Urbalite M - Blackout

Emergency 1, 2 and 3h

KEY BENEFITS

- Up to 3 fixations.
- Durability and sturdiness: IP66 + IK09.
- Die Cast aluminium (Cu<0.1%).
- Energy Efficient:
  GEN A 157 lm/W.
- Up to 2 optical distributions.
- Emergency 1h 2h and 3h.
- Smart Ready: Designed to house both indoor and outdoor communications nodes.
- Future Proof: Zhaga-compliant
- Lifetime L90B10 100,000h (Ta 25ºC)

  Night Friendly: ULR Arrêté du 27 décembre 2018

IP66 IK09 CI

RAL 9006
Smooth Gloss

Marine finish
(RAL M9006B)

EM 1H/2H/3H

Eprotec DALI Zhaga DALI

DESCRIPTION

Urbalite M Blackout is an improved version of our Urbalite luminaire. It incorporates an emergency system that, by means of a kit with inverter and battery, guarantees its operation during blackouts, providing additional safety. It has an LED pilot light that indicates the battery status at all times.

Certified according to **IEC 60598-2-22** (emergency luminaires), **Urbalite M Blackout** is presented as a high quality solution for environments where maintaining lighting at all times is essential, such as car parks, hospital exits, schools and platforms, etc.

3,000K CRI>70

4,000K CRI>70

GEN A:
12,291lm - 16,644lm

6 Kg

GEN A 157 lm/W.
Luminaire

0.146 m²

-20ºC - +50ºC

0.00%-0.08%
FHL/ULR

220 - 240V / 100V - 277V
50-60Hz
L90B10 100,000 h
Ta 25 ºC

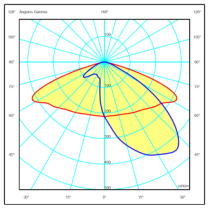
STANDARDS / CERTIFICATES

- CE
- RoHS
- UNE-EN 60598-1
- UNE-EN 60598-2-3 or 60598-2-5
- UNE-EN 62471:2009
- UNE-EN 60598
- UNE-EN 61000-3-2
- UNE-EN 61000-3-3
- UNE-EN 55015
- UNE-EN 61547
- UNE-EN 62031
- UNE-EN 61347-2-13
- UNE-EN 62384
- UNE-EN 13032-4
- UNE-EN ISO 9227 NSS: 2017 (1,000 h)
- IEC 60598-2-22

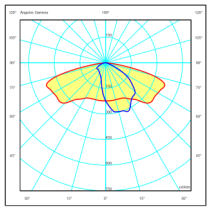
Distributor: EPK elektro s.r.o.
info@carandini.cz - www.carandini.cz

PHOTOMETRIC DISTRIBUTIONS

It has the 2 photometric distributions used for the environments in which this type of luminaire is installed, allows it to adapt to all needs:



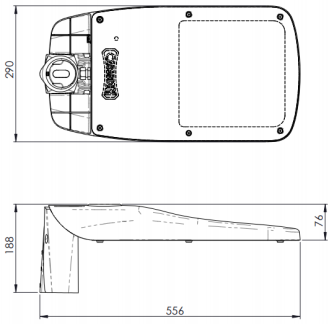
AMM1

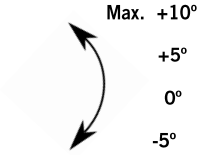


AMM3

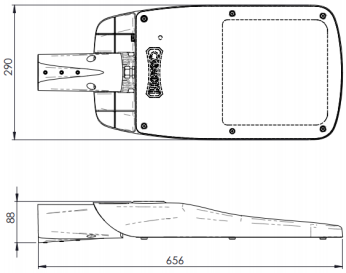
DIMENSIONS (mm)

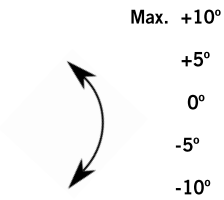
Fixation (PT2)



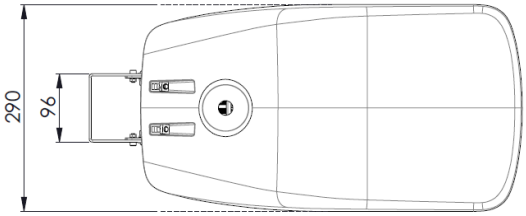


Fixation (SE2)





Fixation (FM1)



APPLICATIONS

Car parks, school exits, hospitals, penitentiary centres, train platforms, etc. Areas where there can be no lighting cuts.

Distributor: EPK elektro s.r.o.
info@carandini.cz - www.carandini.cz

URBALITE M CHARACTERISTICS

GENERAL INFORMATION

Sustainability	Valorisation: 99.02% Maximum carbon footprint per use: 0,030044 Kg Kw/h CO2
CE marking	Yes
ENEC Certificate	Yes
RoHS compliance	Yes
Testing Standards	LM 79-80 (all measurements at ISO17025 certified laboratory)

GENERAL CHARACTERISTICS

Armor and couplings	Die cast aluminum EN AC-44100 with low copper content <0.1%.
Closure	Tempered glass 5mm
Nuts outer and bolts	Stainless steel (AISI304).
Watertightness	IP66 (EN 60598-1 and EN 60598-2-3)
Impact protection grade	IK09 (EN 62262)
Operating temperature	Ta –20ºC to +50ºC According to luminaire configuration.
Lifetime	L90B10 100,000h at Ta of 25°C. Light maintenance assessments to TM-21 based on LM-80 data.

ELECTRICAL CHARACTERISTICS

Electrical class	Class I
Voltage / Frequency	220V - 240V / 50Hz - 60Hz
Power factor	> 0,9
Harmonic distortion	< 10%
Surge protector	Surge protection (1.2 / 50) 10 kV. Maximum current (8/20) 10kA. Maximum voltage (L-N) 320 V. Maximum voltage (L / N-GND) 400 V. Optional overvoltage protection: 20kA, 20kV
Battery	LiFe PO4 3Ah Duration 1, 2 or 3 hours

LIGHTING CHARACTERISTICS

Package real light	GEN A 12.291 lm -16.644 lm (86 - 113W). 157 lm/W. Emergency 730 lm.
LED colour temperature	4,000K (Neutral White, nw). 3,000K (Warm White, ww).
Index of reproduction chromatic (CRI)	CRI>70. CRI80, on request.
LEDs	Incorporate 48 and 64 LED.
ULR	<0.08%
Optics	PMMA polymethylmethacrylate.
Photometric distributions	**AMM1**=> al. longitudinal 70º ap. transversal 35º/50º (Tipo III) **AMM3**=> al. longitudinal 75º ap. transversal 5º/40º (Tipo II)
LED thermal control	Heat dissipation by conduction through the specific design for this luminaire, since it has been specifically designed for LED technology. (Heatsink).

URBALITE M CHARACTERISTICS

MAINTENANCE AND ASSEMBLY

Installation and maintenance	Quick, easy installation with an external IP68 connect and no need for opening the luminaire.
Fixation	PT2: Vertical fixation Ø60mm SE2: Lateral fixation Ø60mm SE3: Lateral fixation Ø34/42mm PT3: Vertical fixation Ø42/48mm FM1: Wall fixation
Mechanical regulation	Brackets allow for 0, +5º; +10º adjustment Adjustment -10º, -5º, 0, +5º; +10º consult.
Weight with equipment	6 Kg
Wind Surf.	0.146 m²
Pressure compensation valve	The integration of the valve extends the projected life of the joints and internal parts by reducing the pressure that is exerted on them and prevents moisture from entering the interior that can cause condensation.

MANAGEMENT AND CONTROL

Equipment	**RD:** DALI **SR:** Smart Ready (D4i)
Autonomous regulation	Regulations programmed from the factory: **SC**: Programming according to client.
Socket connection	**X:** Zhaga socket with/without IP66 cover
Sensor	**2:** Photocell for larger Zhaga socket (20 lux)

FINISHES

PREDEFINED COLOUR OF THE LUMINAIRE

RAL 9006	Grey polyester powder coat paint RAL 9006 Smooth Gloss (906B).

Corrosion protection

SEA SIDE SUITABLE	Marine finish (1.000h).

LOGISTICAL INFORMATION

UBL M

Dimensions box: 680 x 310 x 110 mm

Number of boxes: 42 units

European base: 1200 x 800 mm

Number of levels: 14 levels

Superficie utilizada: 65.9%

Volume used: 63.4%

Total gross weight: 252 kg.

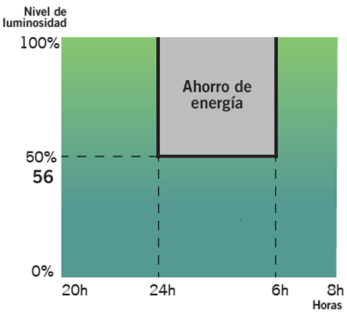
LUMINAIRE DIMMING

By programming the driver

Smart luminaires drivers can be programmed in the fac-tory without needing a control system, additional wiring or maintenance costs. A schedule is pre-programmed for light flow to be automatically reduced at quieter times of the night while respecting light levels and uniformity.

Programming profile 56

From 00:00 to 06:00 the luminaire reduces its initial intensity by 50%.



NOTE: Programming the Dynadimmer using the multione scheduling tool is done for wintertime. In summer everything is delayed by an hour.

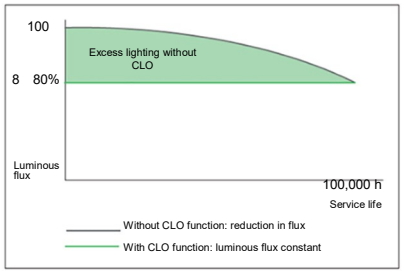
Using the CLO function

While taking lumen depreciation over the years into account, the driver is programmed so that it starts at a reduced level and gradually increases power over the lifespan of the luminaire. This saves energy and increases the lifespan of the system. Furthermore, the light level in the area where the luminaire is installed remains constant over time.

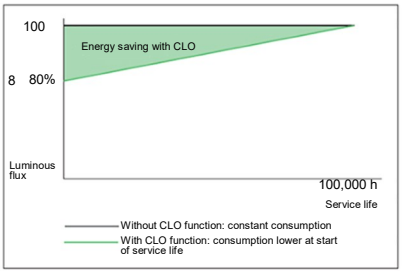
Constant luminous flux 8

luminous flux from the luminaire at 80% to maintain light levels throughout its lifespan.

Graph: Luminous flux



Graph: Consumption



By incorporating an additional device

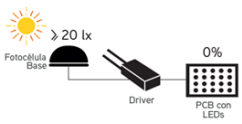
Photocell

A photocell enables the luminaire to be switched on or off based on the solar light intensity detected.

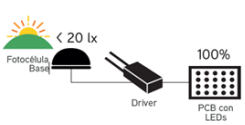
This is extremely useful so the luminaires are not switched on during the day when there is still sufficient natural light.

Ejemplo con fotocélula de 20 lx:

Si la fotocélula detecta más de 20 lx no activará el encendido de la luminaria.



Es cuando los niveles lumínicos empiezan a bajar que la fotocélula detecta 20 lx y activa el encendido de la luminaria.



INNOVATIVE AND UPDATABLE OVER TIME (Zhaga/ ZD4i)

"All luminaires incorporating Nema Sockets or Zhaga Sockets, where the control system is not the responsibility of Carandini, must always incorporate IP 66 covers in order to ensure the correct safety and operation of the product.

The sale of luminaires with Nema or Zhaga Sockets without the IP 66 cover will only be permitted upon receipt of a written assurance from the customer that the control system using NEMA or ZHAGA Nodes will be installed by the customer at the same time as the luminaires".

Zhaga - Future Proof

Zhaga is an industry-wide consortium that aims to standardise specifications for interfaces between LED luminaires and light sources. The aim is to achieve interchangeability between products made by different manufacturers. Zhaga defines test procedures for luminaire and LED light sources so that the luminaire can receive the LED source.

Zhaga D4i - Sensor Ready

The Zhaga consortium joined up with DiiA to create a unique Zhaga-D4i certification that combines Zhaga's Book 18 version 2 outdoor connectivity specifications with Dii4's D4i specifications for intra-luminaire DALI.

BOOKS PER APPLICATION. A COST-EFFECTIVE SOLUTION.

Zhaga Consortium — Book 1-25 Overview by application

	Office & Industry	Retail & Hospitality	Outdoor
Integrated LED light engines	14, 2,8	17, 16	
LED modules (non-integrated)	7, 21, 14	12, 9, 5, 3,10	4, 15, 19
Drivers	13, LED set 22,23		24,25
Sensor and communication modules	20		18

The specifications that mark a component as Zhaga-compliant are contained in a series of books, available only to consortium members, that allow you to design to the marked standard. The benefits for society are evident since, apart from reducing the consumption of materials, it favours the reuse of luminaires, aiming towards a circular economy.

CERTIFICATION PROGRAMME

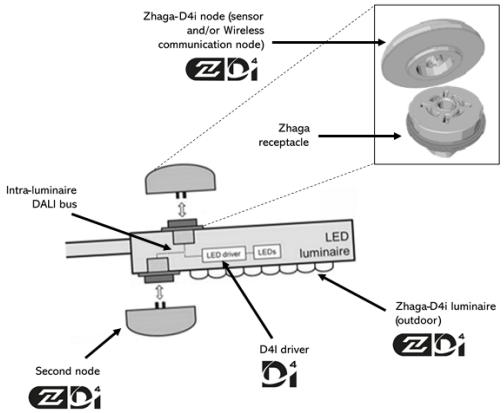
Zhaga-D4i certification covers all the essential characteristics, including automatic adjustment, digital communication, data reporting and power requirements in any single luminaire, ensuring plug-and-play interoperability for luminaires (drivers) and peripherals, such as connectivity nodes.

STANDARDISATION AS A MEANS TO ACHIEVE SUSTAINABILITY

The Urbalite M luminaire has been designed to function with the latest available market-proven technology based on standards. This also enables it to meet the CARANDINI sustainability requirements and become a product ready for maintenance in the future under better guarantees while respecting the environment and society.

The luminaires marked as Zhaga are a “Future Proof” design, meaning it is based on and designed around standard Zhaga components. These components are mainly the LED modules and the drivers. The electric compartment and dissipation area for LED modules has space and additional mountings to include any driver compliant with Zhaga “Book 13” based on market driver dimensions, or any LED module compliant with Zhaga “Book 15” based on LED controller interface specifications.

This makes it possible to have a sustainable product that can be updated over time.



CONNECTIVITY

D4i specifications take the best of the standard DALI2 protocol and adapt it to an interconnected lighting environment, but with certain limitations. Only the control devices installed in the luminaires can be combined with a Zhaga-D4i luminaire. According to the specifications, the control devices are respectively limited to an average power consumption of 2W and 1W.

SMART CITY

Luminaires marked ZD4i are a "Smart Ready" design, which means they are designed to house both indoor and outdoor communication nodes through connection bases compliant with the Zhaga “Book 18” & Zhaga-D4i standard on sensor and communication node interoperability.