



LED

2020 - 21

COLLECTION

OUTDOOR

VER - 1.1

NIRVANA^LIGHT[®]

Enlighten Your Life

ARCHITECTURAL

INDOOR LIGHT

GOB LIGHT

SURFACE AND SPIKE LIGHT

TRACK LIGHT SYSTEM

HOSPITALITY

LED STRIP

NIRVANA[®]LIGHT

LED LIGHT Enlighten Your Life LED LIGHT

RESIDENTIAL

OUTDOOR LIGHT

UNDER WATER LIGHT

FLOOR WASHER

RETAIL

WALL LIGHT

DOWN LIGHT

COMMERCIAL



ABOUT NIRVANA LIGHT®

Company: NIRVANA LIGHT® a luminaire company established in the year 2011. The company has gradually expanded its operations to an integrated lighting solution provider under one roof. Our quest for innovation and obsession for high quality has made us a leading provider of LED luminaires, providing an extensive range of fittings and fixtures at the most effective cost.

Nirvana Light employs highly skilled technical staff supported by a team of Designers and Engineers and is backed by a fully equipped workshop entailing the most advanced technology. Thus, it has developed for itself an excellent reputation among leading Architects and Designers across India.

For us a Luminaire is more than a fixture that emits light, it is an epitome of our research and passion for our Innovation.

Light and NIRVANA: Light provides energy to all things in the natural world. Artificial light also creates value by adding beauty and functionality in such human-made environments as architectural spaces, interiors and landscapes. Innovation is our pursuit. Superior quality of light is our insistence. But, what defines NIRVANA is the deep enthusiasm and love for light.

Realize Green: Being environmentally conscious company it influences our entire product development. Our practice from the selection of materials, packaging to light sources reflects our respect for our environment. We at NIRVANA LIGHT® are committed to go into the relationship between the properties of light and Earth's environment in order to create an abundant next generation environment by using energy efficiently, rather than resorting to a fundamentally negative energy-saving approach. Our NIRVANA product collections contribute to the sustain ability of our planet thanks to their superior quality and lasting performance.

Internationally Advanced Design: NIRVANA LIGHT® is committed to high quality luminaire design & development. Our luminaires are equipped with advanced technology and aesthetic design, which matches Indian customers' demands and designers taste in lighting application.

Creativity, Quality and Elegance: These are the attributes that describe the new collections launched by NIRVANA, the fruits of eight years of hard work and dedication of entire Nirvana Team. Our Designers & Engineers with the support of our consultants have created these state-of-the-art collections by adopting new technology and new materials without sacrificing our core values of Creativity, Quantity and Elegance.

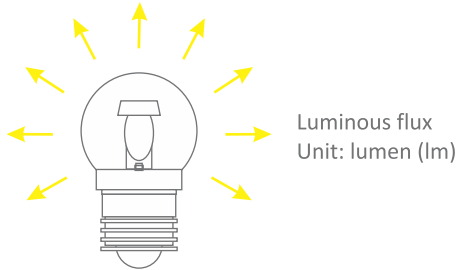
MAKE IN INDIA

Across India, Citizens are connecting with local businesses having manufacturing base in India. Inspired by the Prime Minister's word, we have ingrained the "Make in India" philosophy in our operations. We believe in manufacturing, outsourcing components from local manufacturers and selling the best quality LED lights, thereby, not only earning recognition for our company but also our Motherland - India.

GLOSSARY

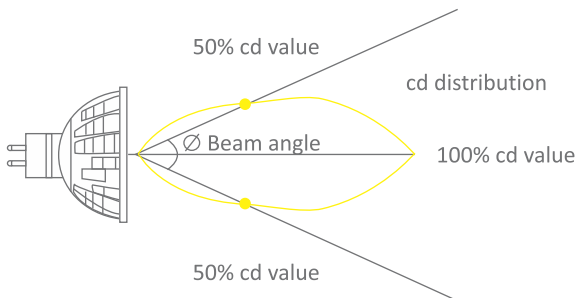
1. Lumen (lm)

Lumen is the international (SI) unit of luminous flux, a measure of overall light emitted by a light source.



3. Beam Angle [Unit: degree]

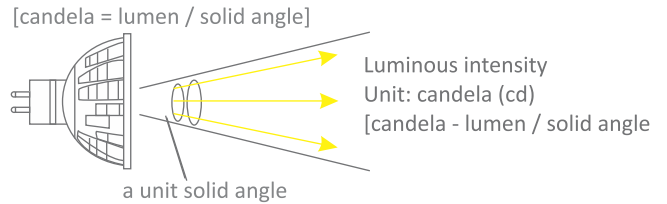
Beam angle is the angle between two directions for which the luminous intensity is 50% of the maximum intensity as measured in a plan through the nominal beam centerline. Beam angle of a bulb gives an idea of how the light beam spreads away from the beam center.



2. Candela (cd)

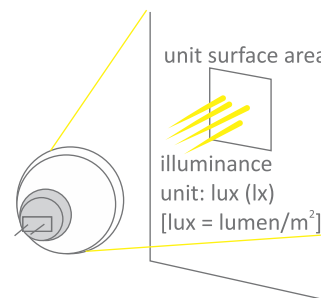
Candela is the international (SI) unit of luminous intensity, a measure of light emitted by a light source in a particular direction.

Any given light source will have different luminous intensity in different directions considered. [Candela = lumen / solid angle]



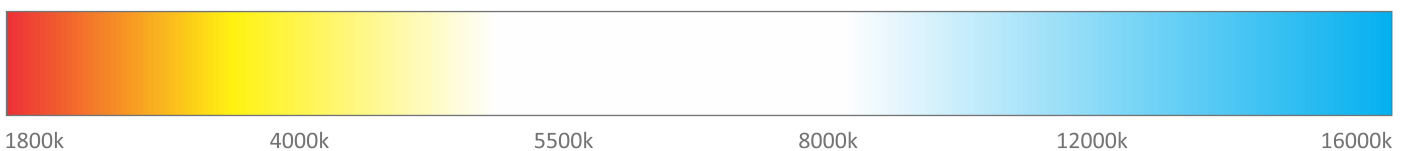
4. LUX (lx)

Lux is the international (SI) unit of illuminance, a measure of light arriving at a surface, 1 lumen per square foot equals 1 foot-candle, while 1 lumen per square meter equals 1 lux. [lux = lumen/m²]



5. Color Temperature / Correlated Color Temperature (CCT)

A black-body radiator will have a different color when it is heated up to different temperatures (in Kelvin). The temperature at which the heated black-body radiator matches the color of the light source is the color temperature of the light source.



GLOSSARY

6. Light

Light is a term that we use to define that part of the electromagnetic radiation that humans can see ("visible light"). Visible light has a wavelength between 380 and 780nm.

7. Light Emitting Diode (LED)

A solid-state semiconductor device converting electrical energy directly into light.

8. Color Rendering Index (CRI)

Color rendering index ranges from 0-100, measures a light source's ability to reproduce the color of various objects being lit by a reference light source, black body radiator (CRI=100)

9. Luminous Flux

Measurement of perceived power of light, adjusted to reflect varying sensitivity of the human eye to different wavelengths of light.

10. Illuminance

Measurement of the intensity of light falling on a surface area.

11. Beam Component

That component of flux received directly (or by specular reflection or transmission) from a point source (such as the sun or small lamp). It is a direct component.

12. Kelvin (K)

The unit of measurement of colour temperature and correlated colour temperature.

13. Driver

Electronics used to power the illumination sources.

14. Ampere (Amp)

Unit of measurement for the rate of flow of electrical current. $\text{Current (Amps)} = \text{Power (Watts)} / \text{Voltage (Volts)}$.

15. Ambient Temperature (Ta)

Air temperature surrounding the device.

16. Junction Temperature (Tj)

Temperature of the LED's active region.

17. Efficacy (lm/W)

Efficacy is the efficiency of a light source to convert electricity energy to light energy which is expressed in lumen output per unit power input (watt)

[Efficacy = lumen / wattage]

18. Floodlighting

A system designed for lighting a scene or object to a luminance greater than its surroundings. It may be used for utility, advertising or decorative purposes.

19. Dimmability

Leds are completely/fully dimmable, in fact LED life enhances when dim.

Generally led can be dimmed with PWM technique and 4 dimming protocol available in market detail below.

- A. Triac / Phase cut dimmable (Leading OR trailing edge dimmable)
- B. 1-10V DC Analogue dimming
- C. DSI dimming – Digital signal interface or can be dim via push button individual or in group.
- D. DALI dimming – Digitally address lighting interface.

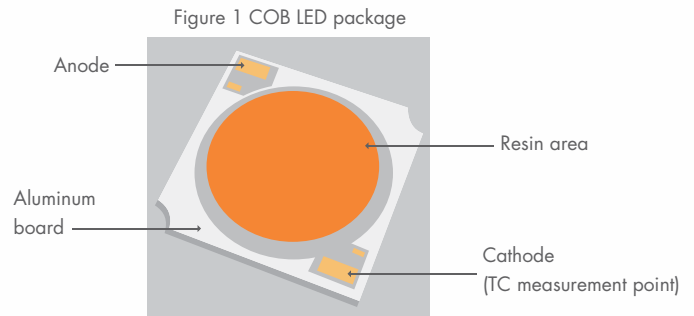
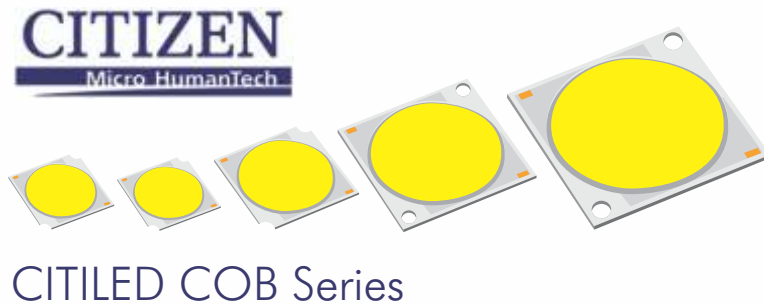
20. IES

A standardized data file which expresses the light output of a luminaire as luminous intensity versus angle. Derives from the acronym for the Illuminating Engineering Society of North America (IESNA). IES files are assigned the file extension ".ies".

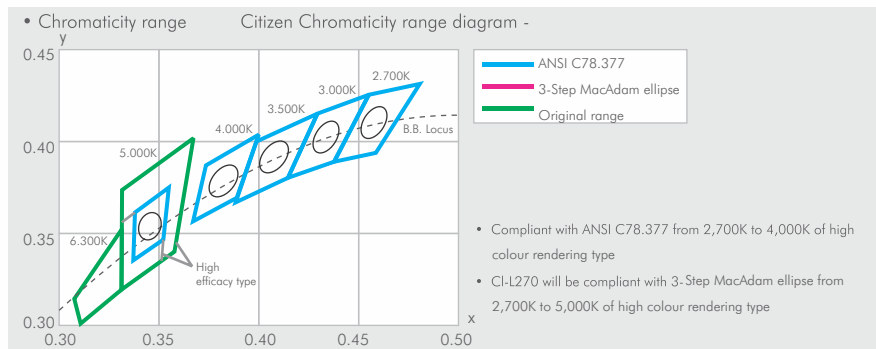
Used by lighting designers to model the illumination performance of a lighting scheme using commercial lighting design software. An IES file is commonly referred to as "photometric data" for a luminaire.

LED ENGINE:

COB, commonly known as Chip on board (multi chip on board) it's a technology of LED packaging for LED Light engine. COBs are known for reduce thermal resistance for better conductivity. Nirvana has tied up with Citizen LED (Japan) and developed the range compatible with citizen LED. Citizen is the 1st COB manufacturer in the world.



Chromaticity Range with minimal color variation : Producing/manufacturing LED with same color consistency is a difficult task successfully achieved by Citizen over the years. Generally term for describing color variation or having product with same color is called "color binning" which achieved by producing LED of same color with little variation less than 3-Mcdam ellipse which is difficult to be perceived by human eye.



LED DRIVER:

Nirvana Light luminous are powered by Fulham / Osram which are leading LED driver manufacturing companies in the world . LED drivers are constant current which ensure proper current to each luminary. They offer two year warranty on the drivers. The below are the features of the drivers used in Nirvana luminaires.

Overload protection : If the output voltage range is exceeded the LED control gear reduces the LED output current. After elimination of the overload the nominal operation is restored automatically.

Overtemperature protection : The LED control gear is protected against temporary thermal overheating. If the temperature limit is exceeded the output current is reduce to limit tc at a certain level. It restarts automatically the temperature protection is activated typically at 10 °C above tc max.

Short-circuit behavior : In case of a short circuit on the secondary side (LED) the LED control gear switches into hic-cup mode. After elimination of the short circuit the nominal operation is restored automatically.

Nirvana Light LED products are Future-proof

LED technology is constantly changing. Rapid innovation continues to improve the performance on an almost daily basis. Future-proofing of LED modules allows luminaire manufacturers to switch from one generation to the next improved generation without major retooling or changes in luminaire design, offering backward compatibility with drivers.

MacAdam Ellipse

This is an elliptical region on the CIE chromaticity diagram that contains all the colours that are indistinguishable to the average human eye, from the colour at the centre of the ellipse. Adjacent ellipses are "just distinguishable" in terms of colour. These are used to refine the binning process of LED colours. Slight colour differences in the appearance are measured in MacAdam ellipses or steps.

Consistency of the Colour appearance of LEDs

LEDs are standardized for consistency in colour and performance through a process called LED binning and classified further in MacAdam steps. During the manufacturing process LEDs are allocated to specific 'bin' numbers based on tests conducted to determine their colour, lumen output and forward voltage. LEDs from each bin are further classified in a 7-step MacAdam ellipse.

LED Binning

LED chips are mass produced in millions and there are inevitably slight differences in the colour appearance and light output. Binning is a way of sorting the chips so that all the LEDs from one particular bin look the same and have similar light output.

Citizen LEDs are hot binned means generally LEDs are binned at T_j - 25°C Junction temperature whereas premium LEDs are binned at T_j -85°C means binned when LEDs are hot in practical situation.

Junction Temperature (T_j)

Junction temperature is the LED's active region; the point at which the diode/chip connects to the base. This is where the electrons jump between the two semiconductors to produce photons. A low junction temperature helps LEDs to produce more light and also reduce the lumen depreciation. Junction temperature is affected by the driver current, the thermal path and the ambient temperature.

Heat Sink and Heat Transferring Techniques

LEDs are a semiconductor device so it tends to generate heat where the chip is mounted and when the current flows through the chip it generates light as well as heat. If the luminaire or heatsink does not maintain temperature at junction the LED engine will burn.

Heat management is critical for the performance of LEDs. Increasing heat in LEDs has the following effects in performance characters:

- Reduction in luminous flux
- Colour shift (change in colour appearance)
- Reduction in life of the LED

LEDs are cooled either by passive cooling or active cooling. Passive cooling involves a finned heat exchange system made of cast or extruded metal or plastic coated metal heat sink that offers a totally silent, robust, heat transfer. Passive cooling is reliant on the surface area of heat sink material and is orientation dependent. Active cooling may include conventional fans or diaphragm-based forced air cooling. Active cooling using a fan, although more efficient; is noisy, not so reliable, and needs electricity to run. Active cooling lays emphasis on forced air flow rate and is not orientation dependant.

Dimming and lighting automation

All nirvana Light LED luminaries are dimmable using a compatible dimmable driver.

Dimming LEDs offer the following advantages:

- Saving energy, because less energy is used for reduced output levels.
- Extended life; the electronic components run cooler. This not only extends the life of LEDs but also increases the life of the phosphor coating that is used to produce white light.
- Helps designers create ambient lighting presets to create mood settings.
- Flexibility in usage of space. A brightly lit space for reading or an office space can turn into a presentation/conference area by dimming.
- Increases productivity by individual control to reduce eye strain and fatigue or to improve concentration.

What are Dimming control protocols?

LED Dimmable drivers control LED directly by signals coming from the central dimmer or they can be designed to interpret other protocols like 1-10V, DALI, DSI, DMX, Ethernet or ZigBee signals from the central dimming system. The manufacturers of the LEDs recommend the various protocols their devices can read.

Why do some LEDs flicker when dimmed or turned off?

This is usually due to incompatibility between the driver and the control system. When purchasing an LED product, it is important to use the driver type as specified by the manufacturer. Also the integrator has to check the compatibility between the LED and drivers.

Why Lumen is more important than watt in LED ?

LED is constant evolving technology .Continuous research and development makes LEDs more efficient in every few months. Unlike old light source which has technology limitation and do not provide higher efficiency on regular basis it will be unjustified to compare LED by its wattage.

Few years ago, LED used to produce 50-70 Lumen per watt whereas the new generation LED produce 130-160 lumen. This is significant compared to general light source like halogen or incandescent lamp which produce around 10-15 lumen per watt.

For example 10w LED that use to deliver 570 Lumens few years ago, now delivers around 1120 lumens. Comparing LED purely on wattage would be misleading in today's scenario.

How to measure LED useful life ?

LED luminaires and replacement lamps available today often claim long life, usually 50,000 hours, based solely on the estimated lumen depreciation of the LED. That life claims ought to account for the whole system.

The lifetimes of incandescent, fluorescent, and high-intensity discharge lamps are generally estimated through industry standards. Typically, a large, statistically significant sample of lamps is operated until 50% have failed. That point, in terms of operating hours, defines the "rated life" for that lamp.

LEDs age and lose a little of their output over the time, it depends on quality of LED engine, heat management, driving technique, environment etc.

LEDs are different. They usually don't fail abruptly. Their light output slowly diminishes over time. Moreover, they can have such long lives that life testing and acquiring real application data on long-term reliability becomes problematic—new versions of products are available before current ones can be fully tested

That leads to some new terms like "L70" and "B50." L70 refers to lumen depreciation to 70% of initial lumen output; stated conversely, it indicates 70% lumen maintenance. "B" specs add a target statistical confidence interval. Thus, B50 indicates no more than 50% of a sample of LED devices would be expected to have their light output drop below a target lumen maintenance level. B10 would mean no more than 10% of the sample met that L standard within the given time.

- What does this mean in real life?
- L90 B10: 90% of the original out for 90% of remaining LEDs=81%
- L80 B10: 80% of the original out for 90% of remaining LEDs=72%
- Down to L70 B50: 70% output by 50% = 35% (worst case: 30.000hrs)
- A quality product (4000lm) will have 3240lm (2880lm) min. after 50000hrs
- A cheap product (4000lm) will have 1400lm after 30.000hrs





OUTDOOR

SURFACE & SPIKE SERIES



TECHNICAL WALL 1WAY LIGHT



TECHNICAL WALL UP DOWN LIGHT



TECHNICAL CEILING SURFACE LIGHT



LENS SERIES MICRO SPIKE LIGHTS



LED 1 WAY WALL LIGHT



LENS SERIES LED UP DOWN WALL LIGHT



CEILING SURFACE MOUNTED LIGHT



INGROUND LIGHT



FLOOR WASHER / FOOT LIGHT



LINEAR WALL GRAZER



UNDERWATER LIGHT



BOLLARD



POLE LIGHT





Surface
& Spike
Series



NL 4305 Pg. 17



NL 4306 Pg. 17



NL 4301 Pg. 18



NL 4302 Pg. 18



NL 4307 Pg. 19



NL 4308 Pg. 19

Technical
Wall
1 way
Light



NL 4302 Pg. 21



NL 4042 Pg. 21



NL 4305 Pg. 21



NL 4045 Pg. 21



NL 4132 Pg. 22



NL 4135 Pg. 22



NL 4138 Pg. 22

Technical
Wall
Up Down
Light



NL 4033 Pg. 24



NL 4043 Pg. 24



NL 4036 Pg. 24



NL 4046 Pg. 24



NL 4133 Pg. 25



NL 4136 Pg. 25



NL 4139 Pg. 25

Technical
Ceiling
Surface
Light



NL 4034 Pg. 27



NL 4044 Pg. 27



NL 4037 Pg. 27



NL 4047 Pg. 27



NL 4134 Pg. 28



NL 4137 Pg. 28



NL 4140 Pg. 28

Lens Series
Micro
Spike
Lights



NL 4305 Pg. 29



NL 4306 Pg. 29



NL 4310 Pg. 29

Led 1 Way
Wall Light



NL 4121 Pg. 30



NL 4124 Pg. 30

Lens Series
Led Up
Down Wall
Light



NL 4122 Pg. 31



NL 4125 Pg. 31

Ceiling
Surface
Mounted
Light



NL 4031 Pg. 32



NL 4041 Pg. 32



NL 4123 Pg. 32



NL 4126 Pg. 32



Inground
Light



NL 4502 Pg. 34



NL 4503 Pg. 34



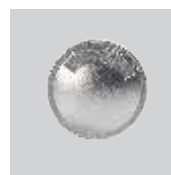
NL 4504 Pg. 34



NL 4505 Pg. 35



NL 4509 Pg. 35



NL 4506 Pg. 35



NL 4507 Pg. 35

Floor
Washer /
Foot Light



NL 4501 Pg. 36

Linear
Wall
Grazer



NL 4073 Pg. 37

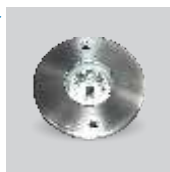


NL 4074 Pg. 37



NL 4075 Pg. 37

Underwater
Light



NL 4601 Pg. 39



NL 4602 Pg. 39



NL 4603 Pg. 40



NL 4604 Pg. 40



NL 4605 Pg. 40



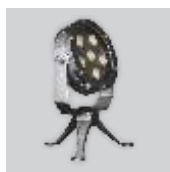
NL 4607 Pg. 40



NL 4608 Pg. 41



NL 4609 Pg. 41



NL 4610 Pg. 41

Bollard



NL 4321 Pg. 43



NL 4322 Pg. 43



NL 4325 Pg. 43



NL 4323 Pg. 44



NL 4324 Pg. 44



NL 4331 Pg. 45



NL 4332 Pg. 45



NL 4335 Pg. 45



NL 4333 Pg. 46



NL 4334 Pg. 46



NL 4341 Pg. 47



NL 4342 Pg. 47



NL 4345 Pg. 47









NL 4343 Pg. 48



NL 4344 Pg. 48

Pole Light

| | | | | | | | | | | | | | | | | | |
|---|------------|--------|---|------------|--------|---|------------|--------|---|------------|--------|--|------------|--------|---|------------|--------|
|  | NL 4332-CS | Pg. 50 |  | NL 4342-CS | Pg. 50 |  | NL 4325-CS | Pg. 52 |  | NL 4335-CS | Pg. 52 |  | NL 4345-CS | Pg. 53 |  | NL 4345-CS | Pg. 53 |
|---|------------|--------|---|------------|--------|---|------------|--------|---|------------|--------|--|------------|--------|---|------------|--------|

NIRVANA LIGHT[®]

Enlighten Your Life

OUTDOOR

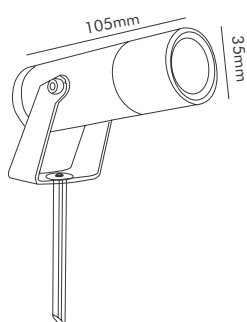


SURFACE & SPIKE SERIES

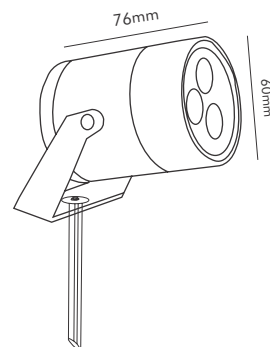




NL 4305



NL 4306



NL 4305

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø35mm | Depth-105mm
Beam Angle : Narrow | Medium | Wide
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4306

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60mm | Depth-76mm
Beam Angle : Narrow | Medium | Wide
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



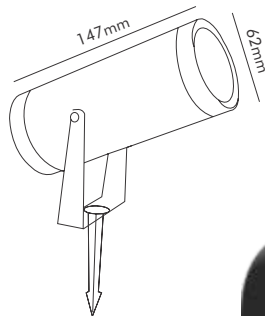
| ITEM CODE | POWER | SIZE | CCT | | |
|-----------|-------|------------------|-----|--|--|
| NL 4305 | 3W | D-35mm H-105mm | 3K |  | Tree Strap For Surface / Spike Light NL 4305 4306 4301 4302 4307 4308 |
| NL 4306 | 9W | D-60mm H-76mm | 3K |  | IP68 CABLE GLAND - PG7 (Suitable Cable Dia 6-7.5mm) |



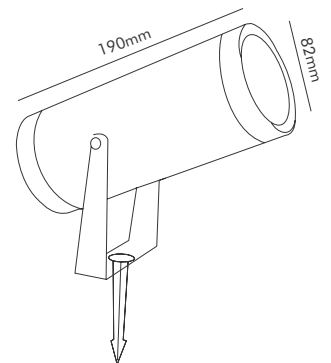
SURFACE & SPIKE SERIES



NL 4301



NL 4302



NL 4301

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø62mm | Depth-147mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4302

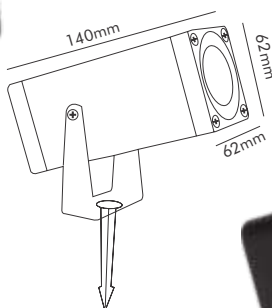
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø82mm | Depth-190mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



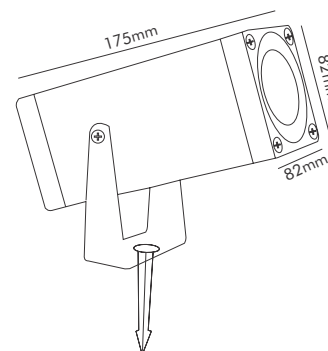
| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|------------------|-----|
| NL 4301 | 8W | D-62mm H-147mm | 3K |
| NL 4302 | 15W | D-82mm H-190mm | 3K |
| | 18W | D-82mm H-190mm | 3K |



NL 4307



NL 4308



NL 4307

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø62x62mm | Depth-140mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

NL 4308

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø82x82mm | Depth-175mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

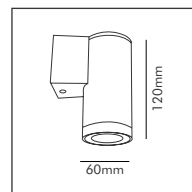
| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------|-----|
| NL 4307 | 8W | D-62x62mm H-140mm | 3K |
| NL 4308 | 15W | D-82x82mm H-175mm | 3K |
| | 18W | D-82x82mm H-175mm | 3K |



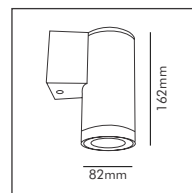
TECHNICAL WALL 1WAY LIGHT

**NL 4032****LED Wall Mounted 1 Way Light**

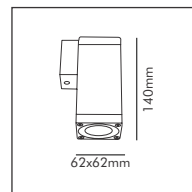
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60mm | Depth-120mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

**NL 4042****LED Wall Mounted 1 Way Light**

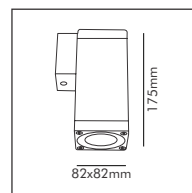
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø82mm | Depth-162mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

**NL 4035****LED Wall Mounted 1 Way Light**

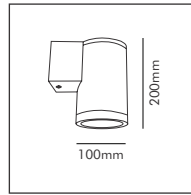
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø62x62mm | Depth-140mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

**NL 4045****LED Wall Mounted 1 Way Light**

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø82x82mm | Depth-175mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



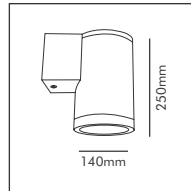
| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------|-----|
| NL 4032 | 6W | D-60mm H-120mm | 3K |
| NL 4042 | 13W | D-82mm H-162mm | 3K |
| NL 4035 | 6W | D-62x62mm H-140mm | 3K |
| NL 4045 | 13W | D-82x82mm H-175mm | 3K |



NL 4132

LED Wall Mounted 1Way Light

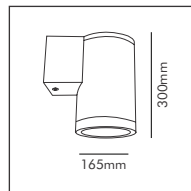
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø100mm | Depth-200mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4135

LED Wall Mounted 1Way Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø140mm | Depth-250mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4138

LED Wall Mounted 1Way Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø165mm | Depth-300mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|-------------------|-----|
| NL 4132 | 18W | D-100mm H-200mm | 3K |
| NL 4135 | 24W | D-140mm H-250mm | 3K |
| NL 4138 | 32W | D-165mm H-300mm | 3K |



OUTDOOR

Technical Wall Up Down Light

NIRVANA^{LIGHT}[®]
Enlighten Your Life

TECHNICAL WALL UP DOWN LIGHT

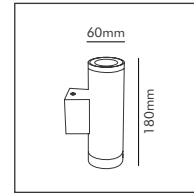




NL 4033

LED Wall Mounted Up & Down Light

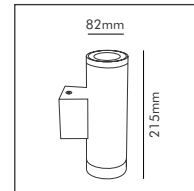
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60mm | Depth-180mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4043

LED Wall Mounted Up & Down Light

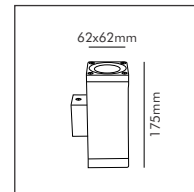
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø82mm | Depth-215mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4036

LED Wall Mounted Up & Down Light

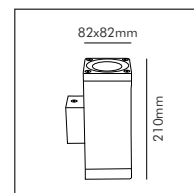
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø62x62mm | Depth-175mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



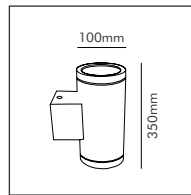
NL 4046

LED Wall Mounted Up & Down Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø82x82mm | Depth-210mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



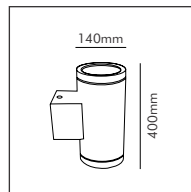
| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------|-----|
| NL 4033 | 2x6W | D-60mm H-180mm | 3K |
| NL 4043 | 2x13W | D-82mm H-215mm | 3K |
| NL 4036 | 2x6W | D-62x62mm H-175mm | 3K |
| NL 4046 | 2x13W | D-82x82mm H-210mm | 3K |



NL 4133

LED Wall Mounted Up & Down Light

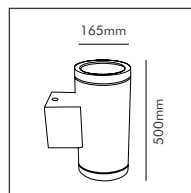
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø100mm | Depth-350mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4136

LED Wall Mounted Up & Down Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø140mm | Depth-400mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4139

LED Wall Mounted Up & Down Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø165mm | Depth-500mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|-------------------|-----|
| NL 4133 | 2x18W | D-100mm H-350mm | 3K |
| NL 4136 | 2x24W | D-140mm H-400mm | 3K |
| NL 4139 | 2x32W | D-165mm H-500mm | 3K |



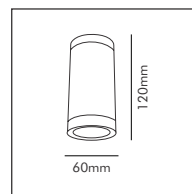
TECHNICAL CEILING SURFACE LIGHT



NL 4034

LED Ceiling Surface Mounted Light

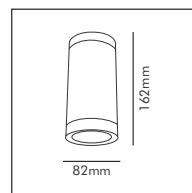
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60mm | Depth-120mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4044

LED Ceiling Surface Mounted Light

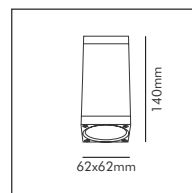
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø82mm | Depth-162mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4037

LED Ceiling Surface Mounted Light

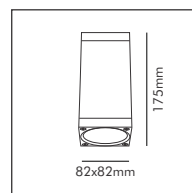
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø62x62mm | Depth-140mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : Ip65



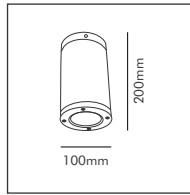
NL 4047

LED Ceiling Surface Mounted Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø82x82mm | Depth-175mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : Ip65



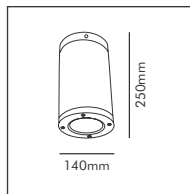
| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------|-----|
| NL 4034 | 8W | D-60mm H-180mm | 3K |
| NL 4044 | 15W | D-82mm H-215mm | 3K |
| NL 4037 | 8W | D-62x62mm H-175mm | 3K |
| NL 4047 | 15W | D-82x82mm H-210mm | 3K |



NL 4134

LED Ceiling Surface Mounted Light

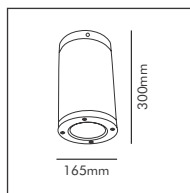
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø100mm | Depth-200mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : Ip65



NL 4137

LED Ceiling Surface Mounted Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø140mm | Depth-250mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : Ip65

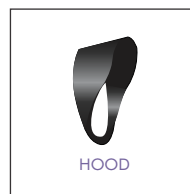
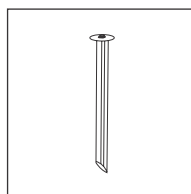
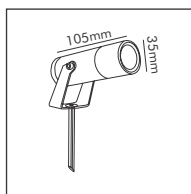


NL 4140

LED Ceiling Surface Mounted Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø165mm | Depth-300mm
Beam Angle : Narrow | Medium | Wide
LED : COB | CRI >80
Luminaire Finish : Silver Grey
IP Rating : Ip65

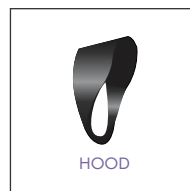
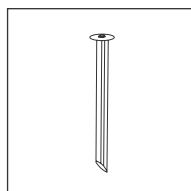
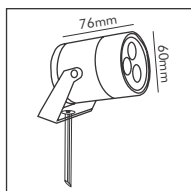
| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|-------------------|-----|
| NL 4134 | 18W | D-100mm H-200mm | 3K |
| NL 4137 | 24W | D-140mm H-250mm | 3K |
| NL 4140 | 32W | D-165mm H-300mm | 3K |



NL 4305

LED Micro Spike / Surface Light

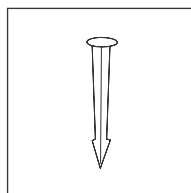
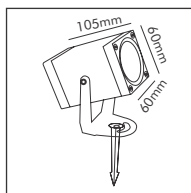
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø35mm | Depth-105mm
Beam Angle : 10° 25° 45°
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4306

LED Micro Spike / Surface Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60mm | Depth-76mm
Beam Angle : 10° 25° 45°
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4310

LED Micro Spike / Surface Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60x60mm | Depth-105mm
Beam Angle : 10° 25° 45°
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

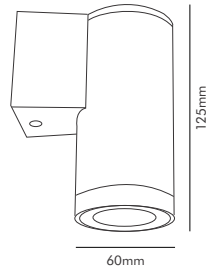
| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------|-----|
| NL 4305 | 3W | D-35mm H-105mm | 3K |
| NL 4306 | 9W | D-60mm H-76mm | 3K |
| NL 4310 | 9W | D-60x60mm H-105mm | 3K |



LED 1 WAY WALL LIGHT



NL 4121



NL 4121

LED Wall Surface Mounted 1 Way Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60mm | Depth-125mm
Beam Angle : 10° 25° 45°
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

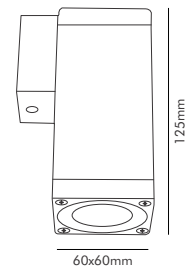
NL 4124

LED Wall Surface Mounted 1 Way Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60x60mm | Depth-125mm
Beam Angle : 10° 25° 45°
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



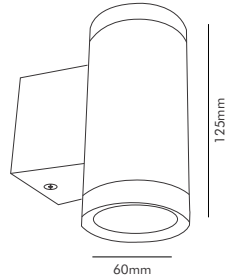
NL 4124



| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------|-----|
| NL 4121 | 1x6W | D-60mm H-125mm | 3K |
| NL 4124 | 1x6W | D-60x60mm H-125mm | 3K |



NL 4122

**NL 4122**

LED Wall Surface Mounted Up Down Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60mm | Depth-125mm
Beam Angle : 10° 25° 45°
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

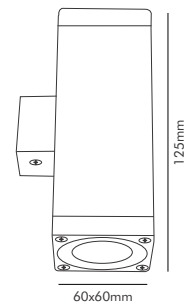
NL 4125

LED Wall Surface Mounted Up Down Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60x60mm | Depth-125mm
Beam Angle : 10° 25° 45°
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4125



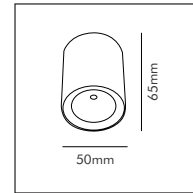
| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------|-----|
| NL 4122 | 2x6W | D-60mm H-125mm | 3K |
| NL 4125 | 2x6W | D-60x60mm H-125mm | 3K |



NL 4031

Ceiling Surface Mounted Light

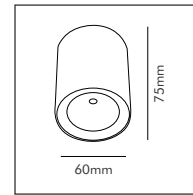
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø50mm | Depth-65mm
Beam Angle : 10° 25° 45°
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4041

Ceiling Surface Mounted Light

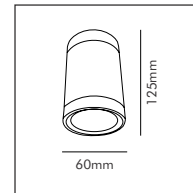
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60mm | Depth-75mm
Beam Angle : 10° 25° 45°
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4123

Ceiling Surface Mounted Light

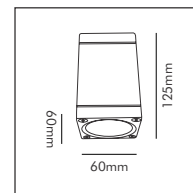
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60mm | Depth-125mm
Beam Angle : 10° 25° 45°
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



NL 4126

Ceiling Surface Mounted Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø60x60mm | Depth-125mm
Beam Angle : 10° 25° 45°
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------|-----|
| NL 4031 | 4W | D-50mm H-65mm | 3K |
| NL 4041 | 6W | D-60mm H-75mm | 3K |
| NL 4123 | 6W | D-60mm H-125mm | 3K |
| NL 4126 | 6W | D-60x60mm H-125mm | 3K |



OUTDOOR
Inground Light

NIRVANA[®]LIGHT
Enlighten Your Life

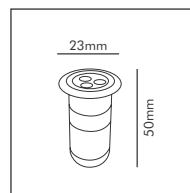
INGROUND LIGHT





NL 4502
LED Inground Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø23mm | Depth-50mm
Beam Angle : Narrow | Medium
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65 | 3V-350A

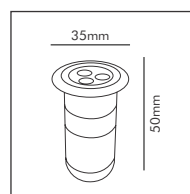


Remote Located
Non Waterproof IP20
Power Supply



NL 4503
LED Inground Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø35mm | Depth-50mm
Beam Angle : Narrow | Medium
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65 | 24V DC - CV

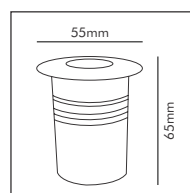


Without Power Supply
Please Order 24V
Power Supply Separately



NL 4504
LED Inground Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø55mm | Depth-65mm
Beam Angle : Narrow | Medium
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



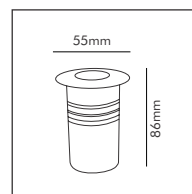
Without Power Supply
Please Order 24V
Power Supply Separately

| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|-----------------|-----|
| NL 4502 | 1W | D-23mm H-50mm | 3K |
| NL 4503 | 1W | D-35mm H-50mm | 3K |
| NL 4504 | 3W | D-55mm H-65mm | 3K |

NL 4505

LED Inground Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø55mm | Depth-86mm
Beam Angle : Medium
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

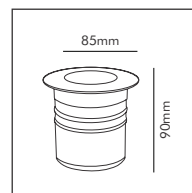


220-240AC
Built in Power Supply

NL 4509

LED Inground Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø85mm | Depth-90mm
Beam Angle : Medium
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

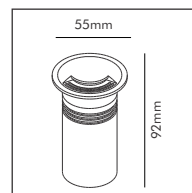


220-240AC
Built in Power Supply

NL 4506

LED Inground 1way Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø55mm | Depth-92mm
Beam Angle : Medium
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65

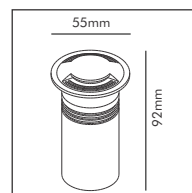


220-240AC
Built in Power Supply

NL 4507

LED Inground 2way Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø55mm | Depth-92mm
Beam Angle : Medium
LED : Hi-Power | CRI >80
Luminaire Finish : Silver Grey
IP Rating : IP65



220-240AC
Built in Power Supply

| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|-----------------|-----|
| NL 4505 | 3W | D-50mm H-86mm | 3K |
| NL 4509 | 6W | D-85mm H-90mm | 3K |
| | 8W | D-85mm H-90mm | 3K |
| NL 4506 | 3W | D-55mm H-92mm | 3K |
| NL 4507 | 3W | D-55mm H-92mm | 3K |

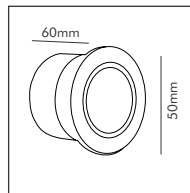


FLOOR WASHER / FOOT LIGHT



NL 4501

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø50mm | Depth-60mm
Beam Angle : Medium
LED : SMD | CRI >80
Luminaire Finish : White
IP Rating : IP65



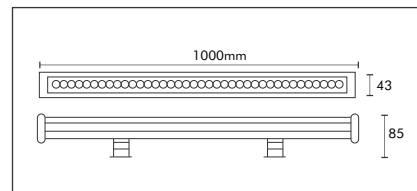
| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|-----------------|-----|
| NL 4501 | 3W | D-50mm H-60mm | 3K |





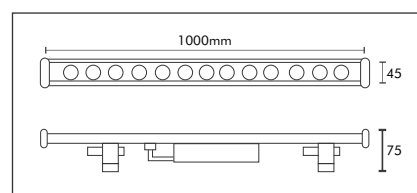
NL 4073
LED Linear Wall Washer / Wall Grazer

Housing Material : Aluminum Die Cast
Dimension : LxBxH - 1000x43x85mm
Beam Angle : Medium
LED : Hi-Power | CRI >80
Luminaire Finish : Grey
IP Rating : IP65



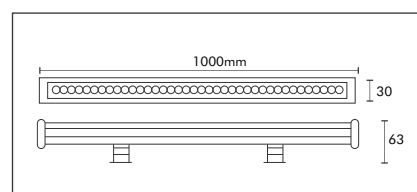
NL 4074
LED Linear Wall Washer / Wall Grazer

Housing Material : Aluminum Die Cast
Dimension : LxBxH - 1000x45x75mm
Beam Angle : Medium
LED : Hi-Power | CRI >80
Luminaire Finish : Grey
IP Rating : IP65



NL 4075
LED Linear Wall Washer / Wall Grazer

Housing Material : Aluminum Die Cast
Dimension : LxBxH - 1000x30x63mm
Beam Angle : Medium
LED : Hi-Power | CRI >80
Luminaire Finish : Grey
IP Rating : IP65



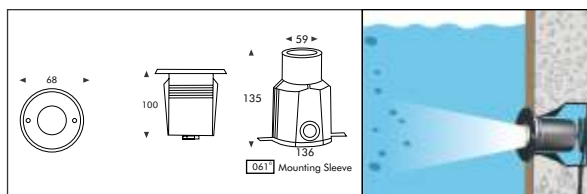
| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|----------------------|-----|
| NL 4073 | 36W | LxBxH - 1000x43x85mm | 3K |
| NL 4074 | 24W | LxBxH - 1000x45x75mm | 3K |
| NL 4075 | 12W | LxBxH - 1000x30x63mm | 3K |





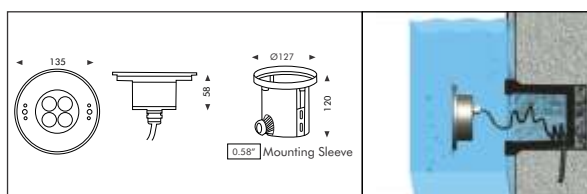
UNDERWATER LIGHT





NL 4601

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø68mm | Depth-100mm
Jacket - 59mm | Depth - 135mm
LED : Hi-Power | CRI >80
Finish : SS Ring
IP Rating : IP68 | 24VDC



NL 4602

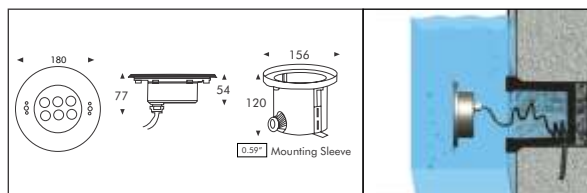
Housing Material : Aluminum Die Cast
Dimension : Trim - Ø135mm | Depth-58mm
Jacket-Ø127mm | Depth-120mm
LED : Hi-Power | CRI >80
Finish : SS Ring
IP Rating : IP68 | 24VDC

| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|-------------------|-----|
| NL 4601 | 3W | D-68mm H-100mm | 3K |
| NL 4602 | 4x2W | D-135mm H-120mm | 3K |



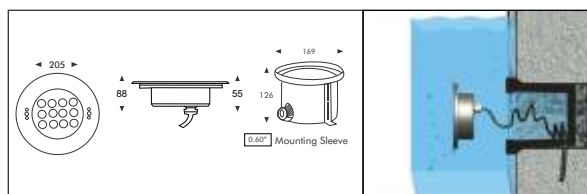
NL 4603

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø180mm | Depth-77mm
Jacket-Ø156mm | Depth-120mm
Beam Angle : Medium 30°
LED : Hi-Power | CRI >80
Finish : SS Ring
IP Rating : IP68 | 24VDC



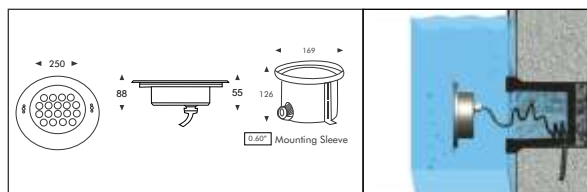
NL 4604

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø205mm | Depth-88mm
Jacket-Ø169mm | Depth-126mm
Beam Angle : Medium 30°
LED : Hi-Power | CRI >80
Finish : SS Ring
IP Rating : IP68 | 24VDC



NL 4605

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø250mm | Depth-88mm
Jacket-Ø169mm | Depth-126mm
Beam Angle : Medium 30°
LED : Hi-Power | CRI >80
Finish : SS Ring
IP Rating : IP68 | 24VDC

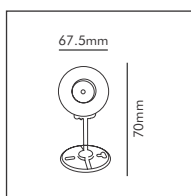


NL 4607

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø160mm | Depth-36mm
LED : Hi-Power | CRI >80
Finish : SS Ring
IP Rating : IP68 | 24VDC

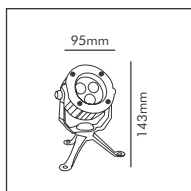


| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|-------------------|-----|
| NL 4603 | 12W | D-180mm H-120mm | 3K |
| NL 4604 | 24W | D-205mm H-126mm | 3K |
| NL 4605 | 18x2W | D-250mm H-126mm | 3K |
| NL 4607 | 9x2W | D-160mm H-36mm | 3K |



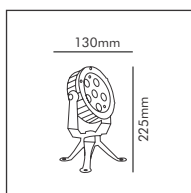
NL 4608
LED Underwater Spot Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø67.5mm | Depth-70mm
LED : Hi-Power | CRI >80
Finish : SS Ring
IP Rating : IP68 | 24VDC



NL 4609
LED Underwater Spot Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø95mm | Depth-143mm
LED : Hi-Power | CRI >80
Finish : SS Ring
IP Rating : IP68 | 24VDC



NL 4610
LED Underwater Spot Light

Housing Material : Aluminum Die Cast
Dimension : Trim - Ø130mm | Depth-225mm
LED : Hi-Power | CRI >80
Finish : SS Ring
IP Rating : IP68 | 24VDC

| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|-------------------|-----|
| NL 4608 | 1x2W | D-67.5mm H-70mm | 3K |
| NL 4609 | 3x2W | D-95mm H-143mm | 3K |
| NL 4610 | 6x2W | D-130mm H-225mm | 3K |



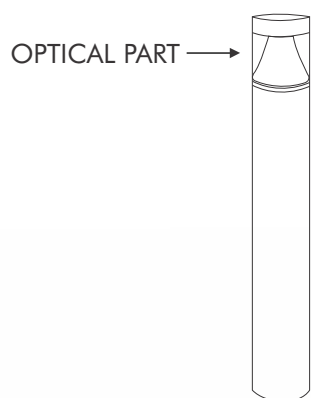


OUTDOOR

100mm Bollard

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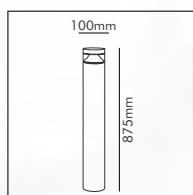
100mm BOLLARD



OPTICAL PART →



NL 4321



NL 4321

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø100mm
Height - 300mm | 700mm | 875mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 35mm
IP Rating : IP65

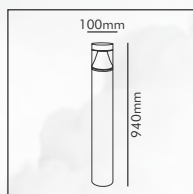


NL 4322



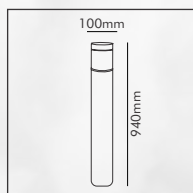
NL 4322

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø100mm
Height - 365mm | 765mm | 940mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 100mm
IP Rating : IP65



NL 4325

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø100mm
Height - 365mm | 765mm | 940mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 100mm
IP Rating : IP65



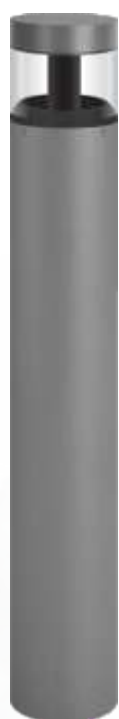
NL 4325



| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------------|-----|
| NL 4321 | 8W | D-100mm H-300 700 875mm | 3K |
| NL 4322 | 8W | D-100mm H-365 765 940mm | 3K |
| NL 4325 | 8W | D-100mm H-365 765 940mm | 3K |



100mm BOLLARD



NL 4323

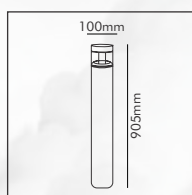


NL 4324



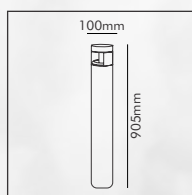
NL 4323

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø100mm
Height - 330mm | 730mm | 905mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 65mm
IP Rating : IP65



NL 4324

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø100mm
Height - 330mm | 730mm | 905mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 65mm
IP Rating : IP65



| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------------|-----|
| NL 4323 | 8W | D-100mm H-330 730 905mm | 3K |
| NL 4324 | 8W | D-100mm H-330 730 905mm | 3K |

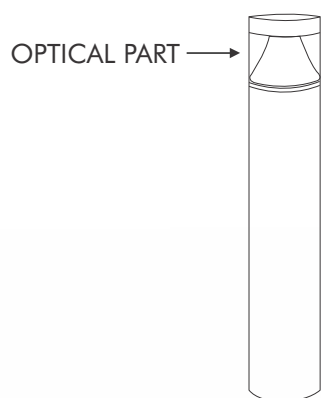


OUTDOOR

140mm Bollard

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140mm BOLLARD

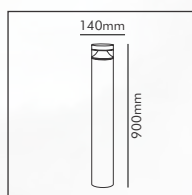


NL 4331



NL 4331

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø140mm
Height - 300mm | 700mm | 900mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 48mm
IP Rating : IP65

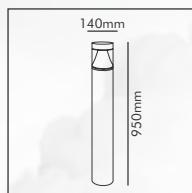


NL 4332



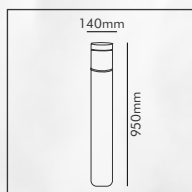
NL 4332

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø140mm
Height - 350mm | 750mm | 950mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 98mm
IP Rating : IP65



NL 4335

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø140mm
Height - 350mm | 750mm | 950mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 98mm
IP Rating : IP65



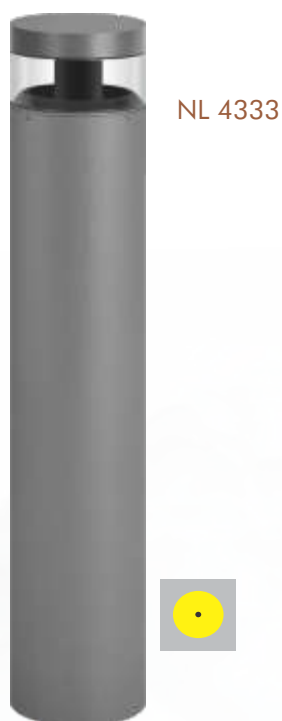
NL 4335



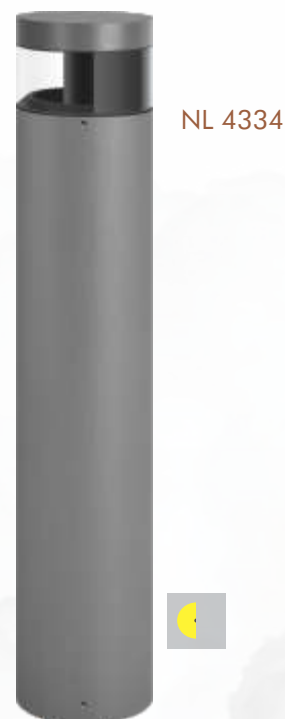
| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------------|-----|
| NL 4331 | 15W | D-140mm H-300 700 900mm | 3K |
| NL 4332 | 15W | D-140mm H-350 750 950mm | 3K |
| NL 4335 | 15W | D-140mm H-350 750 950mm | 3K |



140mm BOLLARD



NL 4333

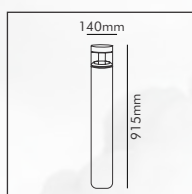


NL 4334



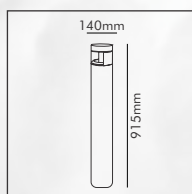
NL 4333

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø140mm
Height - 315mm | 715mm | 915mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 62mm
IP Rating : Ip65



NL 4334

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø140mm
Height - 315mm | 715mm | 915mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 62mm
IP Rating : Ip65



| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------------|-----|
| NL 4333 | 15W | D-140mm H-315/715/915mm | 3K |
| NL 4334 | 15W | D-140mm H-315/715/915mm | 3K |



OUTDOOR

165mm Bollard

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OPTICAL PART →



NL 4341



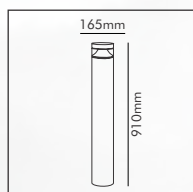
NL 4342



165mm BOLLARD

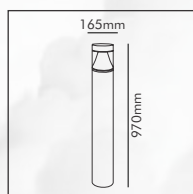
NL 4341

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø165mm
Height - 310mm | 710mm | 910mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 60mm
IP Rating : IP65



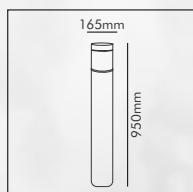
NL 4342

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø165mm
Height - 370mm | 770mm | 970mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 120mm
IP Rating : IP65



NL 4345

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø165mm
Height - 350mm | 750mm | 950mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 100mm
IP Rating : IP65



NL 4345



| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------------|-----|
| NL 4341 | 20W | D-165mm H-310 710 910mm | 3K |
| NL 4342 | 20W | D-165mm H-370 770 970mm | 3K |
| NL 4345 | 20W | D-165mm H-350 750 950mm | 3K |



165mm BOLLARD



NL 4343

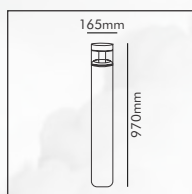


NL 4344



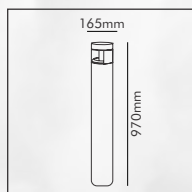
NL 4343

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø165mm
Height - 370mm | 770mm | 970mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 120mm
IP Rating : IP65



NL 4344

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø165mm
Height - 370mm | 770mm | 970mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 120mm
IP Rating : IP65



| ITEM CODE | POWER | SIZE | CCT |
|-----------|-------|---------------------------|-----|
| NL 4343 | 20W | D-165mm H-370 770 970mm | 3K |
| NL 4344 | 20W | D-165mm H-370 770 970mm | 3K |





POLE LIGHTS



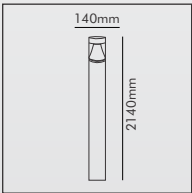
NL 4332-CS



NL 4342-CS

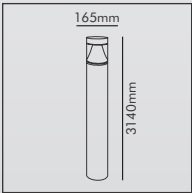
NL 4332-CS

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø140mm
Height - 2140mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 98mm
IP Rating : IP65



NL 4342-CS

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø165mm
Height - 2140mm | 3140mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 120mm
IP Rating : IP65



| ITEM CODE | POWER | SIZE | CCT |
|------------|-------|---------------------------|-----|
| NL 4332-CS | 15W | D-140mm H-2140mm | 3K |
| NL 4342-CS | 25W | D-165mm H-2140 3140mm | 3K |



OUTDOOR
Pole Lights

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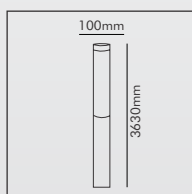
POLE LIGHTS





NL 4325-CS

100 x 2630 / 3630mm

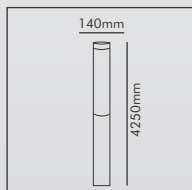


NL 4325-CS

Housing Material : GI
Dimension : Dia - Ø100mm
Height - 2630mm | 3630mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 600mm
IP Rating : IP65

NL 4335-CS

Housing Material : GI
Dimension : Dia - Ø140mm
Height - 2630mm | 4250mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 600mm
IP Rating : IP65



NL 4335-CS

140 x 2630 / 4250mm



| ITEM CODE | POWER | SIZE | CCT |
|------------|-------|-------------------------|--------------|
| NL 4325-CS | 25W | D-100mm H-2630 3630mm | 3K 4K 6K |
| | 35W | D-100mm H-2630 3630mm | 3K 4K 6K |
| NL 4335-CS | 30W | D-140mm H-2630 4250mm | 3K 4K 6K |
| | 45W | D-140mm H-2630 4250mm | 3K 4K 6K |

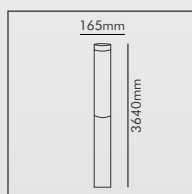


NL 4345-CS

165 x 2640 / 3640mm

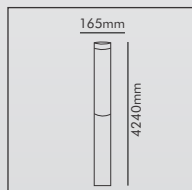
NL 4345-CS

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø165mm
Height - 2640mm | 3640mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 600mm
IP Rating : IP65



NL 4345-CS

Housing Material : Aluminum Die Cast
Dimension : Dia - Ø165mm
Height - 2940mm | 4240mm
LED : SMD | CRI >80
Luminaire Finish : Silver Grey
Optical Part : 900mm
IP Rating : IP65



NL 4345-CS

165 x 2940 / 4240mm

| ITEM CODE | POWER | SIZE | CCT |
|------------|-------|-------------------------|--------------|
| NL 4345-CS | 30W | D-165mm H-2640 3640mm | 3K 4K 6K |
| | 45W | D-165mm H-2630 3630mm | 3K 4K 6K |
| NL 4345-CS | 45W | D-165mm H-2940 4240mm | 3K 4K 6K |
| | 60W | D-165mm H-2940 4240mm | 3K 4K 6K |

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