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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.

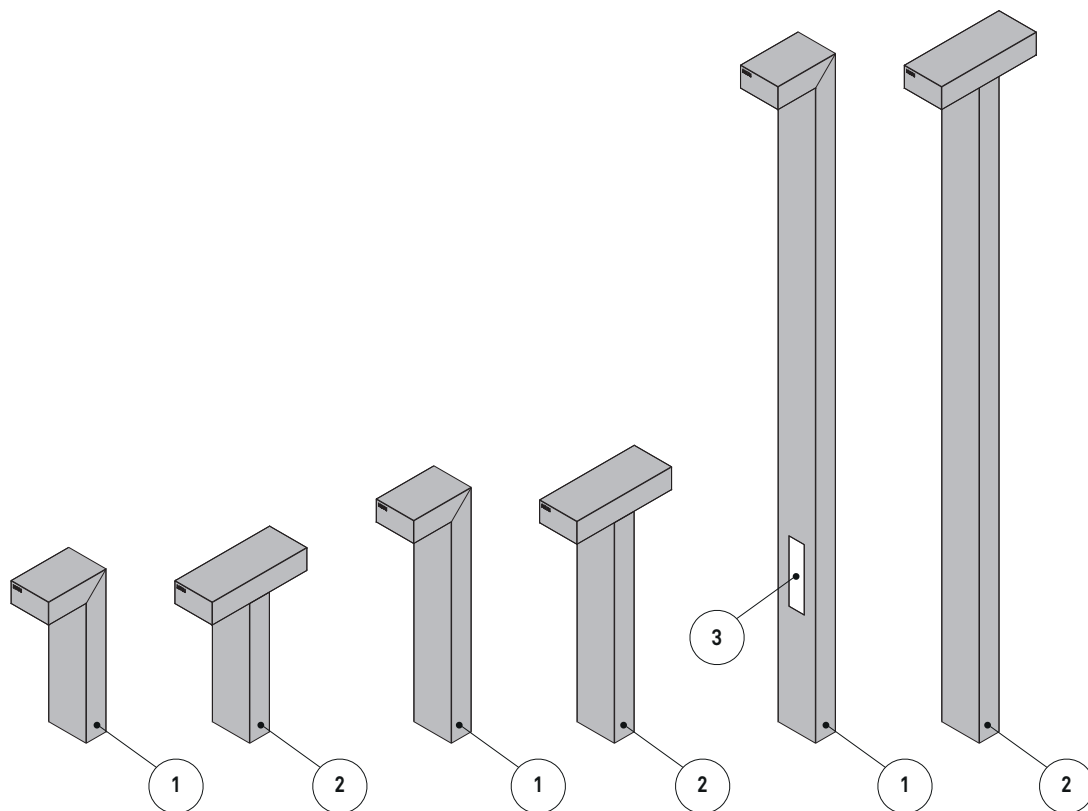
1 - Main bollard structure with one luminaire  
Available versions:  
h 600mm  
h 900mm  
h 2500mm

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



**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.



**Dimensions - Area - Weight**

Height	Width	Lenght	Weight	Area exposed to wind
600 mm	160 mm	245 mm	11.5 Kg	0.06 m²

**Electrical characteristics**

Voltage	Frequency	Cos $\phi$	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II  - CL I	-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.

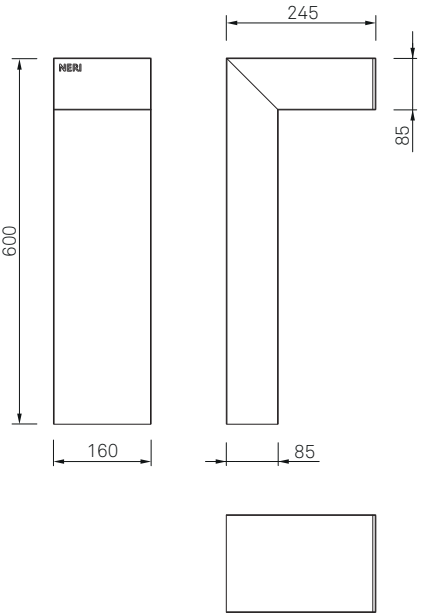
**Painting**

- 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**



**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.



**Dimensions - Area - Weight**

Height	Width	Lenght	Weight	Area exposed to wind
900 mm	160 mm	245 mm	13 Kg	0.08 m²

**Electrical characteristics**

Voltage	Frequency	Cos $\phi$	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II  - CL I	-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.

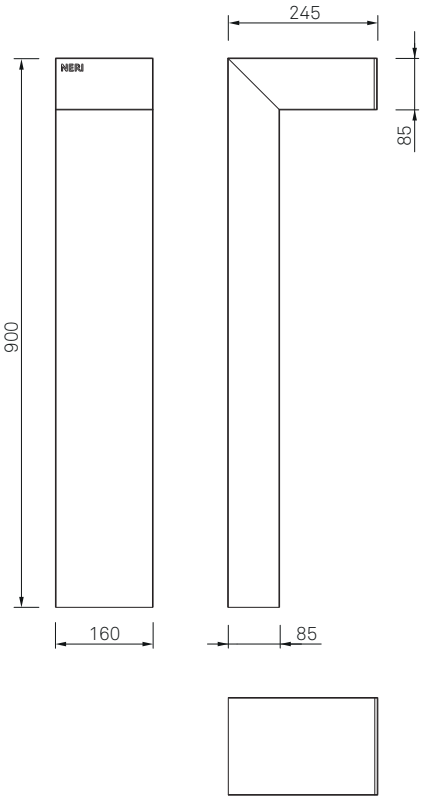
**Painting**

- 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**



**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.

**Dimensions - Area - Weight**

Height	Width	Lenght	Weight	Area exposed to wind
600 mm	160 mm	405 mm	13 Kg	0,07 m²

**Electrical characteristics**

Voltage	Frequency	Cos $\phi$	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II  - CL I	-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**

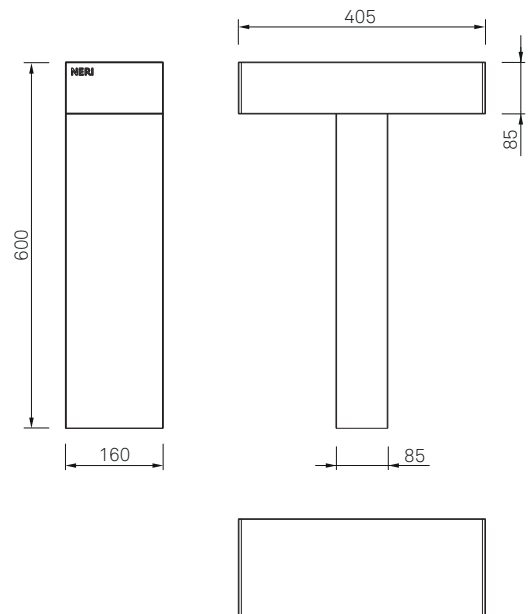
- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog and tightening control to the support - refer to the product's installation and maintenance manual -.
- It is the installer's responsibility to ensure correct installation and electrical connection in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

**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.



**Dimensions - Area - Weight**

Height	Width	Lenght	Weight	Area exposed to wind
900 mm	160 mm	405 mm	14.5 Kg	0.10 m²

**Electrical characteristics**

Voltage	Frequency	Cos $\phi$	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II  - CL I	-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.

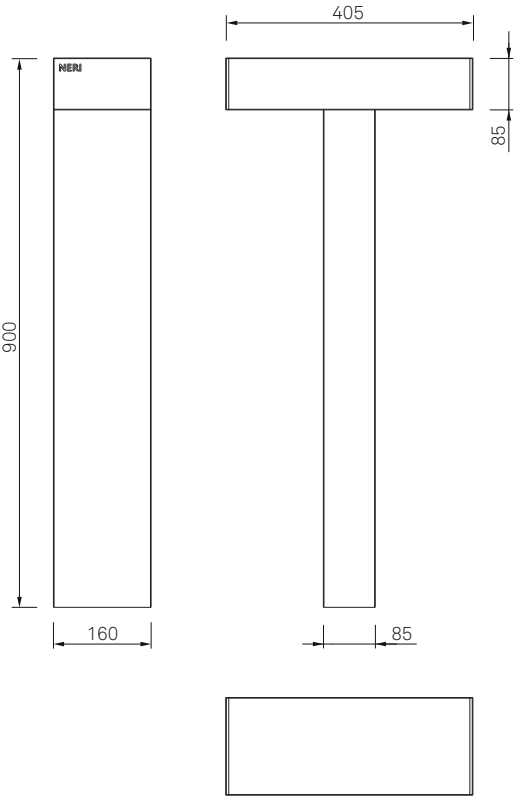
**Painting**

- 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**



## 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  $\gamma \geq 90^\circ$ :  $< 0.49 \text{ cd/klm}$ .  
- 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:  $164 \text{ lm/W}$  @  $T_j = 25^\circ$ , 800 mA, 3000K  
LED efficacy:  $169 \text{ lm/W}$  @  $T_j = 25^\circ$ , 800 mA, 4000K  
- Life time specification for gradual light output degradation  
(EN 62722-2-1, LM80 data) 100,000h L90B10 ( $T_q = 25^\circ\text{C}$ ).  
- Color rendering index (Ra):  $\geq 80$   
- Angular color uniformity  $\Delta u'v' \leq 0,003$   
- Photobiological risk (IEC/TR 62778): RG1 Unlimited

## Driver

## Driver functions

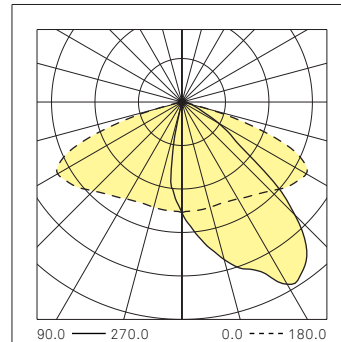
**1-10V + NCL** (Analogic control + Neri Constant Lumen)**DALI + NCL** (Digital control + Neri Constant Lumen)**NVL6H + NCL** (Autodimming -30% x 6h + Neri Constant Lumen)**ON-OFF + NCL** (On-Off + Neri Constant Lumen)

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



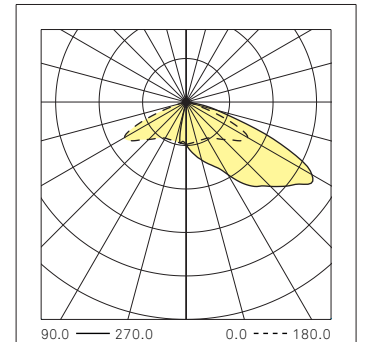
## CIE Flux code

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



**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.



**Dimensions - Area - Weight**

Height	Width	Lenght	Weight	Area exposed to wind
2500 mm	160 mm	245 mm	20.5 Kg	0.21 m²

**Electrical characteristics**

Voltage	Frequency	Cos $\phi$	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II  - CL I	-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.

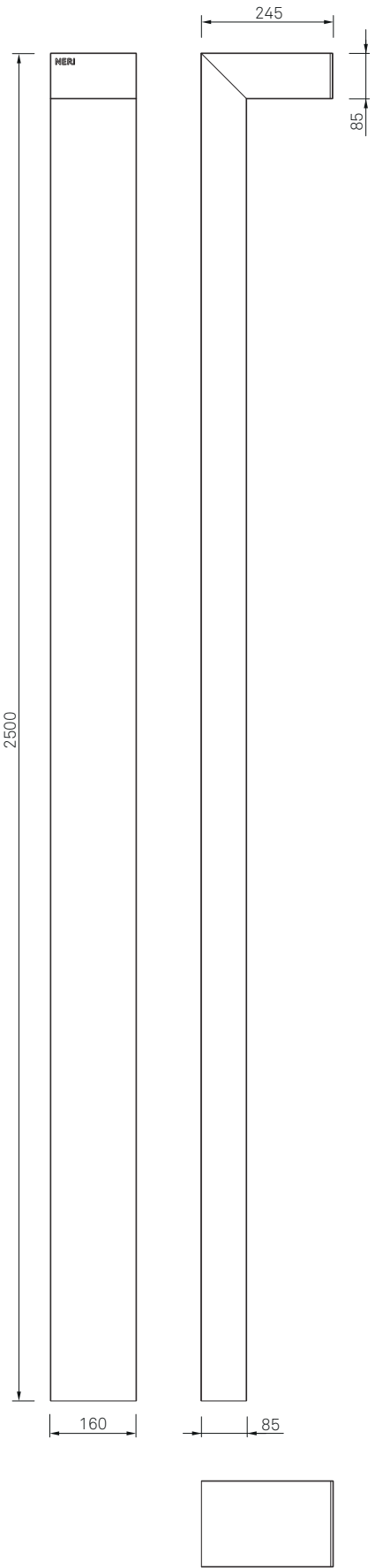
**Painting**

- 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**



**BOLLARD - DOUBLE LIGHT SOURCES - h 2500mm**

**DRAWINGS**

**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.



**Dimensions - Area - Weight**

Height	Width	Lenght	Weight	Area exposed to wind
2500 mm	160 mm	405 mm	22.0 Kg	0.23 m²

**Electrical characteristics**

Voltage	Frequency	Cos $\phi$	Insulation class	Operative Temp.
220-240V	50-60Hz	> 0,9	CL II  - CL I	-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**

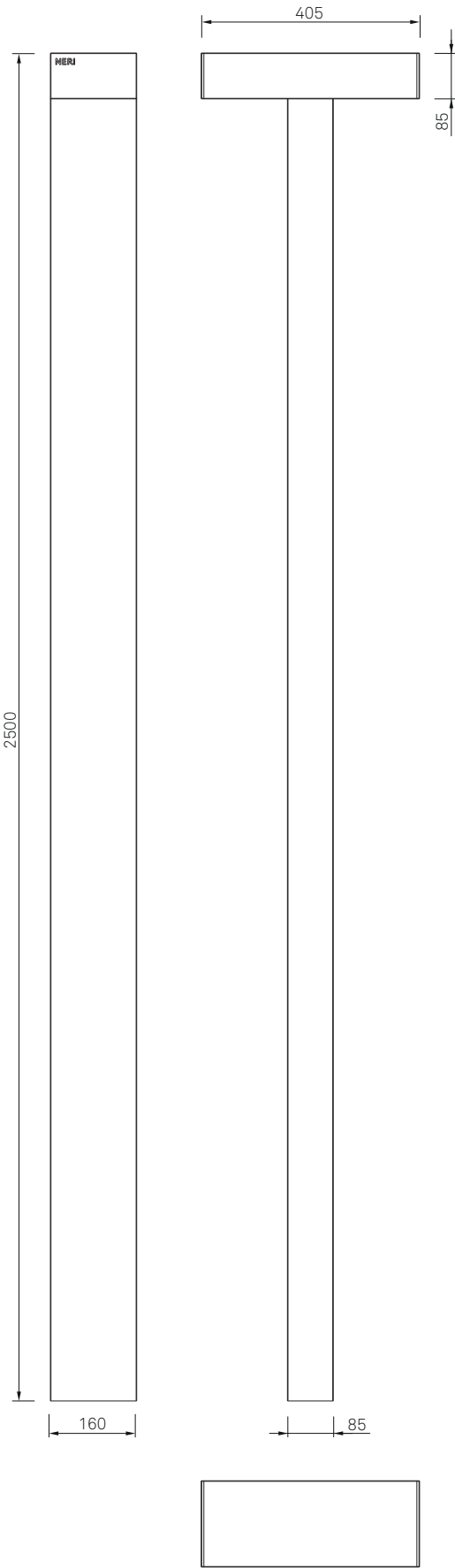
- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog and tightening control to the support - refer to the product's installation and maintenance manual -.
- It is the installer's responsibility to ensure correct installation and electrical connection in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



## 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  $\gamma \geq 90^\circ$ :  $< 0.49 \text{ cd/klm}$ .  
- 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:  $164 \text{ lm/W @ } T_j=25^\circ, 800 \text{ mA}, 3000\text{K}$   
  LED efficacy:  $169 \text{ lm/W @ } T_j=25^\circ, 800 \text{ mA}, 4000\text{K}$   
- Life time specification for gradual light output degradation  
  (EN 62722-2-1, LM80 data) 100.000h L90B10 ( $T_q = 25^\circ\text{C}$ ).  
- Color rendering index (Ra):  $\geq 80$   
- Angular color uniformity  $\Delta u'v' \leq 0,003$   
- 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)

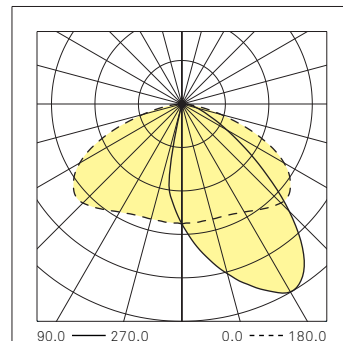
Note: The double light sources configuration requires the same parameters for both light sources (optical configuration, luminous flux and driver function).

The maximum luminous flux allowed is 4500lm.

## POLAR DIAGRAMS

## Type II - D

Luminous intensity class G\*6

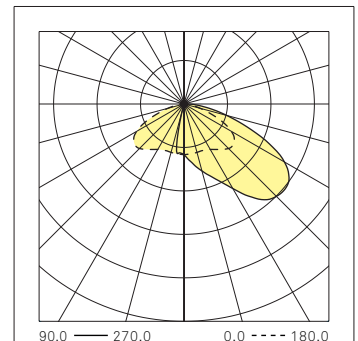


CIE Flux code				
N.1	N.2	N.3	N.4	N.5
42	78	96	100	100



## Type IV - A

Luminous intensity class G\*2



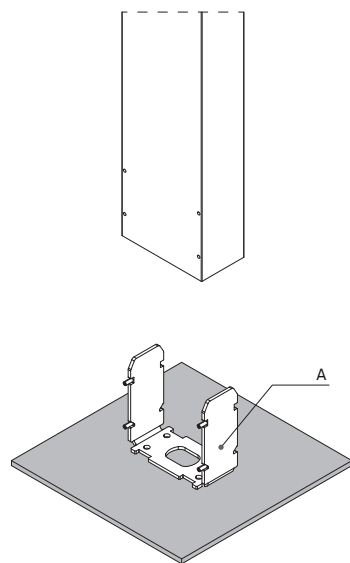
CIE Flux code				
N.1	N.2	N.3	N.4	N.5
31	69	94	100	100



## MOUNTING

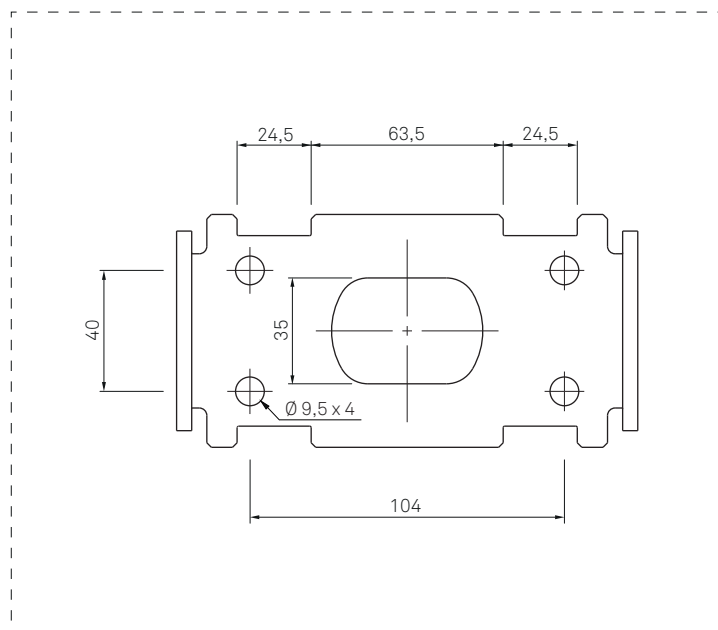
The system is set-up for mounting with rectangular flange (anchors bolts supplied).

### Mounting with flange



Ground fixing element (A)  
Cod. 9525.389.013

### Flange detail - measures in mm



## 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. OPPIC0000S0000002 - 3000K  
Cod. OPPIC0000S0000003 - 4000K  
Cod. OPPIC0000S0000004 - RGB

### Decorative LED module (h 1000mm)

Cod. OPPIC0000S0000005 - 3000K  
Cod. OPPIC0000S0000006 - 4000K  
Cod. OPPIC0000S0000007 - RGB

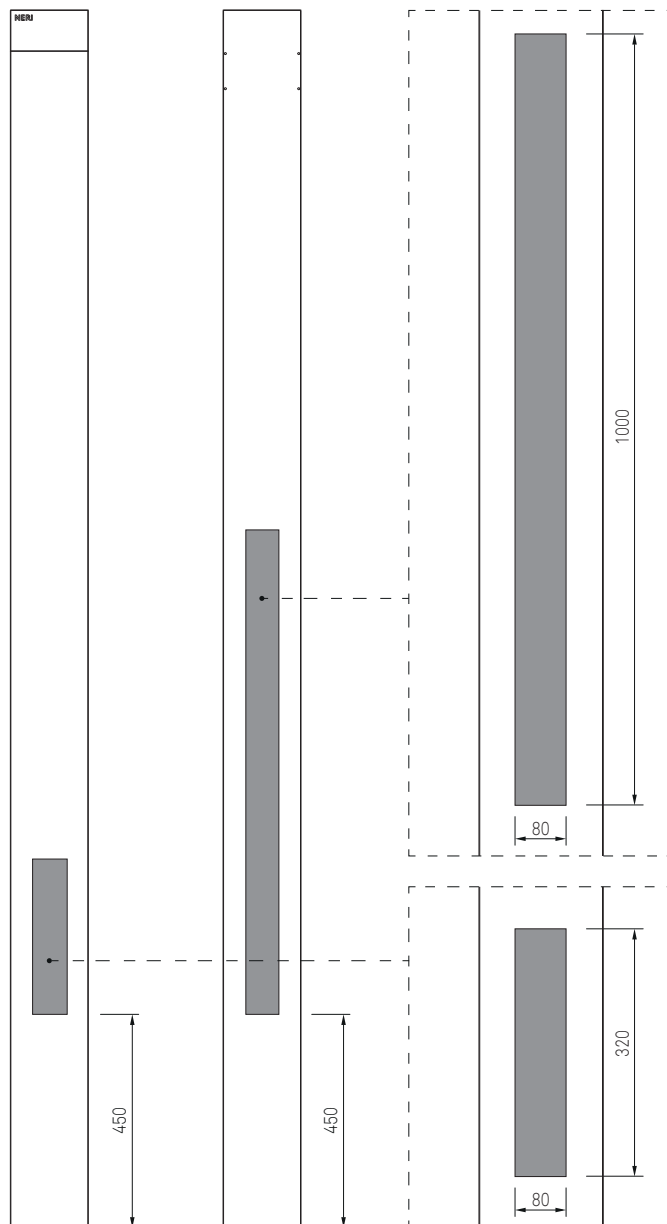
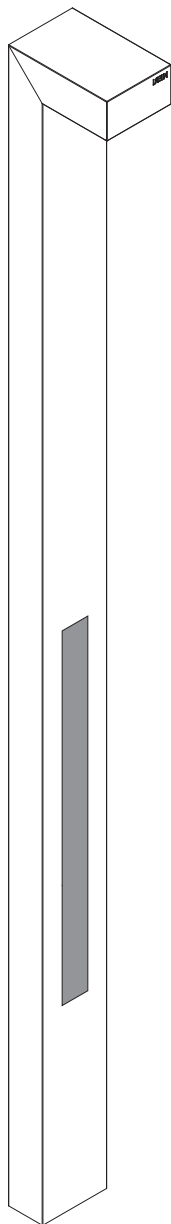


Fig. 1

Fig. 2