NERI

Pictor Bollard System

Rev. 01 - 2022/04/19

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Pictor Bollard System

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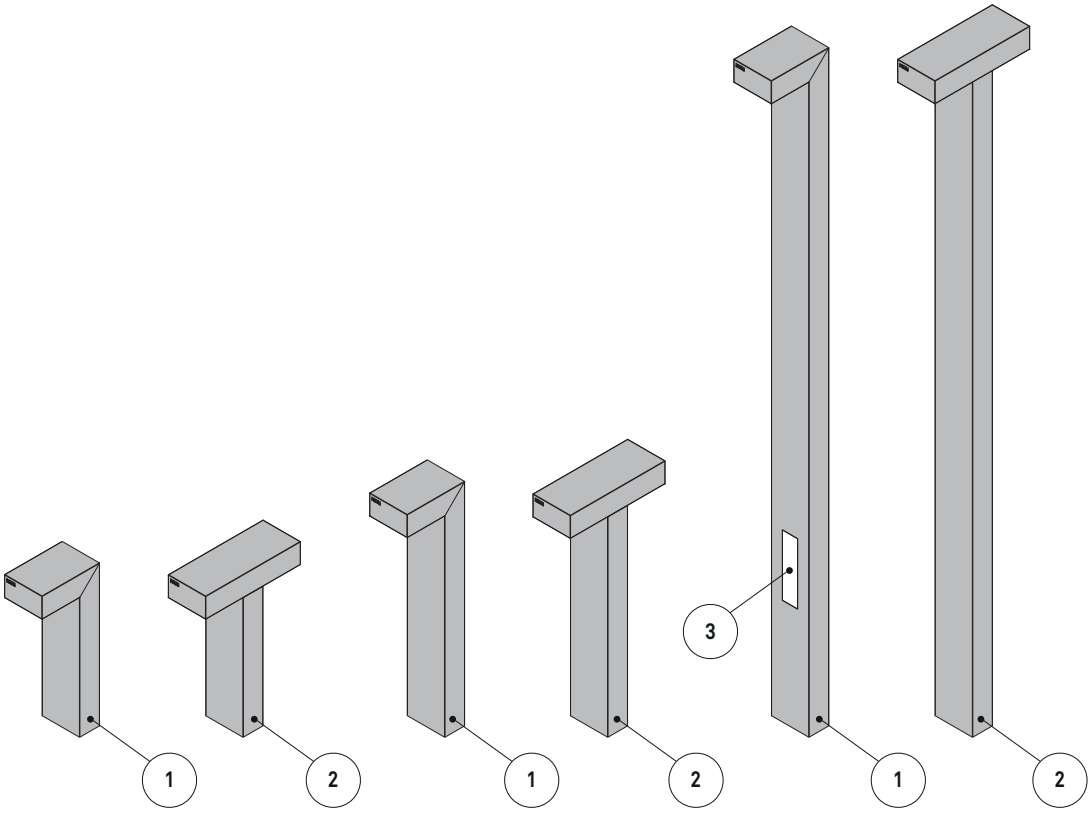
The Pictor Bollard system allows numerous configurations. The number of lighting fixtures and accessories varies according to the main structure of the chosen bollard.

1 - Main bollard structure with one luminaire
Available versions:
h 600mm
h 900mm
h 2500mm

2 - Main bollard structure with two luminaires
Available versions:
h 600mm
h 900mm
h 2500mm

3 - Decorative LED module accessory

Other accessories available on request:
- Quick connector
- PIR presence detector
- SPD 10kV DM/CM



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Pictor Bollard System

Cod. **BOPIC**

Technical sheet

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BOLLARD - h 600mm

Compliance

- In compliance with EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 61000-3-2/3; IEC/TR 62778.

IP66 IK08

Dimensions - Area - Weight

Height	Width	Lenght	Weight	Area exposed to wind
600 mm	160 mm	245 mm	11.5 Kg	0.06 m^2

Electrical characteristics

Voltage	Frequency	Cos ϕ	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II ⧈ - CLI ⏚	-25°C / +50°C

Mounting

- Rectangular flange 150 x 77 mm (thickness 5 mm) for mounting with four anchors bolts.

Materials

- Extruded aluminium.
- Cast aluminium.
- Aluminium sheet.
- Steel sheet.
- Extra-clear transparent flat glass.
- Stainless and burnished steel screws.

Structure - Main components

- External frame in extruded aluminium.
- Shield in extra-clear tempered glass with impact resistance IK08 (EN 62262).
- Integrated heat sink in aluminium.
- Anchors bolts supplied.

Electrical auxiliaries

- Electronic power supply with protection against short circuits, overheating and power surges with an estimated B10 duration of 100,000 h.
- Supplied with cable
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II).

Operations and maintenance

- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog and tightening control to the support - refer to the product's installation and maintenance manual -.
- It is the installer's responsibility to ensure correct installation and electrical connection in accordance with the applicable standards.

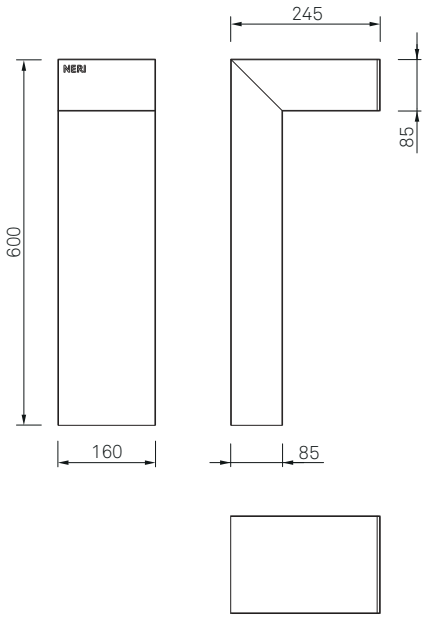
Painting

- Powder coating.
- Standard colors: Neri grey, pure white (RAL9010), jet black (RAL9005), moss green (RAL6005), white aluminium (RAL9006), grey aluminium (RAL9007).

Accessories (on request)

- Quick connector.
- PIR presence detector.
- SPD 10kV DM/CM.
- Prismatic flat glass.

DRAWINGS



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BOLLARD - h 900mm

Compliance

- In compliance with EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 61000-3-2/3; IEC/TR 62778.

IP66 IK08

Dimensions - Area - Weight

Height	Width	Lenght	Weight	Area exposed to wind
900 mm	160 mm	245 mm	13 Kg	0.08 m^2

Electrical characteristics

Voltage	Frequency	Cos ϕ	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II - CLI	-25°C / +50°C

Mounting

- Rectangular flange 150 x 77 mm (thickness 5 mm) for mounting with four anchors bolts.

Materials

- Extruded aluminium.
- Cast aluminium.
- Aluminium sheet.
- Steel sheet.
- Extra-clear transparent flat glass.
- Stainless and burnished steel screws.

Structure - Main components

- External frame in extruded aluminium.
- Shield in extra-clear tempered glass with impact resistance IK08 (EN 62262).
- Integrated heat sink in aluminium.
- Anchors bolts supplied.

Electrical auxiliaries

- Electronic power supply with protection against short circuits, overheating and power surges with an estimated B10 duration of 100,000 h.
- Supplied with cable
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II).

Operations and maintenance

- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog and tightening control to the support - refer to the product's installation and maintenance manual -.
- It is the installer's responsibility to ensure correct installation and electrical connection in accordance with the applicable standards.

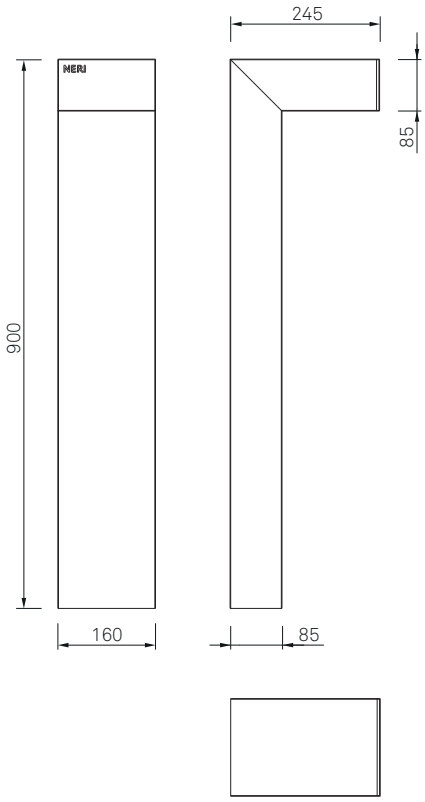
Painting

- Powder coating.
- Standard colors: Neri grey, pure white (RAL9010), jet black (RAL9005), moss green (RAL6005), white aluminium (RAL9006), grey aluminium (RAL9007).

Accessories (on request)

- Quick connector.
- PIR presence detector.
- SPD 10kV DM/CM.
- Prismatic flat glass.

DRAWINGS



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BOLLARD - DOUBLE LIGHT SOURCES - h 600mm

Compliance

- In compliance with EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 61000-3-2/3; IEC/TR 62778.

IP66 IK08

Dimensions - Area - Weight

Height	Width	Lenght	Weight	Area exposed to wind
600 mm	160 mm	405 mm	13 Kg	0.07 m^2

Electrical characteristics

Voltage	Frequency	Cos ϕ	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II ⧈ - CLI ⏚	-25°C / +50°C

Mounting

- Rectangular flange 150 x 77 mm (thickness 5 mm) for mounting with four anchors bolts.

Materials

- Extruded aluminium.
- Cast aluminium.
- Aluminium sheet.
- Steel sheet.
- Extra-clear transparent flat glass.
- Stainless and burnished steel screws.

Structure - Main components

- External frame in extruded aluminium.
- Shield in extra-clear tempered glass with impact resistance IK08 (EN 62262).
- Integrated heat sink in aluminium.
- Anchors bolts supplied.

Electrical auxiliaries

- Electronic power supply with protection against short circuits, overheating and power surges with an estimated B10 duration of 100,000 h.
- Supplied with cable
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II).

Operations and maintenance

- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog and tightening control to the support - refer to the product's installation and maintenance manual -.
- It is the installer's responsibility to ensure correct installation and electrical connection in accordance with the applicable standards.

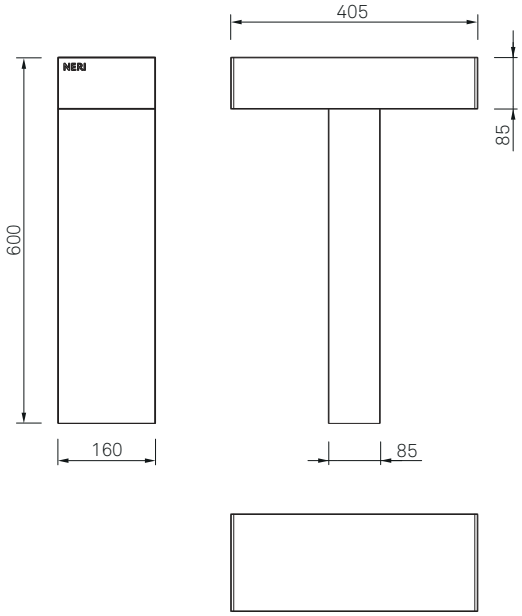
Painting

- Powder coating.
- Standard colors: Neri grey, pure white (RAL9010), jet black (RAL9005), moss green (RAL6005), white aluminium (RAL9006), grey aluminium (RAL9007).

Accessories (on request)

- Quick connector.
- PIR presence detector.
- Prismatic flat glass.

DRAWINGS



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BOLLARD - DOUBLE LIGHT SOURCES - h 900mm

Compliance

- In compliance with EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 61000-3-2/3; IEC/TR 62778.

IP66 IK08

Dimensions - Area - Weight

Height	Width	Lenght	Weight	Area exposed to wind
900 mm	160 mm	405 mm	14.5 Kg	0.10 m^2

Electrical characteristics

Voltage	Frequency	Cos ϕ	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II - CLI	-25°C / +50°C

Mounting

- Rectangular flange 150 x 77 mm (thickness 5 mm) for mounting with four anchors bolts.

Materials

- Extruded aluminium.
- Cast aluminium.
- Aluminium sheet.
- Steel sheet.
- Extra-clear transparent flat glass.
- Stainless and burnished steel screws.

Structure - Main components

- External frame in extruded aluminium.
- Shield in extra-clear tempered glass with impact resistance IK08 (EN 62262).
- Integrated heat sink in aluminium.
- Anchors bolts supplied.

Electrical auxiliaries

- Electronic power supply with protection against short circuits, overheating and power surges with an estimated B10 duration of 100,000 h.
- Supplied with cable
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II).

Operations and maintenance

- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog and tightening control to the support - refer to the product's installation and maintenance manual -.
- It is the installer's responsibility to ensure correct installation and electrical connection in accordance with the applicable standards.

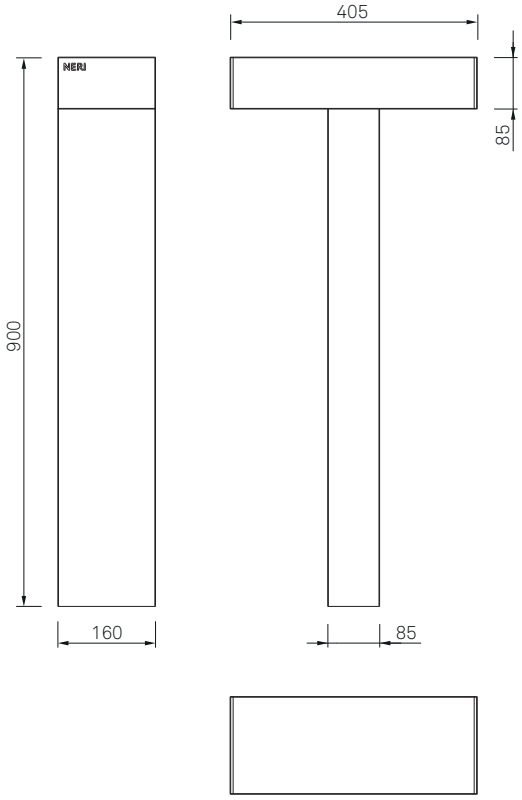
Painting

- Powder coating.
- Standard colors: Neri grey, pure white (RAL9010), jet black (RAL9005), moss green (RAL6005), white aluminium (RAL9006), grey aluminium (RAL9007).

Accessories (on request)

- Quick connector.
- PIR presence detector.
- Prismatic flat glass.

DRAWINGS



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Optics: Type II - IV
Screen: Transparent

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LUMINAIRE CONFIGURATION

Optic configuration - Transparent screen

Lighting distribution	Distribution type	LOR*	ULOR
Type II - D	Asymmetric	100%	0%
Type IV - A	Forward throw	100%	0%

* optical efficiency of the device due to physical shielding.
- Modular (2 X 2) refractive lens in PMMA.
- Maximum luminous intensity class γ ≥ 90°: < 0.49 cd/klm.
- Wide range of optical lighting distributions (on request).
- Reflector to recover luminous flux and reduce glare.

Luminous flux - 3000K

System**			LED module			
lm	W	lm/W	n.LED	mA	W	lm/W
550	5.2	105	8	2 x 90	3.8	143
1000	9.3	108	8	2 x 167	7.2	138

Luminous flux - 4000K

System**			LED module			
lm	W	lm/W	n.LED	mA	W	lm/W
550	5.0	110	8	2 x 86	3.6	151
1000	8.8	113	8	2 x 159	6.8	146

** The energetic values in the table are referred to the LED + Power supply.
- CCT 2200K, 2700K and Amber on demand.
- LED Type: Lumileds Luxeon 5050
  LED efficacy: 164 lm/W @ Tj=25°, 800 mA, 3000K
  LED efficacy: 169 lm/W @ Tj=25°, 800 mA, 4000K
- Life time specifi cation for gradual light output degradation
  (EN 62722-2-1, LM80 data) 100,000h L90B10 (Tq = 25°C).
- Color rendering index (Ra): ≥ 80
- Angular color uniformity Δu'v' ≤ 0,003
- Photobiological risk (IEC/TR 62778): RG1 Unlimited

Driver

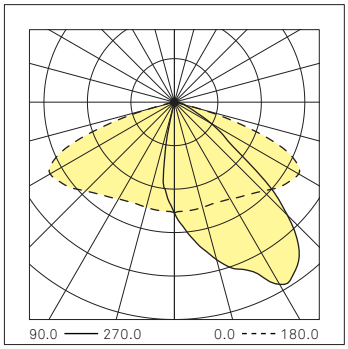
Driver functions
1-10V + NCL (Analogic control + Neri Constant Lumen)
DALI + NCL (Digital control + Neri Constant Lumen)
NVL6H + NCL (Autodimming -30% x 6h + Neri Constant Lumen)
ON-OFF + NCL (On-Off + Neri Constant Lumen)

Note: The double light sources configuration requires the same parameters for both light sources (optical configuration, luminous flux and driver function).

POLAR DIAGRAMS

Type II – D

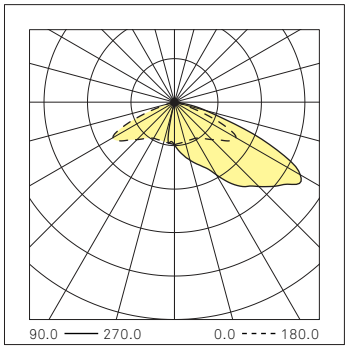
Luminous intensity class G*4



CIE Flux code				
N.1	N.2	N.3	N.4	N.5
39	76	97	100	100

Type IV - A

Luminous intensity class G*3



CIE Flux code				
N.1	N.2	N.3	N.4	N.5
26	65	96	100	100

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BOLLARD - h 2500mm

Compliance
- In compliance with EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 61000-3-2/3; IEC/TR 62778.

IP66 IK06

Dimensions - Area - Weight

Height	Width	Lenght	Weight	Area exposed to wind
2500 mm	160 mm	245 mm	20.5 Kg	0.21 m^2

Electrical characteristics

Voltage	Frequency	Cos ϕ	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II ⧈ - CLI ⏚	-25°C / +50°C

Mounting
- Rectangular flange 150 x 77 mm (thickness 5 mm) for mounting with four anchors bolts.

Materials
- Extruded aluminium.
- Cast aluminium.
- Aluminium sheet.
- Steel sheet.
- Prismatic flat glass.
- Stainless and burnished steel screws.

Structure - Main components
- External frame in extruded aluminium.
- Shield in prismatic tempered glass with impact resistance IK06 (EN 62262).
- Integrated heat sink in aluminium.
- Anchors bolts supplied.

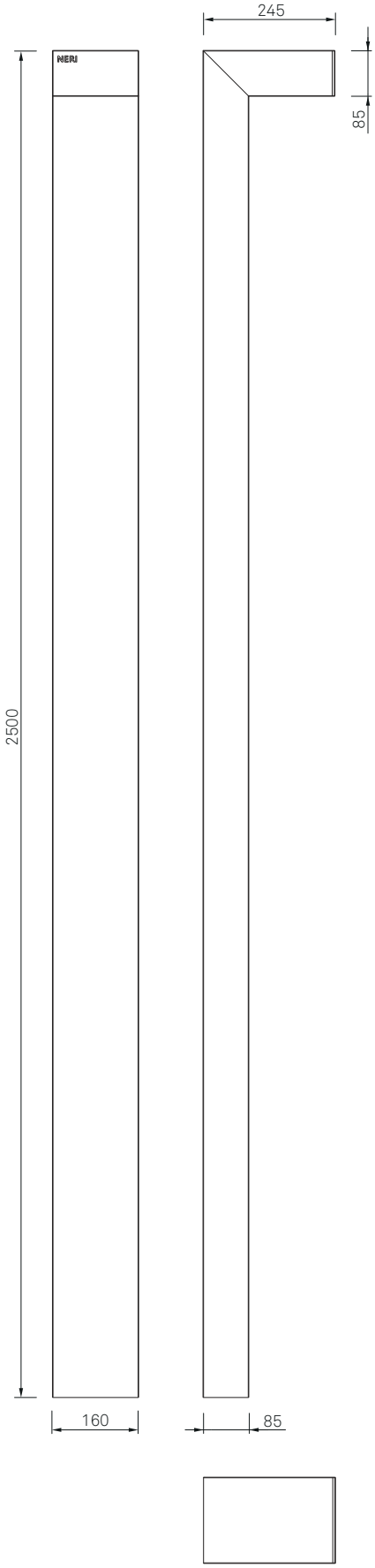
Electrical auxiliaries
- Electronic power supply with protection against short circuits, overheating and power surges with an estimated B10 duration of 100,000 h.
- Supplied with cable
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II).

Operations and maintenance
- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog and tightening control to the support - refer to the product's installation and maintenance manual -.
- It is the installer's responsibility to ensure correct installation and electrical connection in accordance with the applicable standards.

Painting
- Powder coating.
- Standard colors: Neri grey, pure white (RAL9010), jet black (RAL9005), moss green (RAL6005), white aluminium (RAL9006), grey aluminium (RAL9007).

Accessories (on request)
- Quick connector.
- PIR presence detector.
- SPD 10kV DM/CM.
- Decorative LED module.
- Extra-clear transparent flat glass

DRAWINGS



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Pictor Bollard System

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BOLLARD - DOUBLE LIGHT SOURCES - h 2500mm

Compliance

- In compliance with EN 60598-1; EN 60598-2-3; EN 62031; EN 55015 EMC; EN 61547 EMC; EN 61000-3-2/3; IEC/TR 62778.

IP66 IK06 A++

Dimensions - Area - Weight

Height	Width	Lenght	Weight	Area exposed to wind
2500 mm	160 mm	405 mm	22.0 Kg	0.23 m^2

Electrical characteristics

Voltage	Frequency	Cos ϕ	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II ⧈ - CLI ⏚	-25°C / +50°C

Mounting

- Rectangular flange 150 x 77 mm (thickness 5 mm) for mounting with four anchors bolts.

Materials

- Extruded aluminium.
- Cast aluminium.
- Aluminium sheet.
- Steel sheet.
- Prismatic flat glass.
- Stainless and burnished steel screws.

Structure - Main components

- External frame in extruded aluminium.
- Shield in prismatic tempered glass with impact resistance IK06 (EN 62262).
- Integrated heat sink in aluminium.
- Anchors bolts supplied.

Electrical auxiliaries

- Electronic power supply with protection against short circuits, overheating and power surges with an estimated B10 duration of 100,000 h.
- Supplied with cable
- Standard surge protection for differential/common mode 6kV/10kV (CL I, CL II).

Operations and maintenance

- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog and tightening control to the support - refer to the product's installation and maintenance manual -.
- It is the installer's responsibility to ensure correct installation and electrical connection in accordance with the applicable standards.

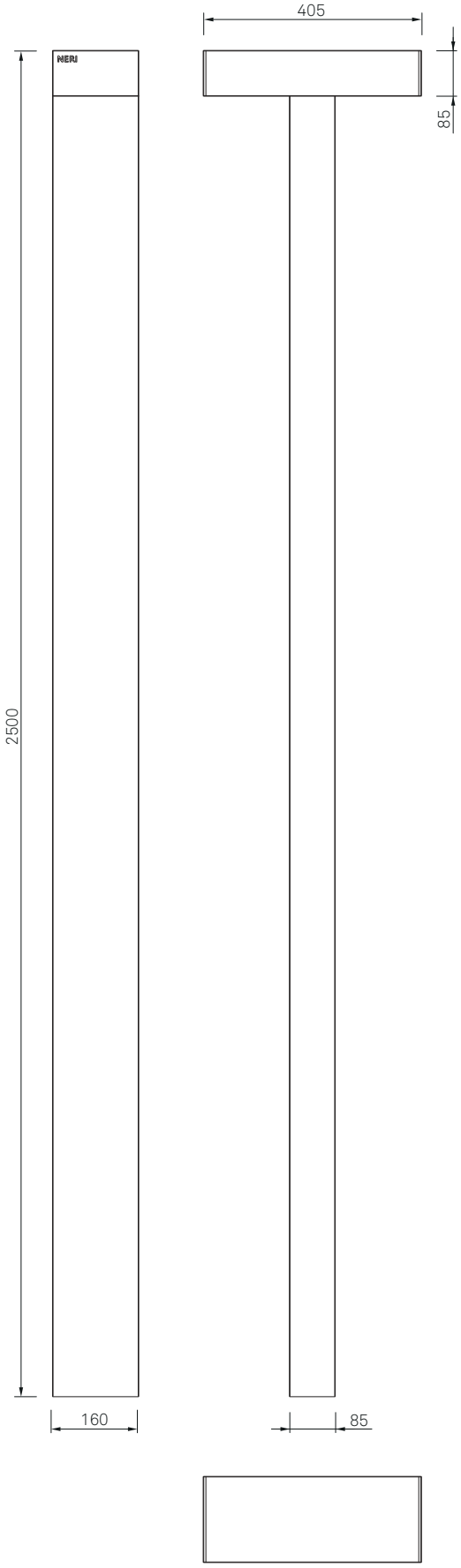
Painting

- Powder coating.
- Standard colors: Neri grey, pure white (RAL9010), jet black (RAL9005), moss green (RAL6005), white aluminium (RAL9006), grey aluminium (RAL9007).

Accessories (on request)

- Quick connector.
- PIR presence detector.
- Decorative LED module.
- Extra-clear transparent flat glass

DRAWINGS



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Optics: Type II - IV
Screen: Prismatic

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LUMINAIRE CONFIGURATION

Optic configuration - Prismatic screen

Lighting distribution	Distribution type	LOR*	ULOR
Type II - D	Asymmetric	100%	0%
Type IV - A	Forward throw	100%	0%

* optical efficiency of the device due to physical shielding.
- Modular (2 X 2) refractive lens in PMMA.
- Maximum luminous intensity class $\gamma \geq 90°$: < 0.49 cd/klm.
- Wide range of optical lighting distributions (on request).
- Reflector to recover luminous flux and reduce glare.

Luminous flux - 3000K

System**			LED module			
lm	W	lm/W	n.LED	mA	W	lm/W
1500	13.0	116	16	4 x 124	10.6	141
2500	21.3	117	16	4 x 212	7.2	138

Luminous flux - 4000K

System**			LED module			
lm	W	lm/W	n.LED	mA	W	lm/W
1500	12.4	121	16	4 x 118	10.4	149
2500	20.2	124	16	4 x 201	17.5	143

** The energetic values in the table are referred to the LED + Power supply.
- CCT 2200K, 2700K and Amber on demand.
- LED Type: Lumileds Luxeon 5050
  LED efficacy: 164 lm/W @ Tj=25°, 800 mA, 3000K
  LED efficacy: 169 lm/W @ Tj=25°, 800 mA, 4000K
- Life time specifi cation for gradual light output degradation
  (EN 62722-2-1, LM80 data) 100,000h L90B10 (Tq = 25°C).
- Color rendering index (Ra): ≥ 80
- Angular color uniformity Δu'v' ≤ 0,003
- Photobiological risk (IEC/TR 62778): RG1 Unlimited

Driver

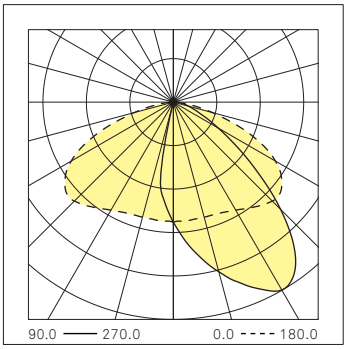
Driver functions
1-10V + NCL (Analogic control + Neri Constant Lumen)
DALI + NCL (Digital control + Neri Constant Lumen)
NVL6H + NCL (Autodimming -30% x 6h + Neri Constant Lumen)
ON-OFF + NCL (On-Off + Neri Constant Lumen)

Note: The double light sources configuration requires the same parameters for both light sources (optical configuration, luminous flux and driver function).
The maximum luminous flux allowed is 4500lm.

POLAR DIAGRAMS

Type II – D

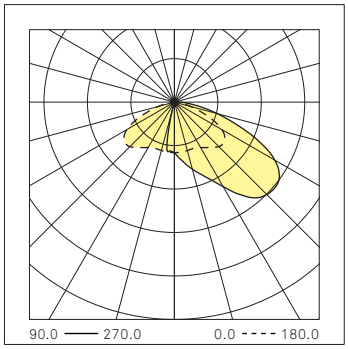
Luminous intensity class G*6



CIE Flux code				
N.1	N.2	N.3	N.4	N.5
42	78	96	100	100

Type IV - A

Luminous intensity class G*2



CIE Flux code				
N.1	N.2	N.3	N.4	N.5
31	69	94	100	100

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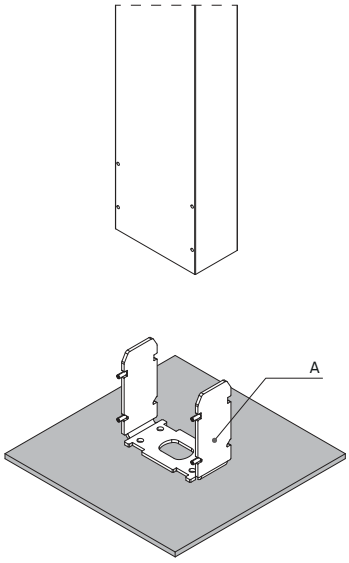
MOUNTING

The system is set-up for mounting with rectangular flange (anchors bolts supplied).

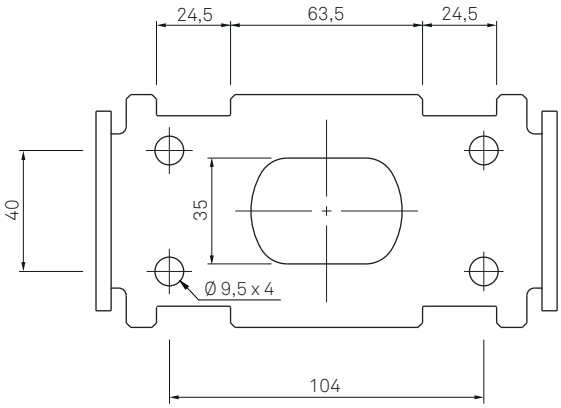
Mounting with flange



Ground fixing element (A)

Cod. 9525.389.013

Flange detail - measures in mm



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DECORATIVE LED MODULE

The Pictor system allows the installation of a decorative LED module* on the 2500 mm high version of the bollard; the module is equipped with a customizable protection screen.
The available dimensions are 1000mm x 80mm and 320mm x 80mm.

Available CCT:
3000K, 4000K, RGB

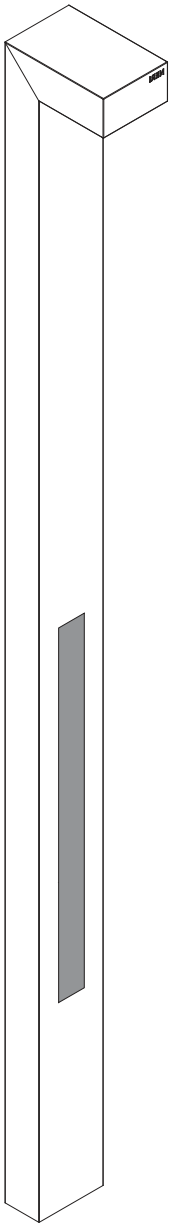
Driver functions
ON-OFF, DMX

Insulation class
CLII ⧈ - CLI ⏚

*Only one decorative LED module can be installed in each chosen configuration.
The module can be positioned at a minimum height of 450 mm on the front frame (Fig. 1) or on the rear frame (Fig. 2).

Decorative LED module (h 320mm)
Cod. OPPIC0000S000002 - 3000K
Cod. OPPIC0000S000003 - 4000K
Cod. OPPIC0000S000004 - RGB

Decorative LED module (h 1000mm)
Cod. OPPIC0000S000005 - 3000K
Cod. OPPIC0000S000006 - 4000K
Cod. OPPIC0000S000007 - RGB



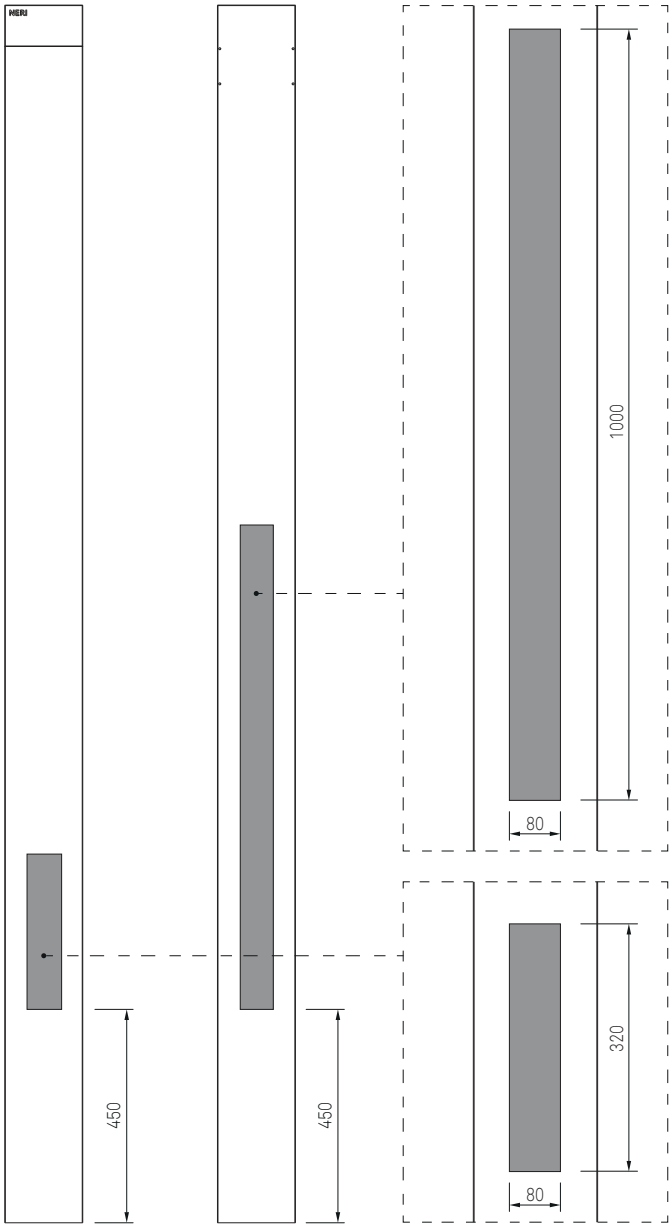


Fig. 1 Fig. 2