



# EXTERIOR LIGHTING CATALOGUE

The World Just Got Brighter

EXTERIOR LIGHTING CATALOGUE

ISSUE 6

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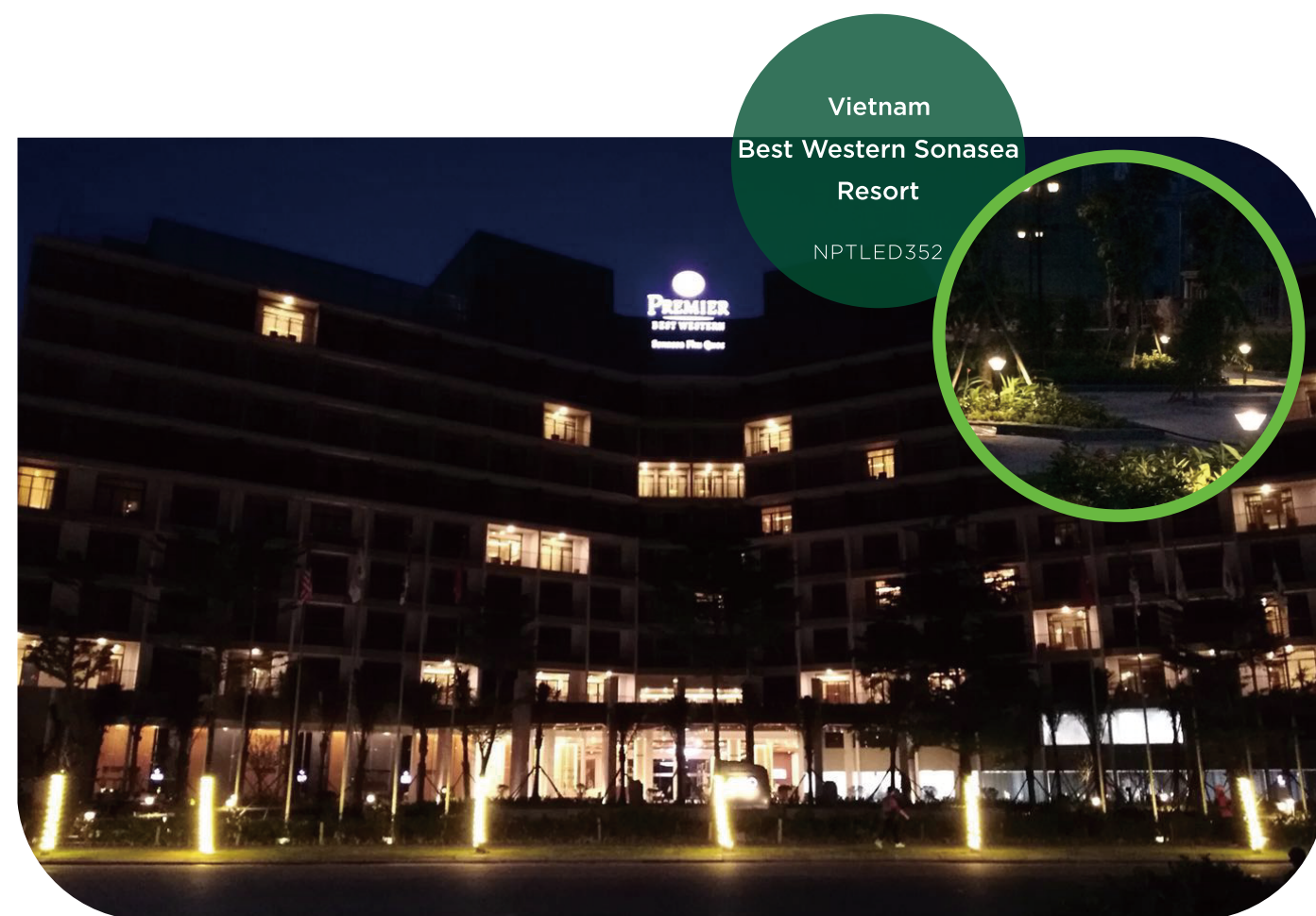
NVC Wechat

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# ISSUE 6











NVC Projects in Indonesia  
MYKO BALLROOM

ABOUT US

NVC Lighting is a global market leader with recognized expertise in manufacturing & application of innovative (LED) lighting solutions. Wherever we operate we focus on our strengths to provide our clients around the world with the best lighting solutions. We offer exterior and interior lighting products for commercial, industrial and local markets.

LIGHTING PROJECTS

NVC Lighting has a wide range of lighting products that can help with all of your lighting projects. No matter what the demands, from refurbishment project to large-scale industrial space and everything in between, we have lighting products that will meet your requirements.

“THE WORLD  
JUST GOT  
BRIGHTER”

NVC LIGHTING  
CORPORATION

NVC Lighting, founded in 1998, listed on the main board of the Hong Kong Stock Exchange in 2010, is the largest lighting manufacturer in China, which has 5 main production centres, 4 R&D centres and 36 regional operating centres. Operating through a network of 2000 distributors and more than 3500 exclusive retail outlets in China. NVC Lighting has collaborated with many leading solution providers to deliver projects across the globe. To enhance our presence in the world and deliver our commitments, we have established regional offices in Singapore, Brazil, Japan, and the UK.



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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



## 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 a network of 2,000 distributors and more than 3,500 NVC-branded retail outlets.

Around the world we have regional offices, 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 (2019) of \$300 million USD. Our shareholders include Goldman Sachs (5%), Schneider (10%) and ETI (27%).

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

### Berkeley™ 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.

### ARCATEC 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.

### ETI 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



## 24 LED In-Ground Lights



## 32 LED Underwater Lights



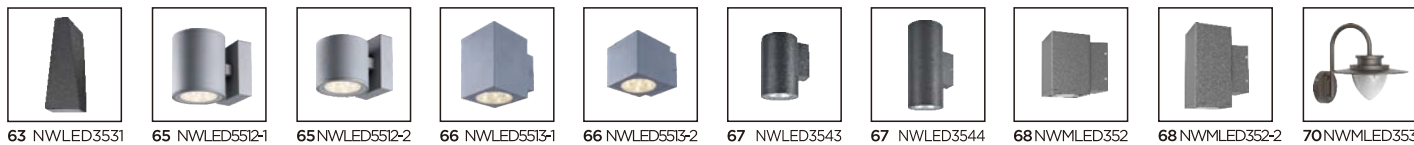
## 38 LED Bollards



## 54 LED Post Top Lights

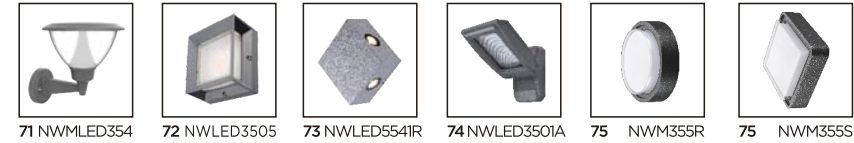


## 60 LED Surface Wall Lights



## LED Surface Wall Lights

## 60



## LED Recessed Wall Lights

## 76



## LED Canopy Lights

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# FLOOD LIGHTS



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17 NFDLED254



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19 NFLED5012



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22 NFLED4012  
NFLED4013



23 NFLED4014



## Flood lights

NVC Lighting	Wide beam			Narrow beam	Landscape			
	NFDLED251 PAGE 13	NFDLED251S PAGE 15	NFDLED253 PAGE 16	NFDLED254 PAGE 17	NFLED5001 PAGE 18	NFLED5012 PAGE 19	NFLED4011 PAGE 21	NFLED401* PAGE 22
POWER (watts)	OUTPUT (lumens)							
1-10					552	348	150	460
10-20	1,520	1,520						890/1,800
30				2,780				
40	3,360	3,360						
50			4,920	4,900				
60	5,200	5,200						
75								
80	9,100	9,100						
100	9,250	9,250	9,250	11,165				
150			13,560	14,690				
160	15,660							
200	20,330		18,650	19,700				
240								
FEATURES	NFDLED251	NFDLED251S	NFDLED253	NFDLED254	NFLED5001	NFLED5012	NFLED4011	NFLED401*
Lumen per watt	100	100	92	100	69	39	43	68/100
Colour temp.	3000K 4000K 6000K	3000K 4000K 6000K	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	Surface or spike	Surface or spike	Surface or spike	Surface or spike
IP rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
IK rating	IK07	IK07	IK07	IK07	IK07	IK07	IK08	IK08
Input voltage	220-240V	220-240V	110-240V	220-240V	110-240V	110-240V	110-240V DC24V	110-240V DC24V
Material & housing								
Beam type	Symmetric 100°	Symmetric 60°/90°	Symmetric 120°	Symmetric 115°	Symmetric 25°	Symmetric 24°	Symmetric 30°	Symmetric 15°/30°
Protection class	Class I	Class I	Class I	Class I	Class I	Class I	Class I Class III	Class I Class III
Dimming	N	N	N	N	N	N	N	N
Sensor	Optional PIR	Optional PIR	Optional PIR	N	N	N	N	N





# NFDLED251

COB LED flood lights



Optional PIR sensor



20W/40W



60W/80W



100W/160W



200W



APPLICATIONS

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

TECHNICAL DETAILS

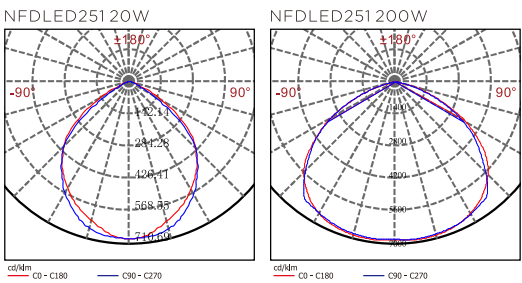
- COB LEDs

OPTIONS

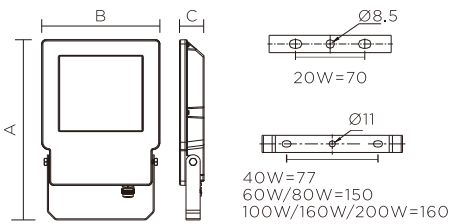
- **Sensor:** Optional PIR sensor

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<sup>2</sup> H05RN
- Weight and windage:
  - 20W, 0.83kg, 0.03m<sup>2</sup>
  - 40W, 1.92kg, 0.07m<sup>2</sup>
  - 60W and 80W, 2.67kg, 0.08m<sup>2</sup>
  - 100W, 3kg, 0.1m<sup>2</sup>
  - 160W, 5.12kg, 0.18m<sup>2</sup>
  - 200W, 7kg, 0.24m<sup>2</sup>



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



## NFDLED251S

SMD LED flood lights



10W



40W



60W



20W



100W



### APPLICATIONS

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

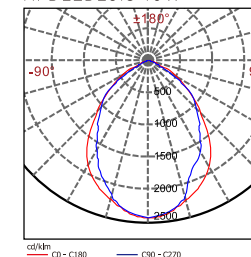
### TECHNICAL DETAILS

- SMD LEDs

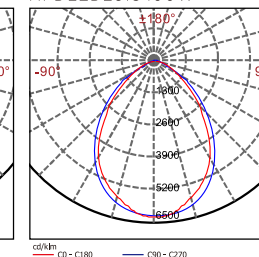
### CONSTRUCTION

- Die-cast aluminium housing
- Aluminium 6063 reflector
- Powder coated surface treatment
- Driver included
- Complete with a IP65 cable gland, and pre-wired 3x1.0mm<sup>2</sup> H05RN
  - 10W, 0.51kg, 0.02m<sup>2</sup>
  - 20W, 0.83kg, 0.03m<sup>2</sup>
  - 40W, 1.29kg, 0.04m<sup>2</sup>
  - 60W, 1.92kg, 0.07m<sup>2</sup>
  - 100W, 3kg, 0.1m<sup>2</sup>

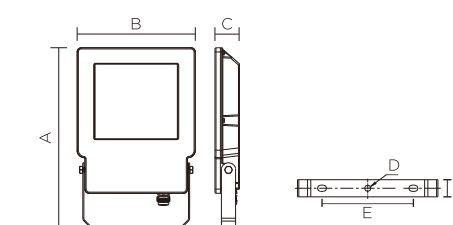
NFDLED251S 40W



NFDLED251S 100W



Model	Input	Watts	Colour temp.	Lumens	CRI
NFDLED251S 10W	220-240V	10W	3000K/4000K/6000K	1,100 lm	>70
NFDLED251S 20W	220-240V	20W	3000K/4000K/6000K	2,100 lm	>70
NFDLED251S 40W	220-240V	40W	3000K/4000K/6000K	4,050 lm	>70
NFDLED251S 60W	220-240V	60W	3000K/4000K/6000K	6,500 lm	>70
NFDLED251S 100W	220-240V	100W	3000K/4000K/6000K	10,000 lm	>70



Watts	A	B	C	D	E	F
10W	184	118	35	Ø8.2	60	18
20W	228	149	42	Ø8.5	70	20
40W	264	172	45	Ø11	88	22
60W	331	217	45	Ø11	110	26
100W	396	272	52	Ø11	160	30



# NFDLED253

COB LED flood lights



Optional PIR sensor



100W



200W



## APPLICATIONS

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

## TECHNICAL DETAILS

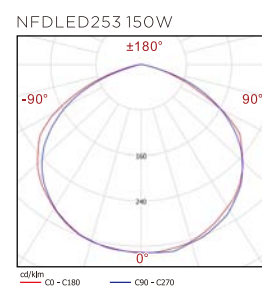
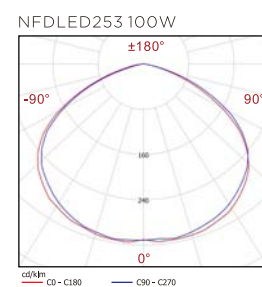
- COB LEDs

## OPTIONS

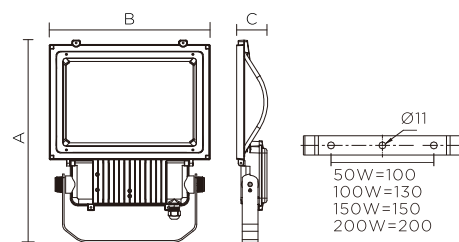
- **Sensor:** Optional PIR sensor

## 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<sup>2</sup> H05RN
- Weight and windage:
  - 50W, 1.56kg, 0.06m<sup>2</sup>
  - 100W, 3.45kg, 0.12m<sup>2</sup>
  - 150W, 4.9kg, 0.16m<sup>2</sup>
  - 200W, 7.47kg, 0.22m<sup>2</sup>



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



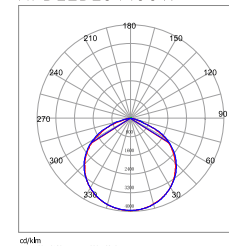
## APPLICATIONS

- Landscape
- Wall washer
- Gardens

## CONSTRUCTION

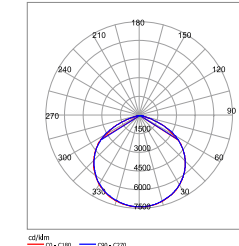
- Die-casting aluminium housing
- AC LED driver included
- Complete with a IP65 cable gland, and pre-wired 3x0.75mm<sup>2</sup> H05RN wire
- Weight and windage:
  - 30W, 0.86kg, 0.03m<sup>2</sup>
  - 50W, 1.12kg, 0.04m<sup>2</sup>
  - 100W, 2.79kg, 0.1m<sup>2</sup>
  - 150W, 3.5kg, 0.13m<sup>2</sup>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

NFDLED254 100W



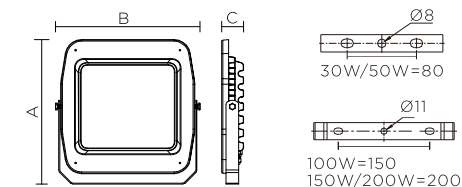
Ave. Max	Height(m)	Center E(k)	Diameter(m)
1112,399lx	1m		3,1075m
278,0,997.7lx	2m		6,2150m
123,5,443.4lx	3m		9,3225m
69,49,249.4lx	4m		12,4300m
44,47,159.4lx	5m		15,5375m
30,88,110.8lx	6m		18,6450m
22,89,81.44lx	7m		21,7525m
17,37,62.38lx	8m		24,8600m
13,73,49.27lx	9m		27,9675m
11,12,38.91lx	10m		31,0750m

NFDLED254 200W



Ave. Max	Height(m)	Center E(k)	Diameter(m)
1984,7062lx	1m		3,1740m
496,0,1766lx	2m		6,3481m
220,4,764.7lx	3m		9,5221m
124,0,441.4lx	4m		12,6961m
79,35,282.5lx	5m		15,8702m
55,11,196.2lx	6m		19,0442m
40,49,144.1lx	7m		22,2182m
31,00,110.4lx	8m		25,3923m
24,49,87.19lx	9m		28,5663m
19,84,70.62lx	10m		31,7403m

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





# NFLED5001

Landscape flood lights



APPLICATIONS

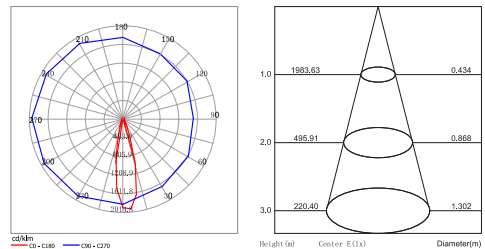
- Lawns and gardens
- Paths

CONSTRUCTION

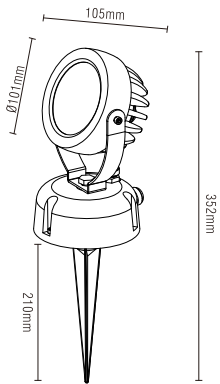
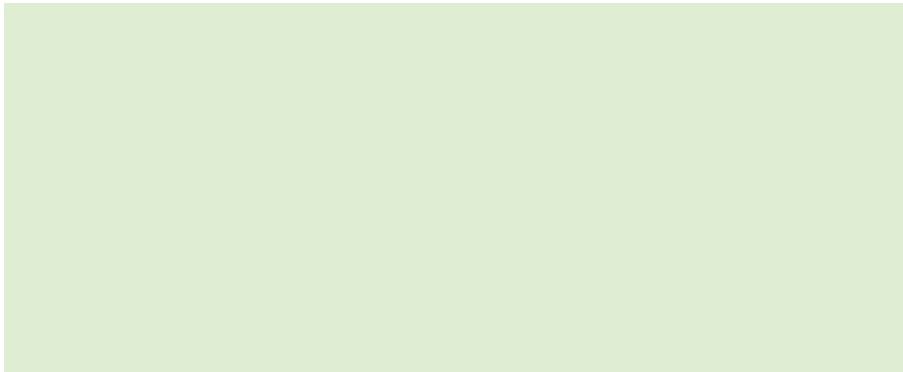
- Die-cast aluminium housing
- Powder coated surface treatment
- Tempered glass
- LED driver included
- Complete with twin IP65 cable glands, and pre-wired with 3x1.0mm<sup>2</sup> H05RN wire
- Supplied for spike mounting, supplied complete with spike
- Choice of three finishes:
  - Black (similar to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

TECHNICAL DETAILS

- CREE LEDs



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



# NFLED5012

Landscape flood lights



APPLICATIONS

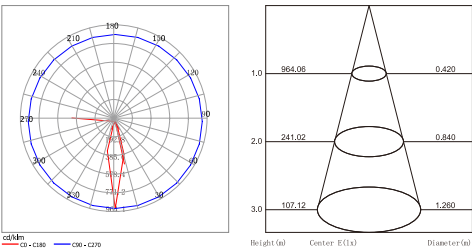
- Lawns and gardens
- Paths

CONSTRUCTION

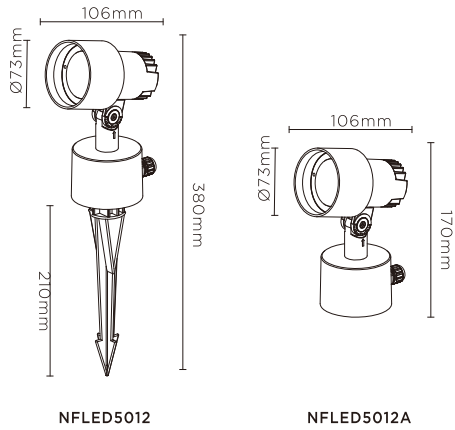
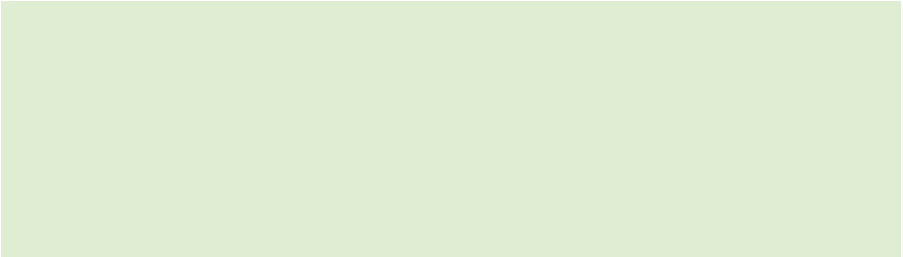
- Die-cast aluminium housing
- Powder coated surface treatment
- Tempered glass
- LED driver included
- Complete with twin IP65 cable glands, and pre-wired with 3x1.0mm<sup>2</sup> H05RN wire
- Supplied for spike mounting, supplied complete with spike
- Choice of three finishes:
  - Black (similar to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

TECHNICAL DETAILS

- CREE LEDs



Model	LED Chip	Watts	Colour temp.	Lumens	CRI
NFLED5012	1x7W COB	9W	3000K	316 lm	>80
NFLED5012	1x7W COB	9W	6000K	348 lm	>80
NFLED5012A	3x2W	6.5W	3000K	240 lm	>80
NFLED5012A	3x2W	6.5W	6000K	266 lm	>80







# NFLED4011

Landscape flood lights



NFLED4011-1



NFLED4011



APPLICATIONS

- Lawns and gardens
- Paths

TECHNICAL DETAILS

- Osram LEDs

CONSTRUCTION

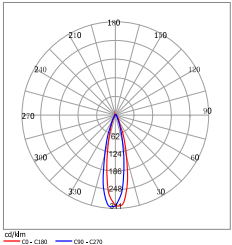
- Aluminium body with anodized finish
- Tempered glass 3mm thick
- LED driver included with 110-240V versions only
- Supplied complete mounting plate (for surface mounting) and spike (for ground mounting)

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



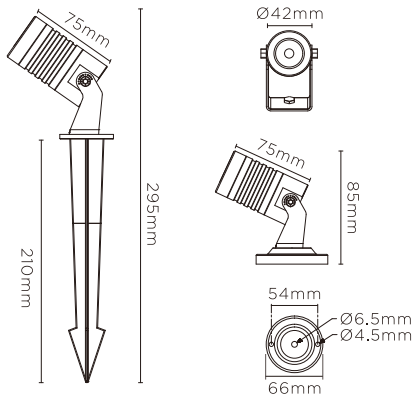
NLED-DV110\*



Illuminance at a Distance			
Center Beam LUX	Beam Width V	Beam Width H	
2m 76.88LUX	0.90m	0.90m	
4m 19.22LUX	1.80m	1.80m	
6m 8.54LUX	2.70m	2.70m	
8m 4.81LUX	3.60m	3.60m	
10m 3.08LUX	4.50m	4.50m	
12m 2.14LUX	5.40m	5.40m	
Vert. Spread 25.4		Horiz. Spread 25.4	

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



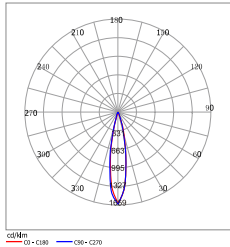
NFLED4012



NFLED4013

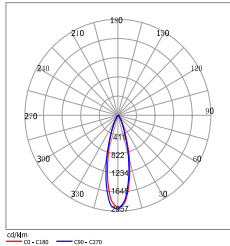


NFLED4012



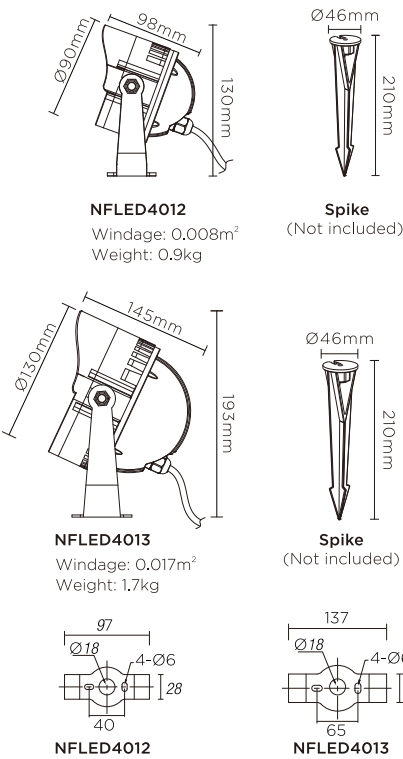
Illuminance at a distance		
Center Beam LUX	Beam Width V H	
2m	412.87LUX	0.7m 0.7m
4m	103.17LUX	1.40m 1.40m
6m	45.85LUX	2.10m 2.10m
8m	25.79LUX	2.80m 2.80m
10m	16.51LUX	3.50m 3.50m
12m	11.46LUX	4.20m 4.20m
Vert.Spread:19.7 Horiz.Spread:19.3		

NFLED4013



Illuminance at a distance		
Center Beam LUX	Beam Width V H	
2m	501.48LUX	1m 1m
4m	125.37LUX	2m 2m
6m	55.72LUX	3m 3m
8m	31.34LUX	4m 4m
10m	20.06LUX	5m 5m
12m	13.93LUX	6m 6m
Vert.Spread:26.2 Horiz.Spread:27.9		

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)					



NFLED4014

Landscape high power flood lights



NFLED4014



APPLICATIONS

- Lawns and gardens
- Paths
- Sculptures

TECHNICAL DETAILS

- NICHIA LED

OPTIONS

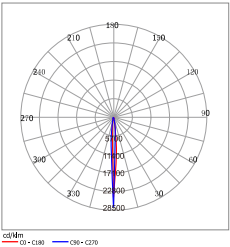
- **Driver:** Choice of the built-in 110-240V driver or separate DC 24V IP65 driver (separate driver not included)



CONSTRUCTION

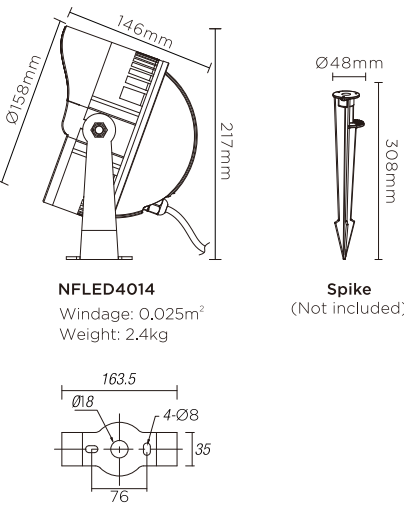
- Die-cast aluminium housing
- Power coated aluminium bracket
- Tempered glass 4mm thick
- LED driver included with 110-240V versions only
- Mounting spike not include
- 20V DC, driver not included. please refer to the driver section
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark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

NFLED4014



Illuminance at a distance		
Center Beam LUX	Beam Width V H	
2m	6177.87LUX	0.2m 0.2m
4m	1544.42LUX	0.5m 0.5m
6m	686.41LUX	0.7m 0.7m
8m	386.10LUX	1.0m 1.0m
10m	247.11LUX	1.20m 1.20m
12m	171.60LUX	1.40m 1.40m
Vert.Spread:6.9 Horiz.Spread:8.7		

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)					







# IN-GROUND LIGHTS



26 NELED4201



26 NELED4201R



27 NELED4203



28 NELED4204



29 NELED4206



30 NELED4501C



31 NELED4212

## In-ground lights

	NELED4201 (R) PAGE 26	NELED420* PAGE 27-29	NELED4501C PAGE 30	NELED4212* PAGE 31
POWER (watts)	OUTPUT (lumens)			
1	11			
2				
3				15
6		479	508	
12		956		
18		1550		
FEATURES				
Colour Temp	3000K/4000K/6000K			
Mounting	In-ground	In-ground	In-ground	In-ground
IP Rating	IP67	IP67	IP67	IP67
IK Rating	IK06	IK07	IK08	IK10
Input Voltage	DC24V	110-240V, DC24V	110-240V, DC24V	110-240V, DC24V
Material & Housing	Aluminium + stainless steel			
Beam angle	120°	20°, 45°/35°	20°, 45°/35°	/
Protection Class	Class III	Class I, Class III	Class I, Class III	Class I, Class III





# NELED4201

Low wattage in-ground lights



APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

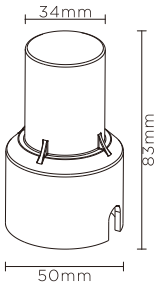
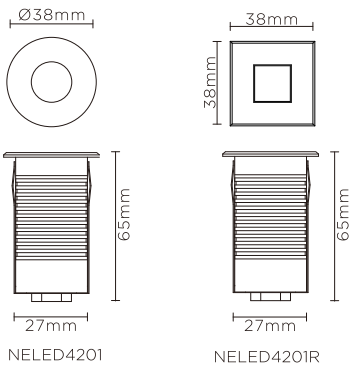
- CREE LEDs

CONSTRUCTION

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



# NELED4203

High power LEDs IP67 in-ground lights



APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

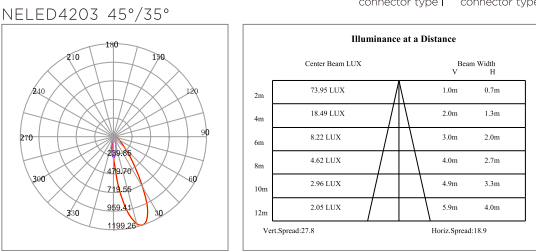
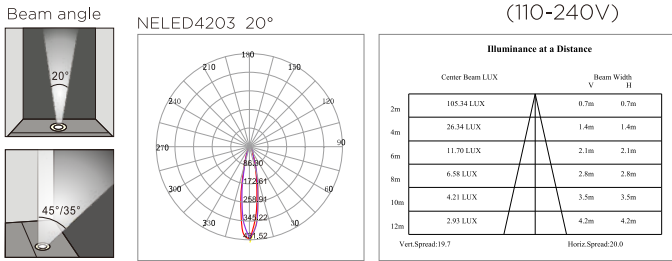
- CREE LEDs

CONSTRUCTION

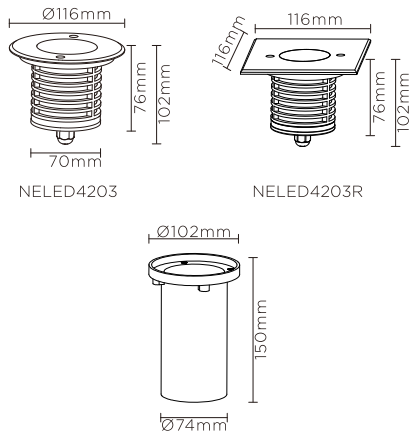
- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 8mm thick
- PVC mounting sleeve
- LED driver included with 110-240V versions only
- Weight limit: 917kg on area Ø10mm, 2000kg on area Ø30mm, 2000kg on area Ø60mm
- Complete with a IP67 cable gland, and pre-wired with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

OPTIONS

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



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				





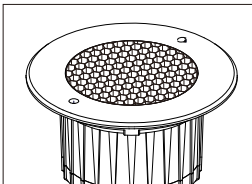


NELED4204

High power LEDs IP67 in-ground lights



45°/35°



Honeycomb\_louver version (NELED4204(R)L)



APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

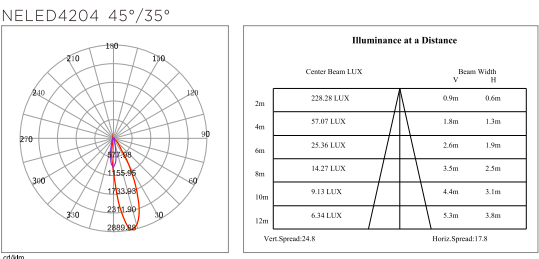
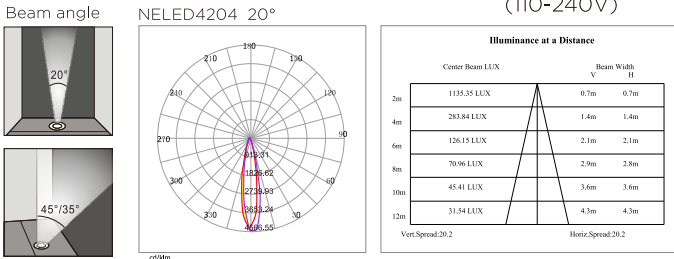
- OSRAM LEDs

CONSTRUCTION

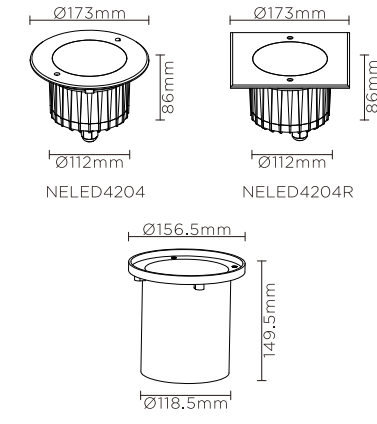
- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 8mm thick
- PVC mounting sleeve
- LED driver included with 110-240V versions only
- Weight limit: 917kg on area Ø10mm, 2000kg on area Ø30mm, 2000kg on area Ø60mm
- Complete with a IP67 cable gland, and pre-wired with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



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				



NELED4206

High power LEDs IP67 in-ground lights



45°/35°



APPLICATIONS

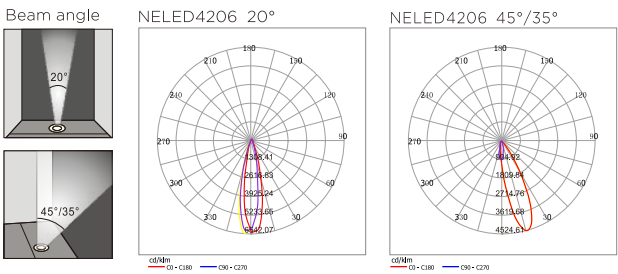
- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

- NICHIA LEDs

OPTIONS

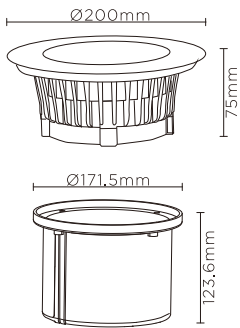
- **Driver:** Choice of separate DC 24V IP65 driver (separate driver not included)
- **Connector:** Choice of two types of IP67 connector, straight (type I) or T (type T)



Model	LED Chip	Watts	Colour temp.	Lumens	CRI	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				

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 2x1.00mm<sup>2</sup> H05RN wire (DC24V) or 3x1.00mm<sup>2</sup> H05RN wire (110-240V)







# NELED4501C

Rectangle IP67 in-ground lights



Supplied complete with external IP67 enclosure for mains driver



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



APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

- OSRAM LEDs

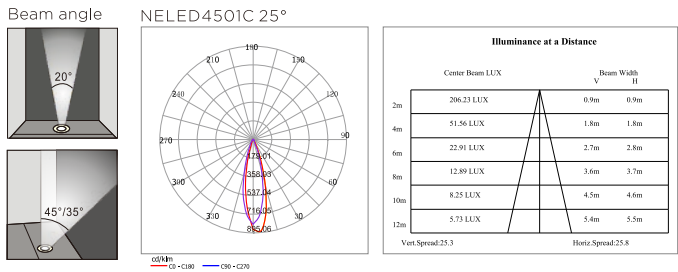
OPTIONS

- **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)

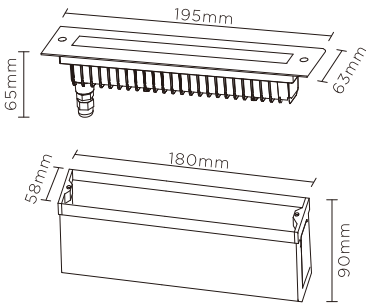


CONSTRUCTION

- 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 2x1.00mm² H05RN wire (DC24V) or 3x1.00mm² H05RN wire (110-240V)



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 lights



NELED4212A



NELED4212B



NELED4212D



APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

TECHNICAL DETAILS

- SMD LEDs

CONSTRUCTION

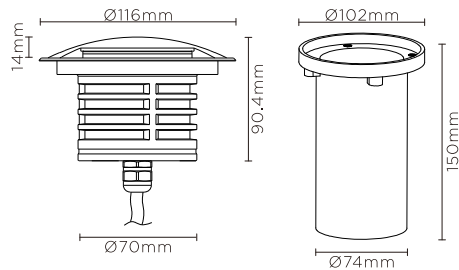
- Die-cast aluminium housing
- 316 brushed stainless steel bezel
- Tempered glass cover 8mm thick
- PVC mounting sleeve
- Weight limit: 2,000kg
- LED driver included with 110-240V versions only
- Complete with a IP67 cable gland, and pre-wired with 2x1.00mm² H05RN wire (DC24V) or 3x1.00mm² H05RN wire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

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



33 NUVLED4330



34 NSLED4321



35 NSLED4310



36 NSLED4315



37 NSLED4312

## NUWLED4330

Adjustable IP68 underwater lights



### APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

### TECHNICAL DETAILS

- High Power LEDs

### CONSTRUCTION

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

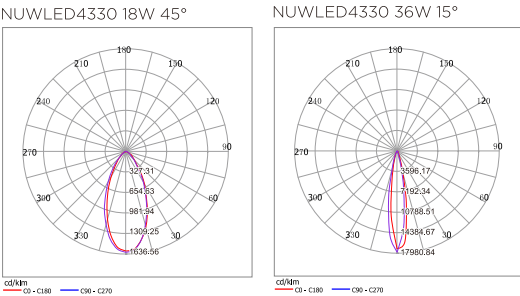
### OPTIONS

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

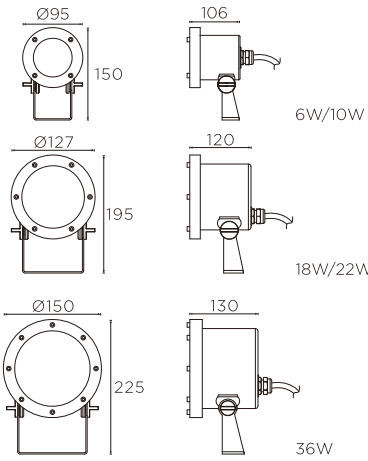


### Warning

- Must be installed underwater to prevent over-heating



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



APPLICATIONS

- Fountains
- Underwater decorations

TECHNICAL DETAILS

- OSRAM LEDs

CONSTRUCTION

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

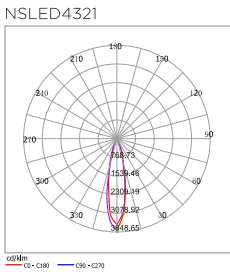
OPTIONS

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

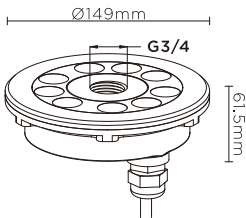


Warning

- Must be installed underwater to prevent over-heating



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



APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

TECHNICAL DETAILS

- OSRAM LEDs

CONSTRUCTION

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

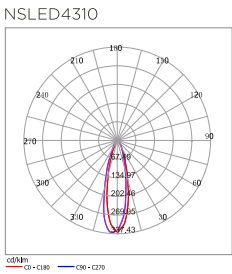
OPTIONS

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

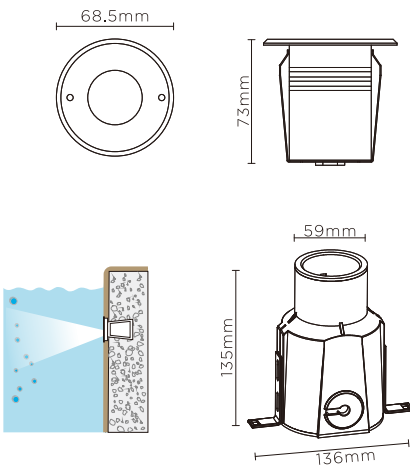


Warning

- Must be installed underwater to prevent over-heating



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°



APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

TECHNICAL DETAILS

- OSRAM LEDs

CONSTRUCTION

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

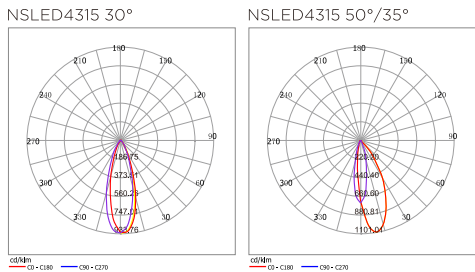
OPTIONS

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

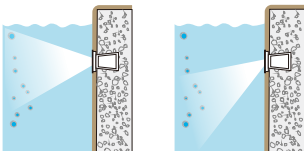
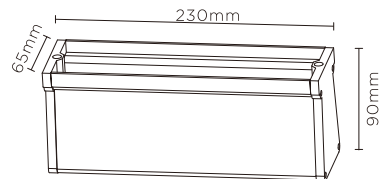
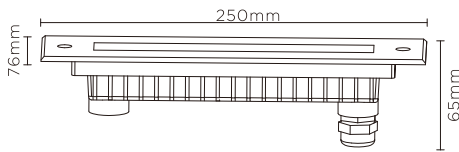


Warning

- Must be installed underwater to prevent over-heating



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



APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

TECHNICAL DETAILS

- OSRAM LEDs

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

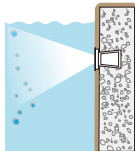
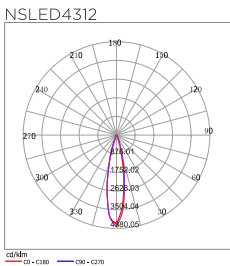
OPTIONS

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

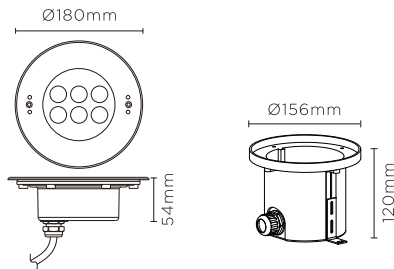


Warning

- Must be installed underwater to prevent over-heating



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°







41 NGLED5613



43 NGLED5653



45 NGLED5663



47 NGLED5612



49 NGLED5615











51 NBLLED353



53 NBLLED354

## Bollards

	NGLED5613 PAGE 41	NGLED5653 PAGE 43	NGLED5663 PAGE 45	NGLED5612 PAGE 47	NGLED5615 PAGE 49	NBLLLED353 PAGE 51	NBLLLED354 PAGE 53
							
POWER (watts)	OUTPUT (lumens)						
8						500	500
9	805	155			183		
10.5							
12				275			
13			123				
FEATURES							
Colour Temp	3000K/4000K/6000K						
Mounting	Surface ground mounted						
IP Rating	IP54						
Input Voltage	110-240V						
Material & Housing	Aluminium						
Protection Class	Class I						





# NGLED5613



NGLED5613-2



NGLED5613-1



### APPLICATIONS

- Lawns and gardens
- Paths

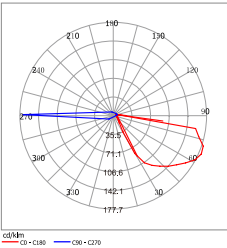
### CONSTRUCTION

- 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

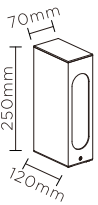
NGLED5613



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



## APPLICATIONS

- Lawns and gardens
- Paths

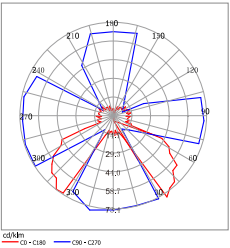
## CONSTRUCTION

- 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)

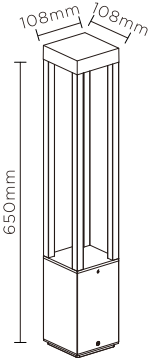
## TECHNICAL DETAILS

- CREE LEDs

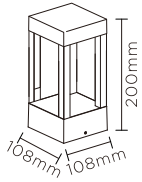
NGLED5653



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



APPLICATIONS

- Lawns and gardens
- Paths

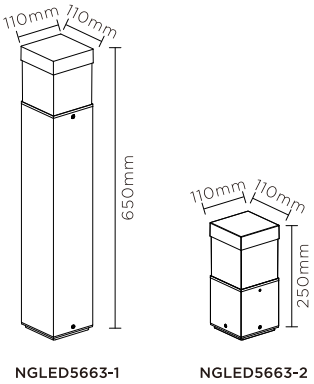
CONSTRUCTION

- 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)

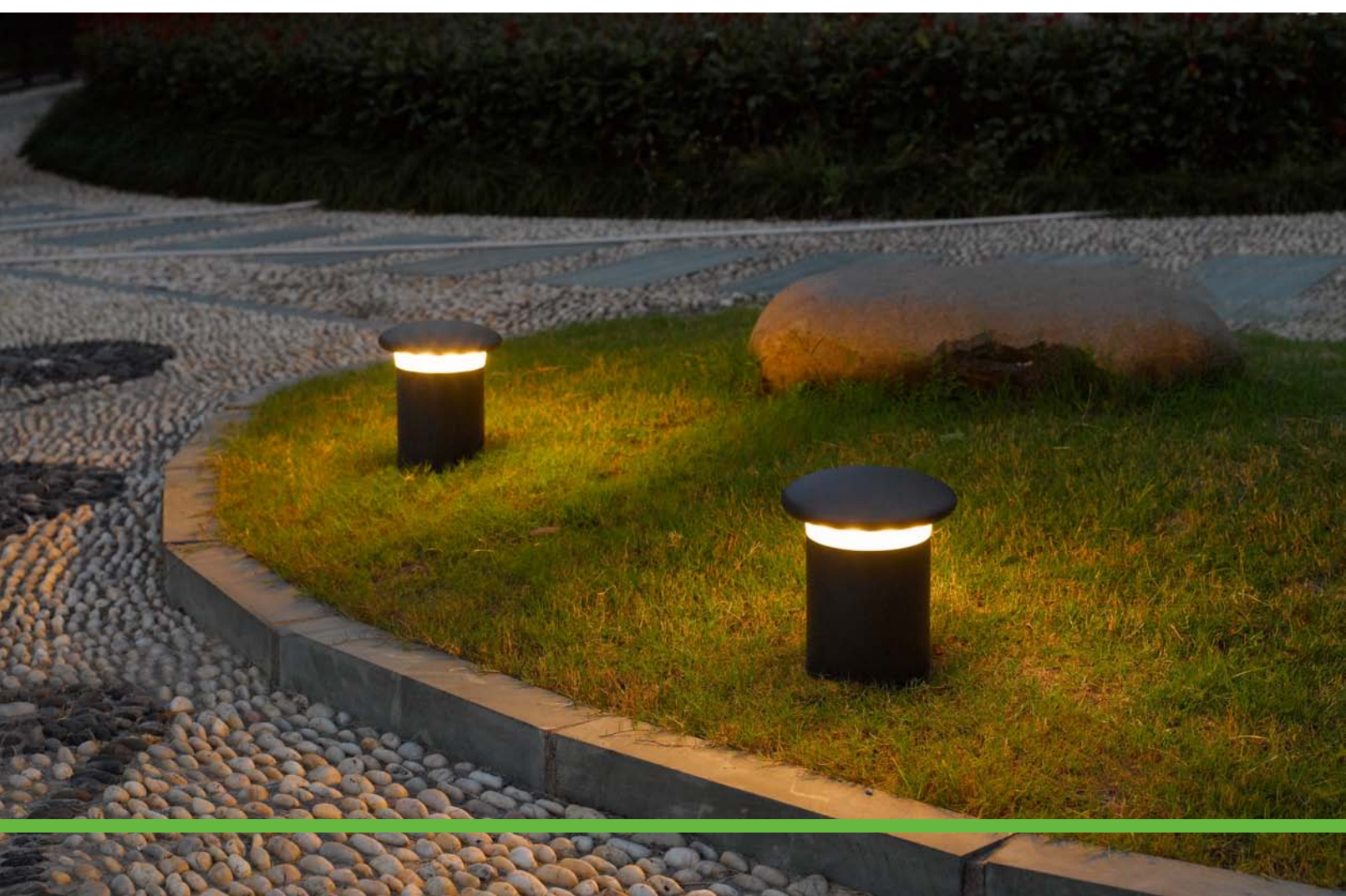
TECHNICAL DETAILS

- CREE LEDs

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







# NGLED5612



## APPLICATIONS

- Lawns and gardens
- Paths

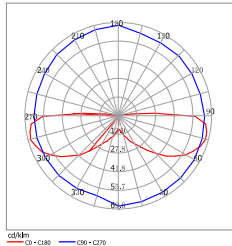
## CONSTRUCTION

- 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)

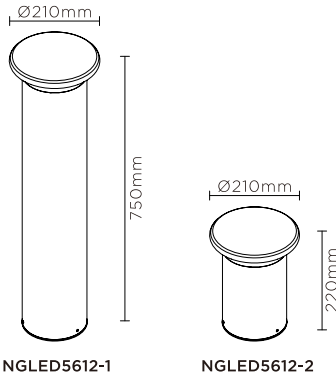
## TECHNICAL DETAILS

- CREE LEDs

NGLED5612



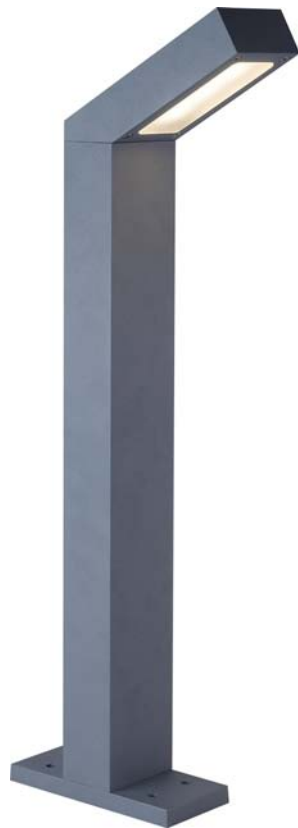
Model	Watts	Colour temp.	Lumens	CRI
NGLED5612-1	12W	3000K	253 lm	>80
NGLED5612-1	12W	6000K	275 lm	>80
NGLED5612-2	12W	3000K	253 lm	>80
NGLED5612-2	12W	6000K	275 lm	>80







# NGLED5615



### APPLICATIONS

- Lawns and gardens
- Paths

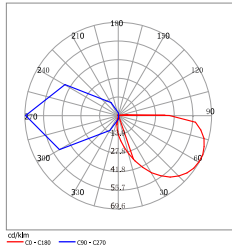
### CONSTRUCTION

- 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)

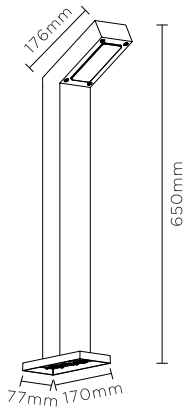
### TECHNICAL DETAILS

- CREE LEDs

NGLED5615



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







NBLLED353



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

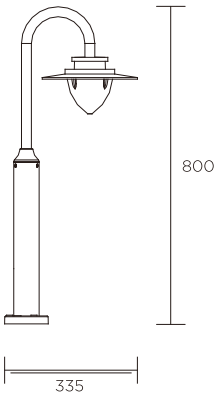


NPTLED353



NWMLED353

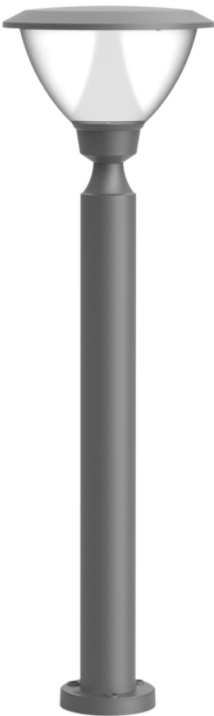
Model	Watts	Colour temp.	Lumens	CRI	PF
NBLLED353	8W	3000K/4000K/6500K	640 lm	>70	>0.9







NBLLED354



NPTLED354



NWMLED354



APPLICATIONS

- Lawns and gardens
- Paths

CONSTRUCTION

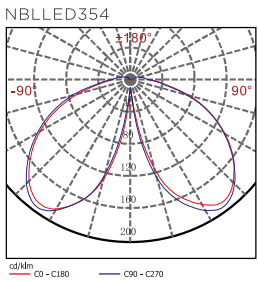
- Die-casting aluminium housing
- Pre-treated for corrosion resistance
- PC diffuser
- LED driver included
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

Options

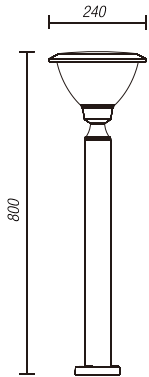
- For the NPTLED354 version please refer to the post top lights section and for the NWMLED354 version please refer to the wall lights section

TECHNICAL DETAILS

- COB LED



Model	Watts	Colour temp.	Lumens	CRI	PF
NBLLED354	8W	3000K/4000K/6500K	640 lm	>70	>0.9







# POST TOP LIGHTS



56 NPTLED351



57 NPTLED352



58 NPTLED353



59 NPTLED354



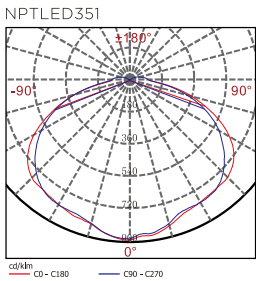




# NPTLED351

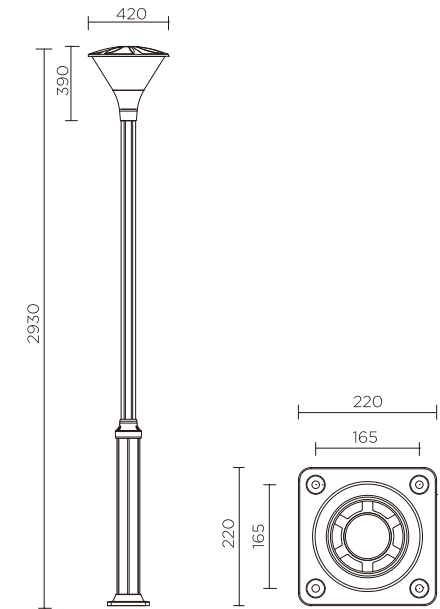


- APPLICATIONS**
  - For functional, architectural and decorative lighting
  - Hotels, offices and residential developments
- CONSTRUCTION**
  - Die-casting aluminium housing
  - Powder coated surface treatment
  - PC diffuser
  - Driver included
  - 2500mm pole included
  - Foundation included
  - Choice of three finishes:
    - Black (similar to RAL 7021)
    - Dark grey (similar to RAL 7037)
    - Light grey (similar to RAL 7023)



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

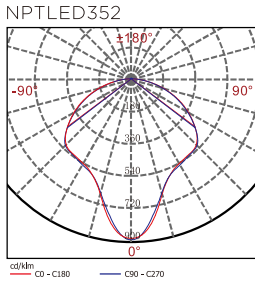
- TECHNICAL DETAILS**
  - CREE COB LED



# NPTLED352

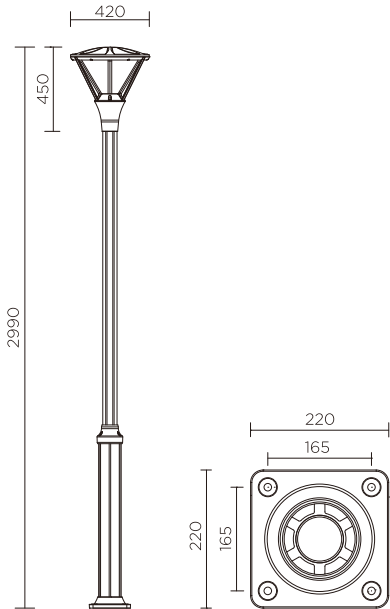


- APPLICATIONS**
  - For functional, architectural and decorative lighting
  - Hotels, offices and residential developments
- CONSTRUCTION**
  - Die-casting aluminium housing
  - Powder coated surface treatment
  - PC diffuser
  - Driver included
  - 2500mm pole included
  - Foundation included
  - Choice of three finishes:
    - Black (similar to RAL 7021)
    - Dark grey (similar to RAL 7037)
    - Light grey (similar to RAL 7023)



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

- TECHNICAL DETAILS**
  - CREE COB LED







NPTLED353



NWMLED353



NBLLED353



APPLICATIONS

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

CONSTRUCTION

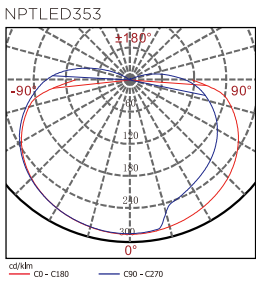
- Die-casting aluminium housing
- Pre-treated for corrosion resistance
- PC diffuser
- LEDs on metal core PCB
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

Options

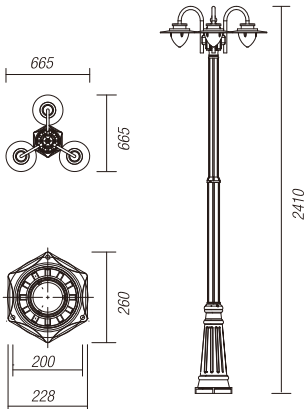
- For the NWMLED353 version please refer to the wall lights section and for the NBLLED353 version please refer to the bollard lights section

TECHNICAL DETAILS

- CREE COB LED



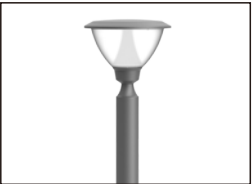
Model	Watts	Colour temp.	Lumens	CRI	PF
NPTLED353	24W	3000K/4000K/6000K	1,900 lm	>70	>0.9



NPTLED354



NWMLED354



NBLLED354



APPLICATIONS

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

CONSTRUCTION

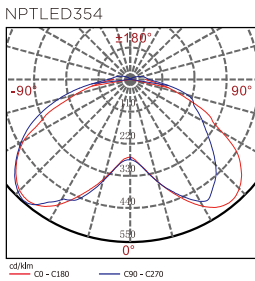
- Die-casting aluminium housing
- Pre-treated for corrosion resistance
- PC diffuser
- LEDs on metal core PCB
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

Options

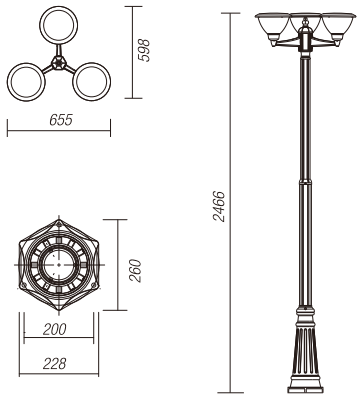
- For the NWMLED354 version please refer to the wall lights section and for the NBLLED354 version please refer to the bollard lights section

TECHNICAL DETAILS

- CREE COB LED















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





## Surface wall lights

	NWLED3531 PAGE 63	NWLED5512* PAGE 65	NWLED5513* PAGE 66	NWLED354* PAGE 67	NWMLD352 PAGE 68	NWMLD353 PAGE 70	NWMLD354 PAGE 71	NWLED3505 PAGE 72	NWLED5541R PAGE 73	NWLED3501A PAGE 74	NWM355* PAGE 75
											
POWER (watts)	OUTPUT (lumens)										
1-5									350		
6-10	55	550	550	400	640	500	500	550			
11-16		950	950		1280					550	815
17-20				1200	1600						
26-30					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



APPLICATIONS

- Wall decorations
- Corridors
- Balconies

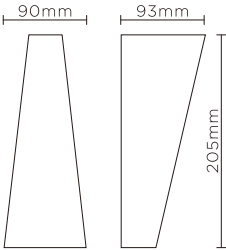
CONSTRUCTION

- 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<sup>2</sup> 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

Model	Watts	Colour temp.	Lumens	CRI
NWLED3531	7W	3000K	55 lm	>70
NWLED3531	7W	6000K	55 lm	>70







NWLED5512



NWLED5512-1



NWLED5512-2



APPLICATIONS

- Wall decorations
- Corridors
- Columns

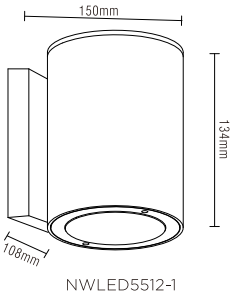
CONSTRUCTION

- 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<sup>2</sup> wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

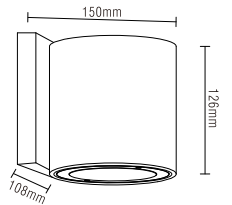
TECHNICAL DETAILS

- CREE LEDs

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

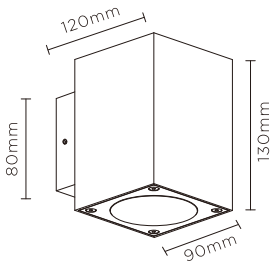


- APPLICATIONS**
- Wall decorations
  - Corridors
  - Columns

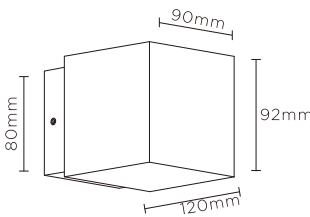
- CONSTRUCTION**
- Aluminium housing
  - Clear glass cover
  - LED driver included
  - Powder coated surface treatment
  - NWLED5513-1 double sides light output
  - NWLED5513-2 single side light output
  - Supply with 3x1.0mm<sup>2</sup> wire
  - Choice of three finishes:
    - Black (similar to RAL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

- TECHNICAL DETAILS**
- High power LEDs

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

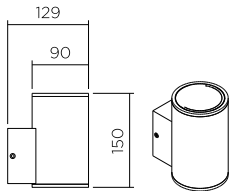


- APPLICATIONS**
- Wall decorations
  - Corridors
  - Balconies

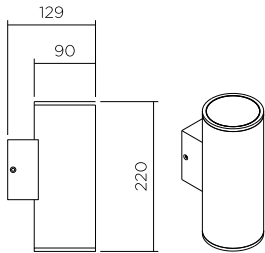
- CONSTRUCTION**
- Aluminium housing
  - Tempered glass cover
  - LED driver included
  - Powder coated surface treatment
  - NWLED3543 single side light output
  - NWLED3544 double sides light output
  - Supply with 3x1.0mm<sup>2</sup> wire
  - Choice of three finishes:
    - Black (similar to RAL 7021)
    - Dark grey (similar to RAL 7037)
    - Light grey (similar to RAL 7023)

- TECHNICAL DETAILS**
- Bridgelux COB LEDs

Model	Watts	Colour temp.	Lumens	CRI
NWLED3543	9.4W	3000K	400 lm	>80
NWLED3543	9.4W	6500K	400 lm	>80
NWLED3544	18.5W	3000K	1200 lm	>80
NWLED3544	18.5W	6500K	1200 lm	>80



NWLED3543

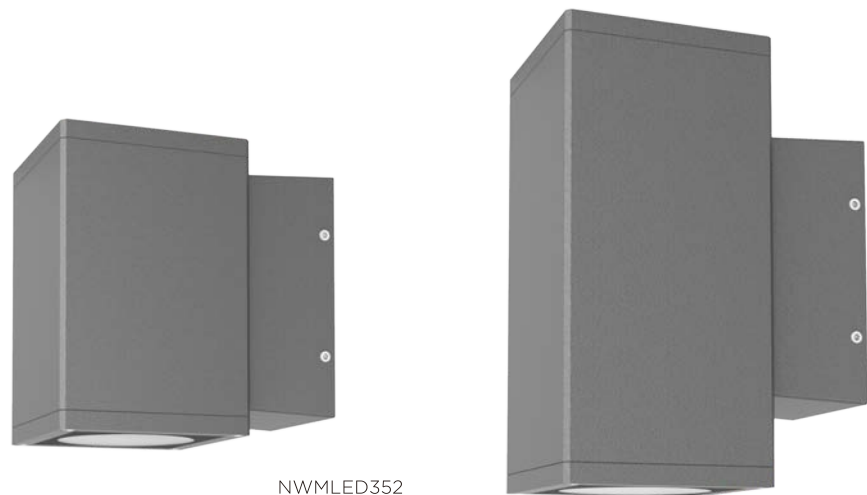


NWLED3544





NWMLLED352



NWMLLED352

NWMLLED352-2



APPLICATIONS

- Wall decorations
- Corridors
- Columns

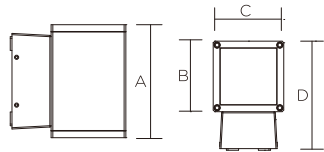
CONSTRUCTION

- Die-casting aluminium housing
- Tempered glass cover
- Powder coated surface treatment
- NWMLLED352-2 double sides light output
- NWMLLED352 single side light output
- LED driver included
- Supply with 3x1.0mm 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

Model	Watts	Colour temp.	Lumens	CRI	PF
NWMLLED352 8W	8W	3000K/4000K/6500K	640 lm	>70	>0.9
NWMLLED352 20W	20W	3000K/4000K/6500K	1600 lm	>70	>0.9
NWMLLED352-2 16W	16W	3000K/4000K/6500K	1280 lm	>70	>0.9
NWMLLED352-2 30W	30W	3000K/4000K/6500K	2400 lm	>70	>0.9



Watts	A	B	C	D
8W	130	86	86	133
20W	200	150	150	207
16W	220	118	118	170
30W	300	150	150	207







NWMLLED353



NBLLED353



NPTLED353



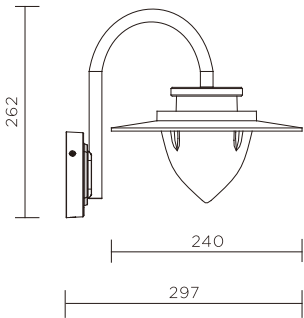
- APPLICATIONS**
- Wall decorations
  - Corridors
  - Columns

- CONSTRUCTION**
- Die-casting aluminium housing
  - PC diffuser
  - Powder coated surface treatment
  - LED driver included
  - Supply with 3x1.0mm 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

Model	Watts	Colour temp.	Lumens	CRI	PF
NWMLLED353	8W	3000K/4000K/6500K	500 lm	>70	>0.9



NWMLLED354



NBLLED354



NPTLED354



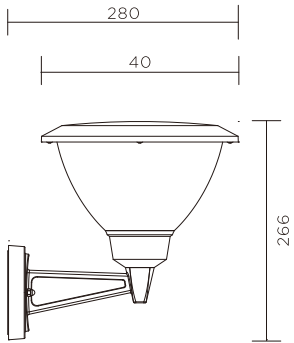
- APPLICATIONS**
- Wall decorations
  - Corridors
  - Columns

- CONSTRUCTION**
- Die-casting aluminium housing
  - PC diffuser
  - Powder coated surface treatment
  - LED driver included
  - Supply with 3x1.0mm 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

Model	Watts	Colour temp.	Lumens	CRI	PF
NWMLLED354	8W	3000K/4000K/6500K	500 lm	>70	>0.9







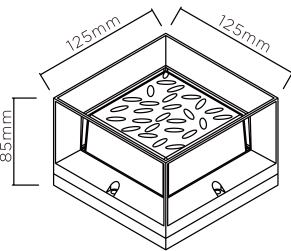
NWLED3505



- APPLICATIONS
- Wall decorations
  - Corridors
- CONSTRUCTION
- Die-cast aluminium housing
  - Frosted tempered glass cover
  - Powder coated surface treatment
  - LED driver included
  - Supply with 3\*1.0mm<sup>2</sup> 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

Model	Watts	Colour temp.	Lumens	CRI
NWLED3505	6.5W	3000K	550 lm	>80
NWLED3505	6.5W	6500K	550 lm	>80



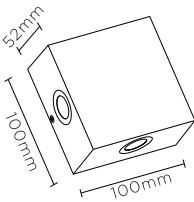
NWLED5541R



- APPLICATIONS
- Wall decorations
  - Balconies
- CONSTRUCTION
- Die-cast aluminium housing
  - Clear glass lens
  - Powder coated surface treatment
  - LED driver included
  - Supply with 3x1.0mm<sup>2</sup> 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

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







NWLED3501A



- APPLICATIONS**

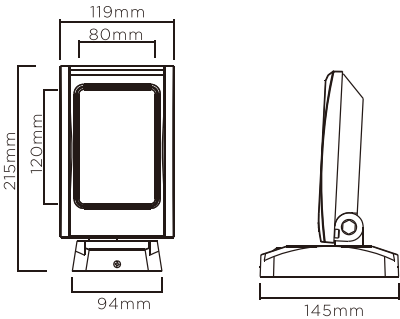
  - Wall decorations
  - Corridors
- CONSTRUCTION**

  - Die-cast aluminium housing
  - Frosted tempered glass 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)

**TECHNICAL DETAILS**

- SMD LEDs

Model	Watts	Colour temp.	Lumens	CRI	Beam angle
NWLED3501A	12W	3000K	550 lm	>70	60°
NWLED3501A	12W	6500K	550 lm	>70	60°



NWLED355



- APPLICATIONS**

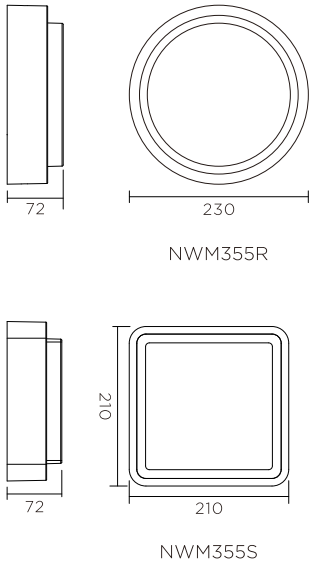
  - Wall decorations
  - Corridors
  - Columns
- CONSTRUCTION**

  - Die-casting aluminium housing
  - PC diffuser
  - Powder coated surface treatment
  - 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**

- SMD LEDs

Model	Watts	Colour temp.	Lumens	CRI	PF
NWM355R	12W	3000K/4000K/6500K	815 lm	>70	>0.9
NWM355S	12W	3000K/4000K/6500K	780 lm	>70	>0.9







# RECESSED WALL LIGHTS



78 NWLED556\*



79 NWLED5566



81 NWLED5571A



81 NWLED5572A



82 NWLED4522



## Recessed wall lights

	NWLED556* PAGE 78	NWLED5566 PAGE 79	NWLED557*A PAGE 81	NWLED4522 PAGE 82
POWER (watts)	OUTPUT (lumens)			
1-5	169/327	65	59	
6-10	529			36
FEATURES				
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			





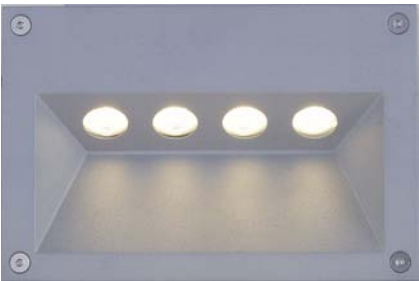
NWLED556 series



NWLED5561



NWLED5563



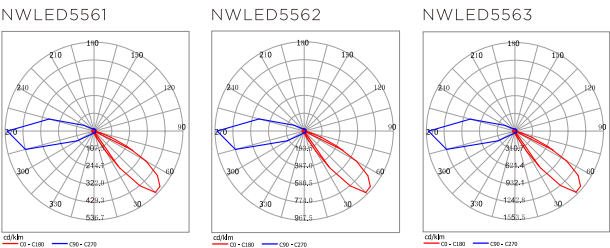
NWLED5562



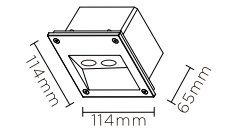
- APPLICATIONS**
- Outdoor stairs
  - Corridors
  - Wall decorations

- CONSTRUCTION**
- Die-cast aluminium housing
  - Clear glass lens
  - 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)

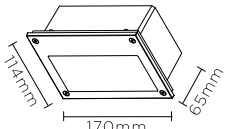
- TECHNICAL DETAILS**
- CREE LEDs



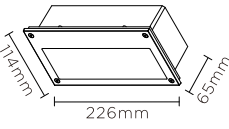
Model	Watts	Colour temp.	Lumens	CRI
NWLED5561	3.5W	3000K/6000K	169 lm	>80
NWLED5562	5W	3000K/6000K	327 lm	>80
NWLED5563	7.5W	3000K/6000K	529 lm	>80



NWLED5561



NWLED5562



NWLED5563

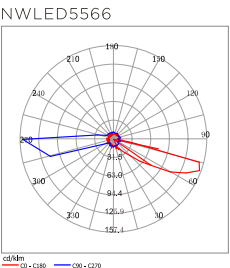
NWLED5566



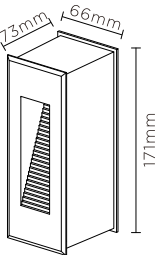
- APPLICATIONS**
- Outdoor stairs
  - Corridors
  - Wall decorations

- CONSTRUCTION**
- Die-cast aluminium housing
  - Clear glass lens
  - 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**
- CREE LED



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



NWLED5566





NWLED5571A NWLED5572A



NWLED5571A



NWLED5572A



APPLICATIONS

- Outdoor stairs
- Corridors
- Wall decorations

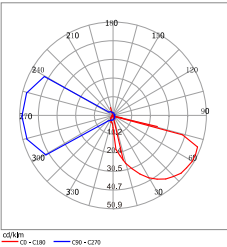
CONSTRUCTION

- Die-cast aluminium housing
- 304 stainless steel front cover
- 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)

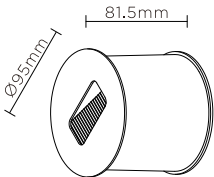
TECHNICAL DETAILS

- CREE LEDs

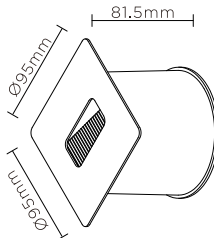
NWLED5571A/2A



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



APPLICATIONS

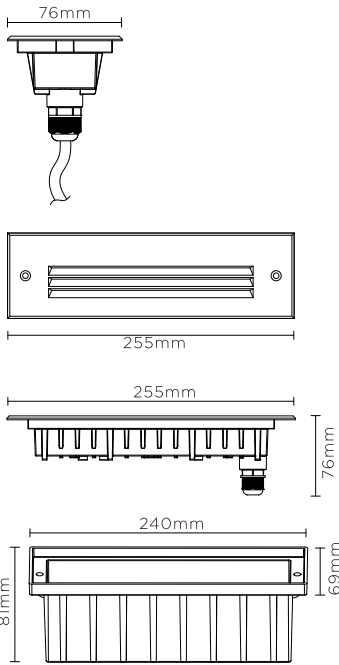
- Outdoor stairs
- Corridors
- Wall decorations

CONSTRUCTION

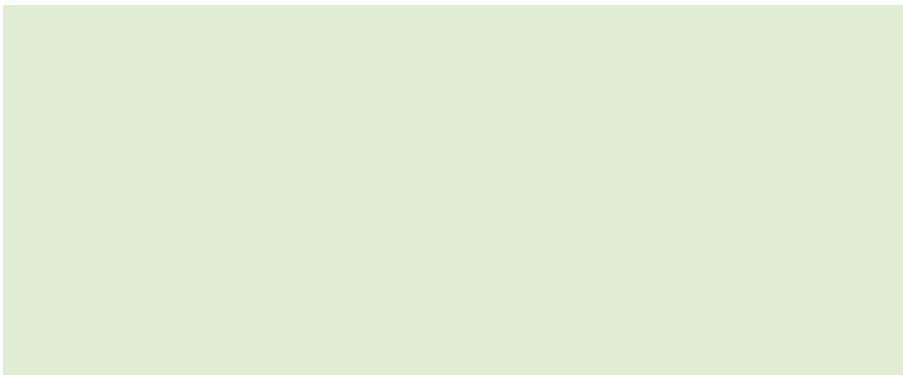
- Die-cast aluminium housing and bezel
- Supplied complete with ABS Mounting
- Clear glass cover
- LED driver included
- Supply with 3x1.0mm² wire
- Choice of three finishes:
  - Black (similar to RAL 7021)
  - Dark grey (similar to RAL 7037)
  - Light grey (similar to RAL 7023)

TECHNICAL DETAILS

- SMD LEDs










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







Canopy lights

	NCLED5771 PAGE 87	NCLED5772 PAGE 87	NLEDM934 PAGE 89	NLEDM934R PAGE 89	NLEDM330* PAGE 91	NCNLED301 PAGE 93
						
POWER (watts)	OUTPUT (lumens)					
6-10			550	550	400	640
11-15					800	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					



87 NCLED5771



87 NCLED5772



89 NLEDM934



89 NLEDM934R



91 NLEDM3301  
NLEDM3302



93 NCNLED301





NCLED5771 NCLED5772



NCLED5771



NCLED5772



APPLICATIONS

- Porches + entrances
- Corridors
- Under-canopy lighting

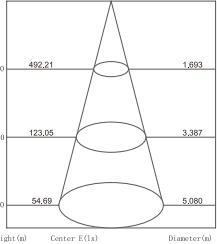
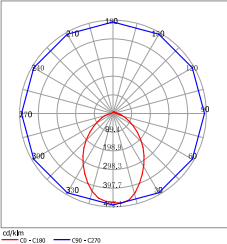
CONSTRUCTION

- 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)

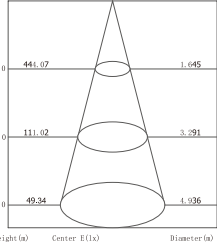
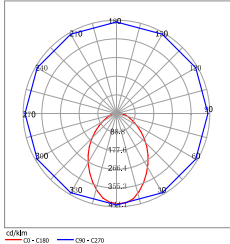
TECHNICAL DETAILS

- CREE LEDs

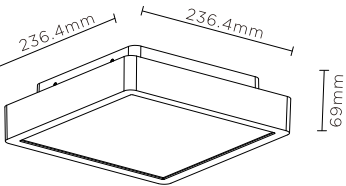
NCLED5771



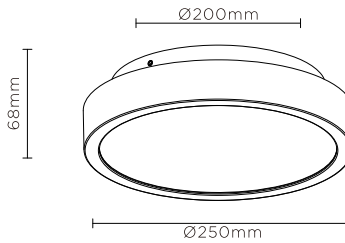
NCLED5772



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



APPLICATIONS

- Porches + entrances
- Corridors
- Under-canopy lighting

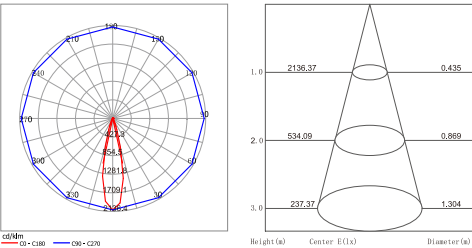
CONSTRUCTION

- 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)

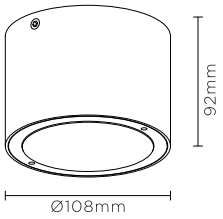
TECHNICAL DETAILS

- CREE LEDs

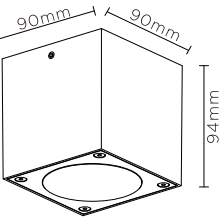
NLEDM934/R



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

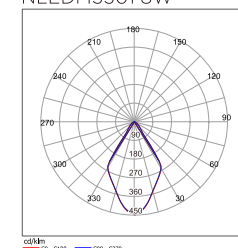
### CONSTRUCTION

- 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)

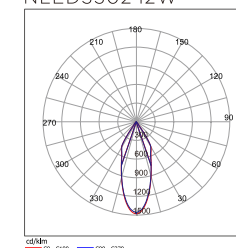
### TECHNICAL DETAILS

- COB LEDs

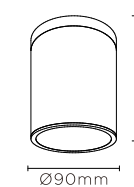
NLEDM3301 8W



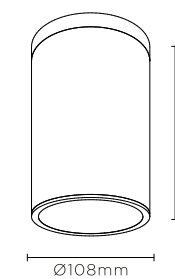
NLED3302 12W



Model	Watts	Colour temp.	Lumens	CRI	Beam angle
NLEDM3301	8W	3000K/4000K/6000K	400 lm	>80	45°
NLEDM3302	12W	3000K/4000K/6000K	800 lm	>80	35°



NLEDM3301



NLEDM3302





# NCNLED301



### APPLICATIONS

- Porches + entrances
- Corridors
- Under-canopy lighting

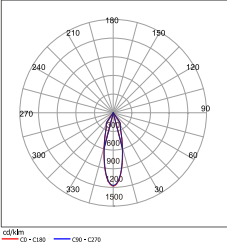
### CONSTRUCTION

- 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)

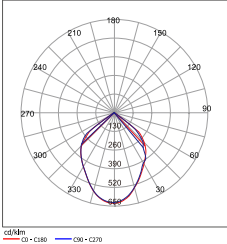
### TECHNICAL DETAILS

- CREE COB LED

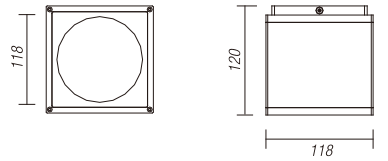
NCNLED301 8W



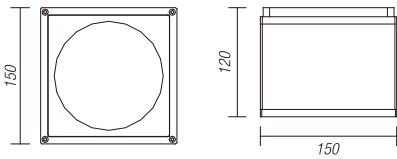
NCNLED301 12W



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



96 NHBLED304



97 NHBLED304E



98 NHBLED303



100 NLED 49\*



101 NLBLED401










102 NLED492N



103 NLBLED405



Industrial lights

NVC Lighting	Highbay			Waterproof batten			
	NHBLED304 PAGE 108	NHBLED304E PAGE 109	NHBLED303 PAGE 110	NLED49* PAGE 114	NLBLED401 PAGE 115	NLED492N PAGE 116	NLBLED405 PAGE 117
							
POWER (watts)	OUTPUT (lumens)						
18				1,890	1,584		
20						2,300	
21							1,800
32							
36				3,600	3,168		
40						4,450	3,600
50	5,360	4,950					
54				5,020			
55						6,300	4,800
100	10,900	9,940	13,500				
150	16,500	15,370	20,250				
200		20,530	27,000				
FEATURES	NHBLED304	NHBLED304E	NHBLED303	NLED49*	NLBLED401	NLBLED402	NLBLED405
Lumen per Watt	109	102	135	100	90	96	100
Colour Temp	3000K/4000K/6500K						
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
IP Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Input Voltage	220-240V	220-240V	220-240V	220-240V	110-240V	220-240V	220-240V
Material & Housing	Aluminium	Aluminium	Aluminium	PC	PC	PC	PC
Beam type	100°	105°	60°, 90°, 120°	100°	135°	145°	105°
Protection Class	Class I	Class I	Class I	Class I	Class II	Class II	Class I
Dimming	N	N	Y(optional)	N	N	N	N
Sensor	N	N	Microwave/ PIR for option	Microwave/ PIR for option	N	N	N
Emergency	N	N	Y(optional)	Y(optional)	N	N	N





# NHLED304

SMD IP65 highbay with reflector



APPLICATIONS

- Industrial production areas
- Warehouses
- Exhibition halls

OPTIONS

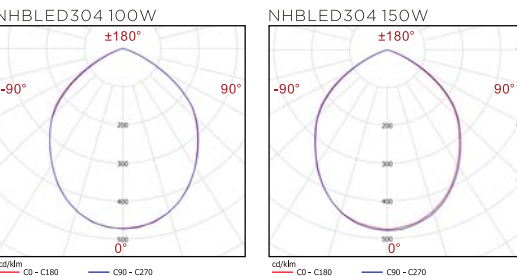
- Check availability before ordering
- **Installation:** Choice of the hook mounted or pole mounted

CONSTRUCTION

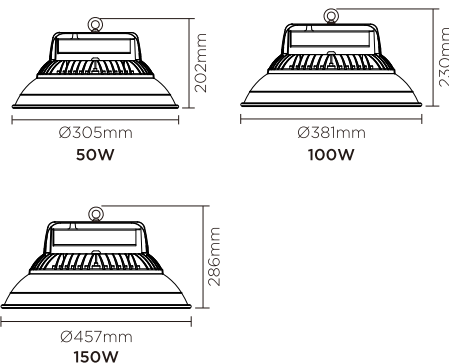
- Die-casting aluminium heat sink
- Aluminium 6063 reflector
- Powder coated surface treatment
- LED driver included
- 110° beam angle available

TECHNICAL DETAILS

- SMD LEDs



Model	Watts	Colour temp.	Lumens	CRI
NHLED304 50W	50W	4000K/6000K	5,360 lm	>70
NHLED304 100W	100W	4000K/6000K	10,900 lm	>70
NHLED304 150W	150W	4000K/6000K	16,500 lm	>70



# NHLED304E

Cost-effective DOB highbay



APPLICATIONS

- Industrial production areas
- Warehouses
- Exhibition halls

OPTIONS

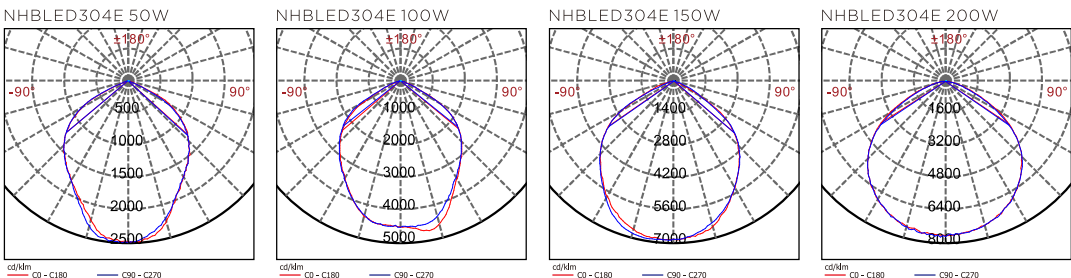
- Check availability before ordering

CONSTRUCTION

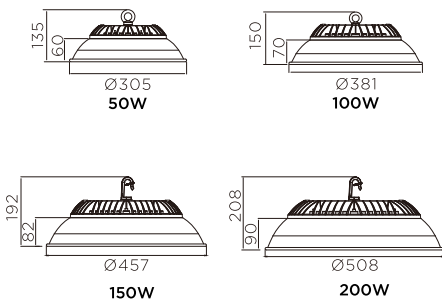
- Die-casting aluminium housing
- Aluminium 6063 reflector
- LED driver on board

TECHNICAL DETAILS

- SMD LEDs



Model	Watts	Colour temp.	Lumens	CRI
NHLED304E 50W	50W	3000K/4000K/6000K	4,950 lm	>70
NHLED304E 100W	100W	3000K/4000K/6000K	9,940 lm	>70
NHLED304E 150W	150W	3000K/4000K/6000K	15,370 lm	>70
NHLED304E 200W	200W	3000K/4000K/6000K	20,530 lm	>70





# NHLED303

Slim IP65 LED highbay fittings



APPLICATIONS

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

TECHNICAL DETAILS

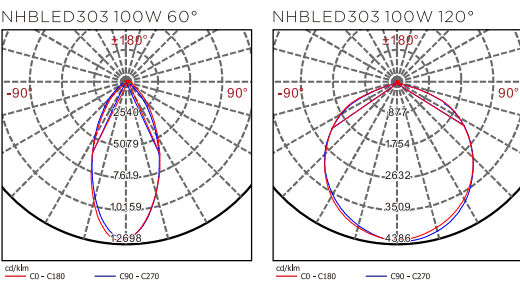
- LUMILEDS SMD3030 LEDs

CONSTRUCTION

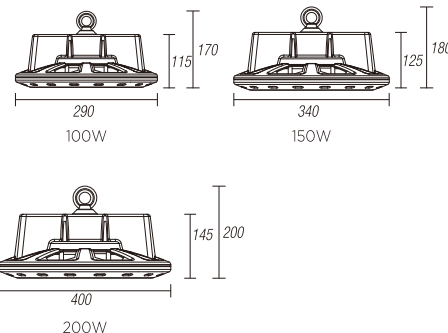
- Forged aluminium housing, pre-treated for corrosion resistance
- PC wire lens
- LEDs on metal core PCB
- Internal IP67 driver
- Complete with a IP65 cable gland, and pre-wired 3x1.0mm² H05RN

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



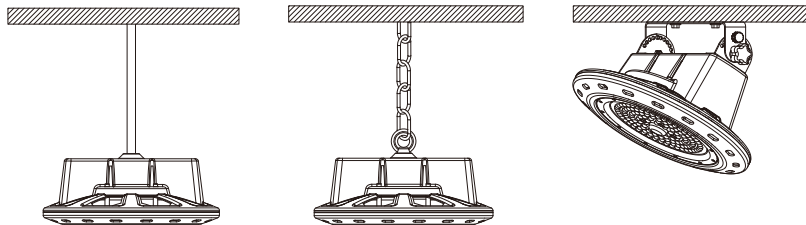
Model	Watts	Colour temp.	Lumens	CRI	PF	Beam angle
NHLED303 100W	100W	3000K/4000K/6500K	13,500 lm	>70	>0.9	60°/90°/120°
NHLED303 150W	150W	3000K/4000K/6500K	20,250 lm	>70	>0.9	60°/90°/120°
NHLED303 200W	200W	3000K/4000K/6500K	27,000 lm	>70	>0.9	60°/90°/120°



## Structure and details



**Wide range of application**  
NHLED303 has three types of installation methods (pole, chain and bracket), which are suitable for more applications.



**Smaller, lighter & better**  
The advantages of using pure forged aluminium results in fitting that is lighter and has 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 luminaire.







NLED49 series



APPLICATIONS

- Parking garages
- Industrial premises
- Storage facilities

CONSTRUCTION

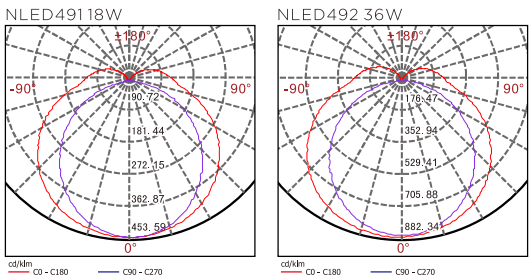
- Constant current LED driver
- PC housing and opal PC diffuser

TECHNICAL DETAILS

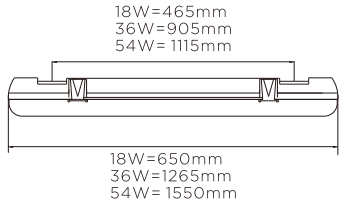
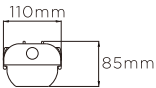
- SMD LEDs

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



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

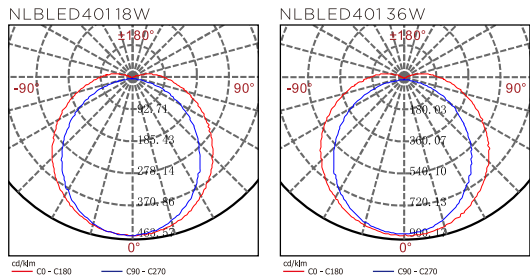
- General
- Factories
- Car parks
- Storerooms

CONSTRUCTION

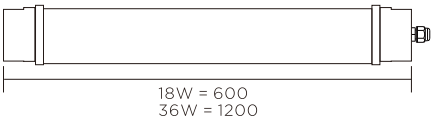
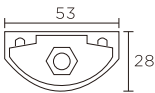
- Constant current LED driver
- PC housing and opal PC diffuser
- Light-weight
- 3M double tape or sliding clips mounting
- Complete with cable gland IP65

TECHNICAL DETAILS

- SMD LEDs



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







# NLED492N

Internally mounted sealed clips IP65 waterproof batten



APPLICATIONS

- Parking garages
- Industrial premises
- Storage facilities

CONSTRUCTION

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

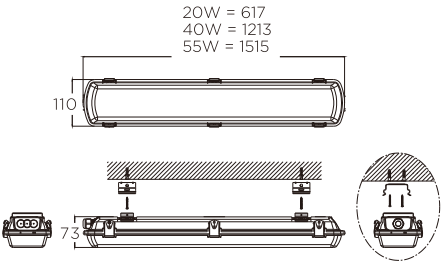
TECHNICAL DETAILS

- SMD LEDs

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

Model	Watts	Colour temp.	Lumens	PF	CRI
NLED492N 20W	20W	3000K/4000K/6500K	2,300 lm	>0.9	>80
NLED492N 40W	40W	3000K/4000K/6500K	4,450 lm	>0.9	>80
NLED492N 55W	55W	3000K/4000K/6500K	6,300 lm	>0.9	>80



# NLBLED405

Internally mounted sealed clips IP65 waterproof batten



APPLICATIONS

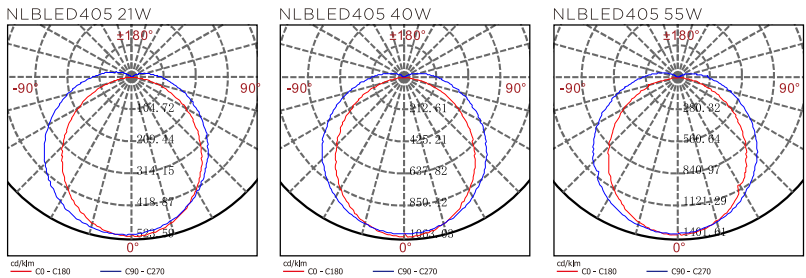
- General
- Factories
- Car parks
- Storerooms

CONSTRUCTION

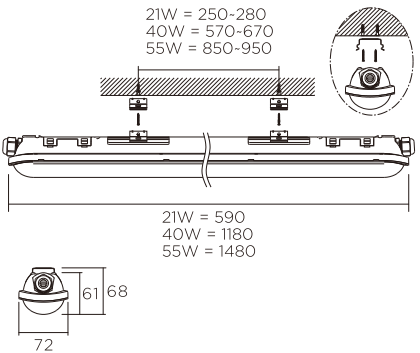
- PC housing and opal PC diffuser
- LED driver included
- Internally mounted sealed clips
- Sliding clips mounting
- Complete with cable gland IP65

TECHNICAL DETAILS

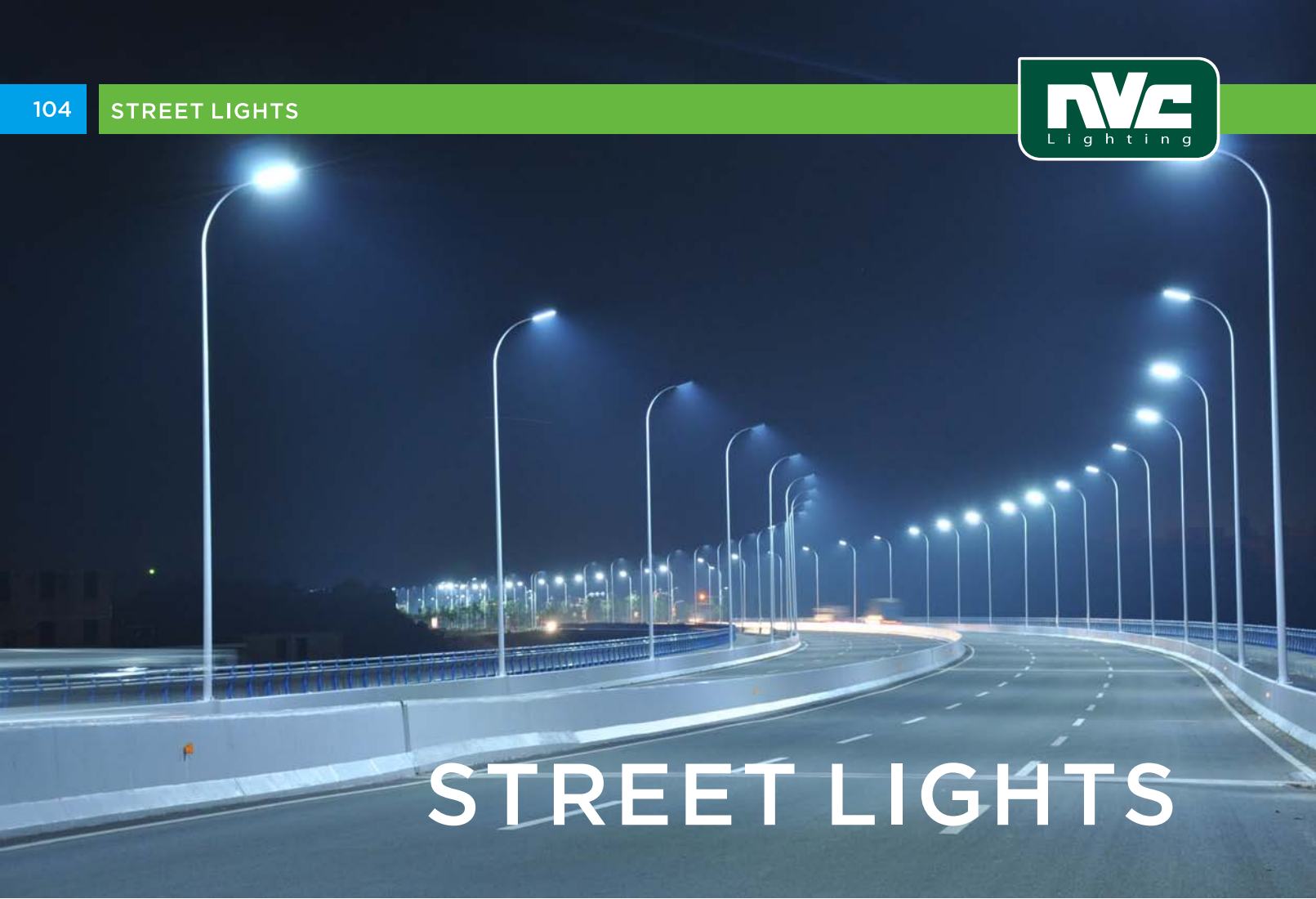
- SMD LEDs



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



105 NRWLED627



106 NRLED722



106 NRLED723



107 NRLED724



107 NRLED725



## NRWLED627



NRWLED627 100W/120W



NRWLED627 150W/180W



### APPLICATIONS

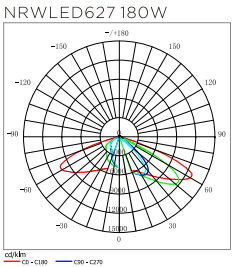
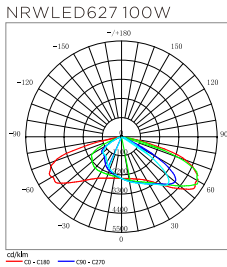
- Roads
- Car parks
- Residential areas

### CONSTRUCTION

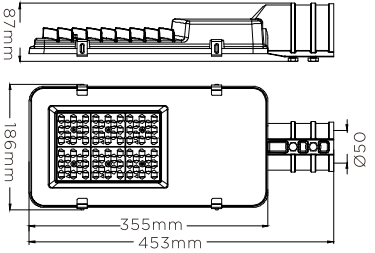
- Die-cast aluminum housing
- Powder coated surface treatment
- Tempered glass front cover
- PC lens
- Driver included
- 6KV SPD

### TECHNICAL DETAILS

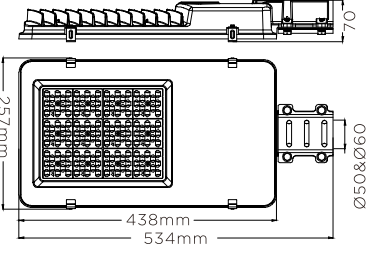
- LUMILEDS LEDs



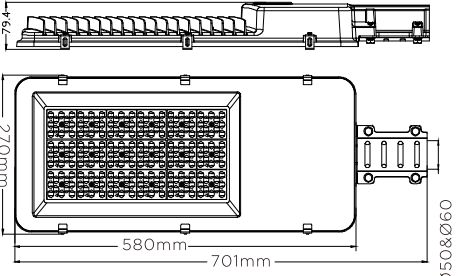
Model	Watts	Colour temp.	Lumens	CRI	PF
NRWLED627 60W	60W	3000K/4000K/5700K	6,800 lm	>70	0.9
NRWLED627 100W	100W	3000K/4000K/5700K	11,500 lm	>70	0.9
NRWLED627 120W	120W	3000K/4000K/5700K	13,300 lm	>70	0.9
NRWLED627 150W	150W	3000K/4000K/5700K	18,000 lm	>70	0.9
NRWLED627 180W	180W	3000K/4000K/5700K	20,900 lm	>70	0.9



NRWLED627 60W



NRWLED627 100W  
NRWLED627 120W



NRWLED627 150W  
NRWLED627 180W



NRLED722

NRLED723



APPLICATIONS

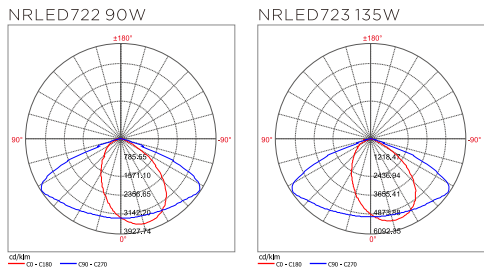
- Roads
- Car parks
- Residential areas

TECHNICAL DETAILS

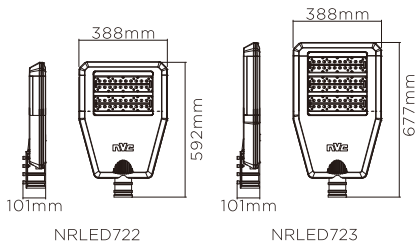
- LUMILEDS LEDs

CONSTRUCTION

- Die-cast aluminium housing
- Modular design
- PC lens
- 10KA SPD
- LED driver included
- Weight and Windage:
  - 90W, 8.5kg, 0.17m<sup>2</sup>
  - 135W, 9.2kg, 0.20m<sup>2</sup>



Model	Watts	Colour temp.	Lumens	CRI
NRLED722 90W	90W	3000K/4000K	9,860 lm	>70
NRLED723 135W	135W	3000K/4000K	15,260 lm	>70



NRLED724

NRLED725



APPLICATIONS

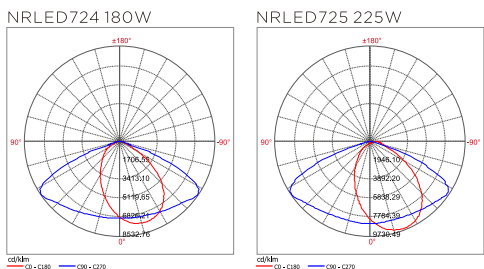
- Roads
- Car parks
- Residential areas

TECHNICAL DETAILS

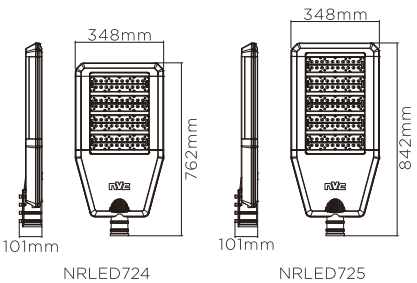
- LUMILEDS LEDs

CONSTRUCTION

- Die-cast aluminium housing
- Modular design
- PC lens
- 10KA SPD
- LED driver included
- Weight and Windage:
  - 180W, 10kg, 0.23m<sup>2</sup>
  - 225W, 11kg, 0.26m<sup>2</sup>



Model	Watts	Colour temp.	Lumens	CRI
NRLED724 180W	180W	3000K/4000K	20,880 lm	>70
NRLED725 225W	225W	3000K/4000K	25,480 lm	>70







# TUNNEL LIGHTS



109 NTLED722



109 NTLED723



109 NTLED724



## NTLED722 NTLED723 NTLED724



NTLED722



NTLED723



NTLED724



**APPLICATIONS**

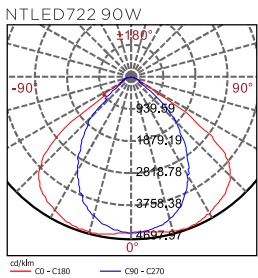
- Tunnels

**CONSTRUCTION**

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

**TECHNICAL DETAILS**

- LUMILEDS LEDs







# DRIVERS & ACCESSORIES



111 NLED-DV110\*



## NLED-DV110\* IP65

IP65 LED driver



APPLICATIONS

- For low voltage outdoor LED fittings

TECHNICAL DETAILS

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

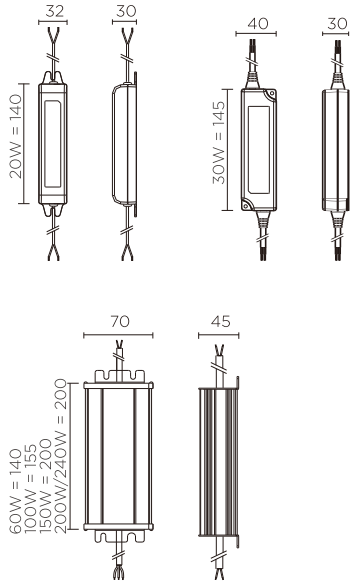
CONSTRUCTION

- 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 voltage 220-240V AC



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



It can not be dimmed.



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



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



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



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



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

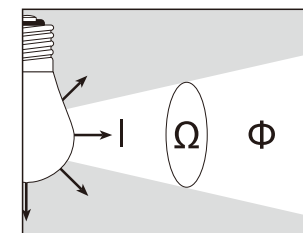
## Glossary of the Most Important Lighting Terms

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

The most important of these are described here.

### Luminous flux $\Phi$

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

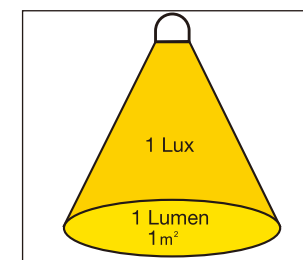


**Luminous flux  $\Phi$**   
**Luminous intensity  $I$**   
is a measure of the luminous flux  $\Phi$  emitted in solid angle  $\Phi$ .

### Illuminance $E$

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

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



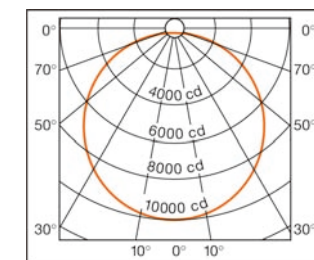
**Illuminance  $E$**

### Light and radiation

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

### Luminous intensity $I$

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

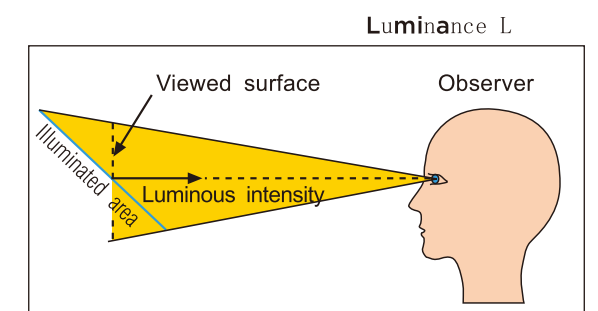


**Polar diagram**

### Luminance $L$

Unit of measurement: candela per square meter [cd/m<sup>2</sup>].

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



### The most important photometric formulae:

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





# IP Rating

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

## IP ratings explained

### “IP” (“Ingress Protection”) Rating

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

Foreign Bodies First digit		Liquids Second digit	
IP0 <sub>X</sub>	No-protection	IPX0	No-protection
IP1 <sub>X</sub>	Protected against solid objects greater than 50mm (e.g.accidental touch by hands)	IPX1	Protected against vertically falling drops of water (e.g.condensation)
IP2 <sub>X</sub>	Protected against solid objects up to 12mm (e.g.fingers)	IPX2	Protected against direct sprays of water up to 15 degrees from vertical
IP3 <sub>X</sub>	Protected against solid objects greater than 2.5mm (e.g. tools and wires)	IPX3	Protected against direct sprays of water up to 60 degrees from vertical
IP4 <sub>X</sub>	Protected against solid objects greater than 1mm (e.g. small tools and wires)	IPX4	Protected against water sprays from all directions-limited ingress permitted
IP5 <sub>X</sub>	Protected against dust,limited ingress (e.g.no harmful deposit)	IPX5	Protected against low pressure jets of water from all directions-limited ingress permitted
IP6 <sub>X</sub>	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 warning 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.

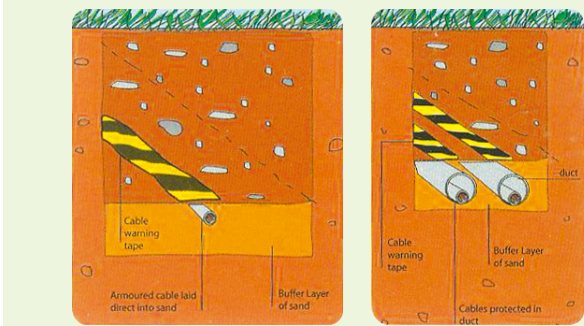
## Positioning and accessibility

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.

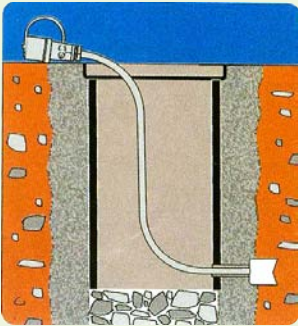
### Key points to help access to the luminaire:

- 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







LED Flood Lights	
Model	Rated life
NFDLED251	30KH
NFDLED251S	30KH
NFDLED253	30KH
NFDLED254	30KH
NFLED5001	30KH
NFLED5012	30KH
NFLED4011	30KH
NFLED4012	30KH
NFLED4013	30KH
NFLED4014	30KH

LED In-Ground Lights	
Model	Rated life
NELED4201	30KH
NELED4203	30KH
NELED4204	30KH
NELED4206	30KH
NELED4501C	30KH
NELED4212A	30KH

LED Underwater Lights	
Model	Rated life
NULED4330	30KH
NSLED4321	30KH
NSLED4310	30KH
NSLED4315	30KH
NSLED4312	30KH

LED Bollards	
Model	Rated life
NGLED5613	30KH
NGLED5653	30KH
NGLED5663	30KH
NGLED5612	30KH
NGLED5615	30KH
NBLLED353	30KH
NBLLED354	30KH

LED Post Top Lights	
Model	Rated life
NPTLED351	30KH
NPTLED352	30KH
NPTLED353	30KH
NPTLED354	30KH

LED Surface Wall Lights	
Model	Rated life
NWLED3531	30KH
NWLED5512	30KH
NWLED5513	30KH
NWLED3543	30KH
NWLED3544	30KH
NWMLED352	30KH
NWMLED353	30KH
NWMLED354	30KH
NWLED3505	30KH
NWLED5541R	30KH
NWLED3501A	30KH
NWM355	30KH

LED Recessed Wall Lights	
Model	Rated life
NWLED5561	30KH
NWLED5566	30KH
NWLED5571A	30KH
NWLED5572A	30KH
NWLED4522	30KH

LED Canopy Lights	
Model	Rated life
NCLED5771	30KH
NCLED5772	30KH
NLEDM934R	30KH
NLEDM3301	30KH
NLEDM3302	30KH
NCNLED301	30KH

LED Industrial Lights	
Model	Rated life
NHBLED304	30KH
NHBLED304E	30KH
NHBLED303	30KH
NLED49*	30KH
NLBLED401	30KH
NLED492N	30KH
NLBLED405	30KH

LED Street Lights	
Model	Rated life
NRLED722	30KH
NRLED723	30KH
NRLED724	30KH
NRLED725	30KH
NRWLED627	30KH

LED Tunnel Lights	
Model	Rated life
NTLED722	30KH
NTLED723	30KH
NTLED724	30KH

LED Drivers	
Model	Rated life
NLED-DV110*	30KH







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Bahrain
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Palestine

Contact details

Regional offices

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Sao Paulo-SP  
CNPJ: 19.356.978/0001-19  
Tel:+55 11 44352603; +55 11 27686961  
Web:www.nvc-lighting.com.br

**Singapore**

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