



Low  
Glare



Photobiological  
safety  
Exemp group

# Vigo bollard

Product code: VIG



Scale: 1:10

## Fixing type



Flange



Foundation



## Standard reference

EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3

### Conformity



### Insulation class



### Protection class



## Geometry and mechanical features

Size | Weight: Ø 250 mm · H 840 mm | 40 Kg

## General features

<b>Disconnecter included:</b>	Cable clamp included   cables section Ø 8.5mm÷Ø14mm
<b>Power source:</b>	220-240V   50/60Hz   tolerance +/ - 10%   other voltages on request
<b>Current supply:</b>	325 mA   525mA   700mA
<b>Power Factor   THD:</b>	≥ 0.95   < 10 % (At full load)
<b>Expected life (Ta25°):</b>	> 100.000 h   L90B10   module current LED 700mA > 100.000 h   L90   TM21   module current LED 700mA
<b>Overcharge protection:</b>	Impulse withstand CM/DM 10kV / 6kV
<b>SPD device (optional):</b>	With falsafe green LED indicator (*) and thermal disconnecter. (*) LED green OFF and AC network cut-off. CLASSE 1   10kV / 10kA CLASSE 2   10kV / 10 kA
<b>IPEA:</b>	≥ A++ according to DM 27/09/2017 (C.A.M.)

## Materials and color

<b>Fixture:</b>	Cast-iron   EN1561
<b>Optical system:</b>	Nano-optics in PMMA
<b>Gaskets:</b>	Silicon
<b>Cable gland:</b>	Polyamide PA66   PG16   Ø 14mm MAX
<b>Fixing:</b>	S235 steel   EN 10027-1
<b>Screws and bolts:</b>	AISI 304L inox steel
<b>Color:</b>	Dark grey (ferromiceo) Ghisamestieri®

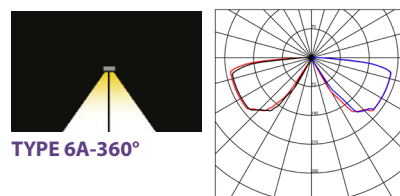
## LED specification

<b>Model:</b>	<b>NICHIA</b> NVSL219D340/360
<b>LED data 4000K - 700mA:</b>	340 lm/LED   180 lm/W   85°C [Tj]   ≤ 3 step macadam
<b>Color temperature:</b>	3.000K   4.000 K   5.700 K   CRI ≥ 70
<b>"Flip Chip" Technology:</b>	Thanks to the gold electrodes, the LEDs are absolutely free from corrosion in sulfides saturated environment. A requirement that keeps lumens and CRI unchanged over time.
<b>Number of modules:</b>	From 1 to 2
<b>Operational temperature:</b>	-40 / + 55 °C
<b>Storage temperature:</b>	-40 / + 80 °C
<b>Photobiological safety:</b>	in accordance with IEC/TR62778 risk free, class 0

## Available optical system measured data in accordance with UNI EN 13032-1 e IES LM 79-08

### TYPE 6A

Roto-symmetrical distributed lighting 360° version for bollard lighting. Optic type suitable for pedestrian areas, parks and gardens.



## Photometric data

The photometric data refers to GHISAMESTIERI products in the standard version, with 4000K color temperature, optical reference type 6A and ambient temperature of 25 ° C. In the case of lighting calculations with the driving current and / or different color temperature from the standard, using the conversion factors for the luminous flux reported in the tables.

### LED MODULES NOMINAL DATA 4000K [ta = 25°C; tj=85°C]

LED code	I [mA]	Luminous flux [lm]	Power [W]	Efficiency [lm/W]
C1K	350	784	4	196
	525	1.110	6	185
	700	1.392	8	174
C1Y	350	1.568	8	196
	525	2.220	12	185
	700	2.784	16	174

Data extrapolated from the manufacturer documentations.

### DEVICE MEASURED DATA [4000K- OPTIC 6A]

LED code	I [mA]	Luminous flux [lm]	Potenza [W]	Efficiency [lm/W]
C1K	350	550	5	110
	525	848	8	106
	700	1.020	10	102
C1Y	350	990	9	110
	525	1.590	15	106
	700	1.938	19	102

#### Tk CONVERSION FACTOR LUMINOUS FLUX

Tk [K]	Flux multiplier
3.000	0,94
4.000	1,00
5.700	1,01

#### CRI CONVERSION FACTOR LUMINOUS FLUX

CRI (color render index)	Flux multiplier
70	1,00
80	0,90

The values in this data sheet have a tolerance of +/- 5%.

GHISAMESTIERI reserves the right to modify the data contained in this data sheet without prior notice, in order to technologically upgrade their products.

## Protection cycles

### GALVANIZED STEEL

#### Protection of galvanized steel surfaces for poles

The protection of galvanized steel elements is achieved by following steps:

- Micro sandblasting
- First epoxy layer application followed by: Wilting > Drying > Cooling
- Acrylic glaze layer application followed by: Wilting > Drying > Cooling
- Packing at least after 24-hour-drying at room temperature.

#### Protection of galvanized steel surfaces for brackets and pastorals

The protection of the galvanized steel elements is achieved thanks to:

- Micro sandblasting
- Phosphoric pickling bath at a pH level ranging from 1.5 to 3
- Rinsing with demineralised water
- First powder layer application
- Kiln firing
- Application of a final powder layer
- Kiln roasting of the final powder layer at 180°
- Cooling.

### CAST IRON

#### Protection of cast iron surfaces for bases

The protection of cast iron elements is achieved by the following treatments:

- Surface micro shotblasting
- Mono-component dip galvanizing followed by: Wilting > Drying > Cooling
- Epoxy micaceous primer application followed by: Wilting > Drying > Cooling
- Acrylic enamel application followed by: Wilting > Drying > Cooling.
- Packing at least after 24-hour-drying at room temperature.

### DIE-CAST ALUMINIUM

#### Protection of die-cast aluminium surfaces for lighting fixtures, tops, collars, brackets and pastorals

Brackets, pastoral, and die-cast accessories undergo a cycle of powder painting which creates a barrier against the corrosion of metal parts. Moreover this barrier makes the finished product comply with design specifications in terms of surface roughness, color and reflectance. The cycle consists of the following steps:

- Micro sandblasting
- Hot pickling bath in a zinc-based phosphodegreasing solution
- Phospho-chromatation for surfaces clearing
- Washing with water
- Rinsing with demineralised water and subsequent drying
- First powder layer application followed by kiln baking at 180°
- Final powder layer application using a High Durability product and final kiln roasting at 180°C.



Salt spray test | FLORIDA TEST

The top quality of such treatments is confirmed by the successful results of specific salt spray test (all products exceeded widely 2.500 hours) and the strictest international tests, among which FLORIDA TEST.

The salt spray test is made in accordance with standard UNI EN ISO 9227.



**Ghisamestieri the green way of light s.r.l**

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