

DESCRIPTION

Compliance

- ENEC safety mark.
- In compliance with EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 62471.



Dimensions - Area - Weight

| Height | Width | Length | Area exposed to wind (S) | Weight |
|-----------|--------|------------|--------------------------|--------|
| 295/136mm | 333 mm | 704/909 mm | 0.064 m ² | 13 Kg |

Electrical characteristics

| Voltage | Frequency | IP | Insulation class | Cos Ψ | Operative Temp. |
|----------|-----------|----|------------------|------------|-----------------|
| 220-240V | 50-60 Hz | 66 | CL II | > 0.9 | -35°C...+50°C |

Connection

- Suitable for post top or side mounting on tube from \varnothing 48 mm to \varnothing 76 mm.
- Coupling with adjustable tilt of 20° with steps of 5°.
- Fixing by two grub screws M8 lock nuts with stainless steel.

Materials

- Die-cast aluminum (UNI EN 1706).
- Screen made in tempered transparent flat glass.
- Stainless steel fasteners.

Structure - Main components

- Cover tilting in aluminum, for access to wiring compartment, with two buttons for opening.
- Bottom frame in aluminum, with space for the wiring and support of the glass screen.
- Silicone gasket between the lower frame and cover.
- Shield in extra-clear tempered glass with impact resistance IK 08 (EN 62262).
- Osmotic valve for balance internal / external pressure.

Electrical auxiliaries

- Programmable electronic power supply for LED module.
- Automatic electrical disconnecter when opening. Easy positioning to access.
- Terminals for wires with a max. section of 2,5 mm².
- Input power cable with cable gland PG16.
- Plate wiring with appropriate space for auxiliary devices of remote management.

Operations and maintenance

- Opening-closing by means of two buttons on the top cover.
- On opening a disconnecter switch automatically cuts of the power supply.
- Removable wiring plate without the use of tools, with connections between components with plug joints, detachable without tools.
- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog (the operations must be performed with the line power off and with luminaire cold at least once a year).

Code construction

- To create the complete code of the configuration, insert sequential parts of the code on the configuration of the optics (XX), LED modules (YYY) and functions of the power supply (ZZ). Example: **MNAN2L 18 3B6 02**
- Classe I of insulation (in this case the product code is to be requested).

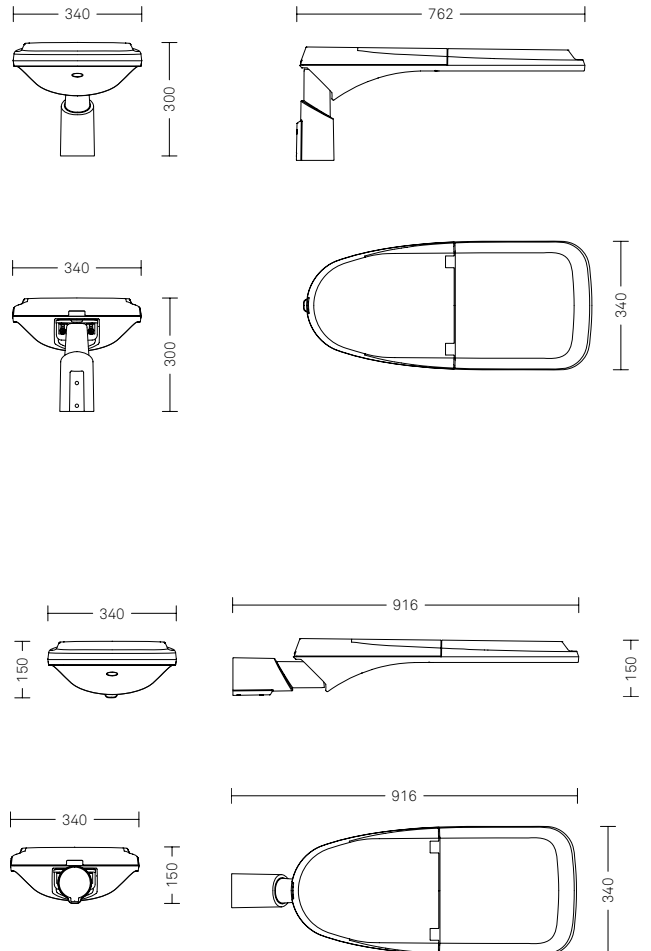
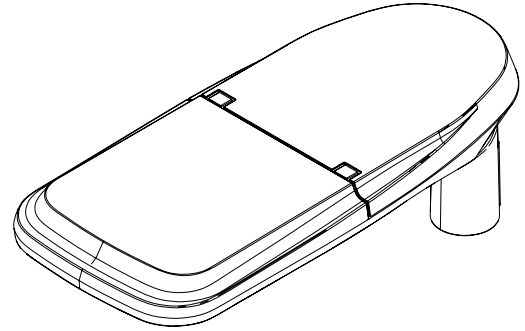
Painting

- A standard powder coating color RAL 9006 textured Superdurable.

Note

- Classe I of insulation (in this case the product code is to be requested).

DRAWINGS



DESCRIPTION

Optics

| Cod. XX | Lighting class | LOR | Class IES |
|---------|---|------|--------------|
| 17 | Type IV geometry (Street or mixed areas lighting) | 100% | Full cut off |
| 18 | Type V geometry (Mixed areas lighting) | 100% | Full cut off |
| 20 | Type II geometry (Street lighting) | 100% | Full cut off |
| 21 | Type III geometry (Street lighting) | 100% | Full cut off |
| 22 | Type III geometry (Street lighting) | 100% | Full cut off |
| 23 | Pedestrian crossing | 100% | Full cut off |

- Modular (2 X 2) refractive lens in PMMA.
- High efficiency reflector in plastic material for flux recovery and glare reduction.
- Tempered transparent flat glass screen, shock resistance: IK08.

Luminous flux

| 3000K | System* | | | LED module | | |
|----------|---------|-----|------|------------|-----|-----|
| Cod. YYY | lm | W | lm/W | n.LED | mA | W |
| 1B5 | 9.000 | 69 | 131 | 36 | 600 | 61 |
| 1B6 | 10.500 | 83 | 129 | 36 | 725 | 75 |
| 1B7 | 12.000 | 88 | 136 | 52 | 550 | 80 |
| 1B8 | 13.500 | 101 | 133 | 52 | 625 | 92 |
| 1B9 | 15.000 | 114 | 131 | 52 | 700 | 104 |

Luminous flux

| 4000K | System* | | | LED module | | |
|----------|---------|-----|------|------------|-----|-----|
| Cod. YYY | lm | W | lm/W | n.LED | mA | W |
| 3B5 | 9.000 | 64 | 141 | 36 | 590 | 62 |
| 3B6 | 10.500 | 77 | 136 | 36 | 704 | 74 |
| 3B7 | 12.000 | 84 | 142 | 52 | 538 | 81 |
| 3B8 | 13.500 | 97 | 140 | 52 | 617 | 93 |
| 3B9 | 15.000 | 110 | 136 | 52 | 696 | 105 |
| 3BA | 18.000 | 133 | 135 | 60 | 727 | 127 |

- The energetic values in the table are referred to the complete system.
- Power LEDs module on printed circuit board with metal core plate.
- Internal heat sink in cast aluminum in continuity with external frame.
- NTC sensor on LED plate for control of dangerous temperatures.
- Estimated life: 100.000 h (L90 - Ta 25°C).
- Colour Rendering Index: CRI > 70
- Photobiological risk: class I to class II at 3.5 meters from source (IEC/TR 62778).

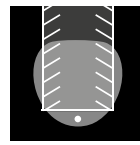
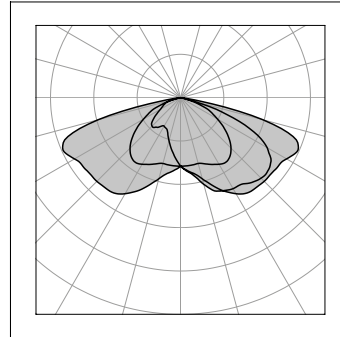
Power supply - characteristics and functions

| Cod. ZZ | Functions |
|---------|--|
| 02 | 1-10V + NCL (Analogic control + Neri costant lumen) |
| 04 | AmpDim + NCL (Analogic control + Neri costant lumen) |
| 06 | DALI + NCL (Digital control + Neri costant lumen) |
| 14 | NVL6H + NCL (autodimming -30% x 6h + Neri costant lumen) |

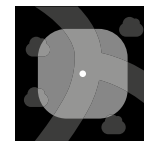
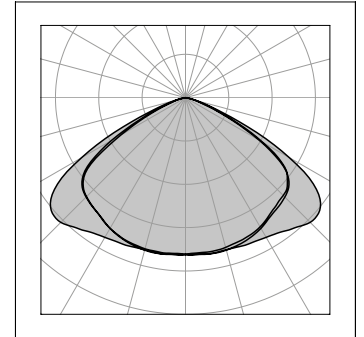
- Programmable electronic power supply with auto self diagnostics functions.
- NFC programmable system with no power supply on.
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II) and 10kV/10kV (CL I, CL II) in presence of additional protections (on demand).
- Estimated life B10 a 100.000 h (Ta 25°C).

PHOTOMETRIC CURVES

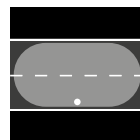
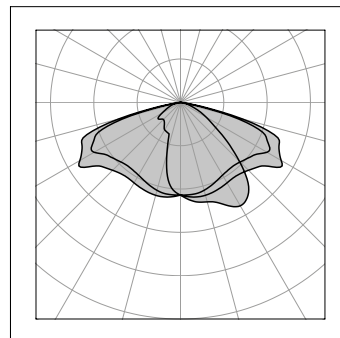
Type IV (NLG 17)
Roadways and mixed areas



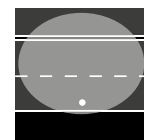
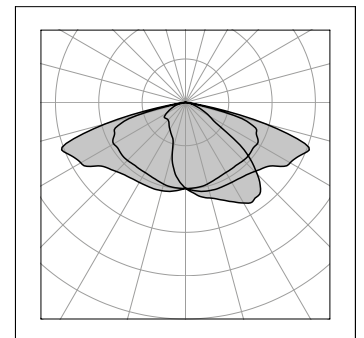
Type V (NLG 18)
Roadways - Center road installation



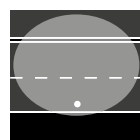
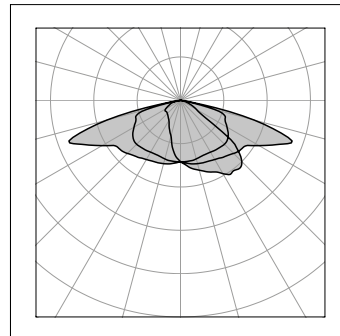
Type II (NLG 20)
Roadways - Side road installation



Type III (NLG 21)
Roadways with sidewalk



Type III (NLG 22)
Roadways with sidewalk



Ottica mod. 23
Pedestrian crossing

