Die-cast aluminium housing
- Power coated aluminium bracket
- Tempered glass (4mm thick)
- LED driver included with 110-240V versions only
- Mounting spike is not included
- 20V DC, driver not included. please refer to the driver section
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

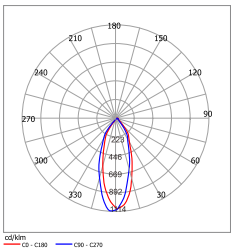
OPTIONS

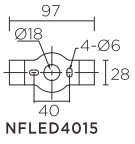
- **Driver:** Choice of the built-in 110-240V driver or separate DC 24V IP65 driver (separate driver not included)

NFLED4015

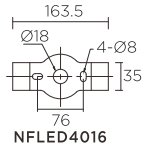


NFLED4016





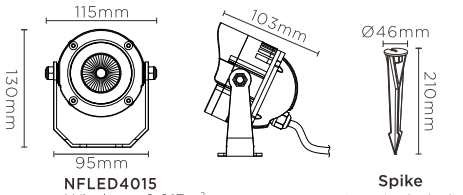
NFLED4015



NFLED4016

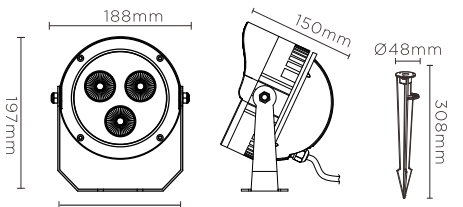
Model	Input	LED Chip	Watts	Colour temp.	Lumens	CRI
NFLED4015	DC24/110-240V	1x6WCOB	7.5W	3000K	450lm	>80
NFLED4015	DC24/110-240V	1x6WCOB	7.5W	6000K	540lm	>80
NFLED4016	DC24/110-240V	3x5WCOB	18.5W	3000K	1230lm	>80
NFLED4016	DC24/110-240V	3x5W1COB	18.5W	6000K	1380lm	>80

Accessories	Driver
spike 210	NLED-DV110* (see page 127)
spike 308	



NFLED4015
Windage: 0.013m²
Weight: 0.778kg

Spike
(Not included)



NFLED4016
Windage: 0.035m²
Weight: 2.5kg

Spike
(Not included)

IN-GROUND LIGHTS

30 NELED4201

30 NELED4201R

31 NELED4202

31 NELED4202R

32 NELED4203

33 NELED4204

34 NELED4206

35 NELED4205

35 NELED4205R

36 NELED4501C

37 NELED4212

In-ground lights

	NELED4201 (R) PAGE 30	NELED4202 (R) PAGE 31	NELED4203 NELED4204 NELED4206 PAGE 32-34	NELED4205 (R) PAGE 35	NELED4501C PAGE 36	NELED4212A (B,D) PAGE 37
WATTAGE	**LUMEN OUTPUTS**					
1	11					
2		77				
3						15
6			479	529	508	
12			956			
18			1550			
FEATURES						
Colour Temp	3000K/4000K/6000K					
Mounting	In-ground	In-ground	In-ground	In-ground	In-ground	In-ground
IP Rating	IP67	IP67	IP67	IP67	IP67	IP67
IK Rating	IK06	IK08	IK07	IK08	IK08	IK10
Input Voltage	DC24V	110-240V, DC24V	110-240V, DC24V	110-240V, DC24V	110-240V, DC24V	110-240V, DC24V
Material & Housing	Aluminium + stainless steel					
Beam angle	120°	30°	20°, 45°/35°	25°	20°, 45°/35°	/
Protection Class	Class III	Class I, Class III	Class I, Class III	Class I, Class III	Class I, Class III	Class I, Class III

NELED4201

Low wattage in-ground light

120° DC24V CE IP67 III 30000h

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

CONSTRUCTION

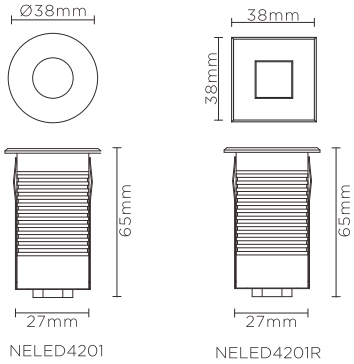
- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 5mm thick
- PVC mounting sleeve
- LED driver are not included
- Weight limit: 113kg on area Ø10mm
- Complete with a IP67 cable gland, and pre-wired with 2x1.00mm^2 H05RN wire

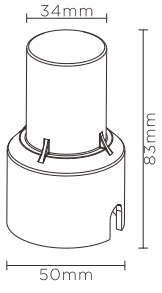
OPTIONS

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

Model	LED Chip	Watts	Colour temp.	Lumens	CRI
NELED4201	1x0.5W	1W	3000K	10 lm	>80
NELED4201	1x0.5W	1W	6000K	11 lm	>80
NELED4201R	1x0.5W	1W	3000K	10 lm	>80
NELED4201R	1x0.5W	1W	6000K	11 lm	>80

Accessories		Driver
CNI02 2pin type I IP67 connector	CNT02 2pin type T IP67 connector	NLED-DV110* (see page 127)
CNI03 3pin type I IP67 connector	CNT03 3pin type T IP67 connector	
CNI04 4pin type I IP67 connector	CNT04 4pin type T IP67 connector	
CNI05 5pin type I IP67 connector	CNT05 5pin type T IP67 connector	





NELED4202

Low wattage in-ground light

30° DC24V 110-240V IP67 30000h

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

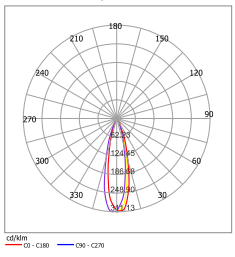
OPTIONS

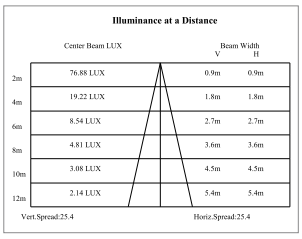
- **Driver:** Choice of separate DC 24V IP65 driver (separate driver are not included)
- **Connector:** Choice of two types of IP67 connector, straight (type I) or T (type T)

CONSTRUCTION

- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 5mm thick
- PVC mounting sleeve
- LED driver included with 110-240V versions only
- Weight limit: 321kg on area Ø10mm
- Complete with a IP67 cable gland, and pre-wired with 2x1.00mm^2 H05RN wire (DC24V) or 3*1.00mm^2 H05RN wire (110-240V)

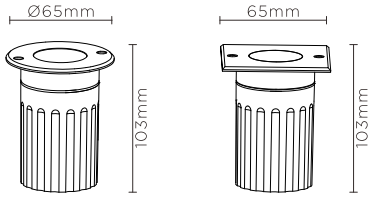
NELED4202/R



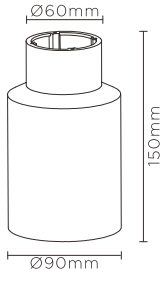


Model	LED Chip	Watts	Colour temp.	Lumens	CRI
NELED4202	1x2W	2.5W	3000K	65 lm	>80
NELED4202	1x2W	2.5W	6000K	77 lm	>80
NELED4202R	1x2W	2.5W	3000K	65 lm	>80
NELED4202R	1x2W	2.5W	6000K	77 lm	>80

Accessories		Driver
CNI02 2pin type I IP67 connector	CNT02 2pin type T IP67 connector	NLED-DV110* (see page 127)
CNI03 3pin type I IP67 connector	CNT03 3pin type T IP67 connector	
CNI04 4pin type I IP67 connector	CNT04 4pin type T IP67 connector	
CNI05 5pin type I IP67 connector	CNT05 5pin type T IP67 connector	



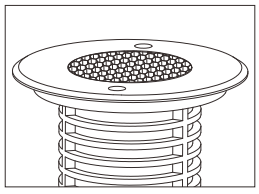
NELED4202 NELED4202R



NELED4203

High power LEDs IP67 in-ground light

45°/35°



Honeycomb_louver verison
(NELED4203(R)L)

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

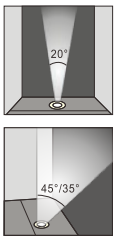
CONSTRUCTION

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

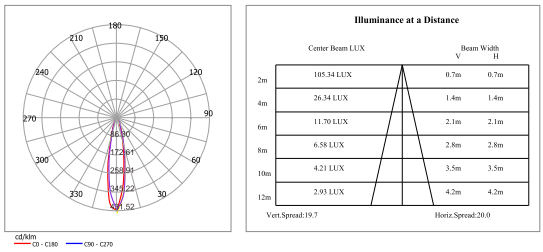
OPTIONS

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

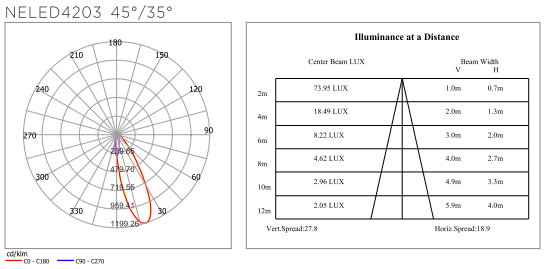
Beam angle



NELED4203 20°

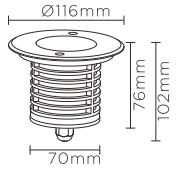


NELED4203 45°/35°

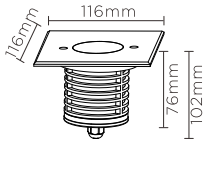


Model	LED Chip	Watts	Colour temp.	Lumens	CRI	Beam angle
NELED4203(R)	3x2W	6W	3000K	376 lm	>80	20°
NELED4203(R)	3x2W	6W	6000K	479 lm	>80	20°
NELED4203(R)	3x2W	6W	3000K	286 lm	>80	45°/35°
NELED4203(R)	3x2W	6W	6000K	370 lm	>80	45°/35°

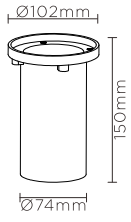
Accessories		Driver
CNI02 2pin type I IP67 connector	CNT02 2pin type T IP67 connector	NLED-DV110* (see page 127)
CNI03 3pin type I IP67 connector	CNT03 3pin type T IP67 connector	
CNI04 4pin type I IP67 connector	CNT04 4pin type T IP67 connector	
CNI05 5pin type I IP67 connector	CNT05 5pin type T IP67 connector	



NELED4203



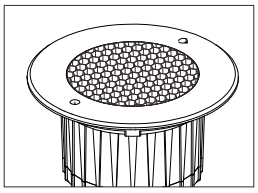
NELED4203R



NELED4204

High power LEDs IP67 in-ground light

45°/35°



Honeycomb_louver verison (NELED4204(R)L)

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

- OSRAM LEDs
- Rated life: 30,000 hours

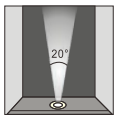
CONSTRUCTION

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

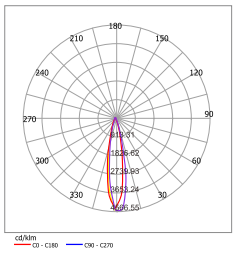
OPTIONS

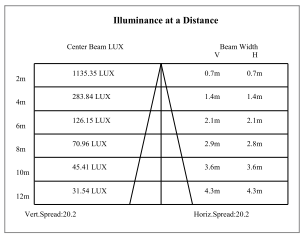
- **Driver:** Choice of separate DC 24V IP65 driver (separate driver not included)
- **Connector:** Choice of two types of IP67 connector, straight (type I) or T (type T)
- **Cover:** Choice of tempered glass cover or honeycomb_louver

Beam angle

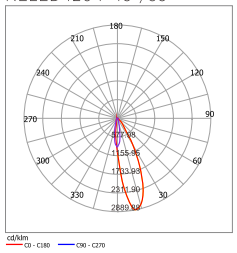


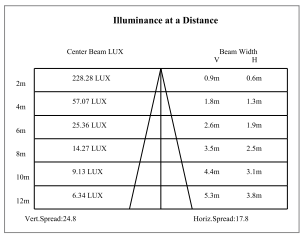
NELED4204 20°





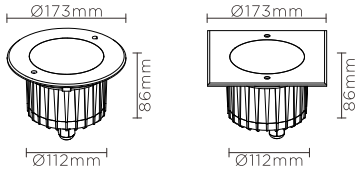
NELED4204 45°/35°



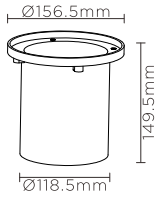


Model	LED Chip	Watts	Colour temp.	Lumens	CRI	Beam angle
NELED4204(R)	6x2W	13.5W	3000K	783 lm	>80	20°
NELED4204(R)	6x2W	13.5W	6000K	956 lm	>80	20°
NELED4204(R)	6x2W	13.5W	3000K	613 lm	>80	45°/35°
NELED4204(R)	6x2W	13.5W	6000K	757 lm	>80	45°/35°

Accessories		Driver
CNI02 2pin type I IP67 connector	CNT02 2pin type T IP67 connector	NLED-DV110* (see page 127)
CNI03 3pin type I IP67 connector	CNT03 3pin type T IP67 connector	
CNI04 4pin type I IP67 connector	CNT04 4pin type T IP67 connector	
CNI05 5pin type I IP67 connector	CNT05 5pin type T IP67 connector	



NELED4204 NELED4204R



NELED4206

High power LEDs IP67 in-ground light

45°/35°

20° 45°/35° DC24V 110-240V IP67 III 30000h

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

- NICHIA LEDs
- Rated life: 30,000 hours

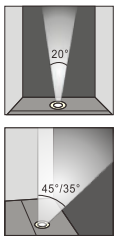
OPTIONS

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

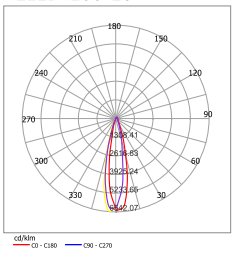
CONSTRUCTION

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

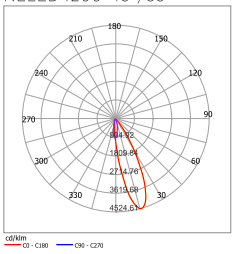
Beam angle



NELED4206 20°

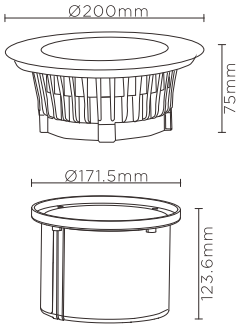


NELED4206 45°/35°



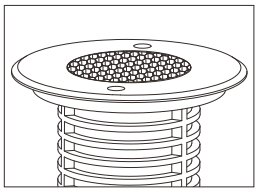
Model	LED Chip	Watts	Colour temp.	Lumens	CRI	Beam angle
NELED4206	6x3W	18W	3000K	1,605 lm	>80	20°
NELED4206	6x3W	18W	6000K	1,866 lm	>80	20°
NELED4206	6x3W	18W	3000K	1,307 lm	>80	45°/35°
NELED4206	6x3W	18W	6000K	1,543 lm	>80	45°/35°

Accessories		Driver
CNI02 2pin type I IP67 connector	CNT02 2pin type T IP67 connector	NLED-DV110* (see page 127)
CNI03 3pin type I IP67 connector	CNT03 3pin type T IP67 connector	
CNI04 4pin type I IP67 connector	CNT04 4pin type T IP67 connector	
CNI05 5pin type I IP67 connector	CNT05 5pin type T IP67 connector	



NELED4205

COB IP67 in-ground light



Honeycomb_louver verison
(NELED4205(R)L)

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

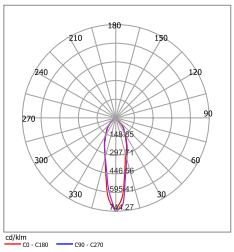
OPTIONS

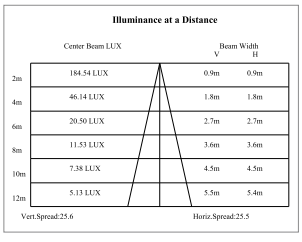
- **Driver:** Choice of separate DC 24V IP65 driver (separate driver not included)
- **Connector:** Choice of two types of IP67 connector, straight (type I) or T (type T)
- **Cover:** Choice of tempered glass cover or honeycomb_louver

CONSTRUCTION

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

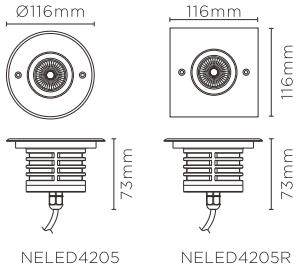
NELED4205/R

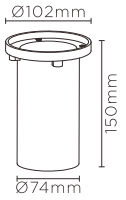




Model	LED Chip	Watts	Colour temp.	Lumens	CRI
NELED4205	1x6WCOB	6.5W	3000K	529 lm	>80
NELED4205	1x6WCOB	6.5W	3000K	529 lm	>80
NELED4205R	1x6WCOB	6.5W	3000K	529 lm	>80
NELED4205R	1x6WCOB	6.5W	3000K	529 lm	>80

Accessories		Driver
CNI02 2pin type I IP67 connector	CNT02 2pin type T IP67 connector	NLED-DV110* (see page 127)
CNI03 3pin type I IP67 connector	CNT03 3pin type T IP67 connector	
CNI04 4pin type I IP67 connector	CNT04 4pin type T IP67 connector	
CNI05 5pin type I IP67 connector	CNT05 5pin type T IP67 connector	





NELED4501C

Rectangle IP67 in-ground light

Supplied complete with external IP67 enclosure for mains driver

For remote 24V driver, enclosure is to be supplied by installer

45°/35°

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

- OSRAM LEDs
- Rated life: 30,000 hours

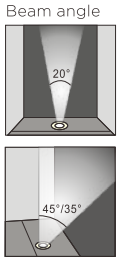
OPTIONS

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

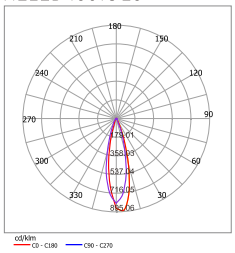
CONSTRUCTION

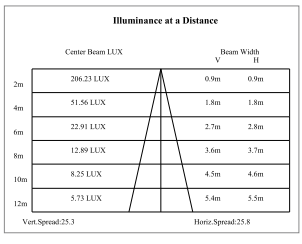
- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 8mm thick
- PVC mounting sleeve
- LED driver included with 110-240V versions only
- Weight limit: 917kg on area Ø10mm, 1285kg on area Ø30mm, 2000kg on area Ø60mm
- Complete with a IP67 cable gland, and pre-wired with 2x1.00mm^2 H05RN wire (DC24V) or 3x1.00mm^2 H05RN wire (110-240V)

Beam angle



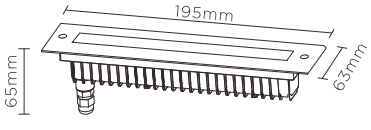
NELED4501C 25°

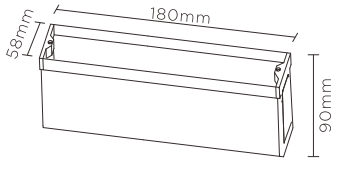




Model	LED Chip	Watts	Colour temp.	Lumens	CRI	Beam angle
NELED4501C	3x2W	7W	3000K	333 lm	>80	20°
NELED4501C	3x2W	7W	6000K	508 lm	>80	20°
NELED4501C	3x2W	7W	3000K	285 lm	>80	45°/35°
NELED4501C	3x2W	7W	6000K	400 lm	>80	45°/35°

Accessories		Driver
CNI02 2pin type I IP67 connector	CNT02 2pin type T IP67 connector	NLED-DV110* (see page 127)
CNI03 3pin type I IP67 connector	CNT03 3pin type T IP67 connector	
CNI04 4pin type I IP67 connector	CNT04 4pin type T IP67 connector	
CNI05 5pin type I IP67 connector	CNT05 5pin type T IP67 connector	

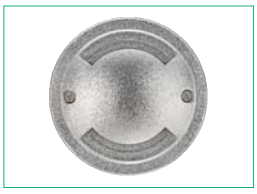




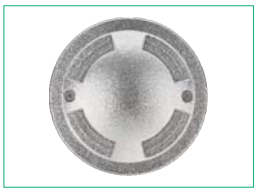
NELED4212

Side light output IP67 in-ground light

NELED4212A



NELED4212B



NELED4212D

DC24V 110-240V IP67 III 30000h

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

CONSTRUCTION

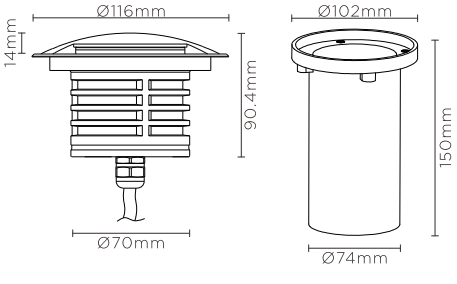
- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 8mm thick
- PVC mounting sleeve
- Weight limit: 2,000kg
- LED driver included with 110-240V versions only
- Complete with a IP67 cable gland, and pre-wired with 2x1.00mm^2 H05RN wire (DC24V) or 3x1.00mm^2 H05RN wire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

OPTIONS

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

Model	LED Chip	Watts	Colour temp.	Lumens	CRI
NELED4212A	6x0.5W SMD5630	3W	3000K	8 lm	>80
NELED4212B	6x0.5W SMD5630	3W	3000K	10 lm	>80
NELED4212D	6x0.5W SMD5630	3W	3000K	15 lm	>80

Accessories		Driver
CNI02 2pin type I IP67 connector	CNT02 2pin type T IP67 connector	NLED-DV110* (see page 127)
CNI03 3pin type I IP67 connector	CNT03 3pin type T IP67 connector	
CNI04 4pin type I IP67 connector	CNT04 4pin type T IP67 connector	
CNI05 5pin type I IP67 connector	CNT05 5pin type T IP67 connector	



UNDERWATER LIGHTS

39 NUWLED4330

40 NSLED4321

41 NSLED4310

42 NSLED4315

43 NSLED4312

NUWLED4330

Adjustable IP68 underwater lights

15° 20° 30° 45° 24V IP68 III 30000h

APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

TECHNICAL DETAILS

- High Power LEDs
- Rated life: 30,000 hours

CONSTRUCTION

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

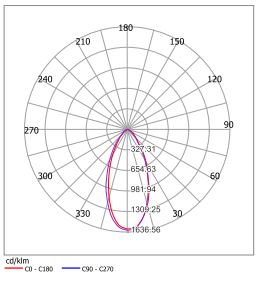
OPTIONS

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

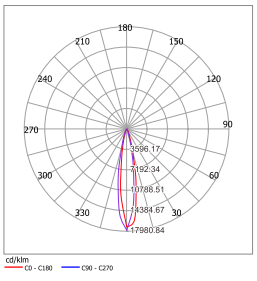
Warning

- Must be installed underwater to prevent over-heating

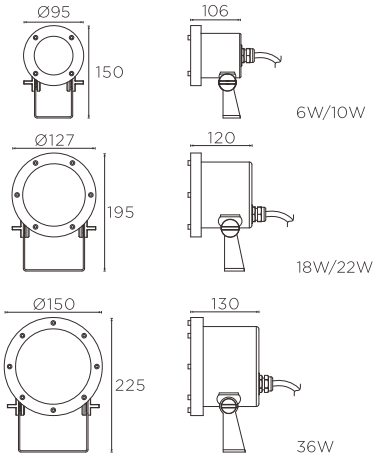
NUWLED4330 18W 45°



NUWLED4330 36W 15°



Model	Watts	Colour temp.	Lumens	CRI	Beam angle
NUWLED4330 6W	6W	3000K	540 lm	>80	15°/20°/30°/45°
NUWLED4330 6W	6W	6000K	570 lm	>80	15°/20°/30°/45°
NUWLED4330 10W	10W	RGB	/	>80	15°/20°/30°/45°
NUWLED4330 18W	18W	3000K	1,500 lm	>80	15°/20°/30°/45°
NUWLED4330 18W	18W	6000K	1,700 lm	>80	15°/20°/30°/45°
NUWLED4330 22W	22W	RGB	/	>80	15°/20°/30°/45°
NUWLED4330 36W	36W	3000K	2,670 lm	>80	15°/20°/30°/45°
NUWLED4330 36W	36W	6000K	3,050 lm	>80	15°/20°/30°/45°
NUWLED4330 36W	36W	RGB	/	>80	15°/20°/30°/45°



NSLED4321

IP68 LED fountain lights

25° DC24V IP68 III 30000h

APPLICATIONS

- Fountains
- Underwater decorations

TECHNICAL DETAILS

- OSRAM LEDs
- Rated life: 30,000 hours

CONSTRUCTION

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

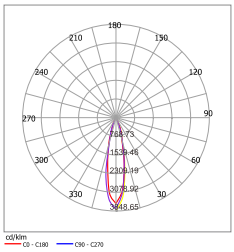
OPTIONS

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

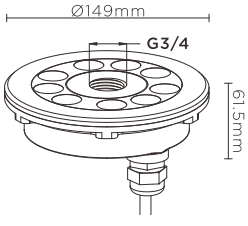
Warning

- Must be installed underwater to prevent over-heating

NSLED4321



Model	LED Chip	Watts	Colour temp.	Lumens	CRI
NSLED4321	9x1.5W	17W	3000K	567 lm	>80
NSLED4321	9x1.5W	17W	6000K	700 lm	>80
NSLED4321	9x2W	25W	RGB	/	>80



NSLED4310

Low wattage recessed IP68 underwater lights

15° 30° DC24V IP68 30000h

APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

TECHNICAL DETAILS

- OSRAM LEDs
- Rated life: 30,000 hours

CONSTRUCTION

- Grade 316 satin finish stainless steel body and bezel
- EPDM gasket
- 7mm tempered glass
- PVC mounting sleeve
- LED driver not included

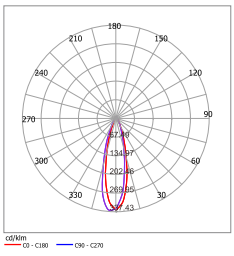
OPTIONS

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

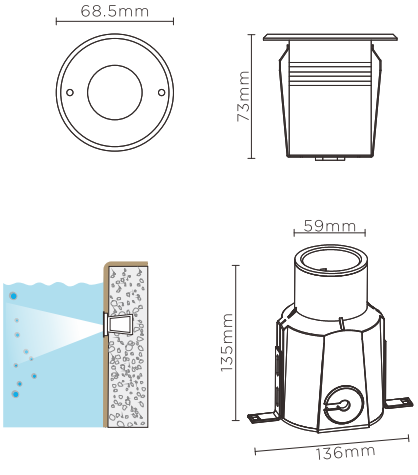
Warning

- Must be installed underwater to prevent over-heating

NSLED4310



Model	LED Chip	Watts	Colour temp.	Lumens	CRI	Beam angle
NSLED4310	1x3W	3W	3000K	139 lm	>80	30°
NSLED4310	1x3W	3W	6000K	174 lm	>80	30°
NSLED4310	1x3W	3.5W	RGB	/	>80	15°



NSLED4315

Rectangle IP68 LED underwater lights

50°/35°

30° 50°/35° DC24V 30000h

APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

TECHNICAL DETAILS

- OSRAM LEDs
- Rated life: 30,000 hours

CONSTRUCTION

- Grade 316 stainless steel housing and satin finish bezel
- EPDM gasket
- 9mm tempered glass
- PVC mounting sleeve
- LED driver not included

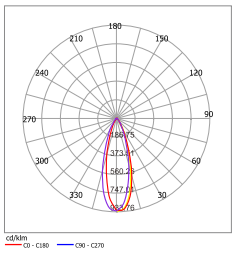
OPTIONS

- **Beam angle:** Choince of 30 degree symmetric or elliptical asymmetric
- **Driver:** Choice of separate DC 24V IP65 driver (separate driver not included)

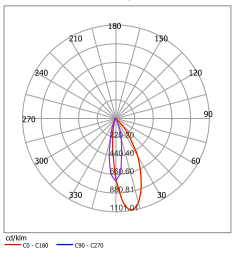
Warning

- Must be installed underwater to prevent over-heating

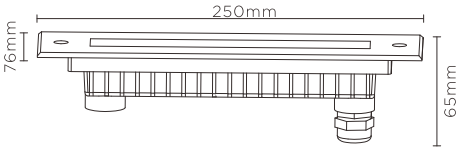
NSLED4315 30°

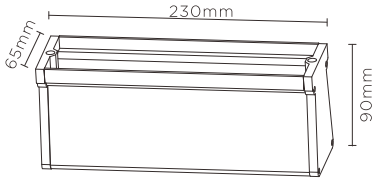


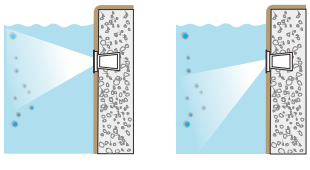
NSLED4315 50°/35°



Model	LED Chip	Watts	Colour temp.	Lumens	CRI	Beam angle
NSLED4315	6x2W	12.5W	3000K	530 lm	>80	30°
NSLED4315	6x2W	12.5W	6000K	610 lm	>80	30°
NSLED4315	6x2W	12.5W	3000K	525 lm	>80	50°/35°
NSLED4315	6x2W	12.5W	6000K	610 lm	>80	50°/35°







NSLED4312

Recessed mounting IP68 underwater lights

25° 30° 24V IP68 30000h

APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

TECHNICAL DETAILS

- OSRAM LEDs
- Rated life: 30,000 hours

CONSTRUCTION

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

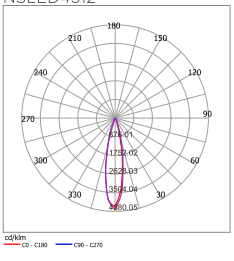
OPTIONS

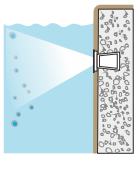
- **Driver:** Choice of separate DC 24V IP65 driver (separate driver not included)

Warning

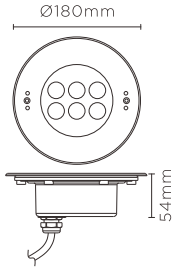
- Must be installed underwater to prevent over-heating

NSLED4312





Model	LED Chip	Watts	Colour temp.	Lumens	CRI	Beam angle
NSLED4312	6x2W	17W	3000K	906 lm	>80	30°
NSLED4312	6x2W	17W	6000K	1,234 lm	>80	30°
NSLED4312	6x2W	24W	RGB	/	-	25°



BOLLARDS

47 NGLED5623

49 NGLED5613

51 NGLED5653

53 NGLED5663

55 NGLED5612

57 NGLED5615

58 NGLED3607

59 NGLED3603

60 NGLED3562

62 NBLLED353

63 NBLLED354

Bollards

	NGLED5623 PAGE 47	NGLED5613 PAGE 49	NGLED5653 PAGE 51	NGLED5663 PAGE 53	NGLED5612 PAGE 55	NGLED5615 PAGE 57	NGLED3607 PAGE 58	NGLED3603 PAGE 59	NGLED3562 PAGE 60	NBLLED353 PAGE 62	NBLLED354 PAGE 63
WATTAGE	**LUMEN OUTPUTS**										
6-10	160	805	155			183	800	390		560	560
11-15				123	275				230		
FEATURES											
Colour Temp	3000K/4000K/6000K										
Mounting	Surface ground mounted										
IP Rating	IP54										
Input Voltage	110-240V										
Material & Housing	Aluminium										
Protection Class	Class I										

NGLED5623

NGLED5623-2

NGLED5623-1

110-240V IP54 30000h

APPLICATIONS

- Lawns and gardens
- Paths

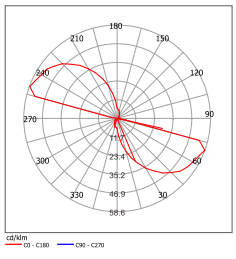
CONSTRUCTION

- Extruded aluminium housing
- Opal PC diffuser
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

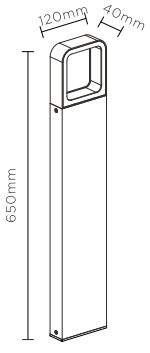
TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

NGLED5623



Model	Watts	Colour temp.	Lumens	CRI
NGLED5623-1	9W	3000K	148 lm	>80
NGLED5623-1	9W	6000K	160 lm	>80
NGLED5623-2	9W	3000K	148 lm	>80
NGLED5623-2	9W	6000K	160 lm	>80



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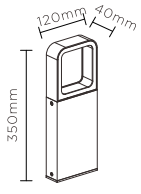


NGLED5623-2

NGLED5613

NGLED5613-2

NGLED5613-1

110-240V CE IP54 30000h

APPLICATIONS

- Lawns and gardens
- Paths

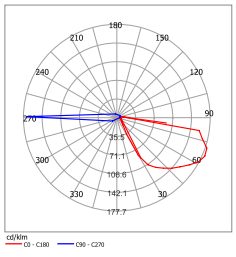
CONSTRUCTION

- Extruded aluminium housing
- Clear PC cover
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

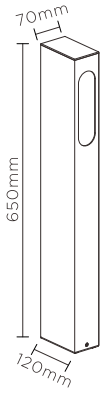
TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

NGLED5613

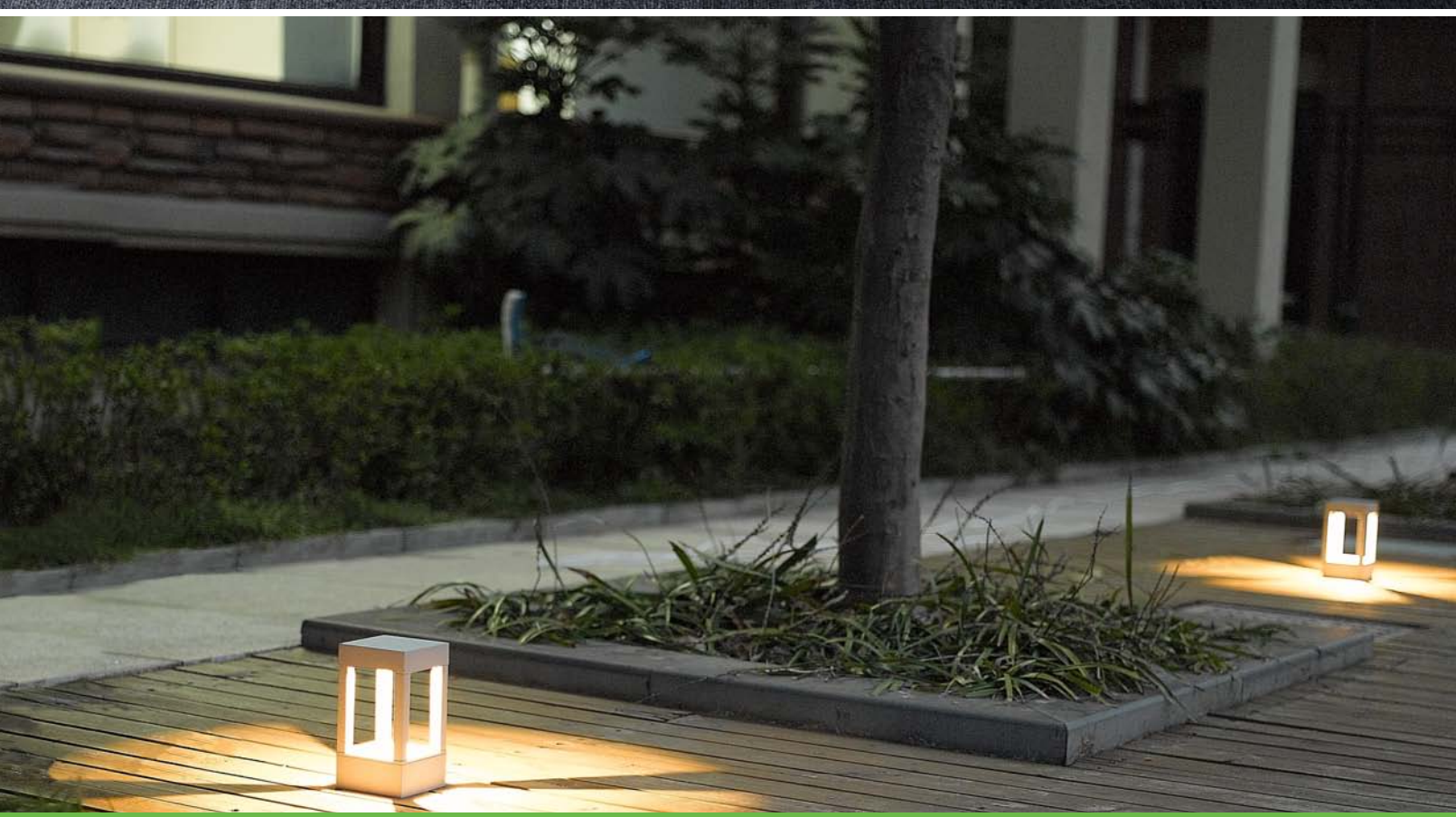


Model	Watts	Colour temp.	Lumens	CRI
NGLED5613-1	9W	3000K	741 lm	>80
NGLED5613-1	9W	6000K	805 lm	>80
NGLED5613-2	9W	3000K	741 lm	>80
NGLED5613-2	9W	6000K	805 lm	>80



NGLED5613-1

NGLED5613-2



NGLED5653

NGLED5653-2

NGLED5653-1

110-240V CE IP54 30000h

APPLICATIONS

- Lawns and gardens
- Paths

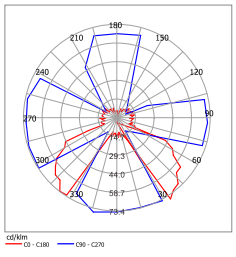
CONSTRUCTION

- Extruded aluminium housing
- Convex glass
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

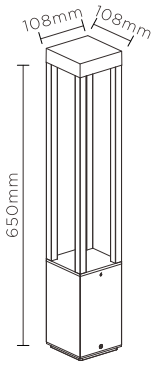
TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

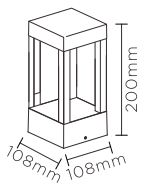
NGLED5653



Model	Watts	Colour temp.	Lumens	CRI
NGLED5653-1	9W	3000K	143 lm	>80
NGLED5653-1	9W	6000K	155 lm	>80
NGLED5653-2	9W	3000K	143 lm	>80
NGLED5653-2	9W	6000K	155 lm	>80



NGLED5653-1



NGLED5653-2

NGLED5663

NGLED5663-2

NGLED5663-1

110-240V IP54 30000h

APPLICATIONS

- Lawns and gardens
- Paths

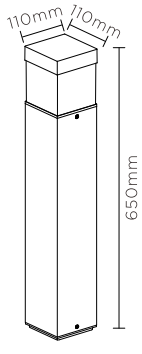
CONSTRUCTION

- Extruded aluminium housing
- Clear PC cover
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

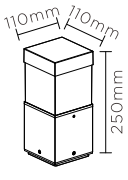
TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI
NGLED5663-1	13W	3000K	112 lm	>80
NGLED5663-1	13W	6000K	123 lm	>80
NGLED5663-2	13W	3000K	112 lm	>80
NGLED5663-2	13W	6000K	123 lm	>80



NGLED5663-1



NGLED5663-2

NGLED5612

NGLED5612-2

NGLED5612-1

110-240V CE IP54 30000h

APPLICATIONS

- Lawns and gardens
- Paths

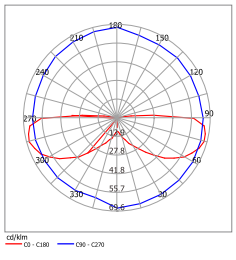
CONSTRUCTION

- Extruded aluminium housing
- Frosted PC diffuser
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

TECHNICAL DETAILS

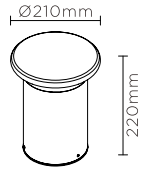
- CREE LEDs
- Rated life: 30,000 hours

NGLED5612



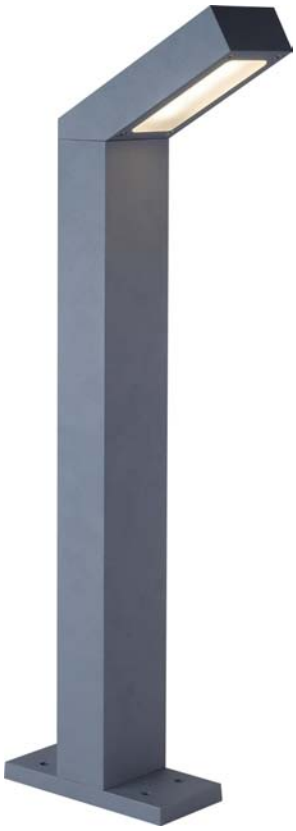
Model	Watts	Colour temp.	Lumens	CRI
NGLED5612-1	12W	3000K	253 lm	>80
NGLED5612-1	12W	6000K	275 lm	>80
NGLED5612-2	12W	3000K	253 lm	>80
NGLED5612-2	12W	6000K	275 lm	>80

NGLED5612-1



NGLED5612-2

NGLED5615



110-240V IP54 30000h

APPLICATIONS

- Lawns and gardens
- Paths

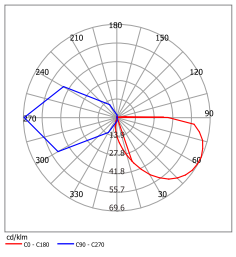
CONSTRUCTION

- Extruded aluminium housing
- Frost PC
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

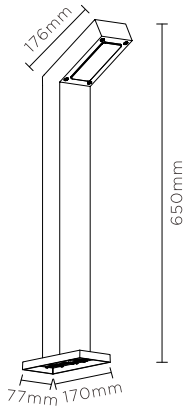
TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

NGLED5615



Model	Watts	Colour temp.	Lumens	CRI
NGLED5615	9W	3000K	167 lm	>80
NGLED5615	9W	6000K	183 lm	>80



NGLED3607

110-240V IP54 30000h

APPLICATIONS

- Lawns and gardens
- Paths

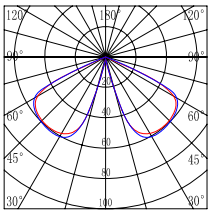
CONSTRUCTION

- Extruded aluminium housing
- Clear PC diffuser
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

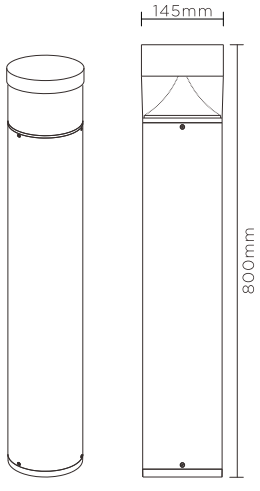
TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

NGLED3607



Model	Watts	Colour temp.	Lumens	CRI
NGLED3607	9W	3000K	780 lm	>80
NGLED3607	9W	6000K	800 lm	>80



NGLED3603

NGLED3603-2

NGLED3603-1

110-240V CE IP54 30000h

APPLICATIONS

- Lawns and gardens
- Paths

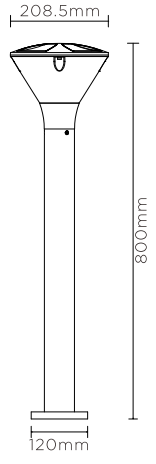
CONSTRUCTION

- Extruded aluminium housing
- Frosted PC diffuser
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

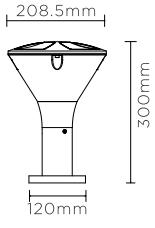
TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI
NGLED3603-1	10.5W	3000K	360 lm	>80
NGLED3603-1	10.5W	6000K	390 lm	>80
NGLED3603-2	10.5W	3000K	360 lm	>80
NGLED3603-2	10.5W	6000K	390 lm	>80



NGLED3603-1



NGLED3603-2

NGLED3562

NGLED3562A

NGLED3562B

NGLED3562C

110-240V IP54 30000h

APPLICATIONS

- Lawns and gardens
- Paths

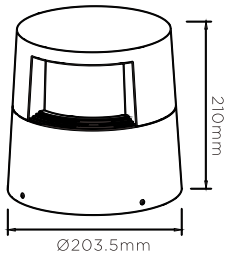
CONSTRUCTION

- Extruded aluminium housing
- Clear PC diffuser
- LED driver included
- Supplied complete with mounting bolts
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI
NGLED3562A	14 W	3000K/6000K	230 lm	>70
NGLED3562B	14 W	3000K/6000K	230 lm	>70
NGLED3562C	14 W	3000K/6000K	230 lm	>70



NBLLED353

NPTLED353

NWMLED353

110-240V IP54 30000h

APPLICATIONS

- Lawns and gardens
- Paths

CONSTRUCTION

- Die-casting aluminium housing
- Pre-treated for corrosion resistance
- PC diffuser
- LED driver included
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

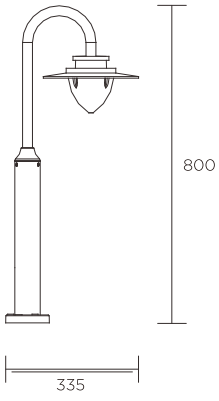
Options

- For the NPTLED353 version please refer to the post top lights section and for the NWMLED353 version please refer to the wall lights section

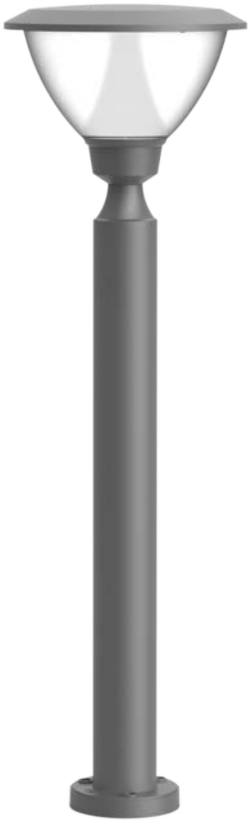
TECHNICAL DETAILS

- COB LED
- Rated life: 30,000 hours

Model	Colour temp.	Lumens	CRI	PF
NBLLED353	3000K/4000K/6500K	640 lm	>70	>0.9



NBLLED354



NPTLED354

NWMLED354

110-240V IP54 30000h

APPLICATIONS

- Lawns and gardens
- Paths

CONSTRUCTION

- Die-casting aluminium housing
- Pre-treated for corrosion resistance
- PC diffuser
- LED driver included
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

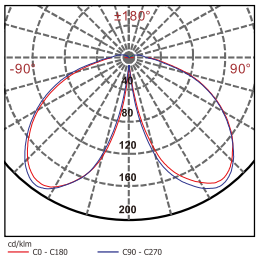
Options

- For the NPTLED354 version please refer to the post top lights section and for the NWMLED354 version please refer to the wall lights section

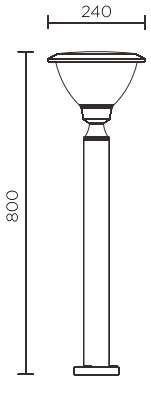
TECHNICAL DETAILS

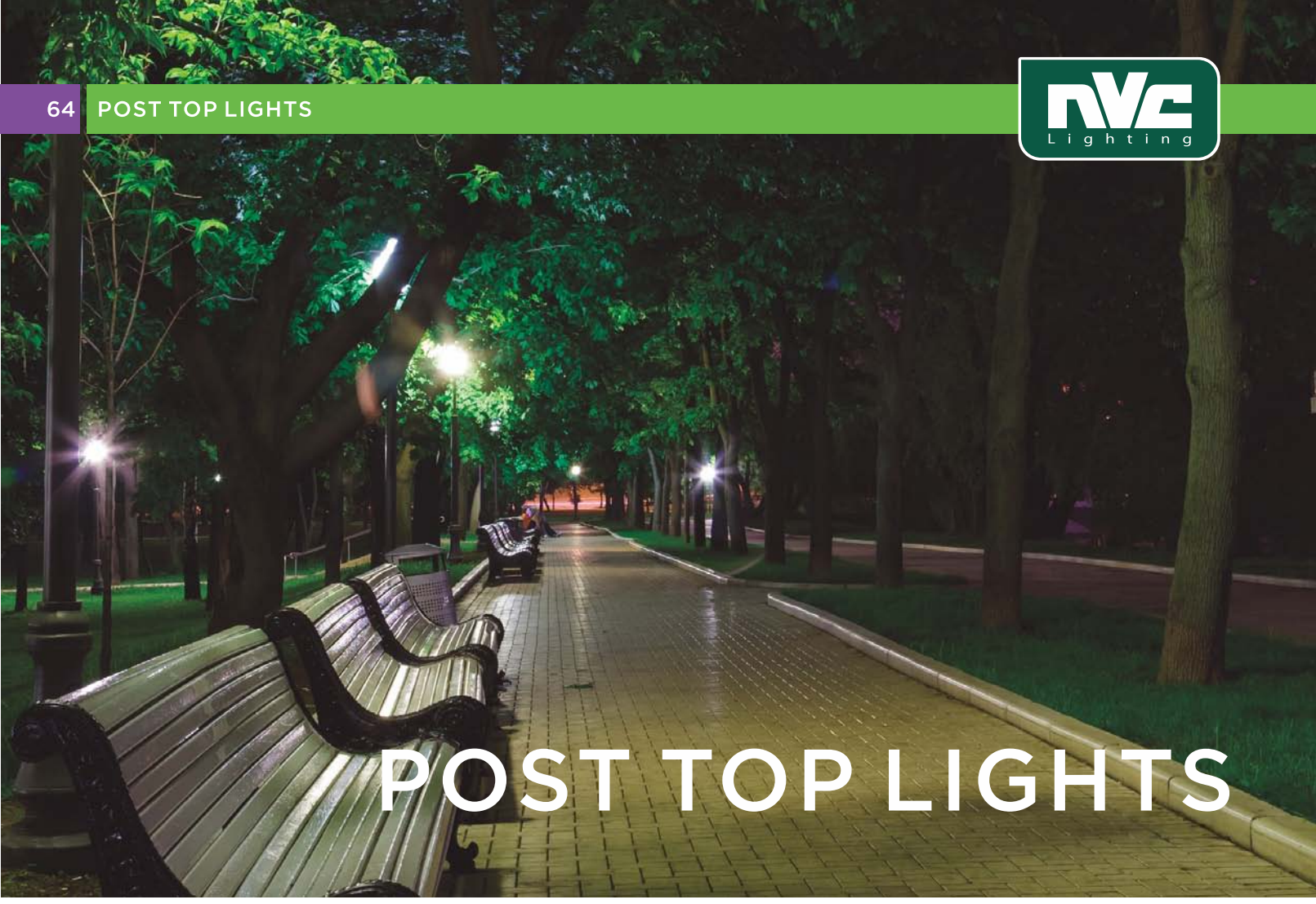
- COB LED
- Rated life: 30,000 hours

NBLLED354



Model	Colour temp.	Lumens	CRI	PF
NBLLED354	3000K/4000K/6500K	640 lm	>70	>0.9



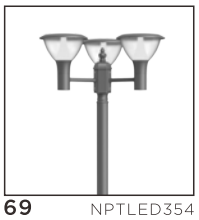


POST TOP LIGHTS

66 NPTLED351

67 NPTLED352

68 NPTLED353



69 NPTLED354

NPTLED351

110-240V IP65 30000h

APPLICATIONS

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

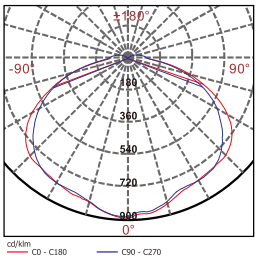
CONSTRUCTION

- Die-casting aluminium housing
- Powder coated surface treatment
- PC diffuser
- Driver included
- 2500mm pole included
- Foundation included
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

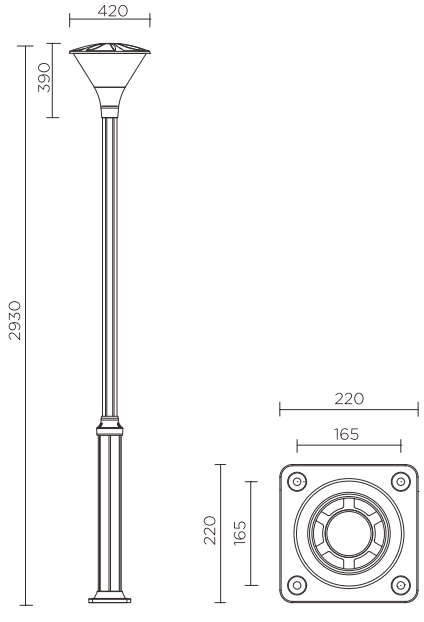
TECHNICAL DETAILS

- CREE COB LED
- Rated life: 30,000 hours

NPTLED351



Model	Watts	Colour temp.	Lumens	CRI	PF
NPTLED351 36W	36W	3000K/4000K/6000K	2,800 lm	>70	>0.9



NPTLED352

110-240V | CE | IP65 | 30000h

APPLICATIONS

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

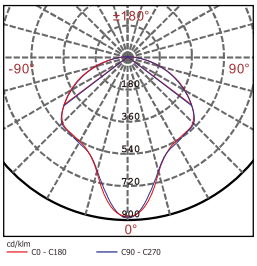
CONSTRUCTION

- Die-casting aluminium housing
- Powder coated surface treatment
- PC diffuser
- Driver included
- 2500mm pole included
- Foundation included
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

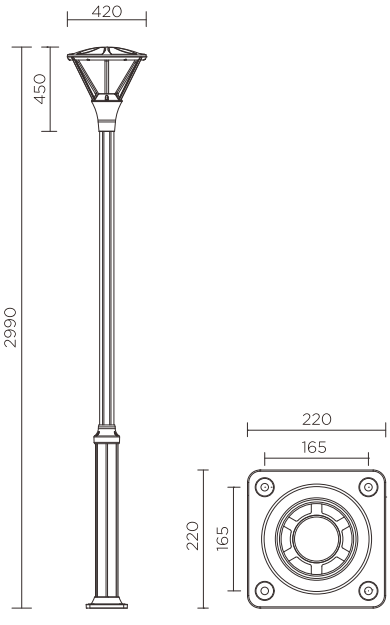
TECHNICAL DETAILS

- CREE COB LED
- Rated life: 30,000 hours

NPTLED352



Model	Watts	Colour temp.	Lumens	CRI	PF
NPTLED352 36W	36W	3000K/4000K/6000K	2,800 lm	>70	>0.9



NPTLED353

NWMLED353

NBLLED353

110-240V CE IP54 30000h

APPLICATIONS

- Functional
- Architectural
- Decorative lighting
- Hotels
- Offices
- Residential developments

CONSTRUCTION

- Die-casting aluminium housing
- Pre-treated for corrosion resistance
- PC diffuser
- LEDs on metal core PCB
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

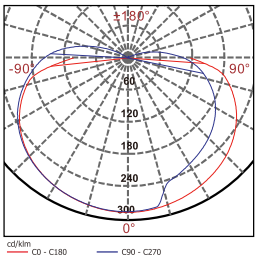
Options

- For the NWMLED353 version please refer to the wall lights section and for the NBLLED353 version please refer to the bollard lights section

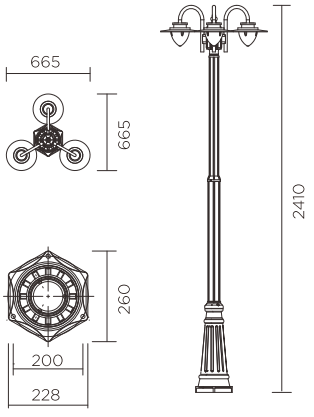
TECHNICAL DETAILS

- CREE COB LED
- Rated life: 30,000 hours

NPTLED353

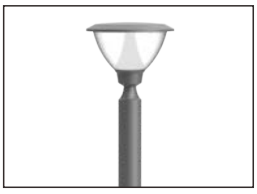


Model	Watts	Colour temp.	Lumens	CRI	PF
NPTLED353	24W	3000K/4000K/6000K	1,900 lm	>70	>0.9



NPTLED354

NWMLED354



NBLLED354

110-240V IP54 30000h

APPLICATIONS

- Functional
- Architectural
- Decorative lighting
- Hotels
- Offices
- Residential developments

CONSTRUCTION

- Die-casting aluminium housing
- Pre-treated for corrosion resistance
- PC diffuser
- LEDs on metal core PCB
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

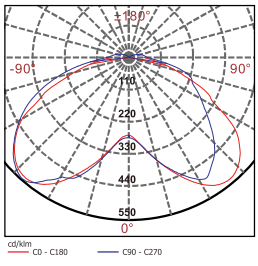
Options

- For the NWMLED354 version please refer to the wall lights section and for the NBLLED354 version please refer to the bollard lights section

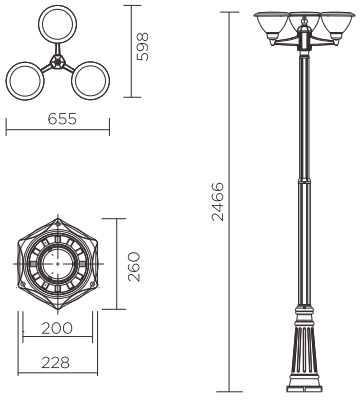
TECHNICAL DETAILS

- CREE COB LED
- Rated life: 30,000 hours

NPTLED354



Model	Watts	Colour temp.	Lumens	CRI	PF
NPTLED354	24W	3000K/4000K/6000K	1,900 lm	>70	>0.9



SURFACE WALL LIGHTS

73 NWLED3531

75 NWLED5512

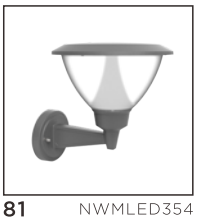
76 NWLED5513

77 NWLED3543
NWLED3544

78 NWMLED351

79 NWMLED352

80 NWMLED353



81 NWMLED354

82 NWLED5541R

83 NWLED3501A

84 NWLED3505

Surface wall lights

	NWLED3531 PAGE 73	NWLED5512-1 NWLED5512-2 PAGE 75	NWLED5513-1 NWLED5513-2 PAGE 76	NWLED3543 NWLED3544 PAGE 77	NWMLED351 PAGE 78	NWMLED352 PAGE 79	NWMLED353 PAGE 80	NWMLED354 PAGE 81	NWLED5541R PAGE 82	NWLED3501A PAGE 83	NWLED3505 PAGE 84
WATTAGE	LUMEN OUTPUTS										
1-5									350		
6-10	320	550	550	760		640	640	640			530
11-15		950	950			1200				900	
16-20				1520	1600	1280					
26-30					2400	2400					
FEATURES											
Colour Temp.	3000K/4000K/6000K										
Mounting	Surface wall mounted										
Input Voltage	110-240V										
IK Rating	IP54										
Material & Housing	Aluminium										
Protection Class	Class I										

NWLED3531

110-240V IP54 30000h

APPLICATIONS

- Wall decoration
- Corridors
- Balconies

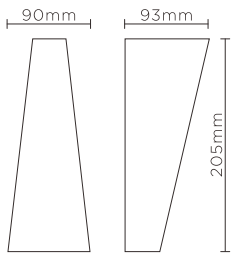
CONSTRUCTION

- Die-cast aluminium housing
- Clear tempered glass cover
- LED driver included
- Up and down side light output
- Powder coated surface treatment
- Supply with 3x1.0mm^2 wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

TECHNICAL DETAILS

- High power LEDs
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI
NWLED3531	7W	3000K	300 lm	>70
NWLED3531	7W	6000K	320 lm	>70



NWLED5512

NWLED5512-1

NWLED5512-2

25° 110-240V IP54 30000h

APPLICATIONS

- Wall decoration
- Corridors
- Columns

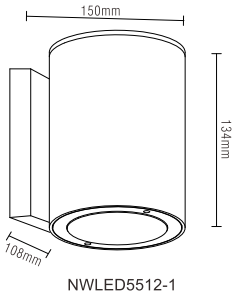
CONSTRUCTION

- Aluminium housing
- Clear glass cover
- LED driver included
- Powder coated surface treatment
- NWLED5512-1 double sides light output
- NWLED5512-2 single side light output
- Supply with 3x1.0mm^2 wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

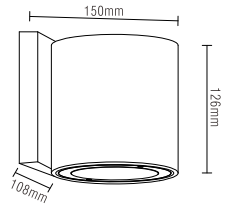
TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI
NWLED5512-1	14.5W	3000K	872 lm	>80
NWLED5512-1	14.5W	6000K	950 lm	>80
NWLED5512-2	7.5W	3000K	502 lm	>80
NWLED5512-2	7.5W	6000K	550 lm	>80



NWLED5512-1



NWLED5512-2

NWLED5513

NWLED5513-1

NWLED5513-2

25° 110-240V IP54 30000h

APPLICATIONS

- Wall decoration
- Corridors
- Columns

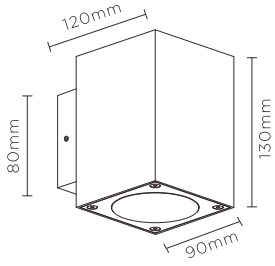
CONSTRUCTION

- Aluminium housing
- Clear glass cover
- LED driver included
- Powder coated surface treatment
- NWLED5513-1 double sides light output
- NWLED5513-2 single side light output
- Supply with 3x1.0mm^2 wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

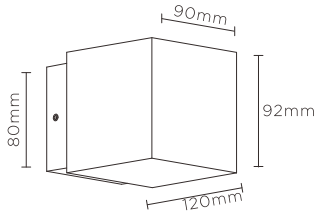
TECHNICAL DETAILS

- High poewr LEDs
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI
NWLED5513-1	14.5W	3000K	872 lm	>80
NWLED5513-1	14.5W	6500K	950 lm	>80
NWLED5513-2	7.5W	3000K	502 lm	>80
NWLED5513-2	7.5W	6500K	550 lm	>80



NWLED5513-1



NWLED5513-2

NWLED3543 NWLED3544

NWLED3543 NWLED3544

45° 110-240V IP54 30000h

APPLICATIONS

- Wall decoration
- Corridors
- Balconies

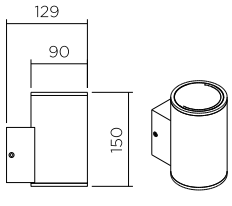
CONSTRUCTION

- Aluminium housing
- Tempered glass cover
- LED driver included
- Powder coated surface treatment
- NWLED5544 double sides light output
- NWLED5543 single side light output
- Supply with 3x1.0mm^2 wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

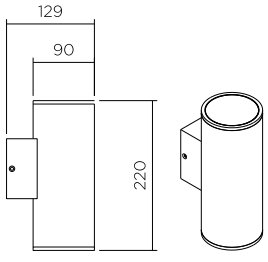
TECHNICAL DETAILS

- Bridgelux COB LEDs
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI
NWLED3543	9.4W	3000K	760 lm	>80
NWLED3543	9.4W	6500K	760 lm	>80
NWLED3544	18.5W	3000K	1520 lm	>80
NWLED3544	18.5W	6500K	1520 lm	>80



NWLED3543



NWLED3544

NWMLED351

NWMLED351

NWMLED351-2

110-240V CE IP54 30000h

APPLICATIONS

- Wall decoration
- Corridors
- Columns

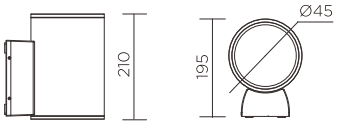
CONSTRUCTION

- Die-casting aluminium housing
- Tempered glass cover
- Powder coated surface treatment
- NWMLED551-2 double sides light output
- NWMLED551 single side light output
- LED driver included
- Supply with 3x1.0mm^2 wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

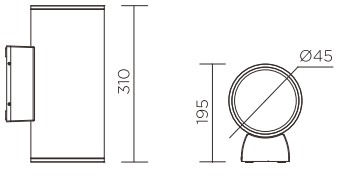
TECHNICAL DETAILS

- COB LED
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI	PF
NWMLED351 20W	20W	3000K/4000K/6500K	1600 lm	>70	>0.9
NWMLED351-2 30W	30W	3000K/4000K/6500K	2400 lm	>70	>0.9



NWMLED351



NWMLED351-2

NWMLED352

NWMLED352

NWMLED352-2

110-240V CE IP54 30000h

APPLICATIONS

- Wall decoration
- Corridors
- Columns

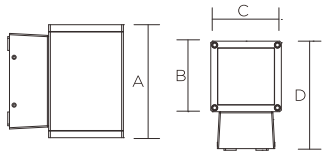
CONSTRUCTION

- Die-casting aluminium housing
- Tempered glass cover
- Powder coated surface treatment
- NWMLED352-2 double sides light output
- NWMLED352 single side light output
- LED driver included
- Supply with 3x1.0mm² wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

TECHNICAL DETAILS

- COB LED
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI	PF
NWMLED352 8W	8W	3000K/4000K/6500K	640 lm	>70	>0.9
NWMLED352 15W	15W	3000K/4000K/6500K	1200 lm	>70	>0.9
NWMLED352-2 16W	16W	3000K/4000K/6500K	1280 lm	>70	>0.9
NWMLED352-2 30W	30W	3000K/4000K/6500K	2400 lm	>70	>0.9



Watts	A	B	C	C
8W	130	86	86	133
15W	200	150	150	207
16W	220	118	118	170
30W	300	150	150	207

NWMLED353

NBLLED353

NPTLED353

110-240V IP54 30000h

APPLICATIONS

- Wall decoration
- Corridors
- Columns

CONSTRUCTION

- Die-casting aluminium housing
- PC diffuser
- Powder coated surface treatment
- LED driver included
- Supply with 3x1.0mm² wire
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

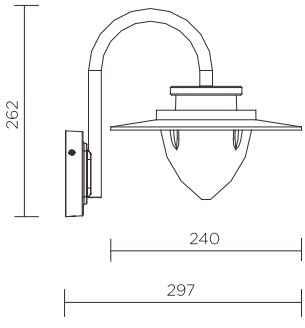
Options

- For the NBLLED353 version please refer to the bollard lights section and for the NPTLED353 version please refer to the post top lights section

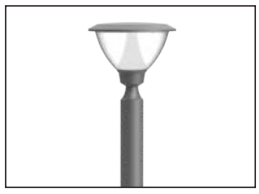
TECHNICAL DETAILS

- COB LED
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI	PF
NWMLED353	8W	3000K/4000K/6500K	640 lm	>70	>0.9



NWMLED354



NBLLED354

NPTLED354

110-240V IP54 30000h

APPLICATIONS

- Wall decoration
- Corridors
- Columns

CONSTRUCTION

- Die-casting aluminium housing
- PC diffuser
- Powder coated surface treatment
- LED driver included
- Supply with 3x1.0mm² wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

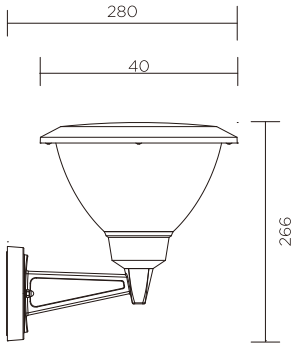
Options

- For the NBLLED354 version please refer to the bollard lights section and for the NPTLED354 version please refer to the post top lights section

TECHNICAL DETAILS

- COB LED
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI	PF
NWMLED354	8W	3000K/4000K/6500K	640 lm	>70	>0.9



NWLED5541R

110-240V CE IP54 30000h

APPLICATIONS

- Wall decoration
- Balconies

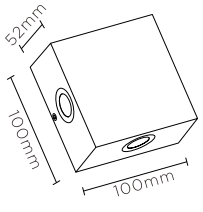
CONSTRUCTION

- Die-cast aluminium housing
- Clear glass lens
- Powder coated surface treatment
- LED driver included
- Supply with 3x1.0mm^2 wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI
NWLED5541R	5.5W	3000K	321 lm	>80
NWLED5541R	5.5W	6500K	350 lm	>80



NWLED3501A

60° 110-240V IP54 30000h

APPLICATIONS

- Wall decoration
- Corridors

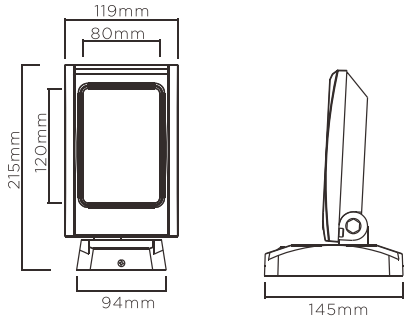
CONSTRUCTION

- Die-cast aluminium housing
- Frosted tempered glass diffuser
- Powder coated surface treatment
- LED driver included
- Supply with 3x1.0mm^2 wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI	Beam angle
NWLED3501A	12W	3000K	900 lm	>70	60°
NWLED3501A	12W	6500K	900 lm	>70	60°



NWLED3505

110-240V CE IP54 30000h

APPLICATIONS

- Wall decoration
- Corridors

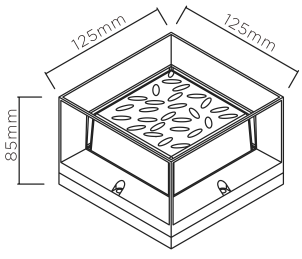
CONSTRUCTION

- Die-cast aluminium housing
- Frosted tempered glass cover
- Powder coated surface treatment
- LED driver included
- Supply with 3*1.0mm^2 wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

TECHNICAL DETAILS

- COB LED
- Rated life: 30,000 hours

Model	Watts	Colour temp.	Lumens	CRI
NWLED3505	6.5W	3000K	510 lm	>80
NWLED3505	6.5W	6500K	530 lm	>80



RECESSED WALL LIGHTS

88 NWLED556*

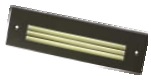
89 NWLED5566

91 NWLED5571A

91 NWLED5572A

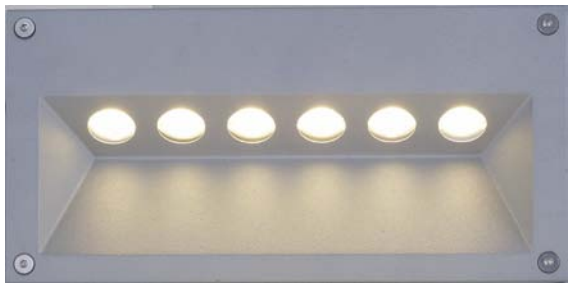
92 NWLED4522

Recessed wall lights

	NWLED556 series PAGE 88	NWLED5566 PAGE 89	NWLED557*A PAGE 91	NWLED4522 PAGE 92
				
WATTAGE	**LUMEN OUTPUTS**			
1-5	169/327	65	59	
6-10	529			36
FEATURES	**NWLED556***	**NWLED5566**	**NWLED557*A**	**NWLED4522**
Colour Temp	3000K/4000K/6000K			
Mounting	Recessed wall mounted			
IP Rating	IP54			
Input Voltage	110-240V			
Material & Housing	Aluminium			
Beam angle	30°	25°	60°	40°
Protection Class	Class I			

NWLED556 series

NWLED5561



NWLED5563

NWLED5562

110-240V IP65 30000h

APPLICATIONS

- Outdoor stairs
- Corridors
- Wall decoration

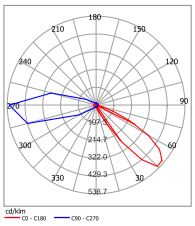
CONSTRUCTION

- Die-cast aluminium housing
- Clear glass lenses
- LED driver included
- Supply with 3x1.0mm^2 wire
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

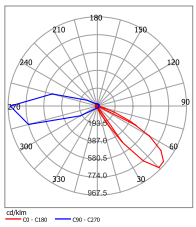
TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

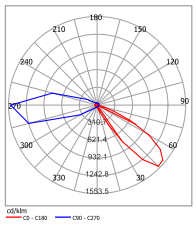
NWLED5561



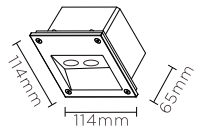
NWLED5562



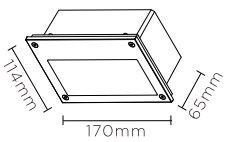
NWLED5563



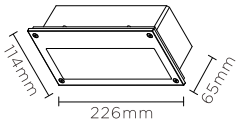
Model	Watts	Colour temp.	Lumens	CRI
NWLED5561	3.5W	3000K/6000K	169 lm	>80
NWLED5562	5W	3000K/6000K	327 lm	>80
NWLED5563	7.5W	3000K/6000K	529 lm	>80



NWLED5561

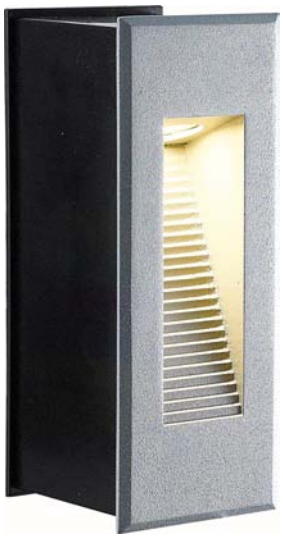


NWLED5562



NWLED5563

NWLED5566



110-240V IP65 30000h

APPLICATIONS

- Outdoor stairs
- Corridors
- Wall decoration

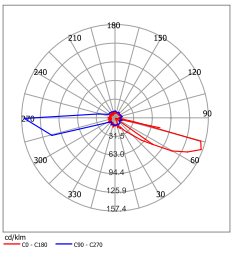
CONSTRUCTION

- Die-cast aluminium housing
- Clear glass lenses
- LED driver included
- Supply with 3x1.0mm^2 wire
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

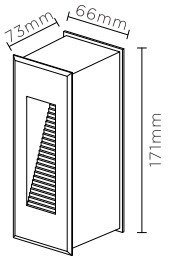
TECHNICAL DETAILS

- CREE LED
- Rated life: 30,000 hours

NWLED5566



Model	Watts	Colour temp.	Lumens	CRI
NWLED5566	4W	3000K	59 lm	>80
NWLED5566	4W	6000K	65 lm	>80



NWLED5566

NWLED5571A NWLED5572A

NWLED5571A

NWLED5572A

110-240V CE IP65 30000h

APPLICATIONS

- Outdoor stairs
- Corridors
- Wall decoration

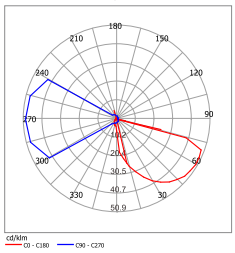
CONSTRUCTION

- Die-cast aluminium housing
- 304 stainless steel front cover
- LED driver included
- Supply with 3x1.0mm^2 wire
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

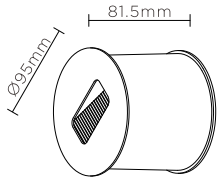
TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

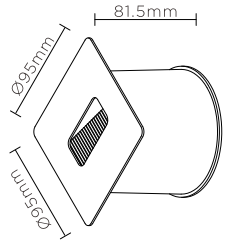
NWLED5571A/2A



Model	Watts	Colour temp.	Lumens	CRI
NWLED5571A	4W	3000K	54 lm	>80
NWLED5571A	4W	6000K	59 lm	>80
NWLED5572A	4W	3000K	54 lm	>80
NWLED5572A	4W	6000K	59 lm	>80



NWLED5571A



NWLED5572A

NWLED4522

ABS Mounting enclosure

110-240V CE IP65 30000h

APPLICATIONS

- Outdoor stairs
- Corridors
- Wall decoration

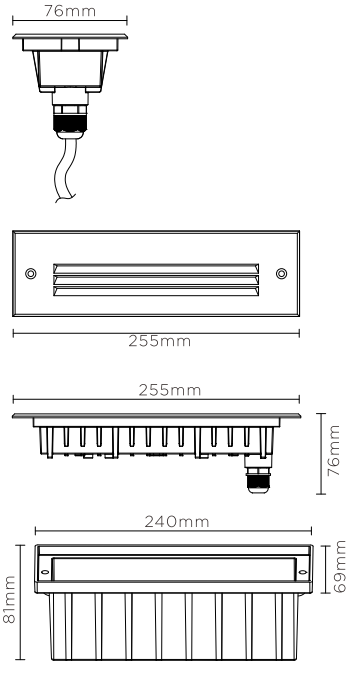
CONSTRUCTION

- Die-cast aluminium housing and bezel
- Supplied complete with ABS Mounting
- Clear glass cover
- LED driver included
- Supply with 3x1.0mm^2 wire
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

Model	Input	Watts	Colour temp.	Lumens	CRI
NWLED4522	110-240V	7.5W	3000K/6000K	36 lm	>80



CANOPY LIGHTS

97 NCLED5771

97 NCLED5772

99 NLEDM934

99 NLEDM934R

101 NLEDM3301
NLEDM3302

103 NCNLED301

Canopy lights

	NCLED5771 PAGE 97	NCLED5772 PAGE 97	NLEDM934 PAGE 99	NLEDM934R PAGE 99	NLEDM330* PAGE 101	NCNLED301 PAGE 103
WATTAGE	**LUMEN OUTPUTS**					
6-10			550	550	450	640
11-15					750	960
16-20	800	840				
FEATURES						
Colour Temp	3000K/4000K/6000K					
Mounting	Surface ceiling mounted					
IP Rating	IP54					
Input Voltage	110-240V					
Material & Housing	Aluminium					
Beam angle	80°	80°	25°	25°	45°	85°
Protection Class	Class I					

NCLED5771 NCLED5772

NCLED5771

NCLED5772

80° 110-240V IP54 30000h

APPLICATIONS

- Porches + entrances
- Corridors
- Under-canopy lighting

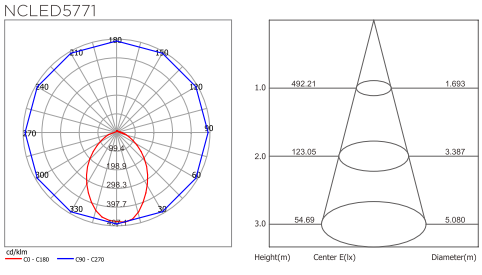
CONSTRUCTION

- Die-cast aluminium housing
- Clear glass cover
- LED driver included
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

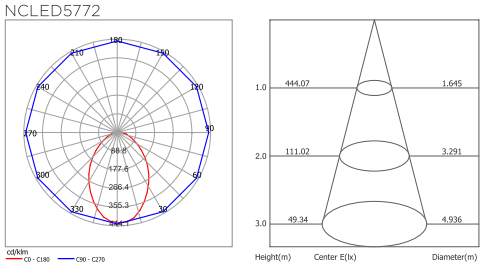
TECHNICAL DETAILS

- CREE LEDs
- Rated life: 30,000 hours

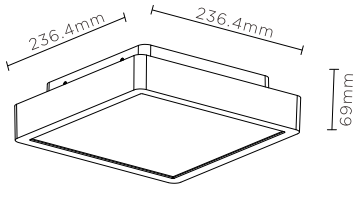
NCLED5771



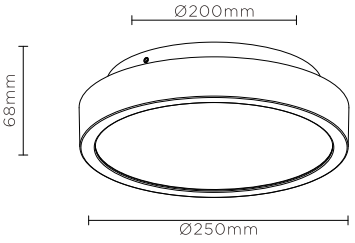
NCLED5772



Model	Watts	Colour temp.	Lumens	CRI
NCLED5771	18W	3000K/4000K/6000K	800 lm	>80
NCLED5772	19W	3000K/4000K/6000K	840 lm	>80



NCLED5771



NCLED5772

NLEDM934

NLEDM934

NLEDM934R

25° 110-240V IP54 30000h

APPLICATIONS

- Porches + entrances
- Corridors
- Under-canopy lighting

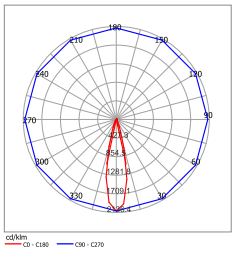
CONSTRUCTION

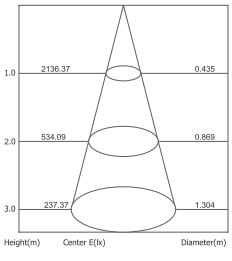
- Die-cast aluminium housing
- Clear glass cover
- LED driver included
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

TECHNICAL DETAILS

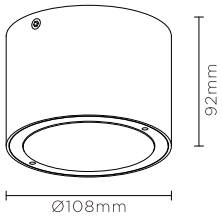
- CREE LEDs
- Rated life: 30,000 hours

NLEDM934/R

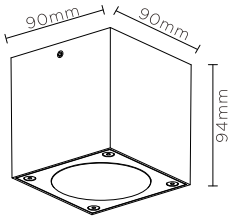




Model	Watts	Colour temp.	Lumens	CRI
NLEDM934	7.5W	3000K/4000K/6000K	550 lm	>80
NLEDM934R	7.5W	3000K/4000K/6000K	550 lm	>80



NLEDM934



NLEDM934R

NLEDM3301 NLEDM3302

NLEDM3302

NLEDM3301

APPLICATIONS

- Porches + entrances
- Corridors
- Under-canopy lighting

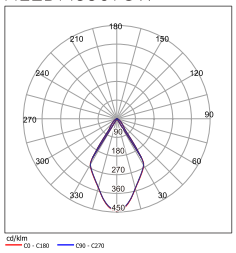
CONSTRUCTION

- Die-cast aluminium housing
- Powder coated surface treatment
- Frosted glass cover
- LED driver included
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

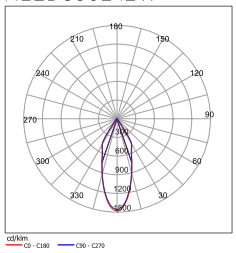
TECHNICAL DETAILS

- COB LEDs
- Rated life: 30,000 hours

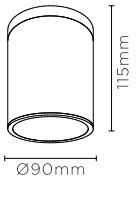
NLEDM3301 8W



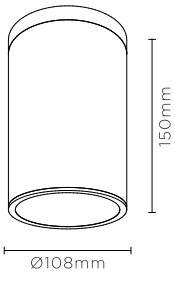
NLED3302 12W



Model	Watts	Colour temp.	Lumens	CRI	Beam angle
NLEDM3301	8W	3000K/4000K/6000K	760 lm	>80	45°
NLEDM3302	12W	3000K/4000K/6000K	1150 lm	>80	35°



NLEDM3301



NLEDM3302

NCNLED301

30° 85° 110-240V IP54 30000h

APPLICATIONS

- Porches + entrances
- Corridors
- Under-canopy lighting

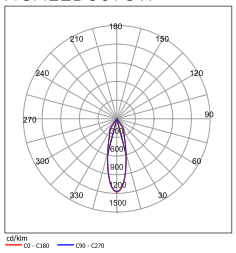
CONSTRUCTION

- Die-cast aluminium housing
- Powder coated surface treatment
- Tempered glass diffuser
- LED driver included
- Choice of three finishes:
  - •Black (similar to RAL 7021)
  - •Dark grey (similar to RAL 7037)
  - •Light grey (similar to RAL 7023)

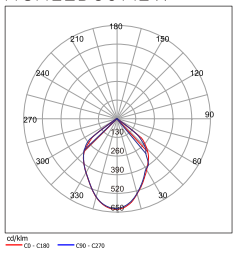
TECHNICAL DETAILS

- CREE COB LED
- Rated life: 30,000 hours

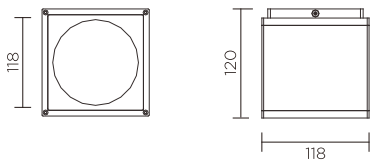
NCNLED301 8W



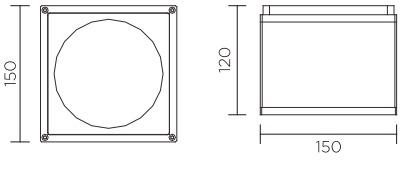
NCNLED301 12W



Model	Watts	Colour temp.	Lumens	CRI	PF	Beam angle
NCNLED301 8W	8W	3000K/4000K/6000K	640 lm	>70	>0.9	30°
NCNLED301 12W	12W	3000K/4000K/6000K	960 lm	>70	>0.9	85°



NCNLED301 8W



NCNLED301 12W

INDUSTRIAL LIGHTS

106 KELSO

107 OREGON

108 NHBLED304

109 NHBLED304E

110 NHBLED303

112 NHBLED305

113 NCNLED102

114 NLED 49*

115 NLBLED401

116 NLBLED402

117 NLBLED405

Industrial lights

	Highbay						Canopy	Waterproof batten			
	KELSO PAGE 106	OREGON PAGE 107	NHBLED304 PAGE 108	NHBLED304E PAGE 109	NHBLED303 PAGE 110	NHBLED305 PAGE 112	NCNLED102 PAGE 113	NLED49* PAGE 114	NLBLED401 PAGE 115	NLBLED402 PAGE 116	NLBLED405 PAGE 117
WATTAGE	LUMEN OUTPUTS										
16										1,536	
18								1,890	1,584		
21											1,800
32										3,072	
36								3,600	3,168		
40							3,660				3,600
50			5,360	4,950						4,800	
54								5,020			
55											4,800
60						8,100	5,420				
80							7,390				
100		12,000	10,900	9,940	13,500	13,500					
150	16,600	18,000	16,500	15,370	20,250	20,250					
200		24,000		20,530	27,000	27,000					
240											
250						33,750					
300		36,000									
FEATURES											
Lumen per Watt	110	120	109	102	135	135	92	100	90	96	100
Colour Temp	3000K/4000K/6500K										
Mounting	Surface mounting Suspension mounting	Surface mounting Suspension mounting	Hook mounting Suspension mounting	Hook mounting Suspension mounting	Hook mounting Suspension mounting	Surface mounting Suspension mounting	Surface mounting Suspension mounting	Surface mounting Suspension mounting	Surface mounting Suspension mounting	Surface mounting Suspension mounting	Surface mounting Suspension mounting
IP Rating	IP20	IP20	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Input Voltage	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V	220-240V	110-240V	220-240V	220-240V
Material & Housing	Steel	Steel	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	PC	PC	PC	PC
Beam type	130°x80°	130°x90°	100°	105°	60°, 90°, 120°	60°, 90°, 120°	30°, 60°	100°	135°	145°	105°
Protection Class	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class II	Class II	Class I
Dimming	Y(optional)	Y(optional)	N	N	Y(optional)	Y(optional)	N	N	N	N	N
Sensor	Microwave/ PIR for option	Microwave/ PIR for option	N	N	Microwave/ PIR for option	Microwave/ PIR for option	Microwave/ PIR for option	Microwave/ PIR for option	N	N	N
Emergency	Y(optional)	Y(optional)	N	N	Y(optional)	Y(optional)	N	Y(optional)	N	N	N

KELSO

IP20 low-bay, fast to install, easy to maintain

110° 220-240V IP20 Digital DIMMING 50000h

APPLICATIONS

- Industry and warehouses
- Mounting heights 5+m

TECHNICAL DETAILS

- Osram SMD2835 LEDs
- Rated life: 50,000 hours

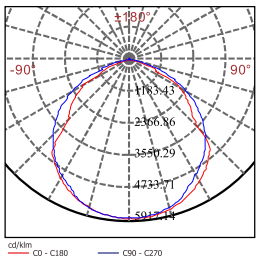
CONSTRUCTION

- Clear PC front cover
- LEDs on metal core PCB
- Internal LED driver
- Available with surface mounting or suspension mounting

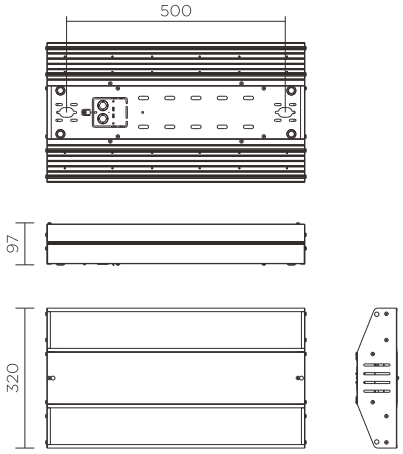
OPTIONS

- Optional digital dimming
- Optional emergency maintained three hours

NKE 150W



Model	Watts	Colour temp.	Lumens	CRI	PF
NKE150W/LED/840	150W	4000K	16,600 lm	>80	>0.9



OREGON

A highly efficient LED fitting with a wide range of sensor options

100°x90° 220-240V IP20 Digital DIMMING 50000h

APPLICATIONS

- Industry and warehouses
- Mounting heights 5+m

TECHNICAL DETAILS

- Leading brand SMD LEDs
- Leading brand driver included
- Rated life: 50,000 hours

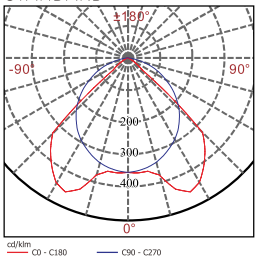
CONSTRUCTION

- Steel body, white textured paint finish
- Suitable for installation on chain, lighting trunking and BESA fixings

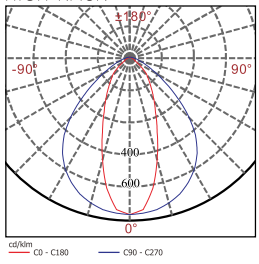
OPTIONS

- **Emergency:** Emergency maintained three hours versions are available, add suffix M3 if required
- **Dimming:** The standard product is non-dimmable, but for digital dimming, add suffix DD
- **Four versions:**
  12,000 lm nom., 11,780 lm act., 100W
  18,000 lm nom., 17,670 lm act., 150W
  24,000 lm nom., 23,560 lm act., 200W
  36,000 lm nom., 35,340 lm act., 300W
- **Sensors:**
  PIR occupancy sensing only, add suffix PIR
  PIR occupancy sensing and dimming, add suffix PIRD
- **High-rack reflector:** Add suffix HR

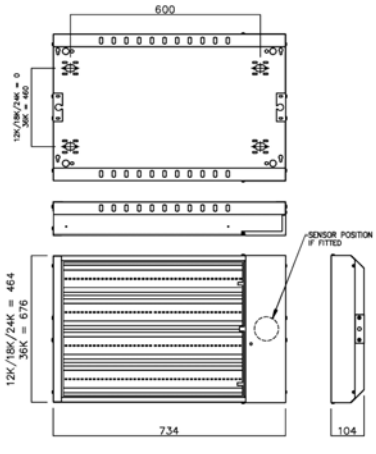
STANDARD



HIGH-RACK



Model	Watts	Colour temp.	Lumens	CRI	PF
NOR100W/LED/840	100W	4000K	12,000 lm	>80	>0.9
NOR150W/LED/840	150W	4000K	18,000 lm	>80	>0.9
NOR200W/LED/840	200W	4000K	24,000 lm	>80	>0.9
NOR300W/LED/840	300W	4000K	36,000 lm	>80	>0.9



NHBLED304

SMD IP65 highbay with reflector

100° 220-240V IP65 30000h

APPLICATIONS

- Industrial production areas
- Warehouses
- Exhibition halls

OPTIONS

- Check availability before ordering
- **Installation:** Choice of the hook mounted or pole mounted

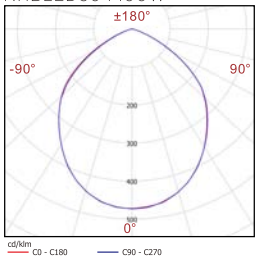
CONSTRUCTION

- Die-casting aluminium heat sink
- Aluminium 6063 reflector
- Powder coated surface treatment
- LED driver included
- 110° beam angle available

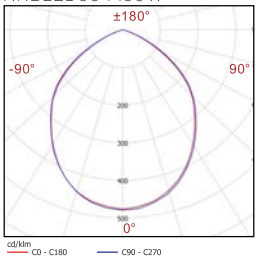
TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

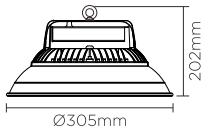
NHBLED304 100W



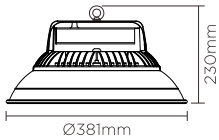
NHBLED304 150W



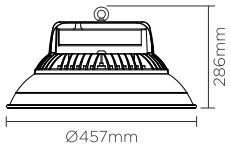
Model	Watts	Colour temp.	Lumens	CRI
NHBLED304 50W	50W	4000K/6000K	5,360 lm	>70
NHBLED304 100W	100W	4000K/6000K	10,900 lm	>70
NHBLED304 150W	150W	4000K/6000K	16,500 lm	>70



50W



100W



150W

NHBLED304E

Cost-effective DOB highbay

50W

150W

100W

200W

105° 220-240V 30000h

APPLICATIONS

- Industrial production areas
- Warehouses
- Exhibition halls

CONSTRUCTION

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

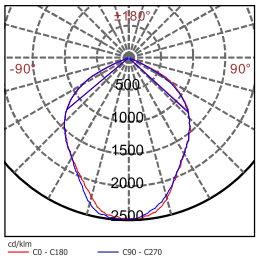
TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

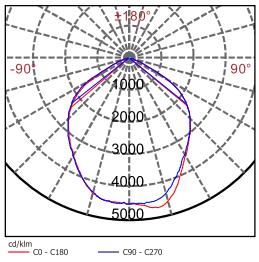
OPTIONS

- Check availability before ordering

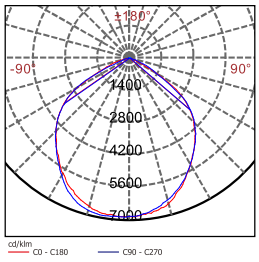
NHBLED304E 50W



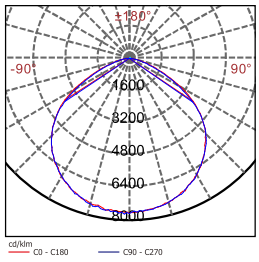
NHBLED304E 100W



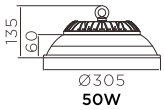
NHBLED304E 150W



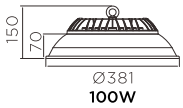
NHBLED304E 200W



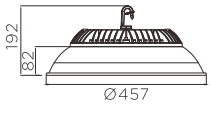
Model	Watts	Colour temp.	Lumens	CRI
NHBLED304E 50W	50W	3000K/4000K/6000K	4,950 lm	>70
NHBLED304E 100W	100W	3000K/4000K/6000K	9,940 lm	>70
NHBLED304E 150W	150W	3000K/4000K/6000K	15,370 lm	>70
NHBLED304E 200W	200W	3000K/4000K/6000K	20,530 lm	>70



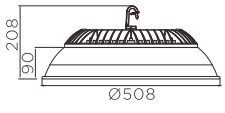
50W



100W



150W



200W

NHBLED303

Slim IP65 LED highbay fittings

60° 90° 120° 220-240V IP65 0-10V DIMMING 50000h

APPLICATIONS

- Warehouses
- Exhibition halls
- Sports facilities
- Industrial production areas

TECHNICAL DETAILS

- LUMILEDS SMD3030 LEDs
- Rated life: 50,000 hours

CONSTRUCTION

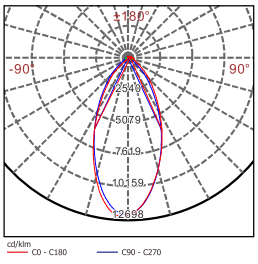
- Forged aluminium housing, pre-treated for corrosion resistance
- PC wire lens
- LEDs on metal core PCB
- Internal IP67 driver
- Complete with a IP65 cable gland, and pre-wired 3x1.0mm^2 H05RN

OPTIONS

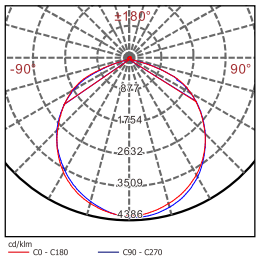
- DALI intelligent control version for option
- MW sensor for option
- Mounted bracket for option
- **Dimming:** Fixed output as standard, dimming option are available for 0-10V dimming
- **Version:** Choice of the standard version or microwave or PIR version

Microwave sensor

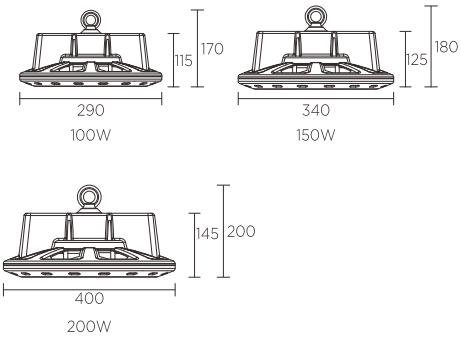
NHBLED303 100W 60°



NHBLED303 100W 120°

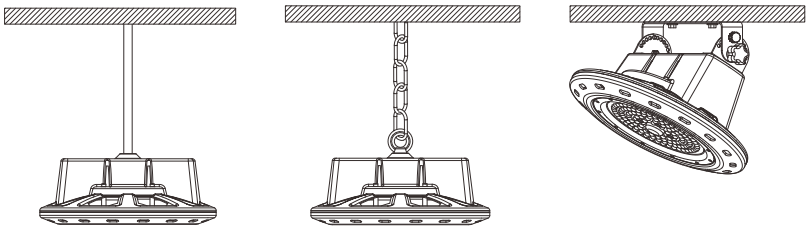


Model	Watts	Colour temp.	Lumens	CRI	PF	Bean angle
NHBLED303 100W	100W	3000K/4000K/6500K	13,500 lm	>70	>0.9	60°/90°/120°
NHBLED303 150W	150W	3000K/4000K/6500K	20,250 lm	>70	>0.9	60°/90°/120°
NHBLED303 200W	200W	3000K/4000K/6500K	27,000 lm	>70	>0.9	60°/90°/120°



Structure and details

Wide range of application
NHBLED303 has three types of installation methods (pole, chain and bracket), which are suitable for more applications.



Smaller & lighter & better
Forged pure aluminium housing will make the product has advantage of smaller and lighter housing achieved with forged pure aluminium that has resulted in better heat dissipation.

Glare proof and higher transmittance
The optical lens is made of PC material which has a higher transmittance rate of the light that can protect from glare as well.

Breather
Pressure differences and fog will be generated because of temperature differences between the interior and exterior of the fixture. When the fixture is in operation, the breather will help to avoid these two situations, promoting reliability of the luminiair.

NHBLED305

60° 90° 110° 220-240V Digital DIMMING 30000h

APPLICATIONS

- Warehouses
- Exhibition halls
- Sports facilities
- Industrial production areas

OPTIONS

- Optional DD dimming
- Optional MW sensor

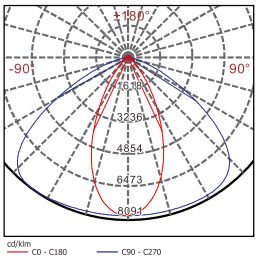
CONSTRUCTION

- Aluminium housing, pre-treated for corrosion resistance
- PC lens
- LEDs on metal core PCB
- Internal IP67 driver

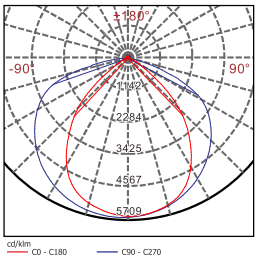
TECHNICAL DETAILS

- LUMILEDS SMD3030 LEDs
- Rated life: 30,000 hours

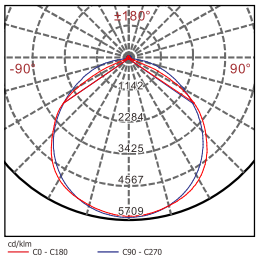
NHBLED305 100W 60°



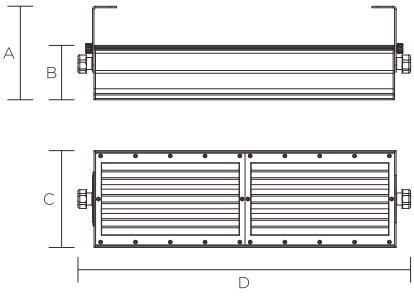
NHBLED305 100W 90°



NHBLED305 100W 120°



Model	Colour temp.	Lumens	CRI	PF	Bean angle
NHBLED305 60W	3000K/4000K/6500K	8100 lm	>70	>0.9	60°/90°/120°
NHBLED305 100W	3000K/4000K/6500K	13,500 lm	>70	>0.9	60°/90°/120°
NHBLED305 150W	3000K/4000K/6500K	20,250 lm	>70	>0.9	60°/90°/120°
NHBLED305 200W	3000K/4000K/6500K	27,000 lm	>70	>0.9	60°/90°/120°
NHBLED305 250W	3000K/4000K/6500K	33,750 lm	>70	>0.9	60°/90°/120°



Watts	A	B	C	D
60W	160	90	160	305
100W	160	90	160	554
150W	160	90	160	801
200W	160	90	160	1048
250W	160	90	160	1295

NCNLED102

30° 60° 220-240V IP65 30000h

APPLICATIONS

- Industrial production areas
- Warehouses
- Exhibition halls

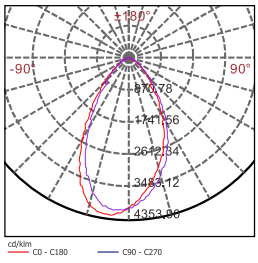
CONSTRUCTION

- Aluminium heat sink
- PC lens
- LED driver included

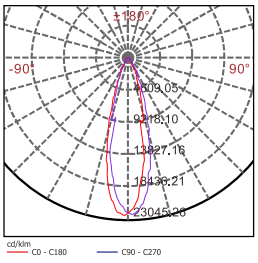
TECHNICAL DETAILS

- High power LEDs
- Rated life: 30,000 hours

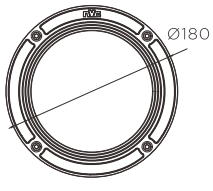
NCNLED102 60W 60°

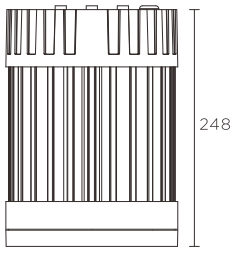


NCNLED102 80W 30°



Model	Watts	Colour temp.	Lumens	CRI	Beam angle
NCNLED102 40W	40W	3000K/4000K/5700K	3,660 lm	>80	30°/60°
NCNLED102 60W	60W	3000K/4000K/5700K	5,420 lm	>80	30°/60°
NCNLED102 80W	80W	3000K/4000K/5700K	7,390 lm	>80	30°/60°





NLED 49 series

APPLICATIONS

- Parking garages
- Industrial premises
- Storage facilities

CONSTRUCTION

- Constant current LED driver
- PC housing and opal PC diffuser

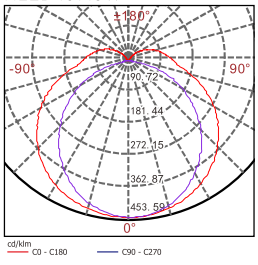
TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

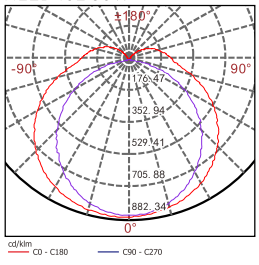
OPTIONS

- **Version:** Choice of the standard version, microwave or PIR version
- **Emergency:** Choice of non-emergency, 1.5 hours emergency or 3 hours emergency version

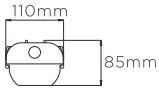
NLED491 18W

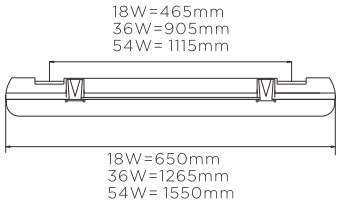


NLED492 36W



Model	Watts	Colour temp.	Lumens	CRI
NLED491 18W	18W	3000K/4000K/6000K	2,000 lm	>80
NLED492 36W	36W	3000K/4000K/6000K	3,800 lm	>80
NLED493 54W	54W	3000K/4000K/6000K	5,200 lm	>80





NLBLED401

Economical and light-weight IP65 fitting

APPLICATIONS

- General
- Factories
- Car parks
- Storerooms

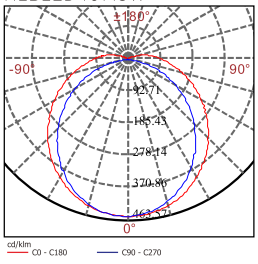
CONSTRUCTION

- Constant current LED driver
- PC housing and opal PC diffuser
- Light-weight
- 3M double tape or sliding clips mounting
- Complete with cable gland IP65

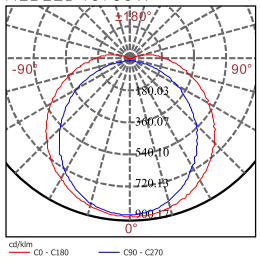
TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

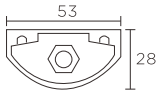
NLBLED401 18W

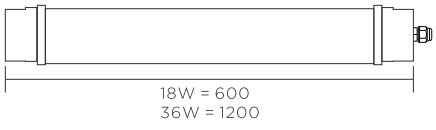


NLBLED401 36W



Model	Watts	Colour temp.	Lumens	CRI
NLBLED401 18W	18W	3000K/4000K/6500K	1,584 lm	>80
NLBLED401 36W	36W	3000K/4000K/6500K	3,168 lm	>80





NLBLED402

Slim and integrated IP65 fitting

145° 220-240V IP65 30000h

APPLICATIONS

- General
- Factories
- Car parks
- Storerooms

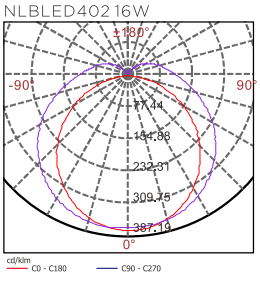
CONSTRUCTION

- Constant current LED driver
- PC housing and opal PC diffuser
- Sliding clips mounting
- Complete with cable gland IP65

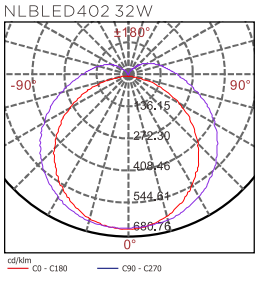
TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

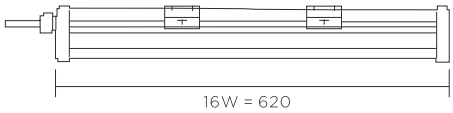
NLBLED402 16W



NLBLED402 32W



Model	Watts	Colour temp.	Lumens	CRI
NLBLED402 16W	16W	3000K/4000K/5700K	1536 lm	>80
NLBLED402 32W	32W	3000K/4000K/5700K	3,072 lm	>80
NLBLED402 50W	50W	3000K/4000K/5700K	4,800 lm	>80



16W = 620
32W = 1220
50W = 1520

NLBLED405

Internally mounted sealed clips IP65 waterproof batten

105° 220-240V IP65 30000h

APPLICATIONS

- General
- Factories
- Car parks
- Storerooms

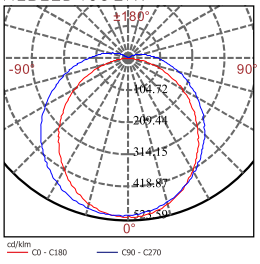
CONSTRUCTION

- PC housing and opal PC diffuser
- LED Driver included
- Internally mounted sealed clips
- Sliding clips mounting
- Complete with cable gland IP65

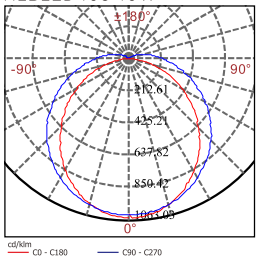
TECHNICAL DETAILS

- SMD LEDs
- Rated life: 30,000 hours

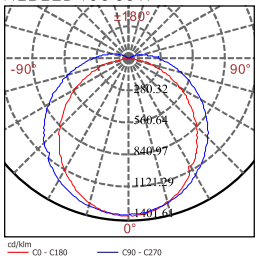
NLBLED405 21W



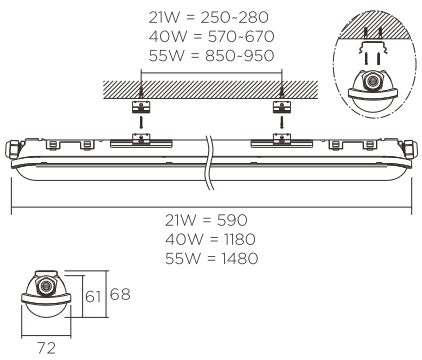
NLBLED405 40W



NLBLED405 55W



Model	Watts	Colour temp.	Lumens	CRI
NLBLED405 21W	21W	3000K/4000K/6500K	1,800 lm	>70
NLBLED405 40W	40W	3000K/4000K/6500K	3,600 lm	>70
NLBLED405 55W	55W	3000K/4000K/6500K	4,800 lm	>70



STREET LIGHTS

119 NRLED722

119 NRLED723

119 NRLED724

119 NRLED725

120 BELFRY

NRLED722 NRLED723 NRLED724 NRLED725

NRLED722

NRLED723

NRLED724

NRLED725

110-240V CE IP66 30000h

APPLICATIONS

- Roads
- Car parks
- Residential areas

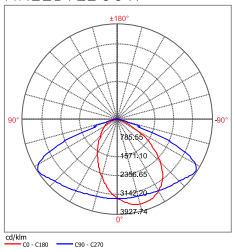
TECHNICAL DETAILS

- LUMILEDS LEDs
- Rated life: 30,000 hours

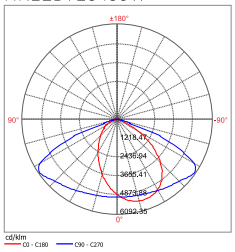
CONSTRUCTION

- Die-cast aluminium housing
- Modular design
- PC lens
- 10KA SPD
- LED driver included
- Weight and Windage:
  - 90W, 8.5kg, 0.17m^2
  - 135W, 9.2kg, 0.20m^2
  - 180W, 10kg, 0.23m^2
  - 225W, 11kg, 0.26m^2

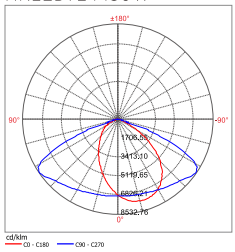
NRLED722 90W



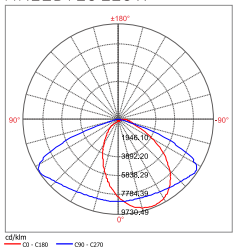
NRLED723 135W



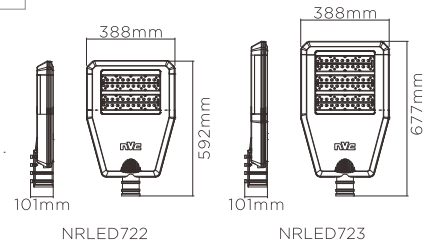
NRLED724 180W



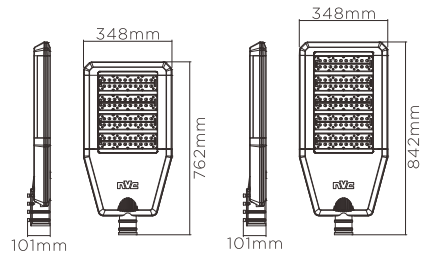
NRLED725 225W



Model	Watts	Colour temp.	Lumens	CRI
NRLED722 90W	90W	3000K/4000K	9860 lm	>70
NRLED723 135W	135W	3000K/4000K	15260 lm	>70
NRLED724 180W	180W	3000K/4000K	20880 lm	>70
NRLED725 225W	225W	3000K/4000K	25480 lm	>70



NRLED722 NRLED723



NRLED724 NRLED725

BELFRY

Versatile, programmable LED street lights

120-277V | CE | IP66 | Digital DIMMING | 50000h

APPLICATIONS

- Roads
- Car parks
- Residential areas

APPLICATION CONDITION

- Temperature: -20°C to 45° C
- Humidity: up to 95 %

TECHNICAL DETAILS

- CREE XP-G3 LEDs
- Rated life: 30,000 hours

CONSTRUCTION

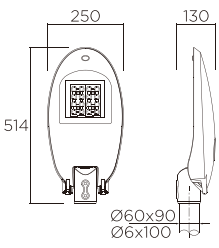
- Low copper die-cast aluminium housing and heatsink
- Tempered glass front cover
- 30KV/15KA SPD
- Philips DALI driver
- ANSI C136.41 7 pin receptacle
- Coastal finish
- Tool-free access
- Weight:
  - •35W, 4.3kg
  - •45W, 7.2kg
  - •125W, 11.8kg
  - •155W, 11.9kg
  - •170W, 12kg
  - •180W and 260W, 14.3kg

OPTIONS

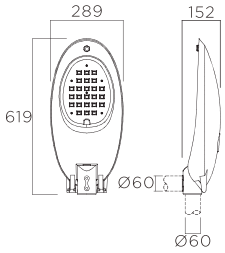
- **CCT:** Choice of 3000K, 4000K or 5000K
- **Dimming:** Fixed output as standard, dimming option are available for digital dimming
- **Version:** Choice of the standard version or NEMA socket version

Photo-cell

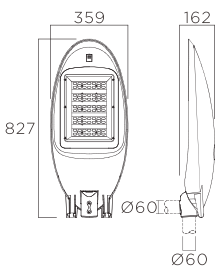
Model	Watts	Colour temp.	Lumens	CRI
NBF35UC140BSGA7CDLP	35W	4000K	4,000 lm	>70
NBF45UC140ESGA7CDLP	45W	4000K	5,750 lm	>70
NBF70UC140ESGA7CDLP	70W	4000K	9,256 lm	>70
NBF88UC140ESGA7CDLP	88W	4000K	10,560 lm	>70
NBF95UC140ESGA7CDLP	95W	4000K	12,290 lm	>70
NBF125UC140CSGA7CDLP	125W	4000K	14,500 lm	>70
NBF155UC140CSGA7CDLP	155W	4000K	18,500 lm	>70
NBF170UC140ESGA7CDLP	170W	4000K	23,000 lm	>70
NBF180UC140GSGA7CDLP	180W	4000K	25,000 lm	>70
NBF260UC140ESGA7CDLP	260W	4000K	33,000 lm	>70



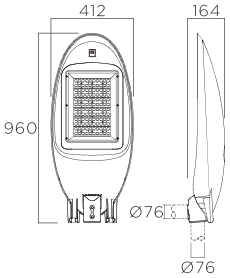
35W
(increased 0.1m² windage area)



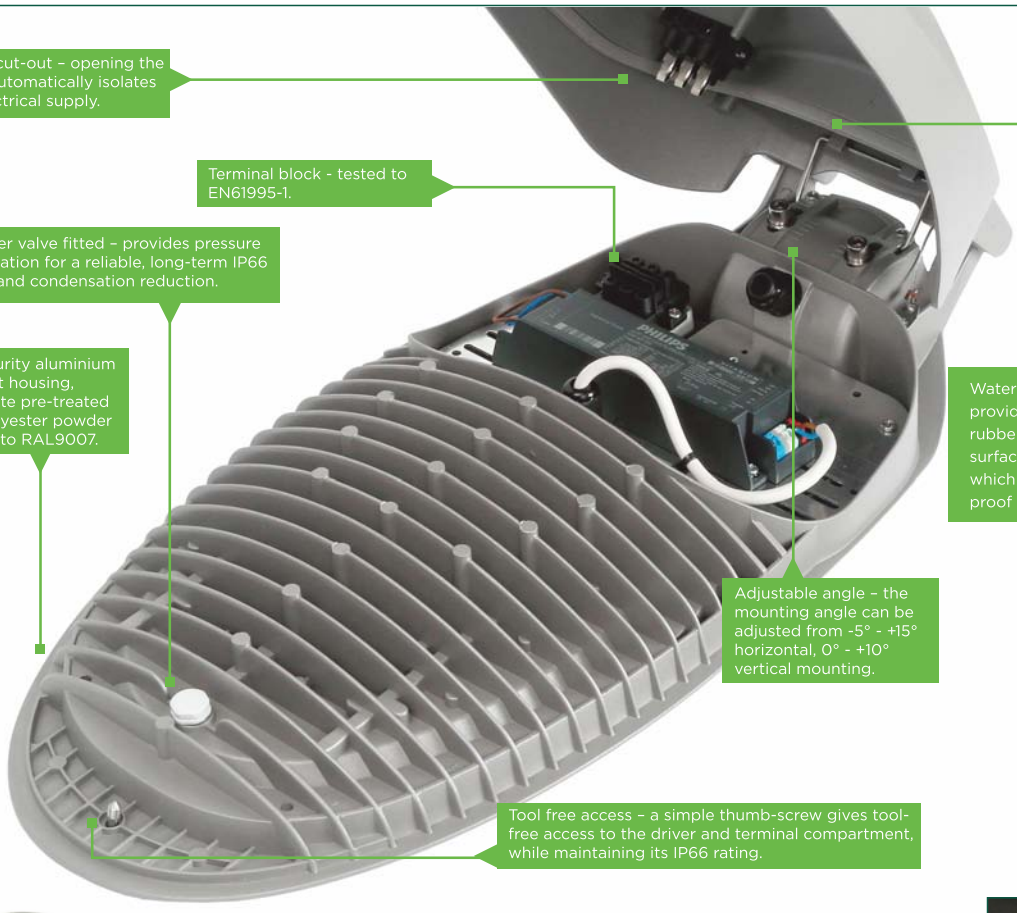
45W
(increased 0.14m² windage area)



70W/88W/95W/
125W/155W/170W
(increased 0.24m² windage area)



180W/260W
(increased 0.31m² windage area)



Safety cut-out – opening the cover automatically isolates the electrical supply.

Terminal block - tested to EN61995-1.

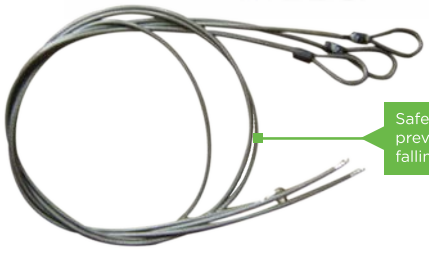
Breather valve fitted – provides pressure equalisation for a reliable, long-term IP66 rating and condensation reduction.

High-purity aluminium die-cast housing, chromate pre-treated and polyester powder coated to RAL9007.

Water proof design-which provides a good water proof rubber ring in the inner surface of the back cover, which bring a good water proof function for the fixture.

Adjustable angle – the mounting angle can be adjusted from -5° - +15° horizontal, 0° - +10° vertical mounting.

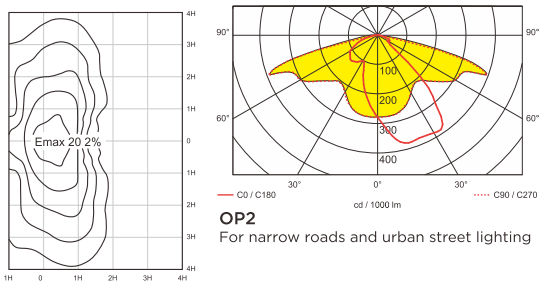
Tool free access – a simple thumb-screw gives tool-free access to the driver and terminal compartment, while maintaining its IP66 rating.



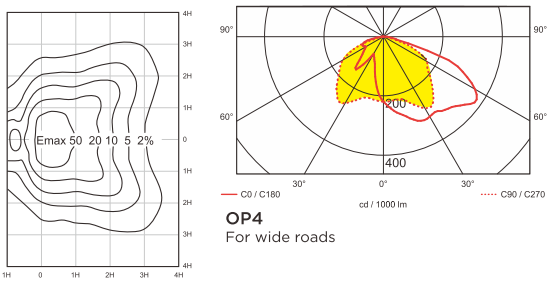
Safety sling (optional) - can prevent the accident of falling.

External 15KA/30KV surget protector as second level security for whole system.

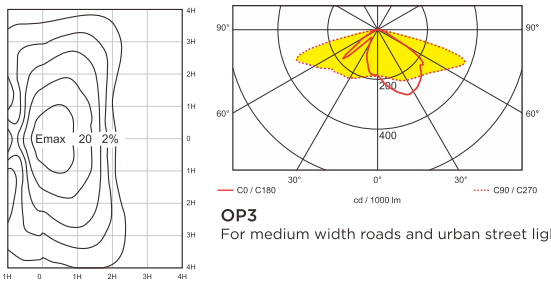
Seri connected with led driver to prevent further damage aftter failure.



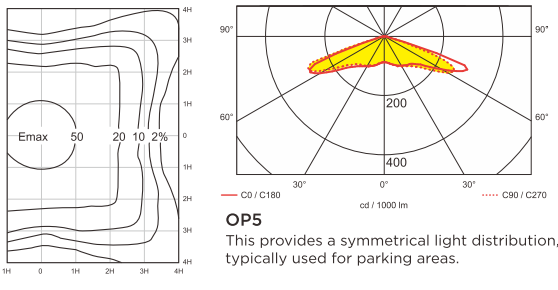
OP2
For narrow roads and urban street lighting



OP4
For wide roads



OP3
For medium width roads and urban street lighting



OP5
This provides a symmetrical light distribution, so is typically used for parking areas.

TUNNEL LIGHTS

123 NTLED722

123 NTLED723

123 NTLED724

NTLED722 NTLED723 NTLED724

NTLED722

NTLED723

NTLED724

110-240V CE IP66 30000h

APPLICATIONS

- Tunnels

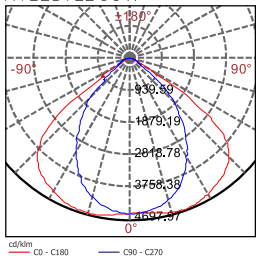
CONSTRUCTION

- Die-cast aluminium housing
- PC lens
- Modular design
- 10KA SPD protection
- LED driver included

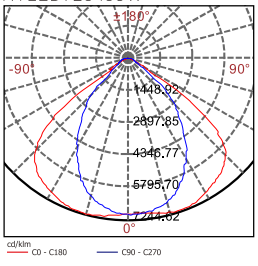
TECHNICAL DETAILS

- LUMILEDS LEDs
- Rated life: 30,000 hours

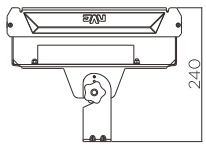
NTLED722 90W

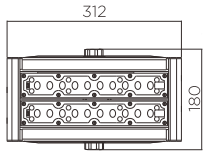


NTLED723 135W

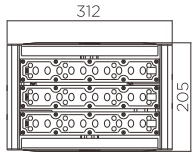


Model	Module QTY	Watts	Colour temp.	Lumens	CRI	Beam angle
NTLED722	2PCS	90W	4000K	9690 lm	>70	80°x110°
NTLED723	3PCS	135W	4000K	14860 lm	>70	80°x110°
NTLED724	4PCS	180W	4000K	20850 lm	>70	80°x110°

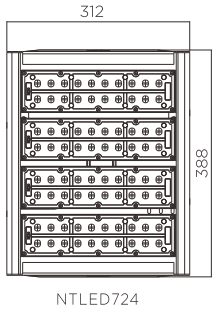




NTLED722



NTLED723



NTLED724

DRIVERS & ACCESSORIES

125 NLED-DV110*

NLED-DV110* IP65

IP65 LED driver

NLED-DV1106

NLED-DV1102

NLED-DV1101

110-240V

APPLICATIONS

- For low voltage outdoor LED fittings

TECHNICAL DETAILS

- Input voltage: 110-240V
- Output voltage: 24V DC

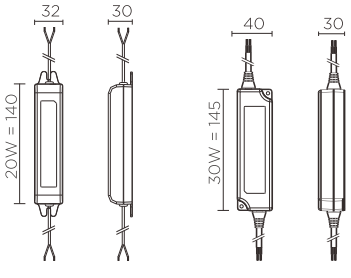
CONSTRUCTION

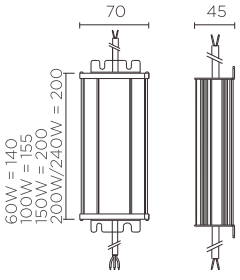
- Flame resistant PC housing (20W, 30W)
- Aluminium housing (60W, 100W, 150W, 200W, 240W)
- Rubber insulated cable
- Silicone filled

OPTIONS

- Choices of six sizes:
  - 140mmx32mmx30mm(20W)
  - 145mmx40mmx30mm(30W)
  - 140mmx70mmx45mm(60W)
  - 155mmx70mmx45mm(100W)
  - 200mmx70mmx45mm(150W, 200W)
  - 220mmx70mmx45mm(240W)

Model	Output voltage	watts	PF
NLED-DV1101	24V	20W	0. 5
NLED-DV1102	24V	30W	0. 5
NLED-DV1103	24V	60W	0. 95
NLED-DV1104	24V	100W	0. 95
NLED-DV1105	24V	150W	0. 95
NLED-DV1106	24V	200W	0. 95
NLED-DV1106	24V	240W	0. 95





Global Quality Approvals & Symbol Keys

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

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

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

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

Mains voltage 12V AC/DC

Mains voltage 100-240V AC

Mains voltage 220V AC

Mains voltage220-240V AC

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

Rated life of a product, "h" is short for hour.
-Fittings must be installed in accordance with instructions and specifically not in an ambient temperature that ever exceeds 25.
-Consumable items, such as fuses, batteries and lamp are excluded.
-Lumen depreciation to 70% of initial lumens (L70) can occur within the stated lifetime and will not constitute a valid after service claim.

It can not be dimmed.

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

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

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

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

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

Glossary of the Most Important Lighting Terms

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

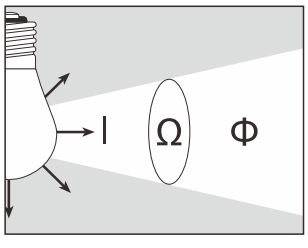
The most important of these are described here.

Light and radiation

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

Luminous flux Ø

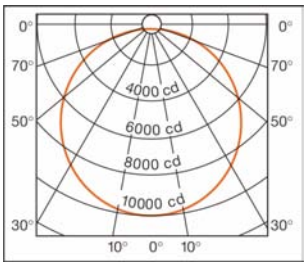
Unit of measurement: lumen [lm].Luminous flux F is all the radiated power emitted by a light source evaluated with the spectral sensitivity of the eye and the photometric radiation equivalent km.



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

Luminous intensity I

Unit of measurement: candela [cd].Generally speaking, a light source emits its luminous flux Ø in different directions and at different intensities.
Luminous intensity is the luminous flux radiated in a particular direction (solid angle Ω).

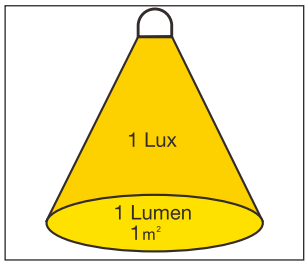


Polar diagram

Illuminanc E

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

An illuminance of 1 lx occurs when a luminous flux of 1 lm is evenly distributed over an area of 1 m^2.



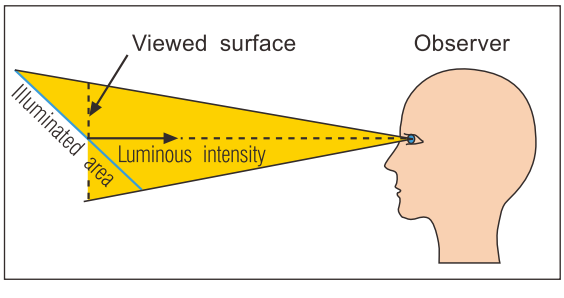
Illuminance E

Luminance L

Unit of measurement: candela per square meter [cd/m^2].

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

Luminance L



The most important photometric formulae:

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

IP Rating

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

IP ratings explained

"IP" ("Ingress Protection") Rating

First digit
Protection against ingress of foreign bodies e.g. tools, dust, fingers, etc.
Second digit
Protection against ingress of liquids

	Foreign Bodies First digit		Liquids Second digit
IP0X	No-protection	IPX0	No-protection
IP1X	Protected against solid objects greater than 50mm (e.g.accidental touch by hands)	IPX1	Protected against vertically falling drops of water (e.g.condensation)
IP2X	Protected against solid objects up to 12mm (e.g.fingers)	IPX2	Protected against direct sprays of water up to 15 degrees from vertical
IP3X	Protected against solid objects greater than 2.5mm (e.g. tools and wires)	IPX3	Protected against direct sprays of water up to 60 degrees from vertical
IP4X	Protected against solid objects greater than 1mm (e.g. small tools and wires)	IPX4	Protected against water sprays from all directions-limited ingress permitted
IP5X	Protected against dust,limited ingress (e.g.no harmful deposit)	IPX5	Protected against low pressure jets of water from all directions-limited ingress permitted
IP6X	Totally protected against dust	IPX6	Protected against high pressure jets of water (use on ship deck)-limited ingress permitted
		IPX7	Protected against the effects of immersion between 15cm and 1m
		IPX8	Protected against long periods of immersion under pressure

Laying cable

Laying electrical cables in the ground may be subject to specific regulations. The aim is to ensure that the cables are buried deeply enough in the ground to avoid any disturbances. Where armoured cables can be buried at adequate depth to avoid being damaged by any reasonable foreseeable disturbance of the ground, they can be laid in a buffer layer of sand and covered with cable warming tape. Where it is not possible to bury the cables deeply enough because of the presence of tree roots or unsuitable ground conditions, extra mechanical protection around the cables will be required. This is usually in the form of plastic ducts or conduits through which the cables are run.

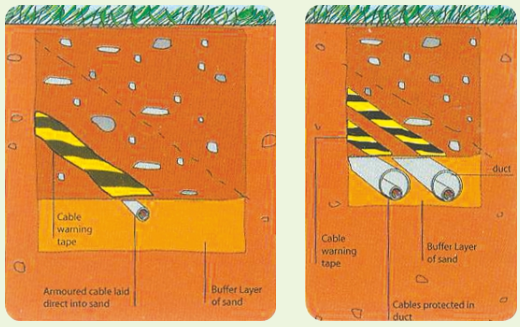
Positioning and accessibility

Future accessibility must be taken into consideration when selecting and installing your outside luminaire. Access to the luminaire for lamp replacement or maintenance must be available throughout its life. You must ensure that it is safe and easy to get to the luminaire by either making it easy to remove from its location or locating it in an easily accessible position.

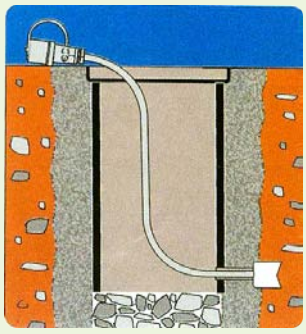
Key points to help access to the luminaire:

- Make the power cable connection to the product an IP rated plug and socket so that the luminaire can be easily removed for maintenance and then quickly re-installed.
- Always leave sufficient extra cable within the base of recessed ground products for un-restricted access.

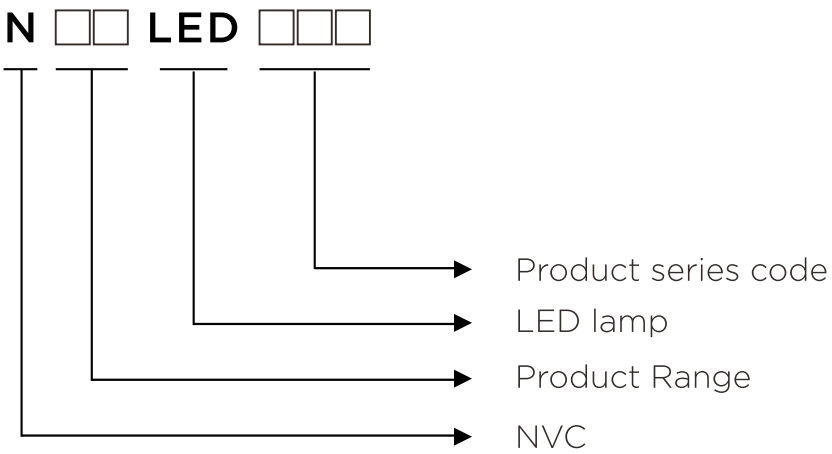
Cable protection



Recessed ground installation



General Numbering:



Naming Rule: / Product Range:	NVC	Abbreviation	LED	Series Code	Example
Flood Lights	N	FD (Flood Light)	LED	*	NFDLED5001
In-ground Lights	N	IG (In-ground Light)	LED	*	NIGLED4233
Underwater Lights	N	UW (Underwater Light)	LED	*	NUWLED4322
Bollard Lights	N	BL (Bollard Light)	LED	*	NBLLED5613
Post Top Lights	N	PT (Post Top Light)	LED	*	NPTLED037
Wall Lights (Mounted)	N	WM (Wall Light-Mounted)	LED	*	NWMLED0501
Canopy Lights	N	CN (Canopy Light)	LED	*	NCNLED5772
Wall Washer Lights	N	WW (Wall Washer Light)	LED	*	NWWLED303
Linear Lights	N	LN (Linear Light)	LED	*	NLNLED476
Pixel Lights	N	PX (Pixel Light)	LED	*	NPXLED305
Highbay Lights	N	HB (Highbay Light)	LED	*	NHBLED302
Lowbay Lights/IP65 Battens	N	LB (Lowbay Light)	LED	*	NLBLED304
Gas Station Lights	N	GS (Gas Station Light)	LED	*	NGSLED110
Roadway Lights	N	RW (Roadway Light)	LED	*	NRWLED701A
Tunnel Lights	N	TN (Tunnel Light)	LED	*	NTNLED703
Drivers	N	DR (Drivers)	LED	*	NDRLED1101

* can be numbers or letters

Our sales & support network

Regional offices

1. Brazil
2. Middle East
3. Singapore
4. UK

Local offices

1. Kuwait
2. Oman
3. Qatar
4. Saudi Arabia
5. U.A.E
6. Indonesia

Distributors

1. Australia
2. Denmark
3. Finland
4. Sweden
5. Pakistan
6. Sri Lanka
7. Italy
8. Hungary
9. Cambodia
10. Vietnam

Contact details

Regional offices

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Web:www.nvc-lighting.com.br

Singapore

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(Responsible for Southeast Asia, East Europe, South America, Africa, CIS, etc.)
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Attn: MenSun SIM
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Tel: +965 67687278; +965 65051573
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ST Engineering Solutions
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Sri Lanka

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ISSUE 5

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nVC Lighting

www.nvc-lighting.com

NVC Wechat