IN-GROUND LUMINAIRES

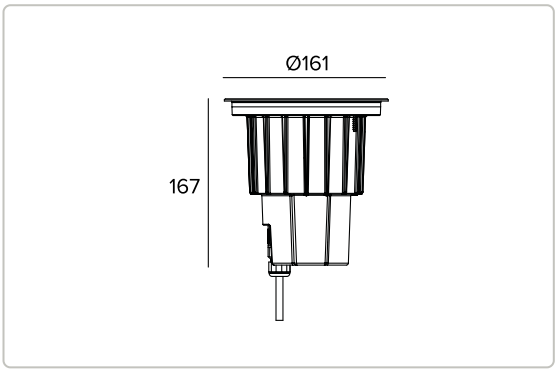
# Keplero 160 Zoom



**Code**
## E015ZMH830DACSS

| LIGHT COLOUR | LIGHT DISTRIBUTION | OUTPUT |
|---|---|---|
| 3000K<br>80 | Multioptic Zoom<br>15°, 32°, 53°, 61° | 13.4W<br>661-1221lm |

| POWER SUPPLY CONTROL | COLOUR |
|---|---|
| 110-240V<br>DALI | |




**The figures on the drawing are expressed in mm.**

1.31 IP66 IP67 IP68 IP69 IK10 CE

**The fixture's photometric values can be found on the following pages**

## Technical Data

### Concept

Compact inground adjustable projector equipped with LED sources.

### Source

| High efficiency Chip on Board LED Ra80. 3500K colour temperature available on request. | |
|---|---|
| Energy efficiency class | D |
| Nominal power | 12W |
| Nominal flux | 1923lm |
| Colour rendering index | 80 |
| Rf | 83 |
| Rg | 96 |
| CCT nominal | 3000K |
| Lifetime (L80/B10) | 72000h tq +25°C |
| Lifetime (L90/B10) | 72000h tq +25°C |

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Luminous flux and power supply have +/-10% tolerances with respect to the indicated value. tq +25°C (CIE 121).

We reserve the right to make technical changes.

## Technical Data

### Illuminotechnical characteristics

A hybrid lens and reflector Zoom optical system with variation of the beam opening in four positions (Spot, Flood, Medium Wide, Wide Flood). Aiming using a tilting system up to 20° on the vertical axis and 360° on the horizontal plane with a friction aim locking system.

| | |
|---|---|
| Optic | Multioptic Zoom |
| Beam angles | SP, FL, MWFL, WFL |
| Optical efficiency | See photometries |
| Fixture flux | See photometries |
| Luminous efficacy | See photometries |
| Photobiological safety | Compliant with RG1 low risk group |

### Mechanical characteristics

Die-cast aluminium body with 3 layers of protection: anodised, cataphoresis and black paint. Brushed stainless steel (AISI 316) ultra flat decorative ring with bevelled edge (natural finish). Version with extra-clear protective glass. Anti theft stainless steel A4 Torx screws.

| | |
|---|---|
| Colour and finish | Brushed stainless steel |
| Dimensions | ØxH 161x167mm |
| Weight | 1.31Kg |
| Version | Extra-clear glass |
| Degree of protection | IP66,IP67,IP68,IP69 |
| Mechanical Resistance | IK10 |

### Electrical characteristics

110-240Vac power supply with an integrated DALI driver. Connection to the mains via IP68 watertight connectors for H07RN8-F cable (max 2x2.5mm²).

| | |
|---|---|
| Fixture Power | 13.4W |
| Power supply | 110-240V 50/60Hz |
| Insulation Class | CLASS 2 |
| Type of driver / Control | DALI |
| Driver included | YES |
| SAFE FLICKER | PstLM=<1 and SVM=<0.4 (IEC TR 61547-1 and IEC TR 63158), to ensure a more comfortable and safe light |
| Ambient temperature | -25°C / +35°C |

### Installation

Nylon installation sleeve to be ordered separately as an accessory. The sleeve is pre-set for both flush or straight edge installation. 20kN resistance to static load.

### Notes

All light fixtures must be completed with an installation sleeve. IP68: the fixture is not suitable for permanent underwater installation but can withstand temporary accidental immersion to a depth of 2 metres (max.24h). IP69: IEC/EN 60529 standard compliant. All versions of the KEPLERO family meet all the requirements of EN 60598-2-13 standard regarding drive-over and walk-over performances. Low temperatures on the glass make them suitable even for installation in "special areas", such as spaces for children. Uses the "Waterblock Smart" technical solution that involves resin coating the connection cables, limiting the risk of humidity reaching the driver or the fixture. 110-277Vac version available on request. Commissioning of the control system via free APP; the intervention of a specialist technician can be quoted on request.

## Technical Data

### Regulations and Certifications

CE

### Warning

Luminaire designed for disposal/recycling at end-of-life. Replaceable (LED only) light source by a professional. Replaceable control gear by a professional.

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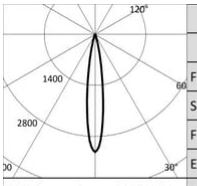
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# Photometries

## SP

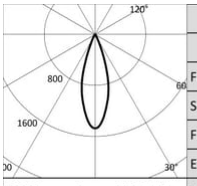
| | |
|---|---|
| **Fixture flux** | 661lm |
| **Luminous efficacy** | 49lm/W |
| **Optical efficiency** | 34.39% |




| | 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|---|
| | Ra80 | | | 15° | |
| Fixture Power | 13W | | 1 | 0.27 | 6192 |
| Source Flux | 1923lm | | 2 | 0.54 | 1548 |
| Fixture Flux | 661lm | | 3 | 0.82 | 688 |
| Efficacy | 49lm/W | | 4 | 1.09 | 387 |
| TS815 | Imax=3220cd/klm | Imax | 6192cd | 5 | 1.36 | 248 |

## FL

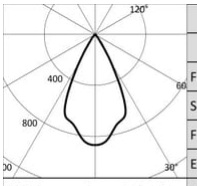
| | |
|---|---|
| **Fixture flux** | 876lm |
| **Luminous efficacy** | 65lm/W |
| **Optical efficiency** | 45.58% |




| | 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|---|
| | Ra80 | | | 32° | |
| Fixture Power | 13W | | 1 | 0.58 | 2825 |
| Source Flux | 1923lm | | 2 | 1.15 | 706 |
| Fixture Flux | 876lm | | 3 | 1.73 | 314 |
| Efficacy | 65lm/W | | 4 | 2.30 | 177 |
| TS816 | Imax=1469cd/klm | Imax | 2825cd | 5 | 2.88 | 113 |

## MWFL

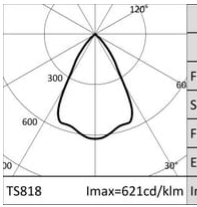
| | |
|---|---|
| **Fixture flux** | 1132lm |
| **Luminous efficacy** | 84lm/W |
| **Optical efficiency** | 58.88% |




| | 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|---|
| | Ra80 | | | 53° | |
| Fixture Power | 13W | | 1 | 0.99 | 1664 |
| Source Flux | 1923lm | | 2 | 1.98 | 416 |
| Fixture Flux | 1132lm | | 3 | 2.97 | 185 |
| Efficacy | 84lm/W | | 4 | 3.95 | 104 |
| TS817 | Imax=866cd/klm | Imax | 1664cd | 5 | 4.94 | 67 |

## WFL

| | |
|---|---|
| **Fixture flux** | 1221lm |
| **Luminous efficacy** | 91lm/W |
| **Optical efficiency** | 63.5% |




| | 3000K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|---|
| | Ra80 | | | 61° | |
| Fixture Power | 13W | | 1 | 1.18 | 1194 |
| Source Flux | 1923lm | | 2 | 2.37 | 299 |
| Fixture Flux | 1221lm | | 3 | 3.55 | 133 |
| Efficacy | 91lm/W | | 4 | 4.74 | 75 |
| TS818 | Imax=621cd/klm | Imax | 1194cd | 5 | 5.92 | 48 |

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## Related codes

### Sleeve



| CODE | H | Ø |
|---|---|---|
| 1E2521 | 200mm | 166mm |

Installation sleeve.
Grey Nylon casing.
For flush and semi-flush installation.

## Accessories

### Filter



| CODE | Ø |
|---|---|
| 1T1708 | 70mm |

Flat striped glass blade light refractive filter.
This makes the beam take on an oval shape and when combined with spotlights, the light blade appears more prominent.

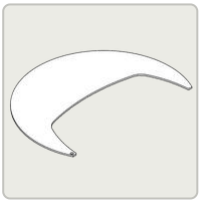
### Grid



| CODE | Ø |
|---|---|
| 1T1711 | 70mm |

Anti-glare louver.
Black painted metal honeycomb structure.

### Shutter



| CODE | COLOUR |
|---|---|
| 1E2523 | ● |

Black half-moon shutter.

### Tool



| CODE |
|---|
| 1E0388 |

Sucker tool to raise the glass.



| CODE |
|---|
| 1E2495 |

Features TORX HEAD, TX 30.

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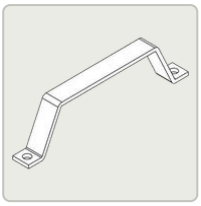
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**CODE**

**1E2524**

Metal handle for fixture removal

## Connector



**CODE**

**1E2769**

Linear connection box IP66/IP68.
5 poles max. wire section 1.5mm².
Cable diameter range from 7 to 12mm.

## Control systems



**CODE**

**1E3048**

IP67 wireless control unit with DALI interface.
It generates a local DALI2 bus, enhabling a direct connection to a DALI interface LED driver.
The module can only be used in a closed system and cannot be connected to an existing DALI network.
The module is wireless controlled using a Casambi app for smartphones and tablets using Bluetooth 5.0 technology.
The devices automatically create an adaptive, robust, and reliable wireless mesh network, allowing for the easy and efficient management of a high number of fixtures.
The control unit is preset to the DALI 1CH profile, maning the device can control a single DALI driver with broadcast commands.
In addition to the DALI broadcast, other operating modes are available, such as:

- Button (normally open)
- Control unit 0/1-10V
- Control unit DALI Tunable White DT8
- Presence sensor

If different from the preset mode, the desired operating profile must be set directly by the user before coupling the control unit to the Casambi network.
LxHxP=108x28x65mm.



**CODE**

**1E4369**

IP67 Extender for wireless control of LED driver with dimming DALI interface based on Casambi technology.
It has a DALI2 output with the capacity to control up to 40 lighting fixtures.
With the addition of a further external BUS DALI power supply it is possible to control up to 64 fixtures.
IP67 Extender is preset to the DALI broadcast profile, meaning all the luminaires connected to it are dimmable at the same level.
In addition to the DALI broadcast other operating modes are available, such as:

- EXTENDER DALI 8CH
- EXTENDER DALI Tunable White
- EXTENDER DALI 4CH
- EXTENDER DALI DT8 Tunable White

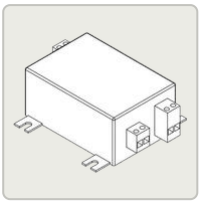
If different from the preset mode, the desired operating profile must be set directly by the user before coupling the extender to the Casambi network.
LxHxP=148x40x150mm.



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## Surge protector



**CODE**

**A013D**

Surge protector compatible with CLASS II lighting fixtures.
DALI, DMX, 0-10V datalines compliance.
Operating voltage 230-277Vac.
SPD type 2+3.
Max surge protection 10kV.
CLASS II
IP65

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