



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 (1000h)









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

0.19 m²

1%

-40 °C - +50 °C



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PHOTOMETRIC CONFIGURATIONS

4 photometric configurations are available for use in the various environments where this type of luminaire might be installed, meaning it can be adapted to suit all situa-



DIMENSIONS (mm)



APPLICATIONS

Residential areas, parks and gardens, squares and pedestrian areas.





NOTE: The company reserves the right to make product changes without advanced notice V1. 22/09/2022



C-LINE CHARACTERISTICS

GENERAL INFORMATION

Sustainability	Recyclability: 97,97% Maximum carbon footprint per use: 0.017593 kg kW/h de CO2
CE mark	Yes
ENEC Certificate	Yes
RoHS-compliant	Yes
Testing standards	LM 79-80 (all measurements at ISO17025 certified laboratory)

GENERAL CHARACTERISTICS

Cover	Reinforced polyamide (UNE-EN ISO 4892-3:2014)	
Diffuser	Stabilized UV polycarbonate. (UNE-EN ISO 4892- 3:2014)	
Mounting	Die-cast aluminium EN AC-44100 (LM6) with low copper content <0.1%.	
Finish	Grey polyester powder coating RAL 7015 Textured (715T).	
Exterior nuts and bolts	Stainless steel (AISI304).	
General ingress protec- tion	IP66 (EN 60598-1 and EN 60529).	
Degree of	IK10 (EN 62262).	
Operating temperature	Ta -40 °C a +50 °C According to luminaire configura- tion.	
Estimated life	L90B10 100,000 h at 25 °C. Light maintenance values at 25 °C are	

ELECTRICAL CHARACTERISTICS

Electrical class	Class I or Class II
Input voltage	220 V - 240 V / 50 Hz - 60 HzOptional 100-277 V
Power factor	> 0.9
Harmonic distortion	< 10% Other voltages, upon request.Other voltages upon
Overvoltage protection	Overvoltage protection (1.2/50) 10 kV. Maximum current (8/20) 10 kA. Maximum voltage (L-N) 320 V. Maximum voltage (L/N-GND) 400 V. Optional overvoltage protection: 20 kA, 20 kV.

MAINTENANCE AND ASSEMBLY

Installation and maintenance	Toolless assembly.
Installation	Installation to column of Ø60 mm.
Accessories	C.SENS=> column mounted presence sensor.
Equipped weight	7.9 Kg

LIGHTING CHARACTERISTICS		
Real light package	1,000 lm to 8,000 lm (9 - 68 W)	
LED colour temperature	4,000 K (Neutral White, nw). 3,000 K (Warm White, nw). 2,700 K (Warm White, nw). 2,200 K (Warm White, nw). Amber colour temperature, upon request.	
Colour rendering index (CRI)	CRI>70. CRI80 upon request.	
LEDs	12, 16 and 32 LEDs.	
ULR	1%	
Optics	Acrylic PMMA lenses especially designed for LEDs.	
Photometric configurations	AMM1: Throw 70° Spread 30°/50° (Type III) SMA1: Throw 70° Spread 70° (Type IV) SME1: Throw 70° Spread 40° (Type II) AMA1: Throw 70° Spread 60° (Type IV)	
LED thermal manage- ment	Heat dissipation via conduction, radiation and con- vection based on a design for LED technology.	

MANAGEMENT AND CONTROL

Devices	1N: LED 1N RC: Adjustable LED in head RD: Adjustable LED Protocol DALI AF: Adjustable LED Protocol 1 - 10 V RL: Pulse adjustable LED 2N: Dual level SR: Smart Ready (D4i) Other devices, upon request.	
Autonomous regulation	Factory-programmable regulation: 56: 50% from 24:00 to 06:00 66: 60% from 24:00 to 06:00 76: 70% from 24:00 to 06:00	
CLO regulation	Percentage flow during product lifespan: 7: 70% luminous flux during luminaire lifespan. 8: 80% luminous flux during luminaire lifespan. 9: 90% luminous flux during luminaire lifespan.	
Sockets	3-U: NEMA 3 pin socket with/without IP66 cover 5-V: NEMA 5 pin socket with/without IP66 cover 7-V: NEMA 7 pin socket with/without IP66 cover 4-X: Zhaga socket with/without IP66 cover	
Photocells	1: Photocell for NEMA 3, 5 and 7 pin socket (20 lux) 2: Photocell for larger Zhaga socket (20 lux)	
Node	ON: Controlux One BS: Controlux Basic	





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COLOURS

PREDEFINED COLOUR OF THE LUMINAIRE

RAL 7015 - Polyester Powder 7015 Slate Grey Textured Matt

PRED	EFINED	*
Otros	colores	disponible

RAL
RAL</th

es

FINISHES	
* Standard range of colours	
RAL 9005	Polyester Powder 9005 Intense Black Textured Matt.
RAL 9006	Polyester Powder 9006 Aluminium White Smooth White Glossy.
RAL 9007	olyester Powder 9007 Aluminium Grey Smooth Glossy.

*These colours may be painted as long as the parts allow it.

LOGISTICAL INFORMATION*

- Box size: 600 x 600 x 600 mm
- Individual weight: 8.4 kg.
- Number of boxes: 6 units
- American base: 1200 x 800 x 1950 mm
- Stack height: 3 levels
- Area occupied: 75%
- Volume used: 67.5%
- Total weight: 70 kg.
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*If the luminaire includes cable, consult box dimensions.



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LUMINAIRE ADJUSTMENT

By programming the driver

Programming profile

The driver can be programmed so that luminous flux is reduced from the luminaire during the least busy hours at night while always meeting the required lighting and uniformity levels.

Programming profile 56

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





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.







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.



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INNOVATIVE AND UPDATABLE OVER TIME (Zhaga/ ZD4i)



Zhaga — "Future Proof"

Zhaga is an industrial consortium that seeks to standardise the specifications used for interfaces between LED luminaires and light sources. The goal is to achieve interchangeability between products made by different manufacturers. Zhaga defines the testing procedures for light sources from luminaires and LEDs so that the luminaires accept the LED source.

"BOOKS" PER APPLICATION. A PROFITABLE SOLUTION.



The specifications indicating that a component is Zhaga can be found in a series of books that are only available to consortium members and enable designs to be produced according to the marked standard. The advantages for society are clear given that, besides reducing the consumption of resources, luminaire re-use is increased with a focus on achieving a circular economy.

Zhaga D4i — "Sensor Ready"

luminaire DALI.

Alliance

The Zhaga consortium merged with DiiA to create one

single Zhaga-D4i certificate that combines the specifi-

cations for outdoor connectivity from Version 2 of Zha-

ga Book 18 with the D4i specifications of Dii4 for intra-

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 Conus GEN4 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 inter-operability.

