Spin M

GEN2

KEY BENEFITS

- Integrates into any urban space.
- Tool-free access from the top.
- Durability and sturdiness: IP66 + IK09.
- Die Cast aluminium (Cu<0.1%).
- Energy Efficient:
  GEN2: 156 lm/W
  GENA: 164 lm/W
- Up to 21 photometric distributions
- Smart Ready: Designed to house both indoor and outdoor communications nodes
- Future Proof: Zhaga-compliant
- Life span L90B10 100,000h (Ta) 25ºC
- Night Friendly: ULR Arrêté du 27 décembre 2018
- Optional pre- or post-installation shielding for these luminaires.
- New PLUG&PLAY connector.
- 5 years warranty

IP66 IK09 CI CII

RAL 7015 Textured

Marine finish RAL M 7015T

Dark-Sky Association certification
3.000K no disponible para 4.000K.
Ajuste mecánico: máx. + o - 15 grados para permitir la nivelación en el terreno.

Amber CRI>60 | 2200K CRI>70 | 2700K CRI>70 | 3000K CRI>70 | 4000K CRI>70

Optional CR>80

DESCRIPTION

The new generation Spin is characterised by a renewed design more elegant and aesthetic. It features a simple design with a balanced silhouette, offering a harmony between the circular shape of the body and the straight lines of the bracket.

New PLUG&PLAY connector and its tool-free opening system allow for quick and easy installation and maintenance.

Spin family is certified with IDA mark, awarded by the International Dark Sky Association, which certifies that we comply with their approval programme to provide light that protects the environment and dark skies.

GEN2:
1.166 lm - 14.272lm
GENA:
2.383lm - 15.950m

9 Kg

GEN2: 156 lm/W
GENA: 164 lm/W

-40ºC - +50ºC

Tool-free access to control gear

0,00% - 0,08%
FHS/ULR

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

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)

*Test reports from independent ENAC accredited laboratories or equivalent. Measurements taken at ISO 17025 approved laboratory.
Meets the minimum CEI - IDAE requirements.

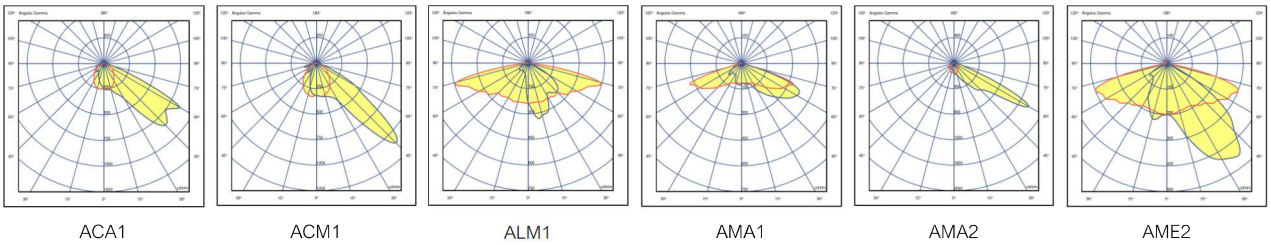
Distributor: EPK elektro s.r.o.
info@carandini.cz - www.carandini.cz

V1. 18/11/2025

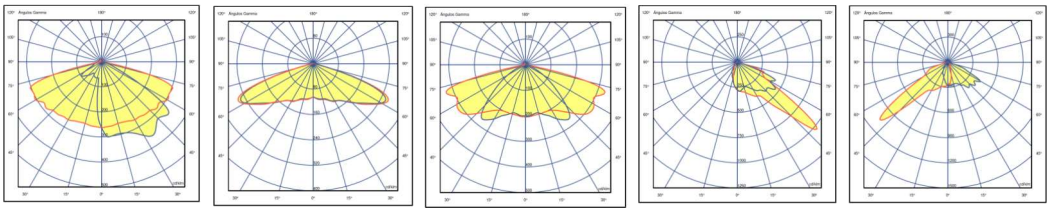
PHOTOMETRIC DISTRIBUTIONS

It has the 21 photometric distributions used for the environments in which this type of luminaire is installed, allows it to adapt to all needs:

GEN1

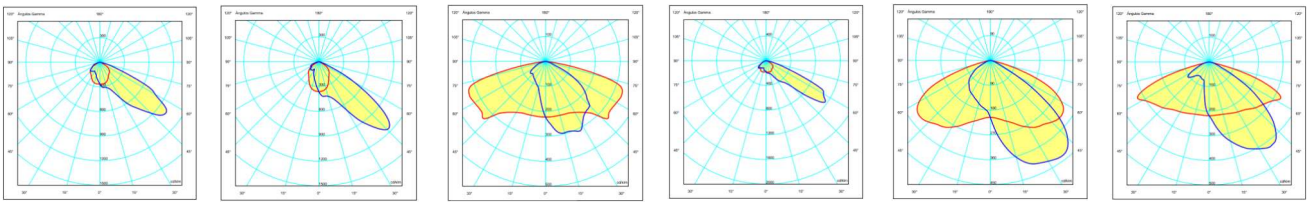


ACA1 ACM1 ALM1 AMA1 AMA2 AME2

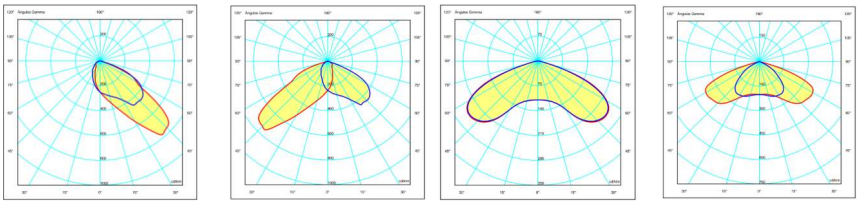


AMM1 SMA1 SME1 PCE1 PCE2

GENA



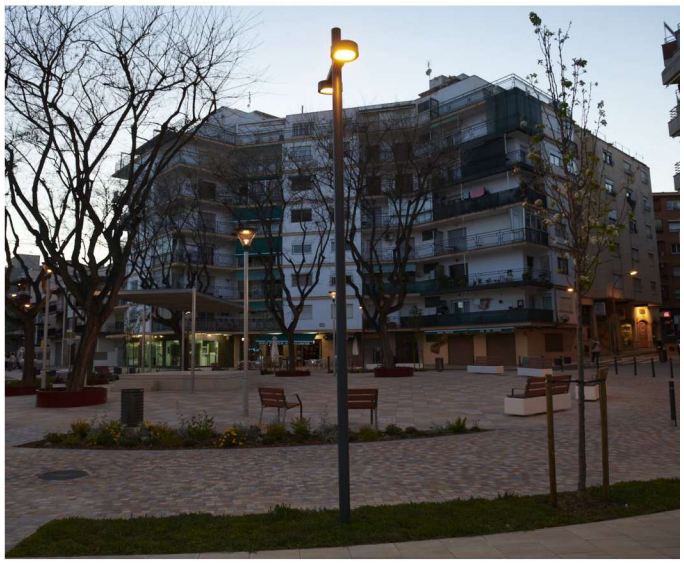
ACA1 ACM1 ALM1 AMA2 AME2 AMM1



PCE1 PCE2 SMA1 SME1

APPLICATIONS

Greenways and bike lane, train and bus stations, facades and monuments, parks, squares and gardens, residential and pedestrian areas.



SPIN M CHARACTERISTICS

GENERAL INFORMATION

Sustainability	Valorisation: 99,29% Carbon footprint per use: 0,013727 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

Body, Cover and Bracket	Pressure die-cast aluminium EN AC-44100 (LM6) with low copper content <0.1%. Includes a moulded silicone gasket in the perimeter channel.
Entry	M20 nickel plated brass cable gland
Light enclosure	5mm toughened flat glass.
Exterior nuts and bolts	Stainless steel (AISI304).
General ingress protection	IP66 (EN 60598-1 and EN 60529)
Level of protection against impacts	IK09 (EN 62262)
Operating temperature	Ta -40°C to +50°C According to luminaire configuration.
Lifetime	L90B10 100,000 h at Ta 25°C. Light maintenance values at 25°C. Calculated by TM-21 based on LM-80 data.

ELECTRICAL CHARACTERISTICS

Electrical class	Class I Class II
Input voltage	220 V - 240 V / 50 Hz - 60 Hz Optional 100 V- 277 V
Power factor	> 0.9 at full load.
Harmonic distortion	< 10%
Overvoltage protection	Overvoltage 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: 20 kA, 20 kV.

LIGHTING CHARACTERISTICS

Package real light	GEN2: 1.166 lm - 14.272lm (21W - 103W). GENA: 2.383lm - 15.950m (17W - 103W).
LED color temperature (CRI)	4,000 K (Neutral White, nw). 3,000 K (Warm White, ww). 2,700 K (Warm White, ww). 2,200 K (Warm White, ww). Amber colour temperature, upon request.
Index of reproduction chromatic	CRI>70. CRI80 upon request
LEDs	Includes 32 and 48 LEDs.
ULR	Between 0.00% and 0.08%
Optics	PMMA polymethylmethacrylate.
Photometric distribution	ACA1: al. Long. 10º ap. trans. 40º/60º (Tipo III) ACM1: al. Long. 15º ap. trans. 45º (Tipo III) ALM1: al. Long. 75º ap. trans. 10º/45º (Tipo III) AMA1: al. Long. 70º ap. trans. 50º/65º (Tipo IV) AMA2: al. Long. 15º ap. trans. 60º (Tipo III) AME2: al. Long. 70º ap. trans. 15º/40º (Tipo II) AMM1: al. Long. 70º ap. trans. 20º/40º (Tipo II) PCE1: al. Long. 50º ap. trans. 45º/55º (Tipo IV) PCE2: al. Long. 50º ap. trans. 50º/60º (Tipo II) SMA1: al. Long. 60º ap. trans. 60º (Tipo VS) SME1: al. Long. 70º ap. trans. 40º (Tipo II)
LED thermal management	Heat dissipation via conduction, radiation and convection based on a design for LED technology.

FINISHES

Predefined luminaire colour

RAL 7015	Gray powder paint RAL 7015 Textured (7015T).

Corrosion protection

SEA SIDE SUITABLE	Marine Finish (1.000h)

SPIN S CHARACTERISTICS

MAINTENANCE AND ASSEMBLY

Installation and maintenance	Tool-free luminaire access system designed by Carandini. Access to the driver from the top.
Fixation	**BFO:** Cast bracket (concealed hose cable outlet). **BFS:** Cast bracket (upper hose cable outlet). **N61:** Cast knot 60 (concealed hose cable outlet) **PT2:** Vertical fixation Ø60mm **FMO:** Wall fixation (concealed hose cable outlet) **FMS:** Wall fixation (upper hose cable outlet) **N61, PT2, FMO** and **FMS** fixations are supplied with **BFO** arm. **FMS** fixation is supplied with **BFS** arm.
Accessories	**BMO**: Horizontal steel arm 700mm. **PT2-2**: Vertical fixation 60 double. **N62**: Cast knot for Pole 60mm (2 luminaires). **KIT-M 12:** Lampe transversale 120mm (24-48 LEDs). **KIT-M 16:** Lampe transversale 120mm (32 LEDs).
Equipped weight	9 Kg
Pressure equalisation valve	The luminaire has a pressure equalisation value to balance internal / external system pressure. Integrating the valve extends the projected lifetime of the gaskets and internal components by reducing the pressure exerted on them, and also prevents the entry of moisture that can cause condensation.
Cables	Classe I/II Câble de 4 à 9 mètres Section transversale : 2x1,5 ; 3x1,5 ; 4x1,5 ; 5x1,5 ; 2x2,5 ; 3x2,5

MANAGEMENT AND CONTROL

Equipment	**1N:** 1 Level **RC:** Controller dimmed **RD:** DALI **AF:** 1 - 10 V **RL:** Pulse adjustable LED **2N:** 2 Level **SR:** Smart Ready (D4i)
Autonomous regulation	Regulations programmed from the factory: **56:** 50% from 00:00 to 06:00 **66:** 60% from 00:00 to 06:00 **76:** 70% from 00:00 to 06:00 **SC:** As requested by the client.
CLO regulation	Flow rate during the life of the product: **7**: 70% luminous flux throughout the life of the luminaire. **8**: 80% luminous flux throughout the life of the luminaire. **9**: 90% luminous flux throughout the life of the luminaire.
Socket connection	**3:** NEMA socket on/off sin tapa **U:** NEMA socket on/off with IP66 cover **5:** NEMA socket 5 pins without cover **V:** NEMA socket 5 pins with IP66 cover **7:** NEMA socket 7 pins without cover **W:** NEMA socket 7 pins with IP66 cover **4:** Base ZHAGA 4 pins without cover **X:** Base ZHAGA 4 pins with IP66 cover
Sensor	**1:** Photocell for base NEMA 3, 5 and 7 (20 LUX) **2:** Photocell for upper ZHAGA base (20 LUX)
Node	**CD:** Citydim **BS:** Controlux BASIC IMCU

LOGISTICAL INFORMATION

SPIN M

Box size: 524x 379 x 200 mm

Box weight: 9.0 kg.

Number of boxes: 32 units

American base: 1200 x 800 x 1710 mm

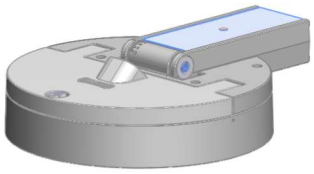
Stack height: 8 levels

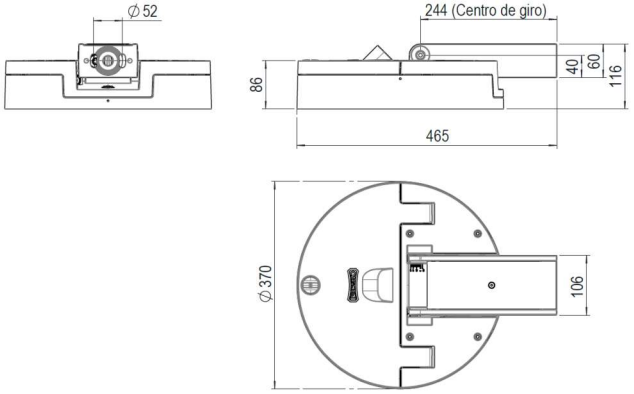
Area occupied: 75%

Volume used: 69%

Total gross weight: 308 kg.

DIMENSIONS



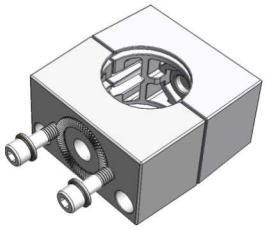


Distributor: EPK elektro s.r.o.
info@carandini.cz - www.carandini.cz

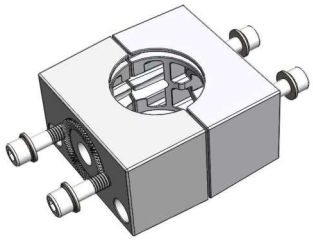
FIXATIONS

Poles Ø 60 mm

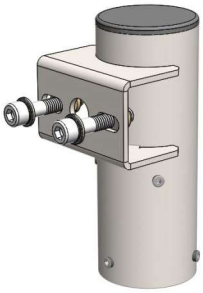
N61 *(1 luminaire)*
Cast knot 60 (concealed hose cable outlet)
Standard. Code: 380124



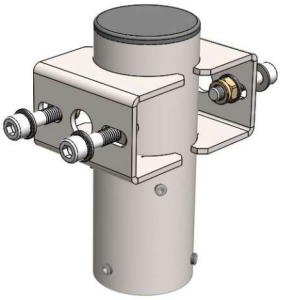
N62 *(2 luminaires)*
Cast knot for Pole 60mm (concealed hose cable outlet)
Accessories. Code: 380125



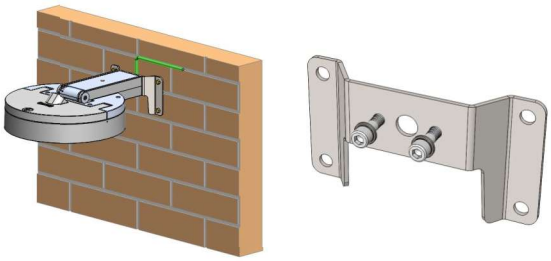
PT2 *1 luminaire)*
Steel coupling to steel pole the Ø60mmx100mm
(concealed hose cable outlet)
Standard. Code: 320118



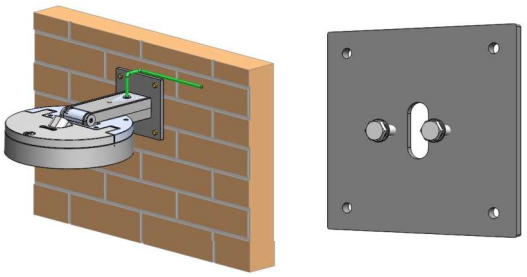
PT2 *(2 luminaires)*
Steel coupling to steel pole the Ø60mmx100mm
(concealed hose cable outlet)
Accessories. Code: 320141



FMO
Wall fixation (concealed hose cable outlet)
Standard. Code: 321202

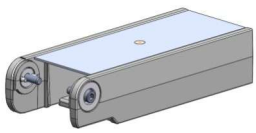


FMS
Wall fixation (upper hose cable outlet)
Standard. Code: 380127

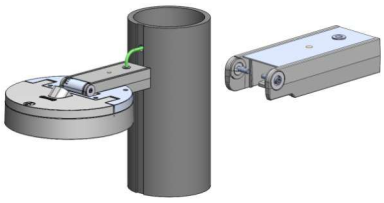


ARMS

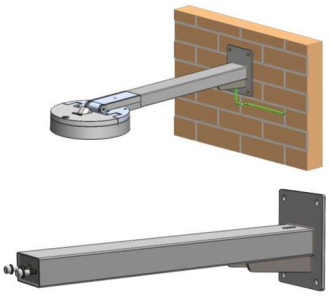
BFO (Principal)
Cast bracket (concealed hose cable outlet)
Standard. Code: 380140



BFS
Cast bracket (upper hose cable outlet)
Standard. Code: 380080

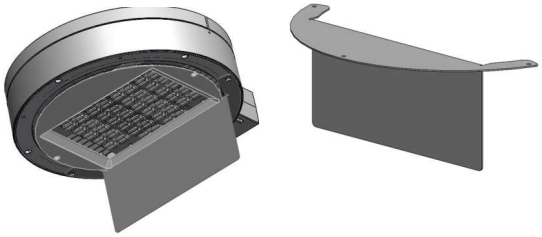


BMO
Steel Arm (concealed hose cable outlet)
Accessories. Code: 320927

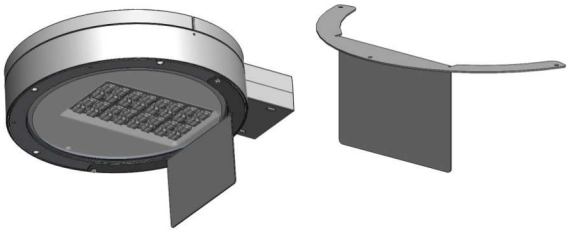


ACCESSORIES

KIT LAMA REAR -12_120mm
Accessories. Code: 380177



KIT LAMA REAR -16_120mm
Accessories. Code: 380178



NOTE: Customisable lama according to the project by Carandini.

LUMINAIRE ADJUSTMENT

By programming the driver

Programming profile

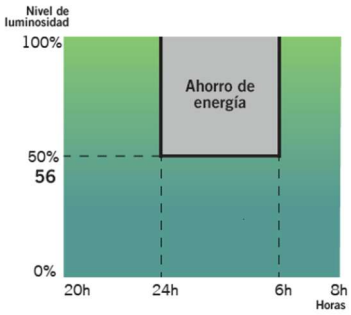
The driver can be programmed so that luminous flux is reduced from the luminaire during the least busy hours at night while always meeting the required lighting and uniformity levels.

Programming profile 56

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

Up to

26%
savings



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 lifetime of the luminaire. This saves energy and increases the lifetime of the system. Furthermore, the light level in the area where the luminaire is installed remains constant over time.

Constant luminous flux 8

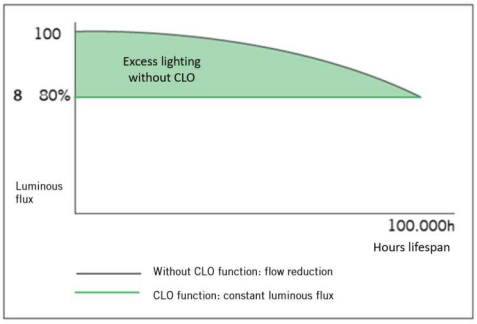
Luminous flux from the luminaire at 80% to maintain light levels throughout its lifetime.

Up to

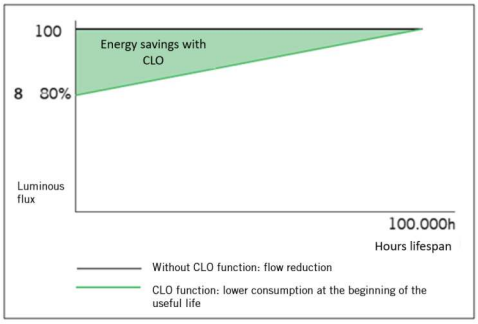
10%
savings

and increase in luminaire service life

Luminous flux chart



Consumption graph



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.

INNOVATIVE AND UPDATABLE OVER TIME (Zhaga/ ZD4i)

"All luminaires incorporating Nema Bases or Zhaga Bases, 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 Bases 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.

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

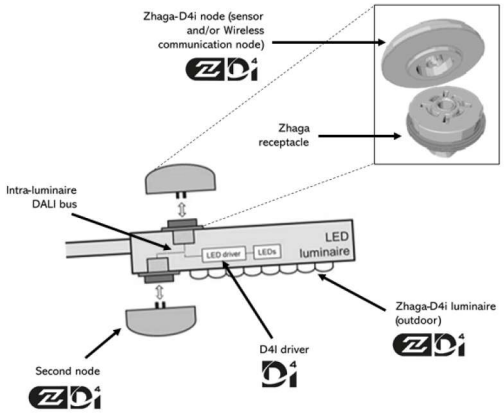
Zhaga-D4i certification covers all the essential characteristics, including automatic adjustment, digital communication, data reporting and power requirements in any single luminaire, ensuring plug-and-play interoperability for luminaires (drivers) and peripherals, such as connectivity nodes.

STANDARDISATION AS A MEANS TO ACHIEVE SUSTAINABILITY

The Spin S 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 2 W and 1 W.

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 sockets compliant with the Zhaga “Book 18” & Zhaga-D4i standard on sensor and communication node interoperability.