

VELLA

STREET
LIGHTING

CLASSIC VMISU

Classic luminaire VELLA from ARQUILED is suitable for lighting streets and historic centers, squares, parks, gardens, residential and pedestrian areas, while respecting the surrounding space.

VELLA combines the efficiency of LED technology with a classic aesthetic with a contemporary twist, featuring resistant materials that offer a high degree of protection and a long service life.

It is ideal for preserving heritage and at the same time making a commitment to the future, the VELLA presents itself as the most rational and balanced response.

EFFICIENCY AND DESIGN

- Seamless integration on historical surroundings
- Multiple options: with and without diffuser
- Various types of fixing: supported and fixed suspended
- Luminous efficiency: up to 130 lm/W
- Low energy consumption
- Dimming control options via NEMA or Zhaga
- Pre-wired for ease of installation
- Robustness and long life-span
- Compatible with a wide range of connectivity solutions for Smart Cities

APPLICATION AREAS

- Streets and historic centers
- Squares and parks
- Residential and pedestrian areas



PRODUCT MODELS

	VELLA 20 30 40 50
Power consumption ¹	10 - 55W (depending on configuration)
Luminous flux ¹	6,265 lm
Luminous efficiency	Up to 130 lm/W

IK08	IP66	at 45 °C	CLASS I	
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Post-top version: fixed on Ø60mm pipe (optional)
Without diffuser

SPECIFICATIONS

Housing	Die-cast aluminum
Product finishing	Polyester coating
External diffuser	Version without diffuser Transparent polycarbonate version
Optical block diffuser	Tempered glass
Product color	RAL9005 (black) ²
Correlated Color Temperature (CCT)	2200 K / 2700 K / 3000 K ²
Lumen maintenance at 100,000h	> 90% ³
Chromatic Restitution Index (CRI)	≥ 70 ²
Ingress protection (IEC - EN 60598)	IP66
Mechanical Protection Index (IEC - EN 62262)	IK08
Nominal voltage	230 V / 50 Hz
Surge overvoltage protection (EN 61000-4-5)	4 kV / 10 kV
Electrical insulation class	Class I
Driver ⁴	ON-OFF / 1-10 V / DALI-2 / D4i
Connectivity (optional)	7-pin NEMA socket (ANSI C136.41) Zhaga connector
Smart Cities Solutions (optional)	Integrated management system: ECCOS City Lighting control and dimming system: ECCOS Controller Pedestrian traffic monitoring and counting system: MYRIAD Counter
Mounting ⁵	Post-top version: fixed on 3/4" gas male ferrule or Ø60mm pipe Fixed suspended version: on 3/4" gas male ferrule

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.

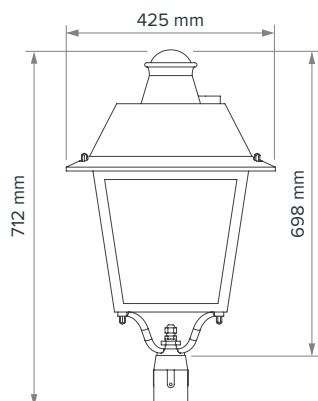
³ In accordance with IES LM-80- TM-21.

⁴ Specifications vary according to model and configuration.

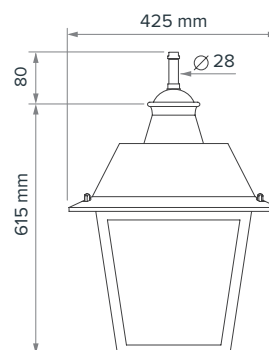
⁵ Requires fixing accessory.

DIMENSIONS

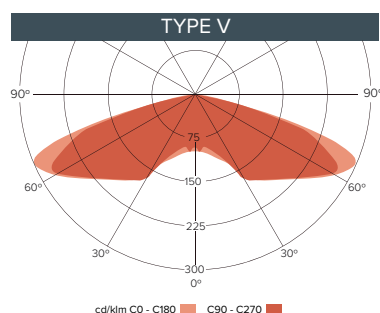
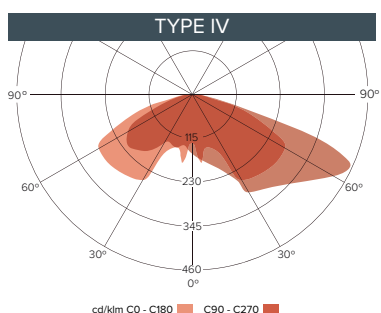
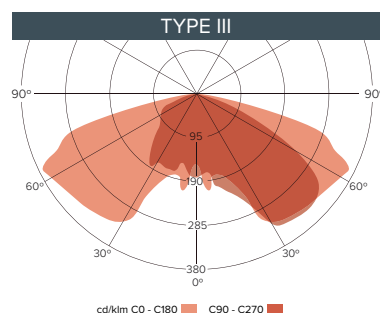
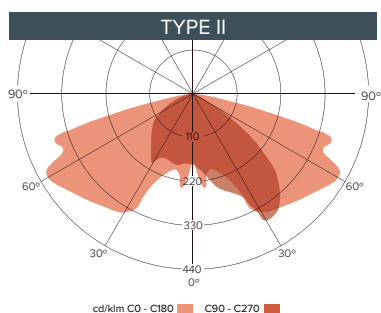
POST-TOP FIXED
(on D60 pipe)



FIXED SUSPENDED



OPTICAL DATA²



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 different 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.

ECCOS embedded

Internal communications module to control and dimming light through a management platform.

ECCOS controller

External device (in NEMA or Zhaga socket) to control and dimming light, through a management platform.

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.