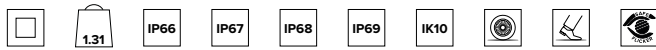


## E015ZMH830ELASS | KEPLERO 160 Zoom

Compact inground adjustable projector equipped with LED sources



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



The figures on the drawing are expressed in mm.

### 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):** >50000h tq +25°C

### 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:** 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 anti-slip protective glass for public pedestrian areas. Anti theft stainless steel A4 Torx screws.

**Colour and finish:** Brushed stainless steel

**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 ON-OFF integrated driver. Connection to the mains via IP68 watertight connectors for H07RN8-F cable (max 2x2.5mm<sup>2</sup>).

**Fixture Power:** 13W

**Power supply:** 110-240V 50/60Hz

**Insulation Class:** CLASS 2

**Type of driver / Control:** ON-OFF

**Driver included:** YES

**Class F:** 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.

### WARNING

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

Due to the technological evolution of the electronic components, the data provided may be updated, and as such, confirmation must be requested during the order process.

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.

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**TARGETTI**

**E015ZMH830ELASS | KEPLERO 160 Zoom**  
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	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	I <sub>max</sub> =3220cd/klm	I <sub>max</sub>	6192cd	5	1.36	248

	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	I <sub>max</sub> =1469cd/klm	I <sub>max</sub>	2825cd	5	2.88	113

**SP**

Fixture flux 661lm  
Luminous efficacy 49lm/W  
Optical efficiency 34%

**FL**

Fixture flux 876lm  
Luminous efficacy 65lm/W  
Optical efficiency 46%

	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	I <sub>max</sub> =866cd/klm	I <sub>max</sub>	1664cd	5	4.94	67

	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	I <sub>max</sub> =621cd/klm	I <sub>max</sub>	1194cd	5	5.92	48

**MWFL**

Fixture flux 1132lm  
Luminous efficacy 84lm/W  
Optical efficiency 59%

**WFL**

Fixture flux 1221lm  
Luminous efficacy 91lm/W  
Optical efficiency 64%

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### Related codes

#### Sleeve



Ø mm	H mm	Code
166	200	<b>1E2521</b>

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

### Accessories

#### Filter



Ø mm	Code
70	<b>1T1708</b>

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



Ø mm	Code
70	<b>1T1711</b>

Anti-glare louver.  
Black painted metal honeycomb structure.

#### Shutter



Colour	Code
●	<b>1E2523</b>

Black half-moon shutter.

#### Tool



Code
<b>1E0388</b>

Sucker tool to raise the glass.



Code

**1E2495**

Features TORX HEAD, TX 30.

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### Tool



Code

**1E2524**

Metal handle for fixture removal

### Connector



Code

**1E2769**

Linear connection box IP66/IP68.  
5 poles max. wire section 1.5mm<sup>2</sup>.  
Cable diameter range from 7 to 12mm.



Code

**1E2494**

Multiple connection box IP68.  
1 IN - 3 OUT 4 poles max. wire section 2.5mm<sup>2</sup>.  
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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