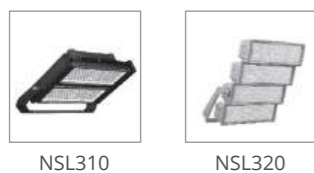


OUTDOOR

79-92 LED Flood Light



93-95 LED Stadium/Sport/Golf Light



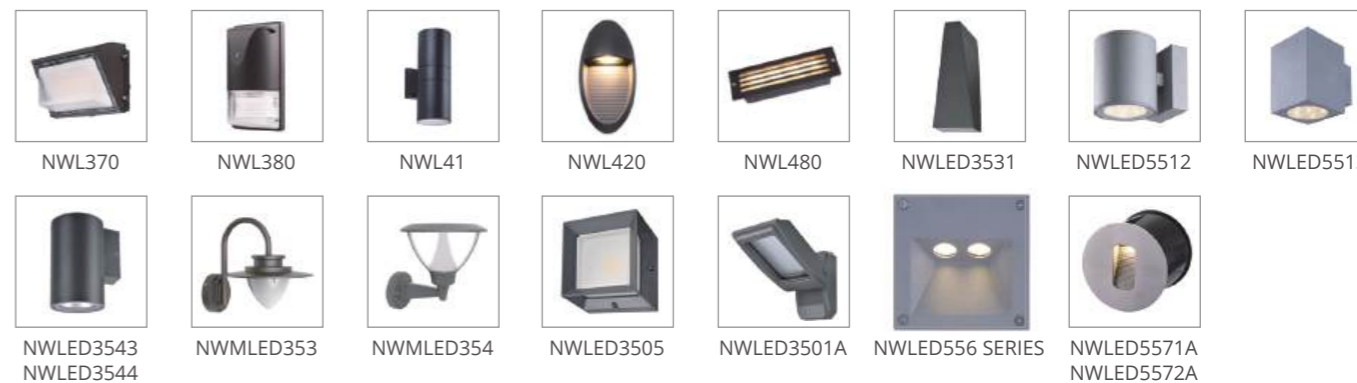
96-102 LED In-Ground Light



103-106 LED Underwater Light



107-122 LED Wall Light



123-130 LED Bollard Light



131-133 LED Canopy Light



134-140 LED Industrial High/Low bay Light



141-143 LED Post-top Light



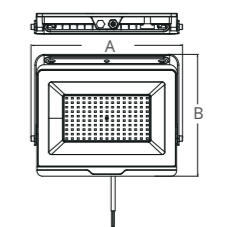
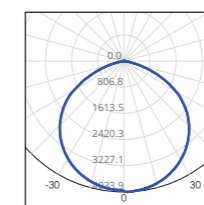
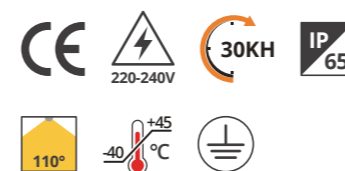
144-147 LED Street Light





LED Flood Light

NFD271



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

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

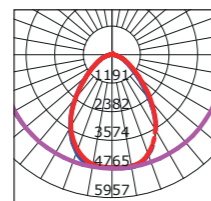
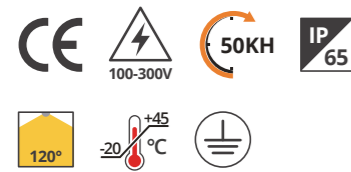
- 2835 LEDs
- CRI ≥80
- CCT available: 4000K/6500K
- Operation Temperature: -40°C-45°C

APPLICATIONS

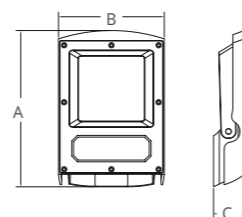
- Security lighting
- Landscape areas
- Sports facilities
- Industrial premises
- Building facades

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

NFD316



NFD316 100W



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

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

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

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

NFDLED251

COB LED flood light

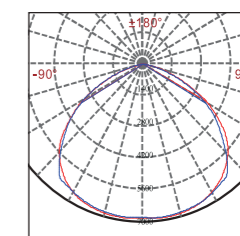


CONSTRUCTION

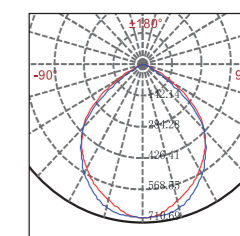
- Die-cast aluminium housing
- Aluminium 6063 reflector
- Powder coated surface treatment
- Driver included
- Complete with a IP65 cable gland, and pre-wired 3x1.0mm2 H05RN
- Weight and windage:
 - 20W, 0.83kg, 0.03m2
 - 40W, 1.92kg, 0.07m2
 - 60W and 80W, 2.67kg, 0.08m2
 - 100W, 3kg, 0.1m2
 - 160W,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

PRODUCT BENEFITS

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



NFDLED251 200W



NFDLED251 20W

TECHNICAL DETAILS

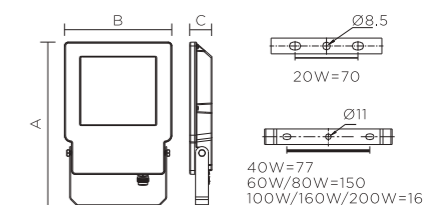
- COB LEDs
- CRI ≥80
- CCT available: 3000K/4000K/6500K

APPLICATIONS

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

OPTIONS

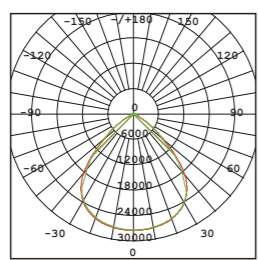
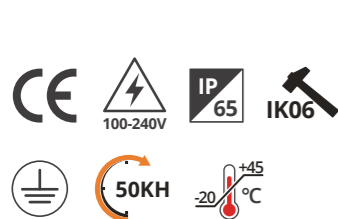
- Sensor: Optional PIR sensor



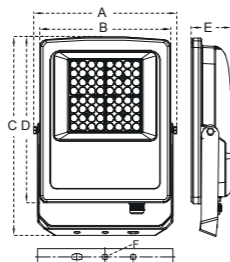
Watts	A	B	C
20W	228	149	42
40W	331	217	45
60/80W	365	245	52
100W	369	275	52
160W	439	303	60
200W	592	376	67

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

NFL258S



NFL258S 300W 5700K



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

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

CONSTRUCTION

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

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

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

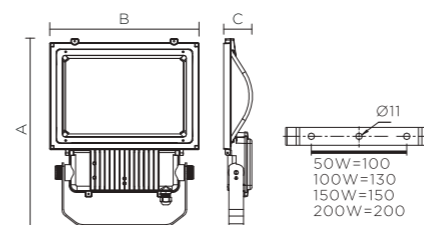
NFDLED253



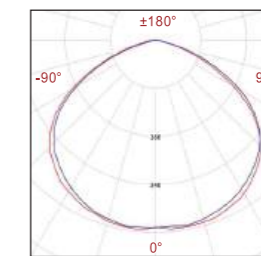
Optional PIR sensor

100W

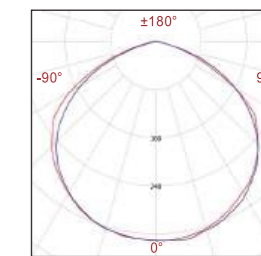
200W



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



NFDLED253 100W



NFDLED253 150W

CONSTRUCTION

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

TECHNICAL DETAILS

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

OPTIONS

- Sensor: Optional PIR sensor

APPLICATIONS

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

PRODUCT BENEFITS

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

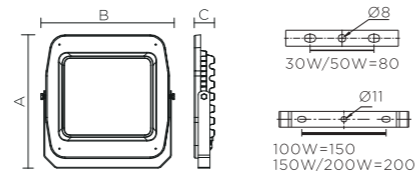
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NFDLED253 50W	70077558/59	110-240V	50W	4000K / 6500K	4920 lm	98	80	120°	0.95	30000hrs
NFDLED253 100W	70077561/62		100W		9250 lm	93				
NFDLED253 150W	70077564/65		150W		13560 lm	90				
NFDLED253 200W	70077567/68		200W		18650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

NFDLED254

Slim and cost-effective LED flood light



30W



CONSTRUCTION

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

TECHNICAL DETAILS

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

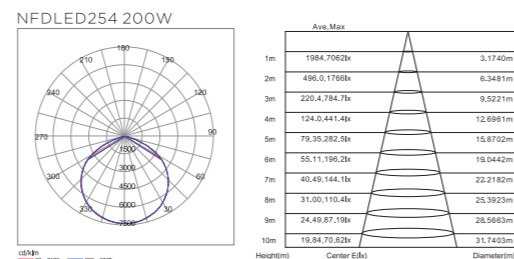
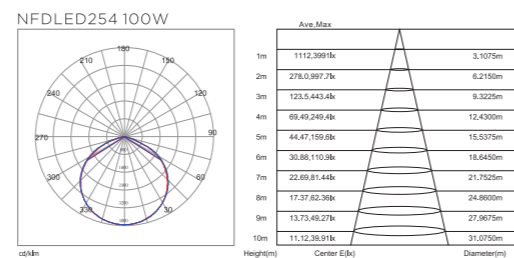
Watts	A	B	C
30W	176	176	38
50W	208	208	45
100W	322	322	52
150W	364	364	57
200W	410	410	62

APPLICATIONS

- Landscape
- Wall washer
- Gardens

PRODUCT BENEFITS

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



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

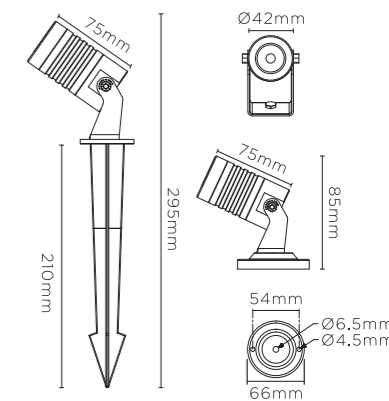
NFLED4011

Landscape flood light



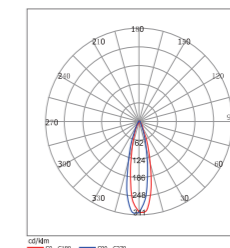
NFLED4011

NFLED4011-1



NFLED4011-1

NFLED4011



Height	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



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)

APPLICATIONS

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

PRODUCT BENEFITS

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

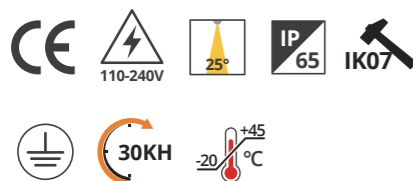
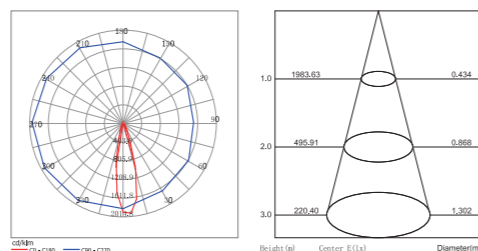
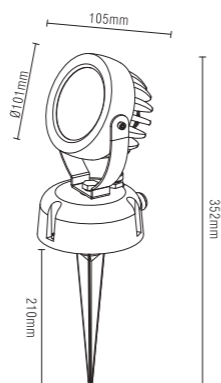
TECHNICAL DETAILS

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

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

NFLED5001

Landscape flood lights



CONSTRUCTION

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

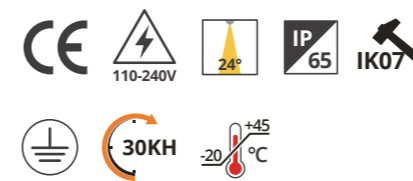
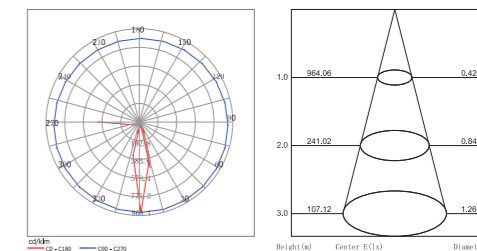
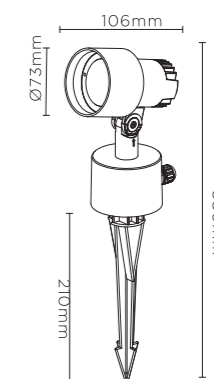
APPLICATIONS

- Lawns
- Paths
- Gardens

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

NFLED5012

Landscape flood lights



CONSTRUCTION

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

- Lawns
- Paths
- Gardens

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

NFLED4012/NFLED4013

Landscape high power flood lights

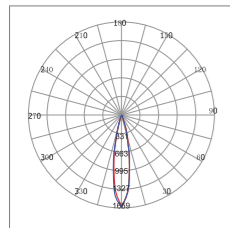


NFLED4012

NFLED4013



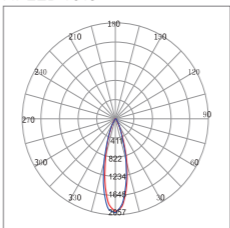
NFLED4012



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

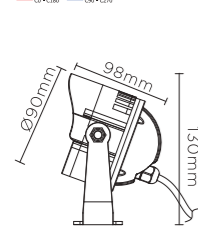
Vert. Spread: 19.7 Horiz. Spread: 19.3

NFLED4013



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

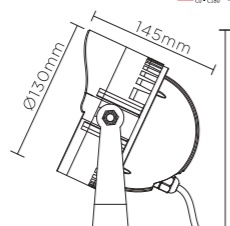
Vert. Spread: 28.2 Horiz. Spread: 27.9



NFLED4012
Windage: 0,008m²
Weight: 0.9kg



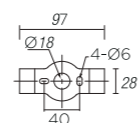
Spike
(Not included)



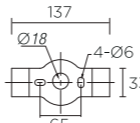
NFLED4013
Windage: 0,017m²
Weight: 1.7kg



Spike
(Not included)



NFLED4012

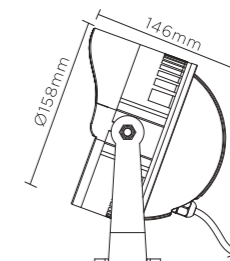


NFLED4013

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

NFLED4014

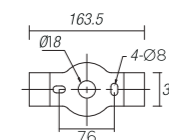
Landscape high power flood lights



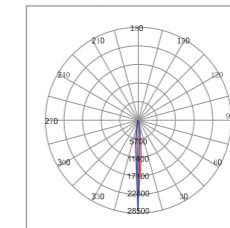
NFLED4014
Windage: 0,025m²
Weight: 2.4kg



Spike
(Not included)



NFLED4014



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

Vert. Spread: 6.9 Horiz. Spread: 6.7

CONSTRUCTION

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

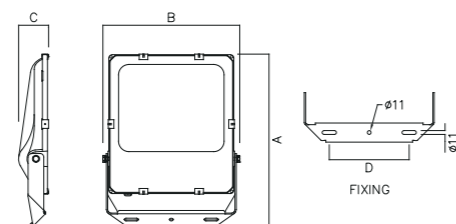
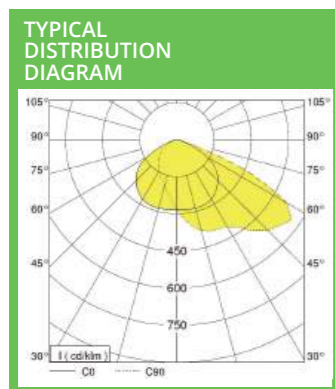
APPLICATIONS

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

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

LYNX

Premium IP66 aluminium diecast asymmetric floodlight



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

TECHNICAL DETAILS

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

CONSTRUCTION

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

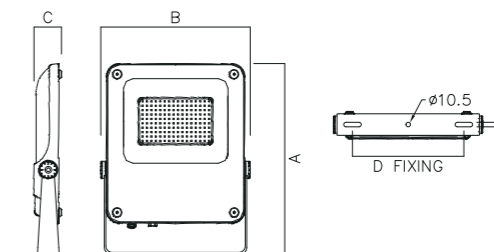
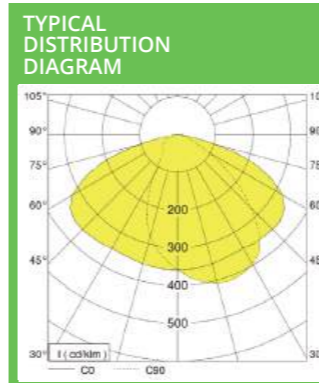
APPLICATIONS

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

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

COUGAR

IP65 aluminium diecast asymmetric floodlight



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

TECHNICAL DETAILS

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

CONSTRUCTION

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

APPLICATIONS

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

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

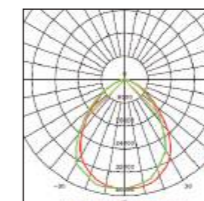


LED Stadium/Sport/Golf Light

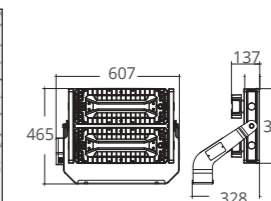
NSL310



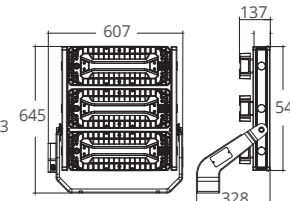
600W



600W



600W



900W

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

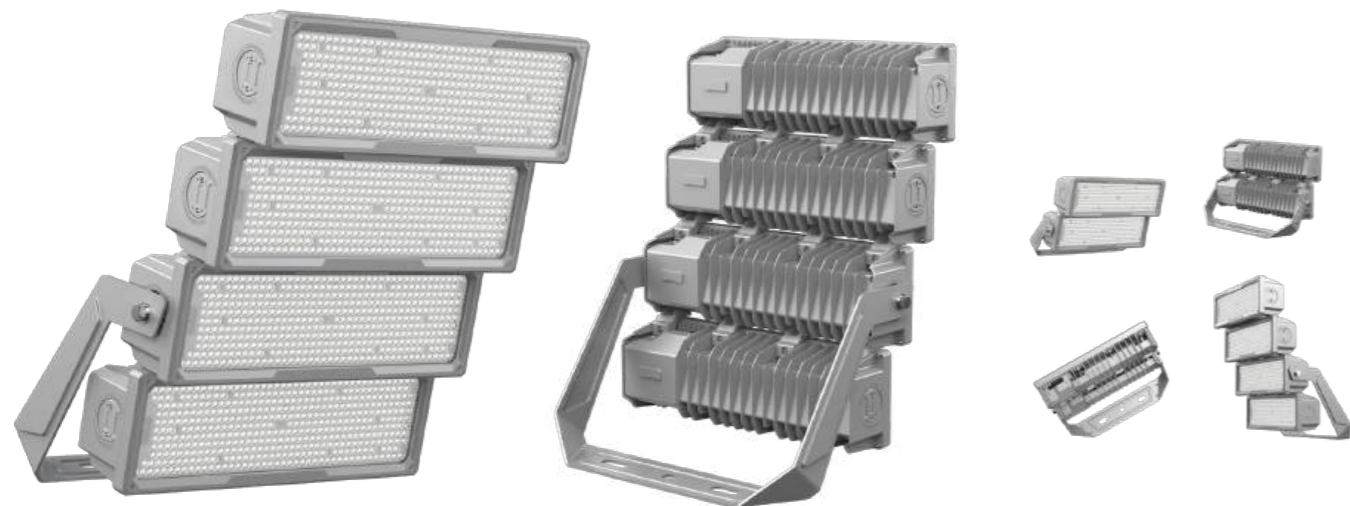
- SMD LEDs
- CRI ≥70
- Driver PF ≥0.95
- Operation Temperature: -30°-50°
- 0-10V dimming
- Beam angle available: 30°/60°/90°/120°

APPLICATIONS

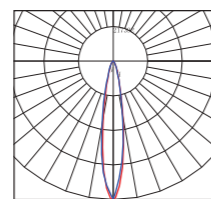
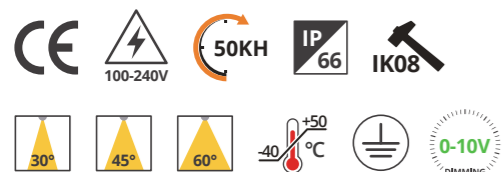
- Sport fields
- Stadium
- Golf fields
- Area lighting
- Mining industry lighting
- Horse racing track
- Harbor areas

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

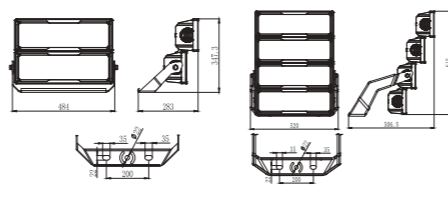
NSL320



1000W



NSL320



500W dimensions

1000W dimensions

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

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

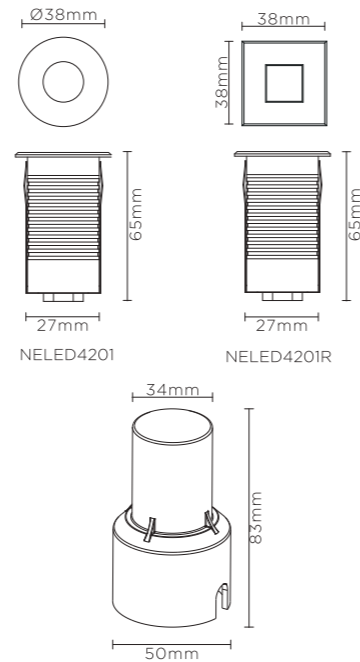
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NSL320 500W	87003123	100-240V	500W	6500K	80000lm	160	70	30°	0.95	50000hrs
	87003124							45°		
	87003125							60°		
NSL320 1000W	87003126	100-240V	1000W	6500K	160000lm	160	70	30°	0.95	50000hrs
	87003127							45°		
	87003128							60°		

LED In-Ground Light



NELED4201

Low wattage in-ground lights



CONSTRUCTION

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

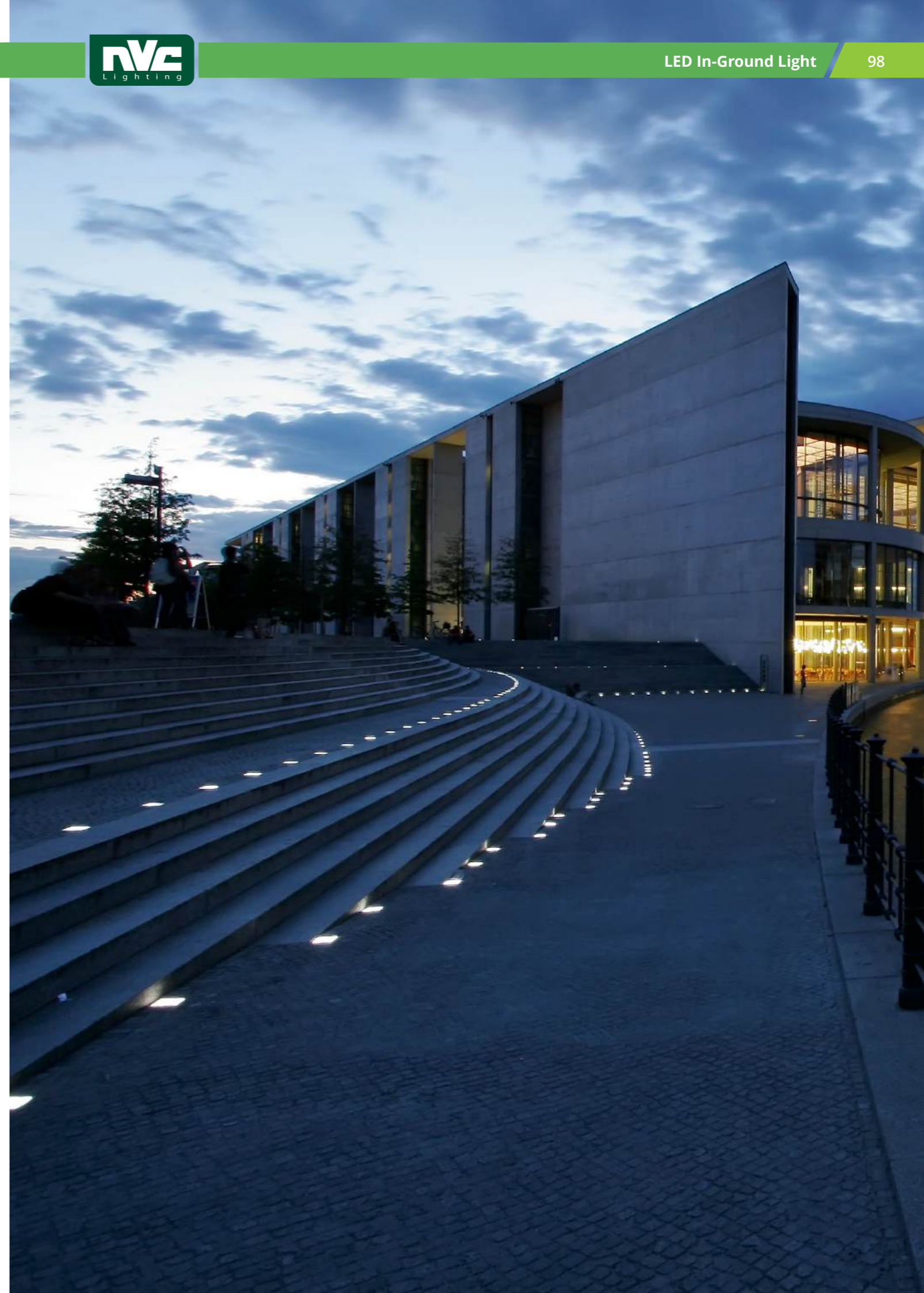
APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks



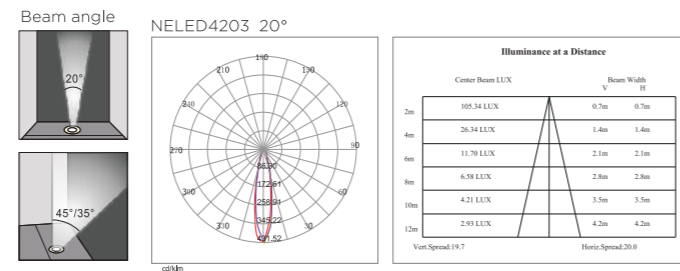
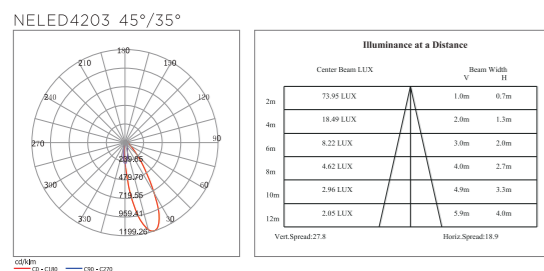
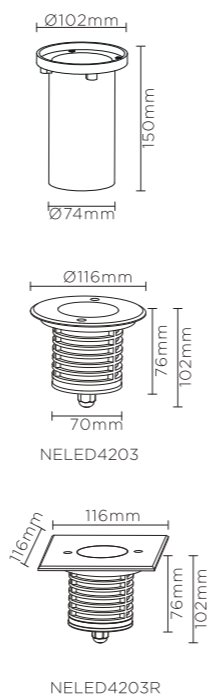
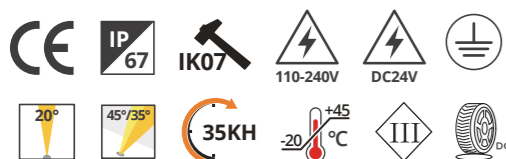
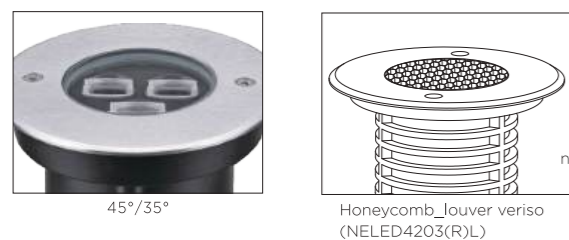
Driver: Choice of separate DC 24V IP65 driver (separate driver not included)
 Connector: Choice of two types of IP67 connector, straight (type I) or (Type T)

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



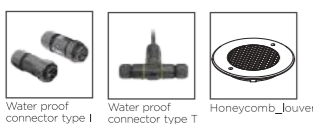
NELED4203

High power LEDs IP67 in-ground lights



CONSTRUCTION

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



PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

OPTIONS

- Version: Choice of the tempered glass version or honeycombjouwer versio
- 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 louwer

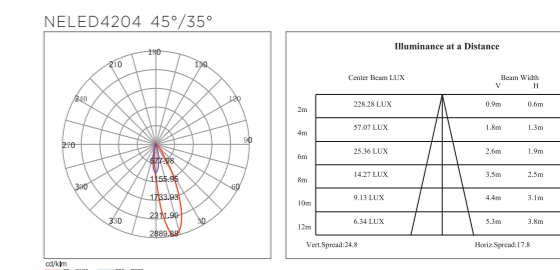
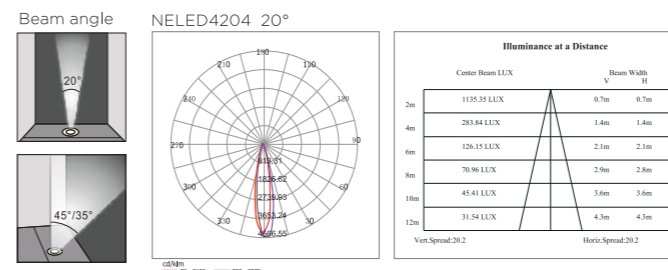
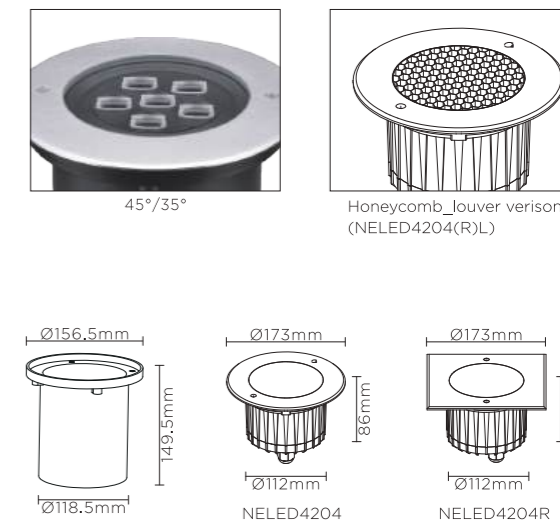
APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

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

NELED4204

High power LEDs IP67 in-ground lights



CONSTRUCTION

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



PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

OPTIONS

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

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks

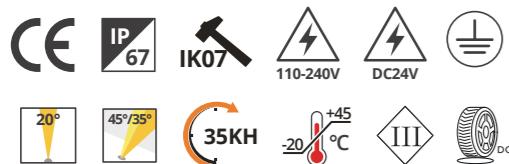
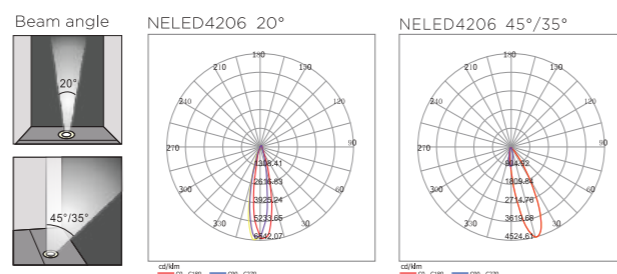
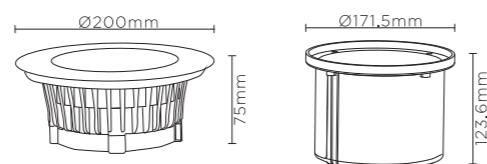
Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NELED4204 (R)	87003401	DC24V	13W	3000K	995 lm	80	20° (selectable 45/35°)	N/A	35000hrs
NELED4204 (R)	87003402			5700K	1050 lm				
NELED4204 (R)	87003403	110-240V	13W	3000K	995 lm				
NELED4204 (R)	87003404			5700K	1050 lm				

NELED4206

High power LEDs IP67 in-ground lights



45°/35°



CONSTRUCTION

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

OPTIONS

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

APPLICATIONS

- Outdoor decorative lighting
- Paths
- Squares and parks



Water proof connector type I Water proof connector type T

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

NELED4212

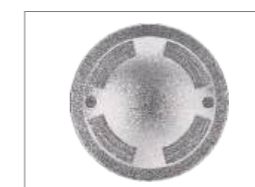
Side light output IP67 in-ground lights



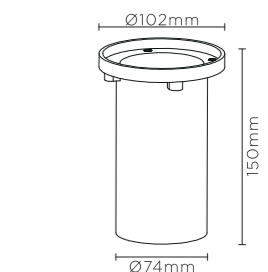
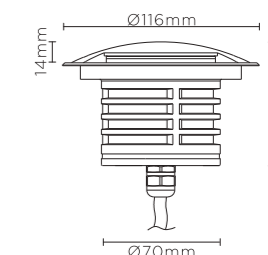
NELED4212A



NELED4212B



NELED4212D



CONSTRUCTION

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

PRODUCT BENEFITS

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

OPTIONS

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



Water proof connector type I Water proof connector type T

TECHNICAL DETAILS

- SMD LEDs
- CRI≥80
- CCT : 3000K

APPLICATIONS

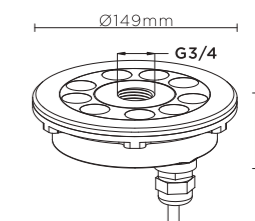
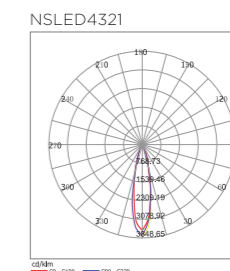
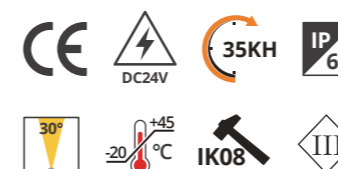
- Outdoor decorative lighting
- Paths
- Squares and parks

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



LED Underwater Light

NSLED4321 IP68 LED fountain lights



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

OPTIONS

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

APPLICATIONS

- Fountains
- Underwater decorations

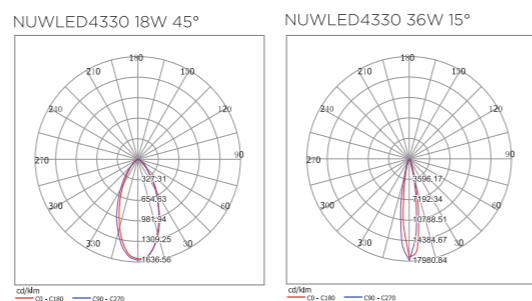
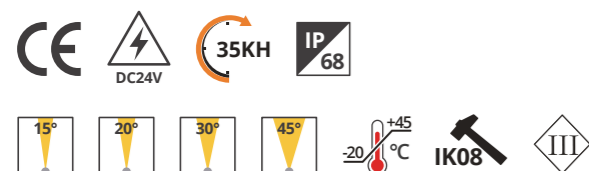
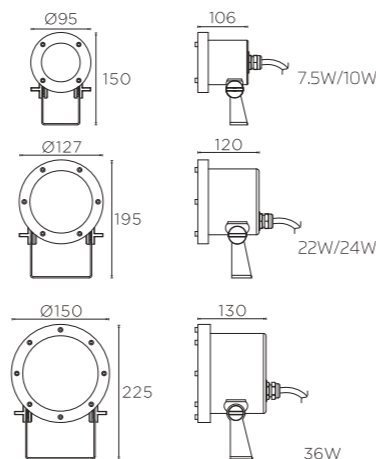
WARNING

- Must be installed underwater to prevent over-heating

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

NUWLED4330

Adjustable IP68 underwater lights



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

OPTIONS

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

APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

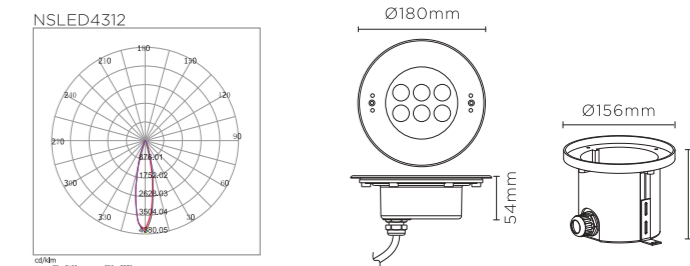
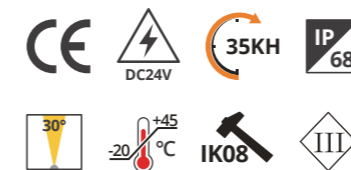
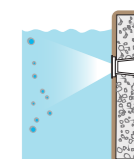
WARNING

- Must be installed underwater to prevent over-heating

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

NSLED4312

Recessed mounting IP68 underwater lights



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

OPTIONS

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

APPLICATIONS

- Swimming pools
- Fountains
- Underwater decorations

WARNING

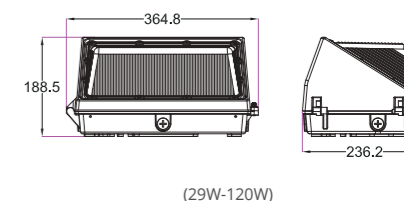
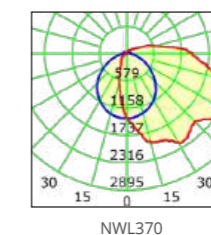
- Must be installed underwater to prevent over-heating

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



LED Wall Light

NWL370



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

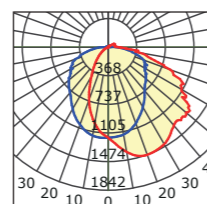
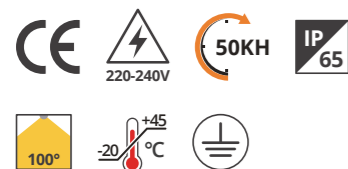
- CRI ≥80
- CCT available: 3000K or 5000K
- Driver PF ≥0.9
- Operation Temperature: -20°C ~+45°C

APPLICATIONS

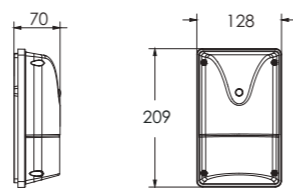
- Commercial exterior use on buildings and entrances
- Courtyard
- Commercial industrial use
- Outdoor landscape
- Hotels
- Wall areas

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

NWL380



NWL380



(15W-30W)

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

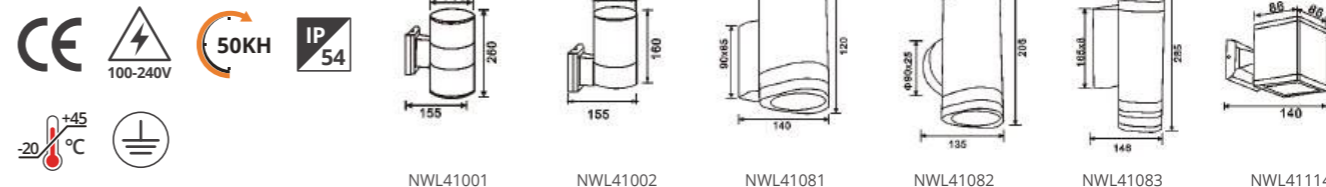
- CRI ≥80
- CCT available:3000K/5000K
- Driver PF ≥0.9
- Operation Temperature: -20°C ~+45°C

APPLICATIONS

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

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

NWL41



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

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

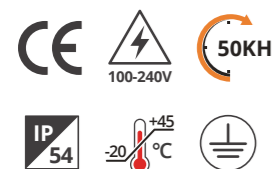
Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	PF	Lifetime
NWL41001 (Black)	87003153	100-240V	2*7W	3000K	980lm	80	0.9	50000hrs
	87003154			6000K				
NWL41001 (Grey)	87003155			3000K				
	87003156			6000K				
NWL41002 (Black)	87003157		7W	3000K	490lm			
	87003158			6000K				
	87003159			3000K				
NWL41081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



NWL420



NWL42003 NWL42004 NWL42024 NWL42037 NWL42038



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

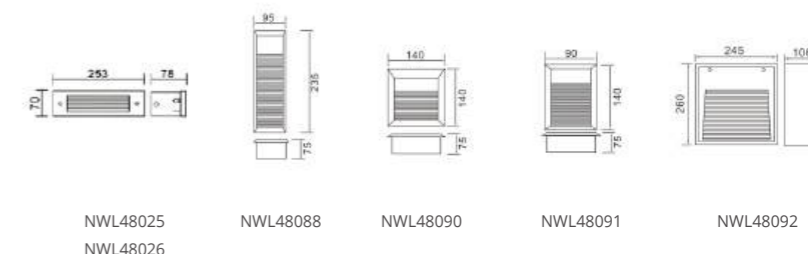
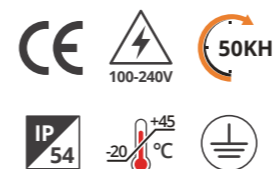
- Corridors
- Hotels
- Apartments
- Restaurants
- Gardens
- Villas

Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	PF	Lifetime
NWL42003 (Black)	87003177	100-240V	6W	3000K	420lm	70	80	0.9	50000hrs
	87003178			6000K					
	87003179			3000K					
NWL42003 (Grey)	87003180			6000K					
	87003181			3000K					
	87003182			6000K					
NWL42004 (Black)	87003183		6W	3000K	420lm				
	87003184			6000K					
	87003185			3000K					
NWL42004 (Grey)	87003186			6000K					
	87003187			3000K					
	87003188			6000K					
NWL42024 (Black)	87003189	12W	3000K	840lm					
	87003190		6000K						
	87003191		3000K						
NWL42024 (Grey)	87003192		6000K						
	87003193		3000K						
	87003194		6000K						
NWL42037 (Black)	87003195	3W	3000K	210lm					
	87003196		6000K						
	87003197		3000K						
NWL42037 (Grey)	87003198		6000K						
	87003199		3000K						
	87003200		6000K						
NWL42038 (Black)	87003201	3W	3000K	210lm					
	87003202		6000K						
	87003203		3000K						
NWL42038 (Grey)	87003204		6000K						
	87003205		3000K						
	87003206		6000K						

NWL480



NWL48025 NWL48026 NWL48088 NWL48090 NWL48091 NWL48092



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

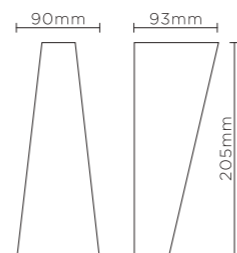
- COB LEDs
- CRI ≥80
- CCT available: 3000K/6000K
- Driver PF≥0.9,
- Operation Temperature: -20°C ~+45°C

APPLICATIONS

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

Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	PF	Lifetime
NWL48025 (Black)	87003129	100-240V	18W	3000K	1260lm	80	0.9	50000hrs
	87003130			6000K				
	NWL48025 (Grey)			87003131				
87003132				6000K				
87003133				3000K				
NWL48026 (Black)	87003134			18W				
	87003135		3000K					
	87003136		6000K					
NWL48026 (Grey)	87003137		3000K					
	87003138		6000K					
	87003139		3000K					
NWL48088 (Black)	87003140		6W	6000K	420lm			
	87003141			3000K				
	87003142			6000K				
NWL48088 (Grey)	87003143			3000K				
	87003144			6000K				
	87003145			3000K				
NWL48090 (Black)	87003146		6W	6000K	420lm			
	87003147			3000K				
	87003148			6000K				
NWL48090 (Grey)	87003149			3000K				
	87003150			6000K				
	87003151			3000K				
NWL48091 (Black)	87003152		3W	6000K	210lm			
	87003153	3000K						
	87003154	6000K						
NWL48091 (Grey)	87003155	3000K						
	87003156	6000K						
	87003157	3000K						
NWL48092 (Black)	87003158	24W	6000K	1680lm				
	87003159		3000K					
	87003160		6000K					
NWL48092 (Grey)	87003161		3000K					
	87003162		6000K					
	87003163		3000K					

NWLED3531



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

- Wall decorations
- Corridors
- Balconies

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

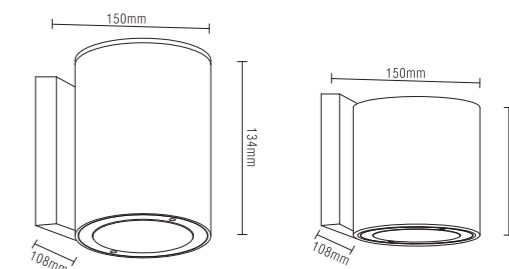
NWLED5512



NWLED5512-1



NWLED5512-2



NWLED5512-1

NWLED5512-2

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

- Wall decorations
- Corridors
- Columns

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

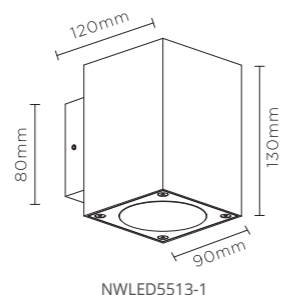
NWLED5513



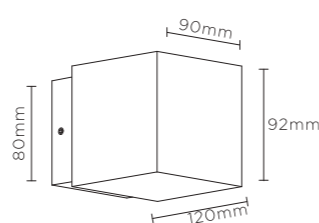
NWLED5513-1



NWLED5513-2



NWLED5513-1



NWLED5513-2



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

- Wall decorations
- Corridors
- Columns

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

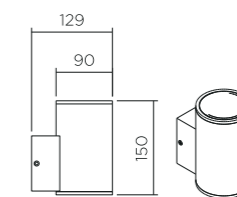
NWLED3543/NWLED3544



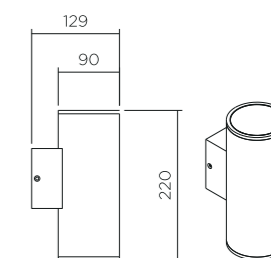
NWLED3543



NWLED3544



NWLED3543



NWLED3544

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

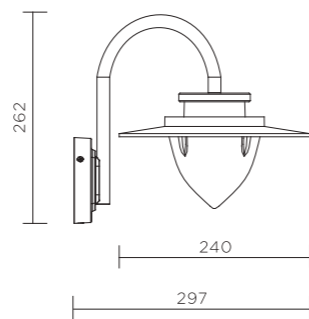
- COB LEDs
- CRI≥80
- CCT available: 3000K/6500K
- Beam angle: 40°

APPLICATIONS

- Wall decorations
- Corridors
- Balconies

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

NWMLLED353



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

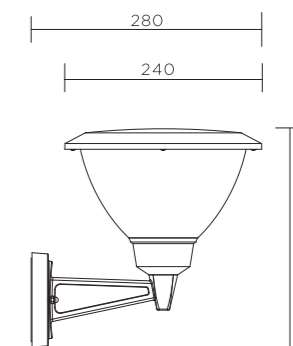
- Wall decorations
- Corridors
- Columns

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

NWMLLED354



NBLLED354



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

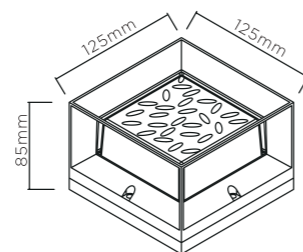
- COB LEDs
- CRI≥80
- CCT available: 3000K/4000K/6500K
- Beam angle: 150°

APPLICATIONS

- Lawns
- Gardens
- Paths

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

NWLED3505



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

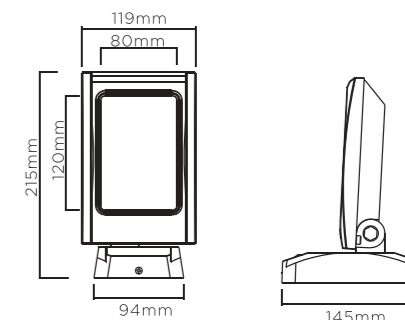
- COB LEDs
- CRI≥80
- CCT available: 3000K/5700K
- Beam angle: 95°

APPLICATIONS

- Wall decorations
- Corridors

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

NWLED3501A



FEATURES

- Die-cast aluminium housing
- Frosted tempered glass cover
- Powder coated surface treatment
- LED driver included
- Supplied with 3x1.0m² wire
- Choice of three finishes:
 - Dark grey (similar to RAL 7037)
 - Black (optional color)
 - Light grey (optional color)

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

- Wall decorations
- Corridors

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

NWLED556 SERIES



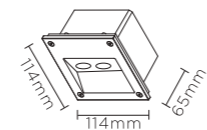
NWLED5561



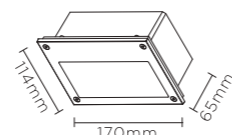
NWLED5562



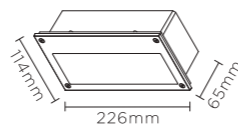
NWLED5563



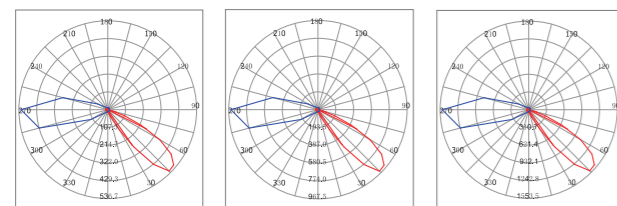
NWLED5561



NWLED5562



NWLED5563



NWLED5561

NWLED5562

NWLED5563

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

- Lawns
- Gardens
- Paths

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

NWLED5571A

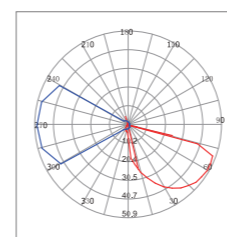
NWLED5572A



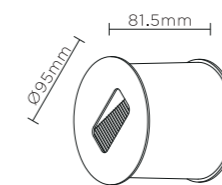
NWLED5571A



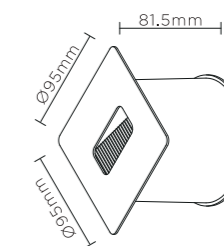
NWLED5572A



NWLED5571A



NWLED5571A



NWLED5572A

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

- Wall decorations
- Corridors
- Wall decorations

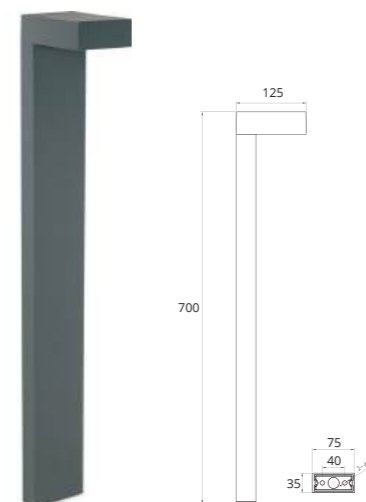
Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	Beam Angle	PF	Lifetime
NWLED5571A	87003449	110-240V	3W	3000K	54 lm	80	65°	≥0.45	30000hrs
	87003450			6000K	59 lm				
NWLED5572A	87003451		3W	3000K	54 lm				
	87003452			6000K	59 lm				



Bollard Light



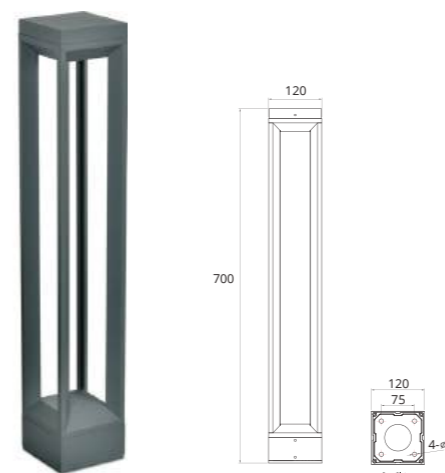
NBL355



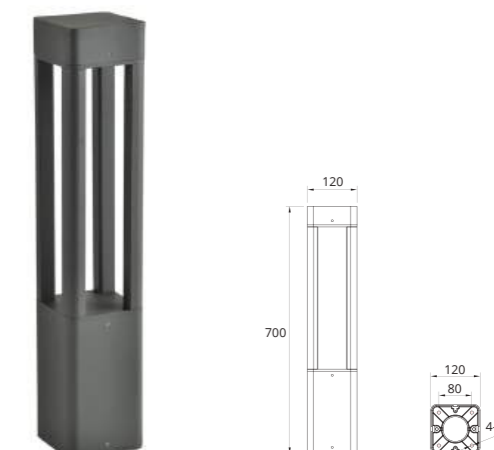
NBL3551 5W



NBL3552 7W / NBL3553 9W



NBL3554 10W



NBL3555 10W



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

- High power LEDs
- CRI ≥80
- SDCM<5

APPLICATIONS

- Gardens
- Paths
- Lawns

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



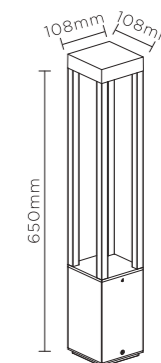
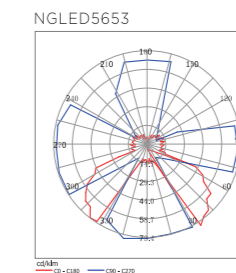
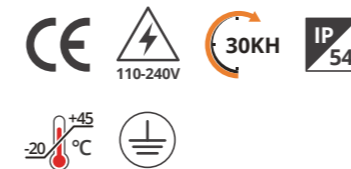
NGLED5653



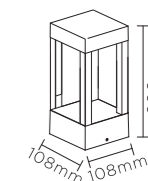
NGLED5653-2



NGLED5653-1



NGLED5653-1



NGLED5653-2

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

- Lawns
- Gardens
- Paths

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



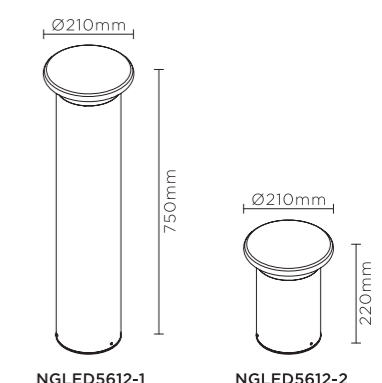
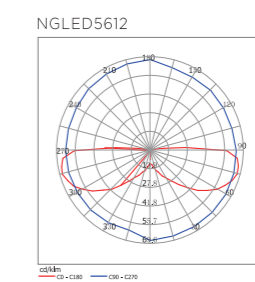
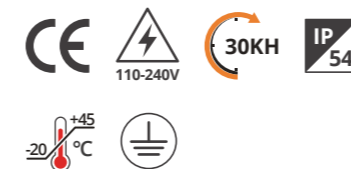
NGLED5612



NGLED5612-2



NGLED5612-1



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

- Lawns
- Gardens
- Paths

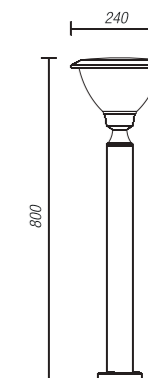
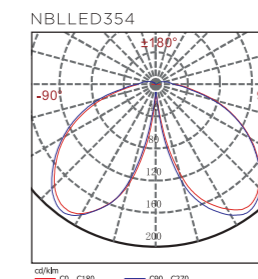
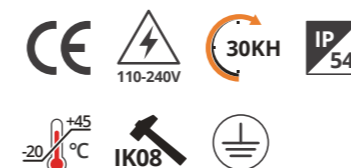
Model	Part Number	Voltage	Wattage	CCT	Lumen	CRI	PF	Lifetime
NGLED5612-1	87003430	110-240V	12W	3000K	253lm	80	0.85	30000hrs
NGLED5612-1	87003431			6000K	275lm			
NGLED5612-2	87003432			3000K	253lm			
NGLED5612-2	87003433			6000K	275lm			



NGLED354



NWMLLED354



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

- Lawns
- Gardens
- Paths

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



LED Canopy Light

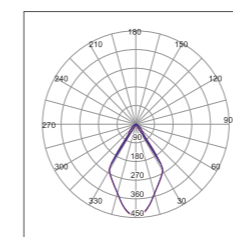
NLEDM3301/NLEDM3302



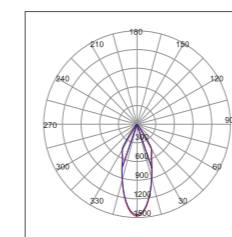
NLEDM3302



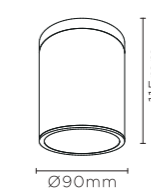
NLEDM3301



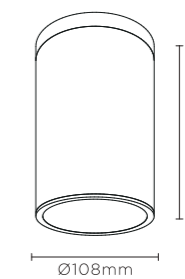
NLEDM3301 8W



NLEDM3302 12W



NLEDM3301



NLEDM3302

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

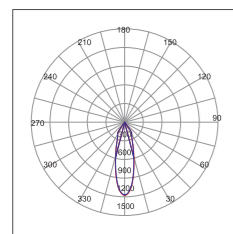
- COB LEDs
- CRI≥80
- CCT:3000K
- Optional CCT: 4000K/6500K

APPLICATIONS

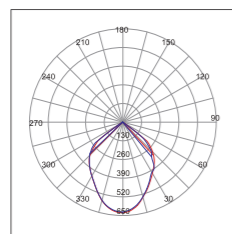
- Porches + entrances
- Corridors
- Under-canopy lighting

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

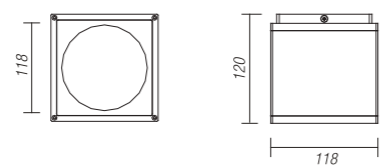
NCNLED301



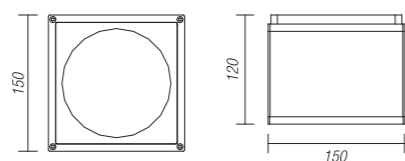
NCNLED301 8W



NCNLED301 12W



NCNLED301 8W



NCNLED301 12W

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

- Porches + entrances
- Corridors
- Under-canopy lighting



LED Industrial High/Low bay Light



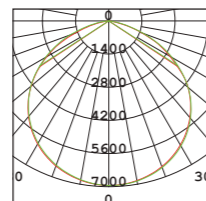
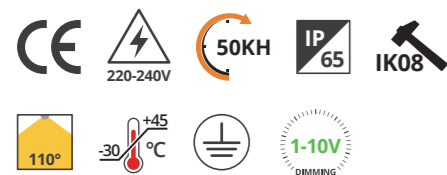
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NCNLED301	70090547	110-240V	8.5W	3000K	650 lm	76	80	35°	≥0.9	30000hrs
	87003453		13W	(Selectable 4000K/6500K)	1100 lm	85		85°		



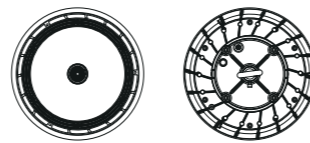
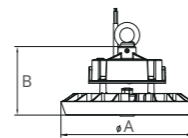
NHB383



NHB383 120W



NHB383 120W



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

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

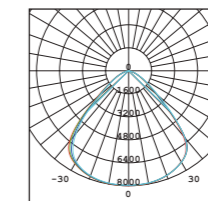
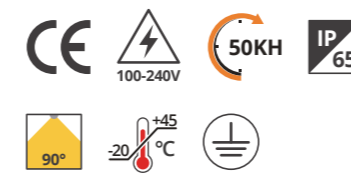
- SMD LEDs
- CRI≥80
- CCT available: 4000K/6500K
- Driver PF≥0.9
- No flicker driver design
- 1-10V dimming
- Operation Temperature: -30°C~+45°C
- IK08 rating
- IP65 rating

APPLICATIONS

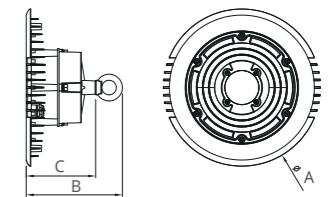
- Gym
- Warehouse
- Factory
- Indoor space
- Operation center

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

NHB308



NHB308 120W



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

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

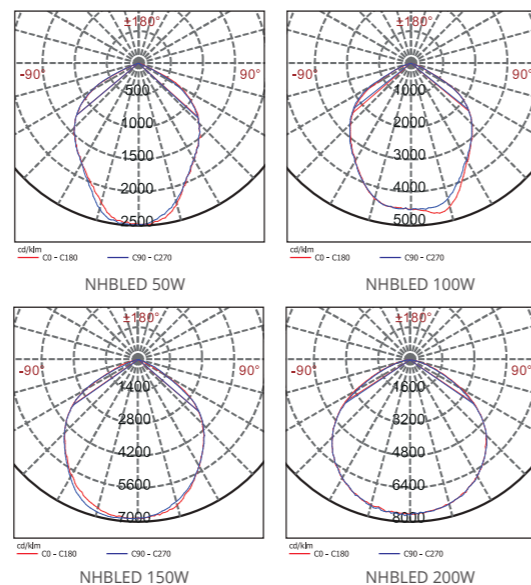
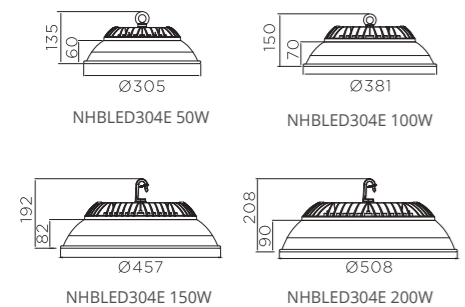
- Warehouses & Storage
- Industrial Facilities
- Sports Facilities
- Manufacturing Facilities
- Gymnasiums
- Airports
- Retail Centers

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



NHBLED304E

Cost-effective DOB highbay



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

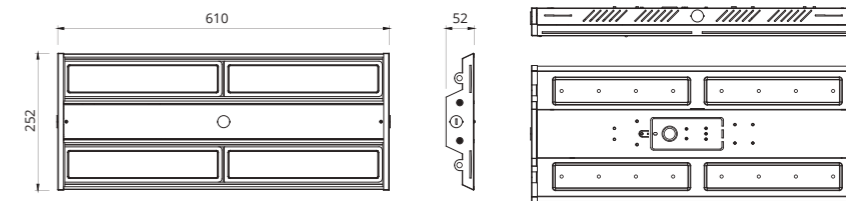
- Industrial production areas
- Warehouses
- Exhibition halls

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



KELSO

LED Low-Bay



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

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

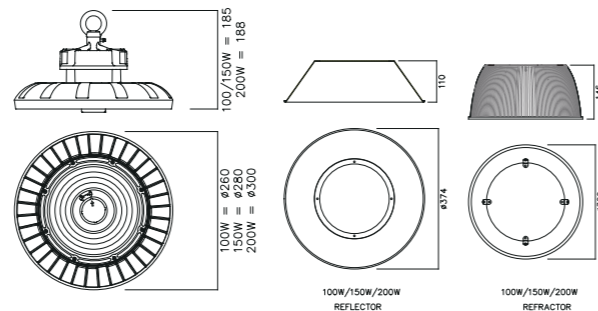
Model	Part Number	Voltage	Wattage	CCT	Lumen	LM/W	CRI	Beam Angle	PF	Lifetime
NKE100/840	87003322	220-240V	100W	4000K	15000 lm	150	≥80	110°	≥0.9	50000hrs
NKE135/840	87003323		135W		20250 lm					
NKE100/865	87003324		100W	6500K	15000 lm					
NKE135/865	87003325		135W		20250 lm					

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



JUPITER

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



CONSTRUCTION

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

TECHNICAL DETAILS

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

APPLICATIONS

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

OPTIONS

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

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



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



FULLY PROGRAMMABLE VIA REMOTE HANDSET



DETECTION RANGE

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

HOLD TIME

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



STAND-BY DIMMING LEVELS

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

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

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

ATTACHMENTS

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



REFRACTORS

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



REFLECTORS

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

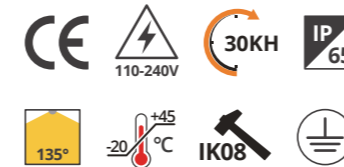
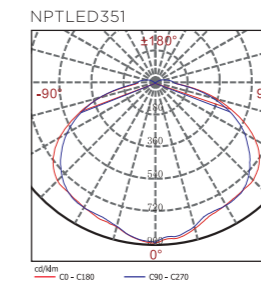
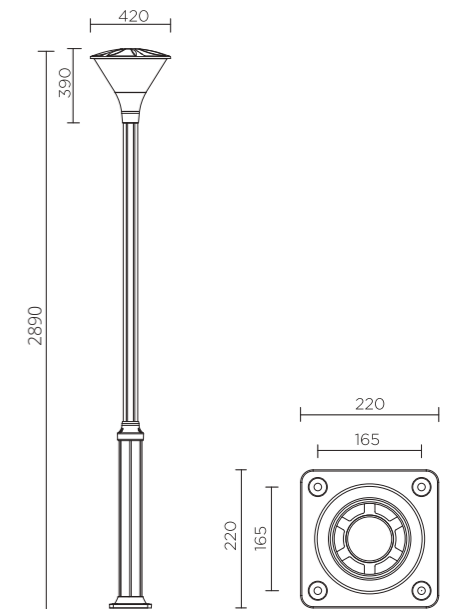


STIRRUP MOUNTING BRACKET

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

LED Post-top Light

NPTLED351



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

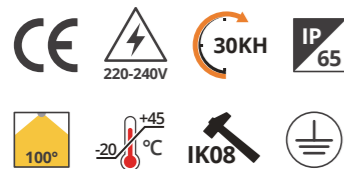
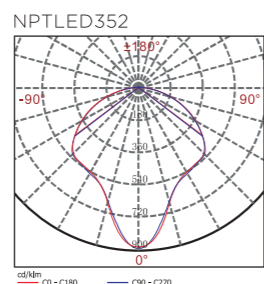
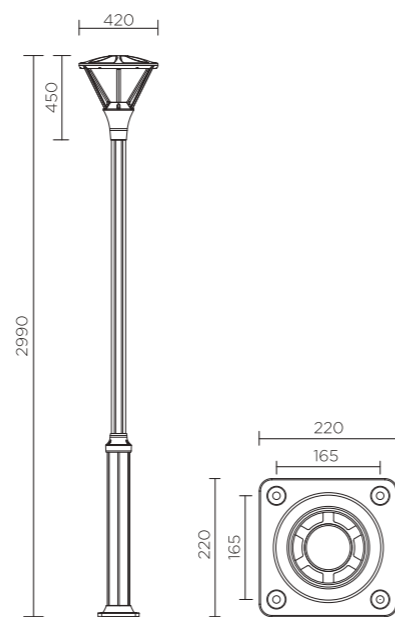
- COB LEDs
- CRI \geq 80
- CCT available: 3000K/4000K/6500K
- Beam angle: 135°
- IK 08 rating
- IP65 rating

APPLICATIONS

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

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

NPTLED352



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

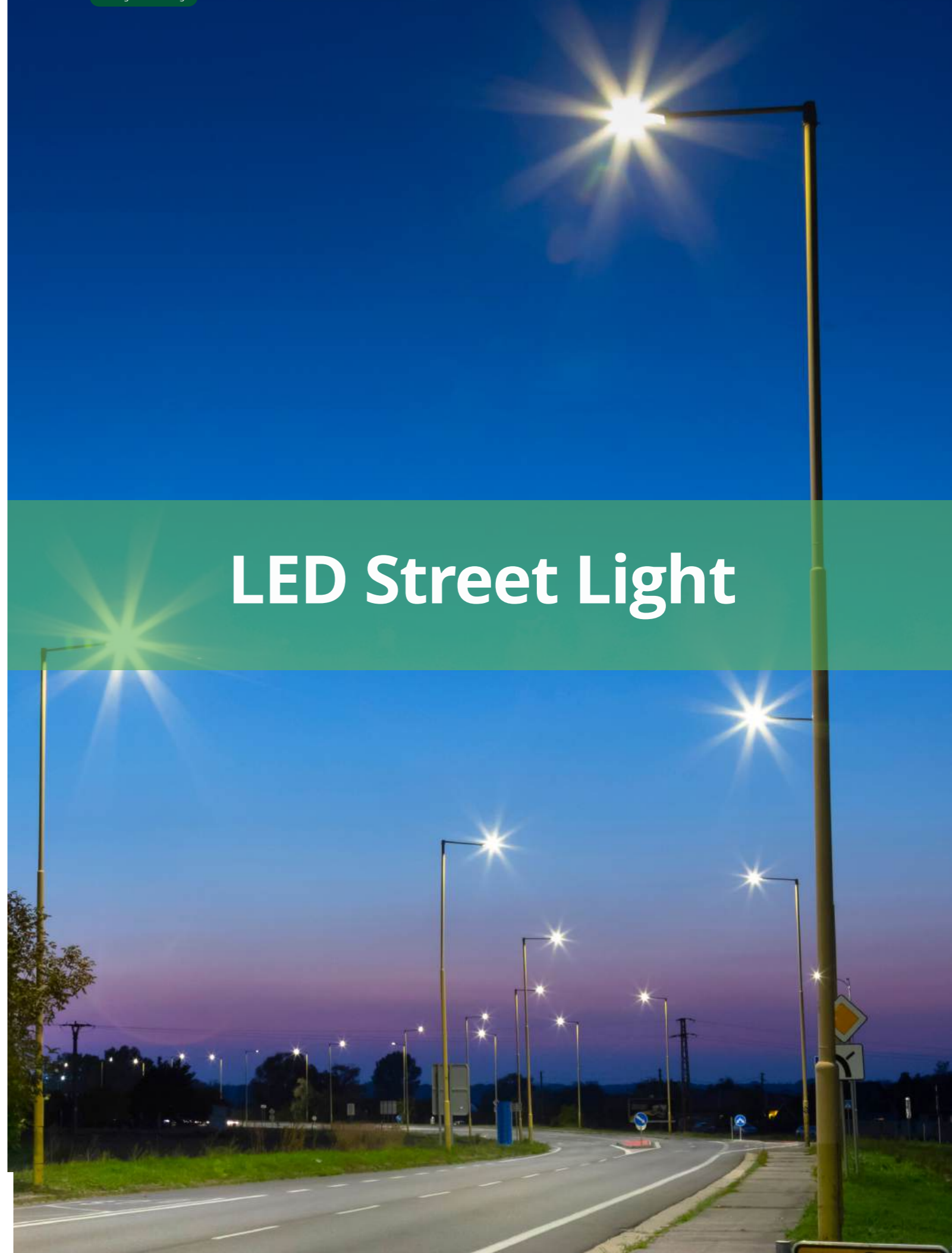
- High power LEDs
- CCT available: 3000K/4000K/6500K
- CRI≥80
- Beam angle: 100°
- IK 08 rating
- IP65 rating

APPLICATIONS

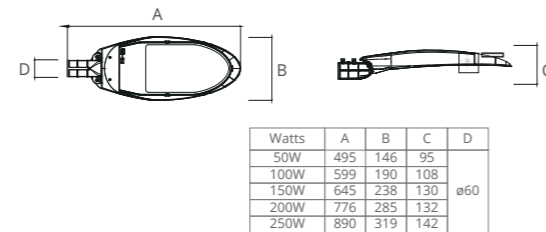
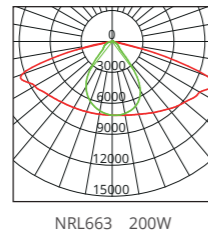
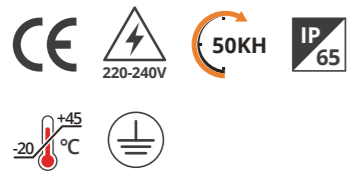
- Lawns
- Gardens
- Paths

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

LED Street Light



NRL663



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

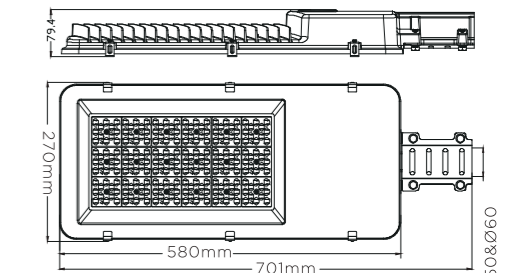
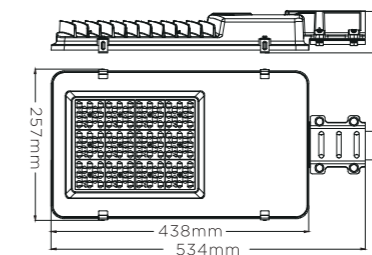
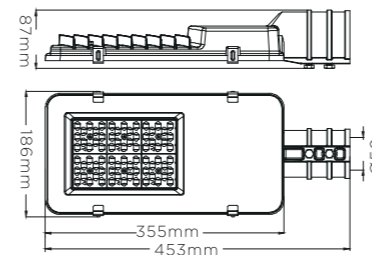
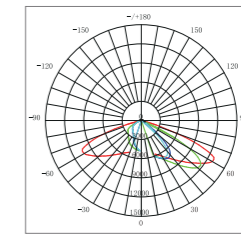
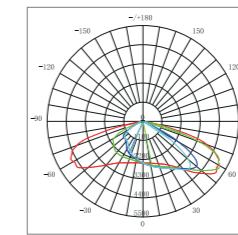
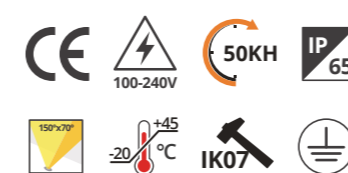
- 3030 LEDs
- CCT available: 4000K/5000K
- Driver PF≥0.9
- Operation Temperature: -20°C~+45°C
- IP65 rating
- IK07 rating
- 1-10V dimming optional

APPLICATIONS

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

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

NRWLED627



FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

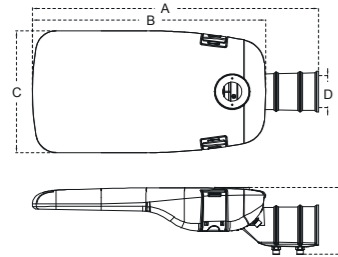
- LUMILEDS LEDs
- CRI≥80
- CCT available: 3000K/4000K/5700K
- IP65 rating
- IK07 rating
- 1-10V dimming optional

APPLICATIONS

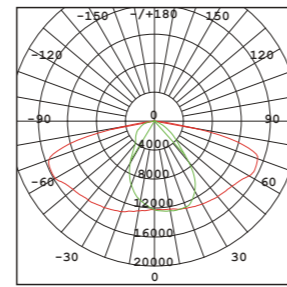
- Roads
- Car parks
- Residential areas

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

NRL629



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



NRL629 300W

FEATURES

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

PRODUCT BENEFITS

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

TECHNICAL DETAILS

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

APPLICATIONS

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

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

Global Quality Approvals & Symbol Keys

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

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

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

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

12V AC/DC Mains voltage 12V AC/DC

100-240V Mains voltage 100~240V AC

220V Mains voltage 220V AC

220-240V Mains voltage 220-240V AC

IP20 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 .

0-10V Analogue dimming. The fitting can be dimmed with analogue dimming.

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

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

30° Beam angle . The angle of the beam dictates the size of the area to be covered in light .

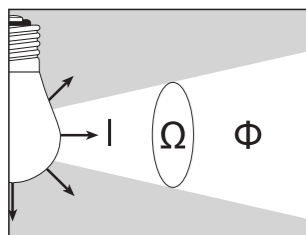
Orange circle Fresh light. Luminaire suitable for applications where natural colour is required.

Glossary of the Most Important Lighting Terms

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

Luminous flux Φ

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



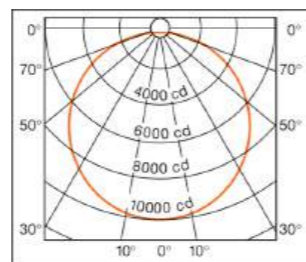
Luminous flux Φ
Luminous intensity I is a measure of the luminous flux Ω emitted in solid angle Φ .

Light and radiation

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

Luminous intensity I

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

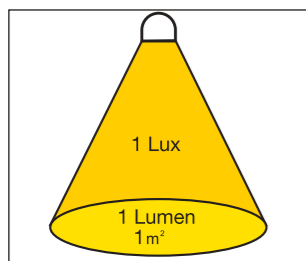


Polar diagram

Illuminance E

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

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

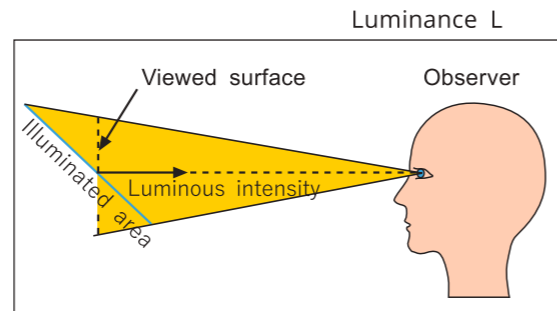


Illuminance E

Luminance L

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

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



Luminance L

The most important photometric formulae:

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

IP Rating

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

IP ratings explained

"IP" ("Ingress Protection") Rating

First digit

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

Second digit

Protection against ingress of liquids

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

IK Rating (Impact Resistance)

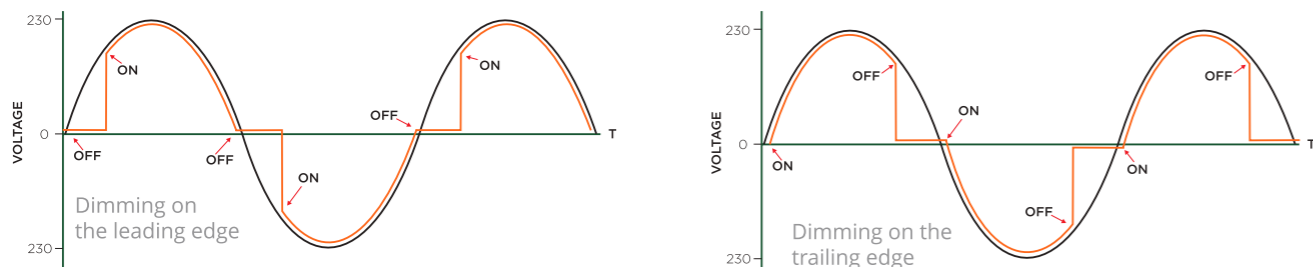
Table - Relation between IK code and impact energy

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

Dimming

MAINS DIMMING

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



HF DIMMING

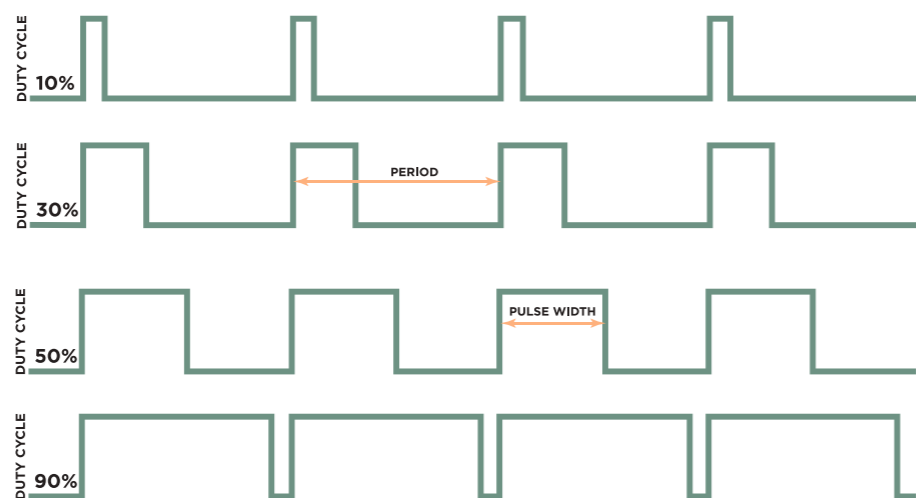
Many fittings can be dimmed if the correct driver is used. To do this the driver is permanently connected to mains power but also receives a dimming control signal, instructing it to increase or lower the light output.

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

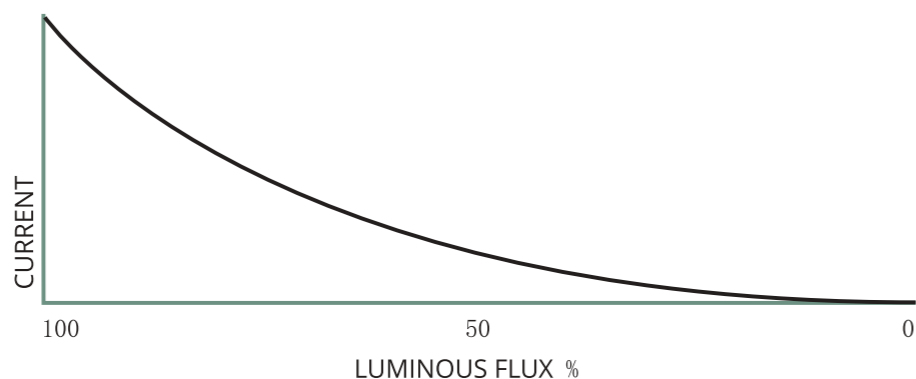
Pulse width modulation (PWM) entails turning the LEDs on and off. The % "on" time is the duty cycle. The higher the duty cycle the brighter the light appears to be to the human eye. PWM has many advantages as a dimming method (efficiency, simplicity of implementation and low cost), but it has disadvantages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

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

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



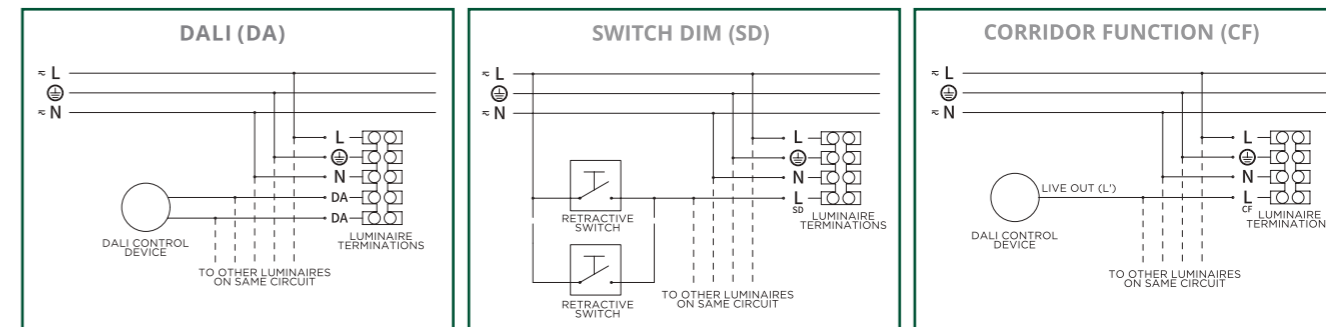
Pulse Width Modulation



Amplitude Modulation

DIMMING CONTROL SIGNALS

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



DALI

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

SWITCH DIM

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

CORRIDOR FUNCTION

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

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

Flicker

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

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

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

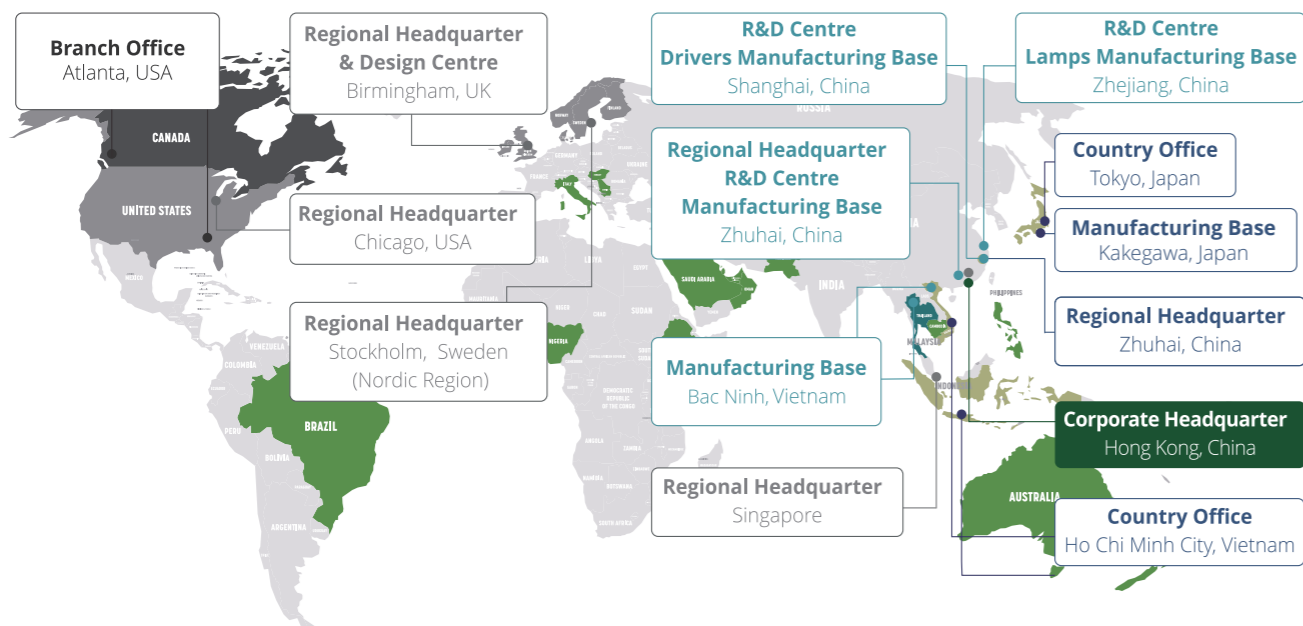
Frequency effects our perception of flicker; a flicker index of 0.2 might be deemed unacceptable at 100Hz, but acceptable at 300Hz. It is therefore not helpful for a manufacturer to claim "My flicker index is better than yours." The extent to which flicker matters (or not) is a function of the extent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

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

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



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