ARQUILED
BRIGHT NEW FUTURE

SCULPTOR

STREET LIGHTING ROAD HM

Polis de Leiria

Arquiled presents the **Sculptor 100** and **Sculptor 200**, a range of LED luminaires designed for high energy efficiency, with a wide range of power consumption.

This range is based on a modern aesthetic of streamlined lines and smooth body, thus not allowing the accumulation of dust or dirt and ensuring a high performance and long-life span.

This is only possible thanks to the innovative technology developed in-house by **Arquiled** engineers, which allows heat dissipation without any visible fin, and an aluminum die-cast body, with an extremely optimized dimension-to-weight ratio.

HIGH ENERGY EFFICIENCY IN STREET LIGHTING

- Wide range of photometric data and power consumption
- High-power LED with high L90
- High luminous efficiency: up to 166 lm/W
- Excellent light quality: IRC ≥ 70
- Energy efficiency up to 80%
- Compatible with a wide range of connectivity solutions for Smart Cities
- Various control systems / sensors
- Maximum luminous efficacy throughout the entire life cycle

APPLICATION AREAS

- Rural, urban, and residential areas
- Pedestrian paths and highways
- Parking lots

CE RoHS 03

SCULPTOR

MULTIPLE OPTIONS

DESIGN

- Die-cast aluminum
- High thermal dissipation
- High mechanical impacts protection
- Independent angle adjustment regulation: From -15º to + 5º (in 5º steps)

SCULPTOR 200

OPTICAL AND ELECTRONIC UNIT

- High level of protection in the LEDs module compartment
- High level of protection in the driver's compartment, and network connection

SCULPTOR 100

SMART READY

- Internal lighting control and dimming: ECCOS Embedded
- External control and dimming (NEMA or Zhaga): ECCOS Controller

ZHAGA D4i CERTIFICATION

- **Sculptor** - prepared for smart cities, with support for presence sensors, photocells, communication modules (LoRa, NB-IoT, among others)
- Easy maintenance and updating
- Plug n' Play interoperability when changing controllers or sensors
- Reduced integration and installation costs

SCULPTOR

PRODUCT MODELS

	SCULPTOR 100 I 200
Power consumption[1]	5 - 160 W (depending on configuration)
Luminou flux[1]	678 - 22,296 lm
Luminous efficiency	Up to 166 lm/W

IK08 | IP66 | Ta 45°C | CLASS I | CLASS II

Version with adapter for NEMA connector
Also available for Zhaga

SPECIFICATIONS

Housing	Die-cast aluminum
Product finishing	Polyester coating
Product color[2]	RAL 7035
Diffuser	Tempered glass
Ingress protection (IEC – EN 60598)	IP66
Mechanical impacts protection (IEC – EN 62262)	IK08
Correlated Color Temperature (CCT)	2200K / 2700K / 3000K / 3500K / 4000K[2]
Chromatic Restitution Index (CRI)	≥ 70[2]
Lumen flux maintenance at 100,000h	> 95%[3]
Nominal voltage	230V / 50Hz
Surge overvoltage protection (EN 61000-4-5)	4kV / 10kV
Electrical class	Class I / Class II
Driver[4]	ON-OFF / 0-10V / DALI / DALI 2
Connectivity (optional)	Board embedded 5-pin and 7-pin NEMA connector (ANSI C136.41) Zhaga connector
Smart Cities' solutions (optional)	**Integrated management system**: ECCOS City **Lighting control and dimming systems:** ECCOS Single Advanced, ECCOS Embedded, and ECCOS Controller **Pedestrian traffic monitoring and counting system**: MYRIAD Counter
Mounting	Lateral mounting (standard) Post-top mounting (with optional accessory)
Inside mounting diameter	ø 32 - 60 mm
Angle adjustement	From -15° to +5° (in 5° steps)

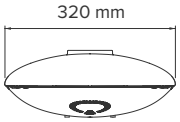
[1] The initial flux, power and energy consumption of the luminaire are indicative values valid for an ambient temperature =25°C and measured at 230V. The actual flux emitted by the luminaire depends on some conditions, such as temperature, and may vary according to the model. The values indicated are subject to technological tolerances, within reasonable variations and the current state of the art.
[2] Other options available on request.
[3] In accordance with IES LM-80 - TM-21.
[4] Specifications vary according to model and configuration.

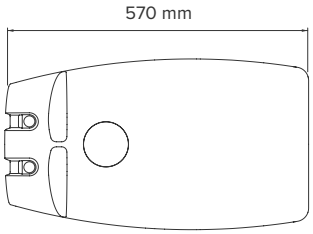
SCULPTOR

DIMENSIONS

SCULPTOR 100

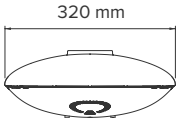
Standard	125 mm
COMMS. Ready	145 mm
NEMA Ready	172 mm
Zhaga Ready	142 mm

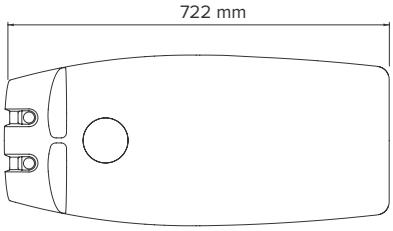




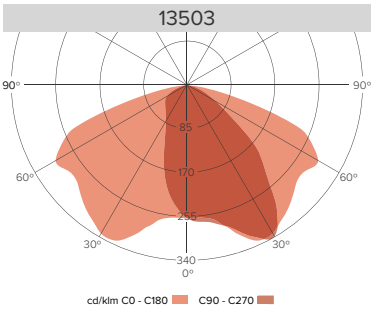
SCULPTOR 200

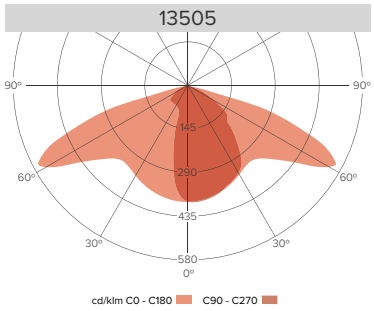
Standard	125 mm
COMMS. Ready	145 mm
NEMA Ready	172 mm
Zhaga Ready	142 mm

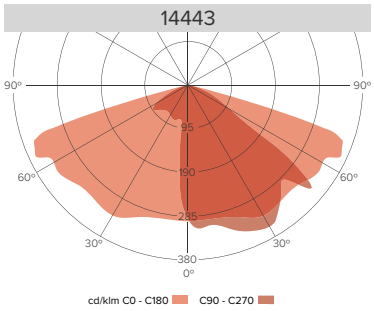


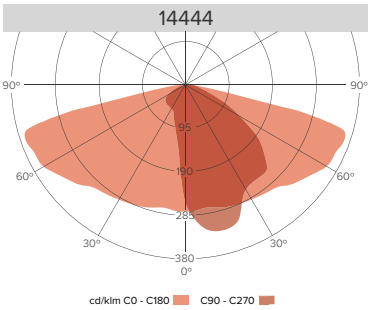


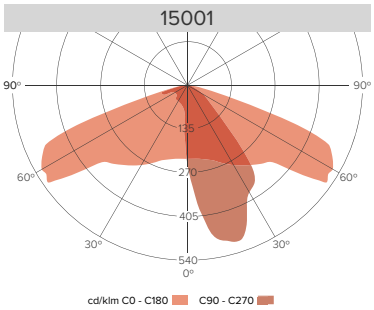
OPTICAL DATA[2]

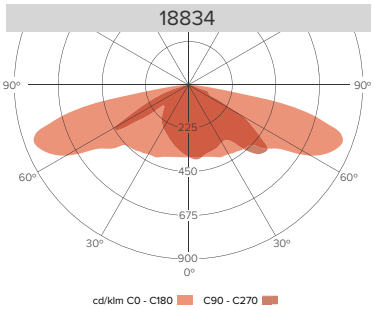












[2] Other options available on request.

SMART CITIES | IoT CONNECTIVITY SOLUTIONS

MANAGEMENT SYSTEM

ECCOS city

Arquiled's integrated management system for remote control of street lighting contributes significantly to reducing energy consumption, lowering maintenance costs, and improving the reliability of lighting infrastructure.

Through an easy and intuitive web-based platform, it is possible to control and manage devices such as luminaires, either individually or in groups of several light points, adapting energy saving profiles according to the needs of the project.

This integrated street lighting network management solution provides detailed information on the activity of the lighting system, facilitating and maximizing its monitoring and management.

The modular system can be progressively expanded according to the needs of the street lighting infrastructure.

- Remote lighting management to maximize energy savings
- Reduction in operating costs
- Individual or group programming
- Intuitive and customizable interface
- Agnostic and interoperable system
- Platform longevity and interoperability

LIGHTING CONTROL AND DIMMING

Arquiled offers a range of lighting control systems that are adaptable and scalable to the dierent needs of street lighting projects.

Each system is designed according to the infrastructure needs of municipalities and can include solutions integrated into the luminaires or external devices (Plug n' Play type) that can be easily attached to the luminaires.

ECCOS single advanced

Integrated control in the luminaire to dimm light, through smart controllers with factory-programmed energy-saving profiles.

MONITORING AND ACCOUNTING OF FOOT TRAFFIC

MYRIAD Counter

Non-intrusive monitoring system of movement flows, duration, and distance of pedestrian traffic operated by a WiFi® range of sensors. The system collects the data and allows to make data analysis almost instantaneously.

The sensor network can be installed anywhere, with electrical power and communications or based on the street lighting infrastructure - coupled to luminaires with connectivity.