ARQUILED

BRIGHT NEW FUTURE

VELLA

STREET LIGHTING | CLASSIC VM|SU

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 oprions 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

CE RoHS

VELLA

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

Post-top version: fixed on Ø60mm pipe (optional)
Without diffuser

SPECIFICATIONS

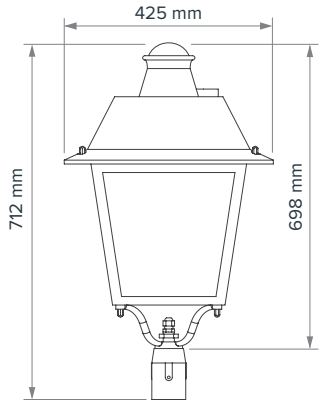
Housing	Die-cast aluminum
Product finishing	Polyester coating
External diffuser	Version without diffuser Transparent polycarbonate version
Optical block diffuser	Tempered glass
Product color	RAL9005 (black)[2]
Correlated Color Temperature (CCT)	2200 K / 2700 K / 3000 K[2]
Lumen maintenance at 100,000h	> 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
Conectivity (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.

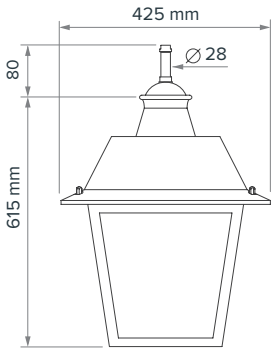
VELLA

DIMENSIONS

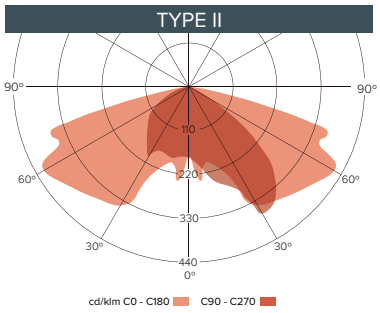
POST-TOP FIXED
(on D60 pipe)

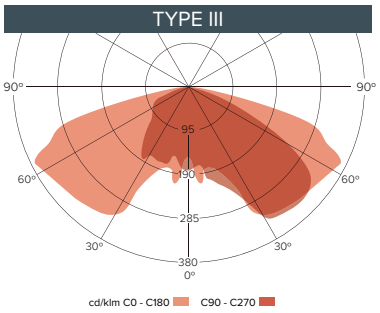


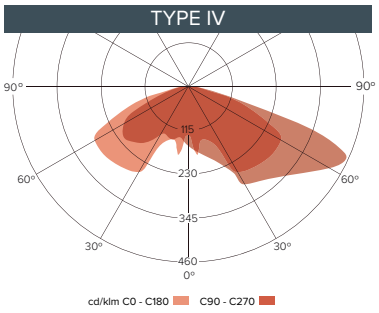
FIXED SUSPENDED

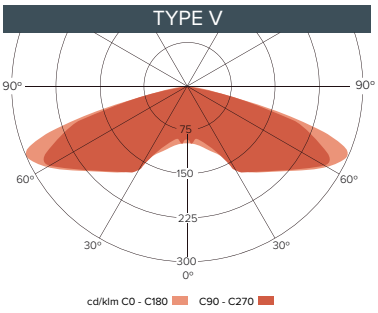


OPTICAL DATA[2]









[2] Other options available on request.

SMART CITIES | IoT CONNECTIVITY SOLUTIONS

LIGHTING CONTROL AND DIMMING

ECCOS systems are a set of lighting control and light variable intensity (dimming) that offer an adaptable and scalable wide range for each street lighting project needs. From the simplest solution for controlling and scale a luminaire flux intensity, to the most sophisticated remote management systems for street lighting.

Each system is designed accordingly with each municipalities' needs and can go through solutions integrated in the luminaires to external devices (Plug n'Play type), easily coupled to the luminaires.

INTERNAL STREET LIGHT CONTROLLERS

ECCOS embedded

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

ECCOS street

Internal dimming device, per group of luminaires, for up to 16 dimming profiles, with a maximum of 10 circuits, that operates the command and control the light intensity of electric micro cuts.

ECCOS single

Individual and autonomous control system integrated in the luminaire to set up to 16 factory-defined or customer-defined operating modes in pre-set time slots, without the need for any additional control.

EXTERNAL STREET LIGHT CONTROLLERS

ECCOS controller

External monitoring module (in NEMA 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.

MANAGEMENT SYSTEMS

ECCOS city

Management system, bidirectional and geolocated for street lighting, in a SaaS mode, integrated in the luminaire.

Based on various communication technologies such as GSM / M2M, LoRaWAN® and NB-IoT, among others, it allows to remotely manage the luminaires via web application, with automation tasks and alerts.

The management platform allows the integration with other IoT systems.