IN-GROUND LUMINAIRES

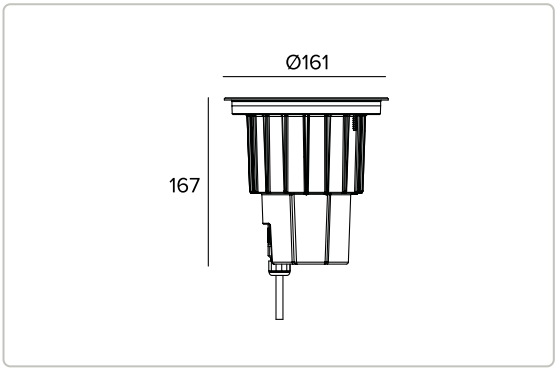
Keplero 160 Zoom



Code
E015ZMH830ELCEB

LIGHT COLOUR	LIGHT DISTRIBUTION	OUTPUT
3000K 80	Multioptic Zoom 15°, 32°, 53°, 61°	13W 661-1221lm

POWER SUPPLY CONTROL	COLOUR
110-240V ON-OFF	●



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

TARGETTI

CCIAA Firenze
Share Capital: € 500.000,00
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R.E.A: FI-275656

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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. Ultra flat decorative ring with a flared edge, made of brushed stainless steel (AISI 316) (eclipse black finish). Version with extra-clear protective glass. Anti theft stainless steel A4 Torx screws.

Colour and finish	Eclipse black
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 ON-OFF integrated driver. Connection to the mains via IP68 watertight connectors for H07RN8-F cable (max 2x2.5mm^2).

Fixture Power	13W
Power supply	110-240V 50/60Hz
Insulation Class	CLASS 2
Type of driver / Control	ON-OFF
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.

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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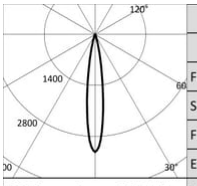
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Photometries

SP

Fixture flux	661lm
Luminous efficacy	51lm/W
Optical efficiency	34.39%

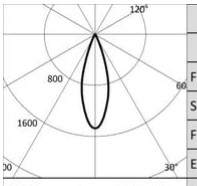


3000K		H(m)	D(m)	Emax(lx)
Ra80			15°	
Fixture Power	13W	1	0.27	6192
Source Flux	1923lm	2	0.54	1548
Fixture Flux	661lm	3	0.82	688
Efficacy	51lm/W	4	1.09	387
Imax	6192cd	5	1.36	248

TS815 Imax=3220cd/klm

FL

Fixture flux	876lm
Luminous efficacy	67lm/W
Optical efficiency	45.58%

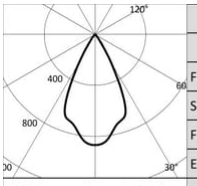


3000K		H(m)	D(m)	Emax(lx)
Ra80			32°	
Fixture Power	13W	1	0.58	2825
Source Flux	1923lm	2	1.15	706
Fixture Flux	876lm	3	1.73	314
Efficacy	67lm/W	4	2.30	177
Imax	2825cd	5	2.88	113

TS816 Imax=1469cd/klm

MWFL

Fixture flux	1132lm
Luminous efficacy	87lm/W
Optical efficiency	58.88%

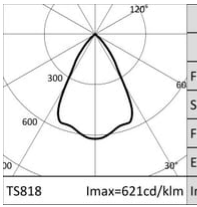


3000K		H(m)	D(m)	Emax(lx)
Ra80			53°	
Fixture Power	13W	1	0.99	1664
Source Flux	1923lm	2	1.98	416
Fixture Flux	1132lm	3	2.97	185
Efficacy	87lm/W	4	3.95	104
Imax	1664cd	5	4.94	67

TS817 Imax=866cd/klm

WFL

Fixture flux	1221lm
Luminous efficacy	94lm/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	94lm/W	4	4.74	75
Imax	1194cd	5	5.92	48

TS818 Imax=621cd/klm

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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.

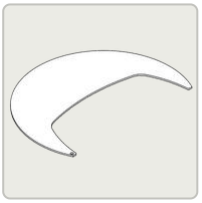
Grid



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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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.

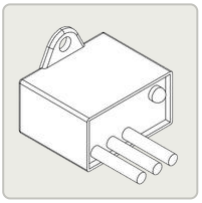


CODE

1E2494

Multiple connection box IP68.
1 IN - 3 OUT 4 poles max. wire section 2.5mm².
Cable diameter range from 6 to 12mm.

Surge protector



CODE

A013B

Surge protector compatible with CLASS II lighting fixtures and electronic drivers.
Operating voltage 220-240Vac.
SPD type 2+3.
Max surge protection 10kV.
CLASS II
IP67

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