IN-GROUND LUMINAIRES

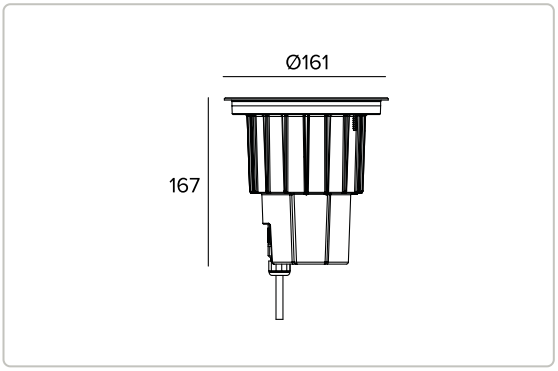
Keplero 160 Zoom



Code
E015ZMH830DAACB

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

POWER SUPPLY CONTROL	COLOUR
110-240V 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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CCIAA Firenze
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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 (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 161x167mm
Weight	1.31Kg
Version	Anti-slip 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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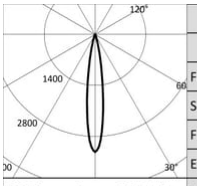
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Photometries

SP

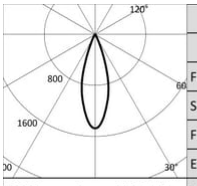
Fixture flux	661lm
Luminous efficacy	49lm/W
Optical efficiency	34.39%



	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

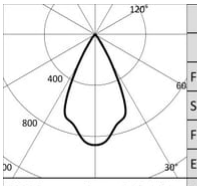
Fixture flux	876lm
Luminous efficacy	65lm/W
Optical efficiency	45.58%



	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

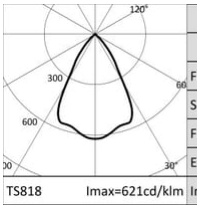
Fixture flux	1132lm
Luminous efficacy	84lm/W
Optical efficiency	58.88%



	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.

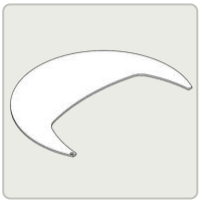
Grid



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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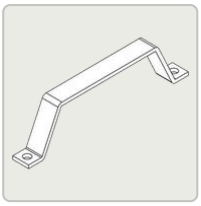
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CODE

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:

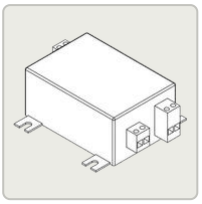
- EXTENDER DALI 8CH
- EXTENDER DALI Tunable White
- EXTENDER DALI 4CH
- EXTENDER DALI DT8 Tunable White

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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