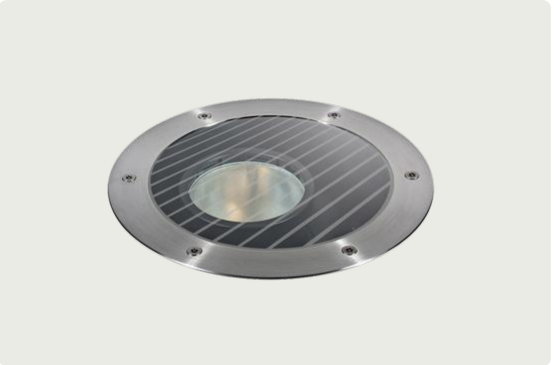
IN-GROUND LUMINAIRES

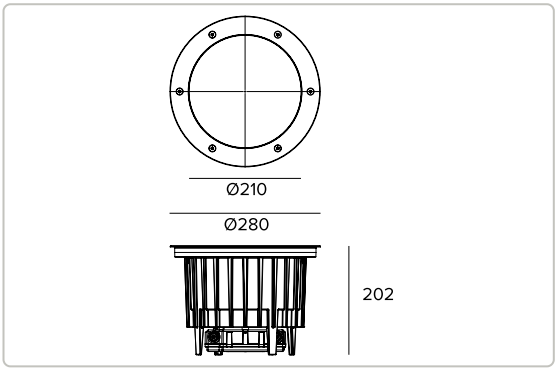
# Keplero 280 Zoom



Code
## E013ZMH827DAACB

| LIGHT COLOUR | LIGHT DISTRIBUTION | OUTPUT |
|---|---|---|
| 2700K<br>80 | Multioptic Zoom<br>19°, 26°, 43°, 64° | 35.3W<br>1707-2960lm |

| POWER SUPPLY CONTROL | COLOUR |
|---|---|
| 220-240Vac<br>DALI | |




The figures on the drawing are expressed in mm.




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

## Technical Data

### Concept

Adjustable recessed professional projector equipped with LED sources and variable beam openings.

### Source

| High efficiency Chip on Board LED Ra80. 3500K colour temperature available on request. | |
|---|---|
| Energy efficiency class | E |
| Nominal power | 30W |
| Nominal flux | 4662lm |
| Colour rendering index | 80 |
| Rf | 82 |
| Rg | 96 |
| CCT nominal | 2700K |
| Lifetime (L80/B10) | 72000h tq +25°C |
| Lifetime (L90/B10) | 72000h tq +25°C |

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CCIAA Firenze
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VAT N. (IT): 01537660480
R.E.A: FI-275656

Targetti Sankey S.r.l.
Via Giuseppe Garibaldi, 82
50041 Calenzano (FI)
Italy

Tel: +39 055 37911
targetti.com
targetti@targetti.com

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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 patented hybrid lens/reflector Zoom optical system with the possibility of sliding and locking on the vertical axis in four positions for as many beam openings. Beam adjustability up to 20° on the vertical plane and 360° on the horizontal plane obtained by rototranslation of the optical group, with double aim locking system. Optic group pre-set for the installation of one or more dedicated optical accessories to be ordered separately.

| | |
|---|---|
| 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 (copper bronze finish). Version with anti-slip protective glass for public pedestrian areas. Anti theft stainless steel A4 Torx screws.

| | |
|---|---|
| Colour and finish | Copper bronze |
| Dimensions | ØxH 280x202mm |
| Weight | 5.25Kg |
| Version | Anti-slip glass |
| Degree of protection | IP66,IP67,IP68 |
| Mechanical Resistance | IK10 |

### Electrical characteristics

Integrated IP68 DALI power supply equipped with IP68 waterproof connectors set for connection to the mains with a H07RN8-F (max2x2.5mm²) cable. Fixture with a pass-through line. Casambi control system available using a dedicated accessory (only for DALI version products).

| | |
|---|---|
| Fixture Power | 35.3W |
| Power supply | 220-240Vac 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 projector is not suitable for permanent underwater installation but can withstand temporary accidental immersion to a depth of 2 metres (max.24h). 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 Plus" technical solution that involves resin coating the connection cables and completely resin coating the integrated driver limiting the risk of humidity reaching 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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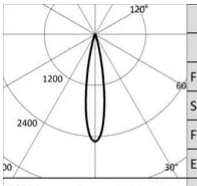
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# Photometries

## SP

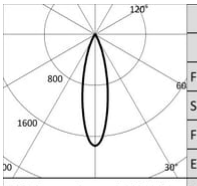
| | |
|---|---|
| **Fixture flux** | 1707lm |
| **Luminous efficacy** | 48lm/W |
| **Optical efficiency** | 36.62% |




| 2700K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 19° | |
| Fixture Power | 35W | 1 | 0.34 | 11742 |
| Source Flux | 4662lm | 2 | 0.67 | 2935 |
| Fixture Flux | 1707lm | 3 | 1.01 | 1305 |
| Efficacy | 48lm/W | 4 | 1.34 | 734 |
| TS782 Imax=2519cd/klm | Imax | 5 | 1.68 | 470 |

## FL

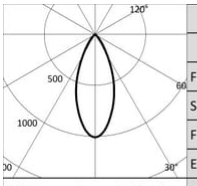
| | |
|---|---|
| **Fixture flux** | 2259lm |
| **Luminous efficacy** | 64lm/W |
| **Optical efficiency** | 48.46% |




| 2700K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 26° | |
| Fixture Power | 35W | 1 | 0.46 | 8134 |
| Source Flux | 4662lm | 2 | 0.93 | 2034 |
| Fixture Flux | 2259lm | 3 | 1.39 | 904 |
| Efficacy | 64lm/W | 4 | 1.86 | 508 |
| TS781 Imax=1745cd/klm | Imax | 5 | 2.32 | 325 |

## MWFL

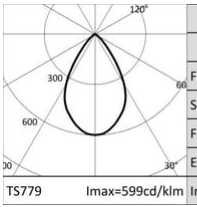
| | |
|---|---|
| **Fixture flux** | 2823lm |
| **Luminous efficacy** | 80lm/W |
| **Optical efficiency** | 60.55% |




| 2700K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 43° | |
| Fixture Power | 35W | 1 | 0.78 | 4692 |
| Source Flux | 4662lm | 2 | 1.56 | 1173 |
| Fixture Flux | 2823lm | 3 | 2.34 | 521 |
| Efficacy | 80lm/W | 4 | 3.12 | 293 |
| TS780 Imax=1006cd/klm | Imax | 5 | 3.90 | 188 |

## WFL

| | |
|---|---|
| **Fixture flux** | 2960lm |
| **Luminous efficacy** | 84lm/W |
| **Optical efficiency** | 63.5% |




| 2700K | | H(m) | D(m) | Emax(lx) |
|---|---|---|---|---|
| Ra80 | | | 64° | |
| Fixture Power | 35W | 1 | 1.25 | 2792 |
| Source Flux | 4662lm | 2 | 2.50 | 698 |
| Fixture Flux | 2960lm | 3 | 3.75 | 310 |
| Efficacy | 84lm/W | 4 | 5.00 | 174 |
| TS779 Imax=599cd/klm | Imax | 5 | 6.25 | 112 |



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## Related codes

### Sleeve



| CODE |
| --- |
| 1E2394 |

Grey nylon installation sleeve.
The sleeve is pre-set for both flush or straight edge installation.
Complete with dedicated cover cap for installations in concrete.
Flush ring Ø 286 H.225.
Straight edge ring Ø 271 H. 223.

## Accessories

### Filter



| CODE | Ø |
| --- | --- |
| 1T1696 | 101mm |

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.

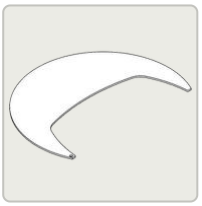
### Grid



| CODE | Ø |
| --- | --- |
| 1T1699 | 101mm |

Anti-glare louver.
Black painted metal honeycomb structure.

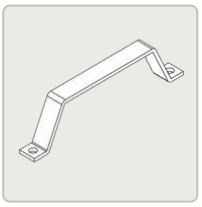
### Shutter



| CODE | COLOUR |
| --- | --- |
| 1E2402 | ● |

Half-moon shutter.

### Tool



| CODE |
| --- |
| 1E2496 |

Metal handle for fixture removal



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

Features TORX HEAD, TX 30.

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**CODE**

**1E0388**

Sucker tool to raise the glass.

## 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

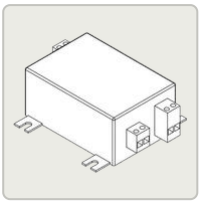
If different from the preset mode, the desired operating profile must be set directly by the user before coupling the extender to the Casambi network.
LxHxP=148x40x150mm.



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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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