

LED Street Fixture XSARA 22-45W





LED Street Fixture, NITEKO brand ELEVA range, XSARA series, suitable for mounting on arm or head-pole, (with adjustable arm incorporated in the fixture and possibility to be adjusted from + 15 ° to - 15 ° in steps of 5°), with a maximum power consumption (actual) **22W- 45W** and power supply of 220/240V a.c. – 50/60Hz.

Fixture equipped with **3 LED Quadrichip LUMILEDS, LUXEON M** model, with constant current, with a color temperature equal to **4.000K (N)** as standard or optional **3000K (W)** and **5000K (C)** on demand.

Light source's efficiency not less than **135lm/W**, life span, in optimal condition of operation, not less than **100.000 hours (L70B20)** and color rendering index **CRI>70**.

High efficiency LED equipped with secondary high accuracy collimators for the luminous beam concentration.

Minimum overall efficiency of the optical unit not less than **70%**. **A1** Asymmetric photometry, for street use, with a 136 °x50 °light beam opening.

High efficiency electronic converters integrated in power compartment of the lighting fixture, characterized by power factor (PF) greater than **0.97** and MTBF equal to **430.000** hours, thermal protection, short-circuit protection and overvoltage protection.

All components are mercury, lead and other toxic substances free and are completely recyclable.

Class II fixture (or optional class I) with protection of optical unit and power compartment equivalent to **IP66**, impact resistance degree equal to **IK08**, compliant to CEI 34-33, EN 60598, size **485x230x98mm**, composed by:

- extrusion aluminum body openable through a pivot screw closure, with heat-sink incorporated equipped with wide cooling fins sized so as to ensure a long life and maximum efficiency of the diodes, subjected to sandblast process, cataphoresis and polyester powder coating color RAL 7024 or RAL 9006, resistant to corrosion, abrasion, flaking and saline fogs, with full warranty of 10 years on all metal parts;
- A silicone rubber gasket fitting on the geometry of the component ensures the tightness of the power compartment.
- Adjustable integrated system for arm mounting (180 °) or head - pole (90 °) with possible grade of -15 ° / + 15 ° in steps of 5 °.

The fixture is equipped with optional devices, on demand, suitable for **Remote Control** with interface components integrated in the lighting body, available in the following versions:

- Regulation of voltage variation (PLV);
- Luminous flux self-regulation through pre-scheduling (PRG);
- Cable regulation (DIM/DALI).



Automatic Regulation (PRG) is due to a luminous flux self-regulator, incorporated in the lighting body and included in the power compartment, suitable for control and reduction of the lamp luminous flux from 10% to 100% of the maximum value, without using dedicated cables. The device is equipped with a micro-controller completely programmable, suitable for power compartment management, concerning every LED light source's load. The mode of operation, through user-defined schedule, is based on 5 luminosity levels, on temporary basis, set up through software configuration. The system calculates the "Midnight point" considering the period of time in which the device is powered and over this enables the reduced speed periods, considering the settings selected through software.

The system has the following automatic features:

- Switching on;
- Switching off;
- Test for proper mode of operation;
- Luminous Flux regulation.

Cable regulation (DIM/DALI) happens through dedicated cables:

The DIM module provides the candlepower regulation through 1-10V analog signal.

Using the DALI interface module is possible a light smart regulation considering the specific space requirements.

DALI is a digital communication protocol of the adjustable electronic converters.

This new standard interface represents a distributive intelligence system. This means that the light emission values of different illuminating engineering settings and the light sources collection are stored inside the electronic converters. The control system has the feature of recalling the specific settings and the electronic converter that identifies its light emission level and responds in relation to it. It is also possible to recall every single electronic converters.

In order to guarantee the interchangeability between the different DALI components realized by different producers, the DALI interface has been included in the E appendix of the IEC 929 law as a non-proprietary standard compliant to the modern lighting control requirements.

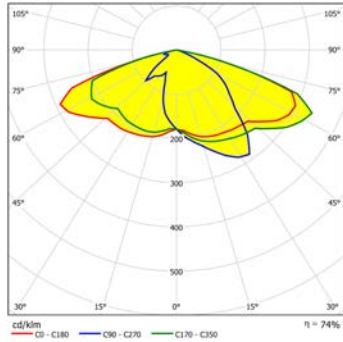


Technical Features	
Brand	Niteko
Series	Xara
Model	XS
Description	LED Street Fixture
Mounting	Pole or arm mounting
Maximum Power Consumption	22W, 26W, 33W and 45W
Power supply	220/240 V a.c. – 50/60 Hz Electronic power supply integrated into lighting fixture with $\eta > 95\%$ efficiency
LED Modules Power Supply	Voltage supply in constant current
Power Factor	PF = 0,97 (Active PFC)
Insulation Class	<ul style="list-style-type: none">• Class II• Class I [optional]• Class III [optional] – with external power supply
Light source	3 LED Quadrichip
Optic	LED modules equipped with high precision secondary collimators for light beam concentration. Street Asymmetric photometry: <ul style="list-style-type: none">• “A1”, “A2”, “A4”, “A9”• Rotosymmetric photometry “R1”
Laser Security Class	1M
Luminous Flux	<ul style="list-style-type: none">• 2.700 lm (XS20W Version : CCT = 4.000K (Neutral White) @ Tj=85°C);• 3.240 lm (XS20W Version : CCT = 4.000K (Neutral White) @ Tj=85°C);• 3.800 lm (XS30W Version: CCT= 4.000K (Neutral White) @ Tj=85°C);• 4.600 lm (XS40W Version: CCT = 4.000K (Neutral White) @ Tj=85°C);
Light Source Efficiency	$\eta > 135$ lm/W
Color Temperature	<ul style="list-style-type: none">• “N” Version: CCT = 4.000K (Neutral White)• “C” Version: CCT = 5.000K (Cool White) [optional]• “W” Version: CCT = 3.000K (Warm White) [optional]
Color rendering	Ra > 70
Life span	L70B20 = 100.000 h
IR and UV radiations	Absent
Inorganic Toxic Elements	Absent
Turning on / restart	<ul style="list-style-type: none">• $t_A < 1$sec.• $t_R < 1$sec.
Materials	<ul style="list-style-type: none">• FIXTURE: single body on anodized extruded aluminum with wide cooling fins;• SCREEN: extra-light flat tempered glass, thickness 4mm.
Color	RAL 7024 (sandblast process, cataphoresis and polyester powder coating)
Protection Degree	Optic Unit: IP66 / Power Compartment: IP66 Impact resistance degree: IK08
Fixture size and weight	485 x 230 x 98 mm / 2,9 kg max
Box size and weight	500 x 300 x 120 mm / 3,5 kg (Standard Cardboard Box)

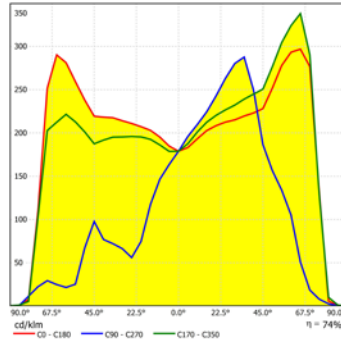
Photometry Features

"A1" Optic – Asymmetric Photometry 138°x50°

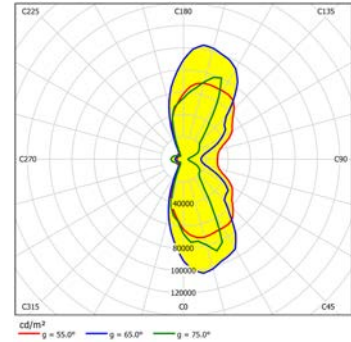
Polar Diagram



Linear Diagram



Luminance Diagram



Products Pictures



Technical Drawings

