Light Up

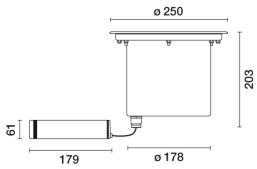
Design iGuzzini **iGuzzini**

Last information update: May 2025

Product configuration: E168+X209.04
E168: Floor recessed Earth D=250mm - Neutral white - Wide Flood optic - DALI
X209.04: Plastic casing for installation on floors + end cap - Black

Product code
E168: Floor recessed Earth D=250mm - Neutral white - Wide Flood optic - DALI

Technical description
Floor or ground-recessed luminaire designed to use white monochrome LED lamps, a fixed optic and a built-in dimmable DALI electronic ballast. The round frame measures D = 250 mm, the body and frame are made of AISI 304 stainless steel and the extra-clear, sodium - calcium tempered glass cover is 15mm thick. The stainless steel body is painted black. The luminaire is fixed to the outer casing using two Torx type securing screws. It also comes complete with an LED circuit, an aluminium OPTIBEAM reflector and a black plastic cover. An external black plastic box (PPS) contains the control gear. The product's wiring system features an A2 stainless steel cable gland with a 1200 mm long A07RNF type 4x1 mm² output power cable. The cable is equipped with an anti-transpiration device (IP68) that consists of a silicone-coated joint located on the power cable and positioned in the control gear box. An outer casing is available for installation and can be ordered separately from the plastic optic assembly. The glass unit, optical assembly, frame and outer casing together guarantee a maximum static load resistance of 5000 kg. The maximum surface temperature of the glass is less than 40°C.



Installation
The product is fixed to the outer casing using two Torx type securing screws. The unit can be floor-recessed using the outer casing for installation or ground-recessed.

Colour	Weight (Kg)
Steel (13)	4.5

Mounting
Floor recessed|ground recessed

Wiring
Product complete with 220÷240V ac DALI dimmable electronic control gear, positioned in a box separated by the optical assembly and outlet cable.

Notes
IP68 rating on both the product and the cable using IP68 connectors * The product is not suitable for installation in swimming pools and fountains. Overvoltage protection: 4kV Common Mode, 3.5kV Differential Mode

Complies with EN60598-1 and pertinent regulations

IK10 · 5000 kg · IP66 · 10m IP68 — Complete immersion for limited periods, not suitable for use in swimming pools or fountains.

The lighting fixtures were designed and tested to withstand a static load of up to 50000 N and to resist drive-over stress by vehicles with tires. The fixtures cannot be used in lanes subjected to horizontal stresses due to acceleration, braking and / or changes of direction.

Accessory code
X209.04: Plastic casing for installation on floors + end cap - Black

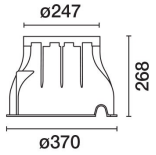
Technical description
Made of plastic (polypropylene). Inclusive of front cap with system for extracting the cables and double cable entry.

Installation
Floor-standing (concrete)

Colour	Weight (Kg)
Black (04)	1.9

Mounting
ground surface|Floor recessed|ground recessed

Complies with EN60598-1 and pertinent regulations

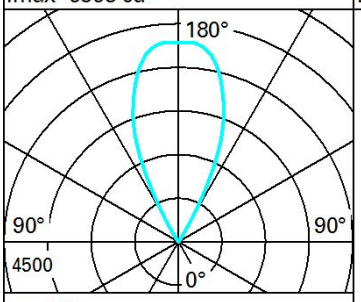


Technical data

lm system:	3673
W system:	30.1
lm source:	4540
W source:	27
Luminous efficiency (lm/W, real value):	122
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	3673
Light Output Ratio (L.O.R.) [%]:	81
Beam angle [°]:	48°
CRI (minimum):	80
Colour temperature [K]:	4000
MacAdam Step:	2
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -25°C to 50°C.
Power factor:	See installation instructions
Inrush current:	10 A / 200 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 18 luminaires B16A: 30 luminaires C10A: 31 luminaires C16A: 51 luminaires
Minimum dimming %:	1
Overvoltage protection:	4kV Common mode & 4kV Differential mode
Control:	DALI-2

Polar

Imax=6863 cd



Lux

h	d	Em	Emax
8	7.1	84	107
16	14.2	21	27
24	21.4	9	12
32	28.5	5	7

UGR diagram

Corrected UGR values (at 4540 lm bare lamp luminous flux)

Riflect.:											
ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed crosswise					viewed endwise		
x	y										
2H	2H	5.1	5.8	5.4	6.0	6.2	5.1	5.8	5.4	6.0	6.2
	3H	5.1	5.6	5.4	5.9	6.2	5.1	5.6	5.4	5.9	6.1
	4H	5.0	5.6	5.4	5.8	6.1	5.0	5.5	5.3	5.8	6.1
	6H	5.0	5.5	5.3	5.8	6.1	4.9	5.4	5.3	5.7	6.0
	8H	5.0	5.4	5.3	5.7	6.1	4.9	5.3	5.3	5.7	6.0
	12H	4.9	5.4	5.3	5.7	6.1	4.9	5.3	5.2	5.6	6.0
4H	2H	5.0	5.5	5.3	5.8	6.1	5.0	5.6	5.4	5.8	6.1
	3H	5.0	5.4	5.3	5.7	6.1	5.0	5.4	5.3	5.7	6.1
	4H	4.9	5.3	5.3	5.7	6.0	4.9	5.3	5.3	5.7	6.0
	6H	4.9	5.2	5.3	5.6	6.0	4.8	5.2	5.3	5.6	6.0
	8H	4.8	5.1	5.3	5.5	6.0	4.8	5.1	5.2	5.5	6.0
	12H	4.8	5.1	5.3	5.5	6.0	4.8	5.0	5.2	5.5	5.9
8H	4H	4.8	5.1	5.2	5.5	6.0	4.8	5.1	5.3	5.5	6.0
	6H	4.8	5.0	5.2	5.5	5.9	4.8	5.0	5.2	5.5	5.9
	8H	4.7	5.0	5.2	5.4	5.9	4.7	5.0	5.2	5.4	5.9
	12H	4.7	4.9	5.2	5.4	5.9	4.7	4.9	5.2	5.4	5.9
12H	4H	4.8	5.0	5.2	5.5	5.9	4.8	5.1	5.3	5.5	6.0
	6H	4.7	4.9	5.2	5.4	5.9	4.7	5.0	5.2	5.4	5.9
	8H	4.7	4.9	5.2	5.4	5.9	4.7	4.9	5.2	5.4	5.9

Variations with the observer position at spacing:

S =	1.0H	5.9 / -6.1	5.9 / -6.1
	1.5H	8.6 / -7.2	8.6 / -7.2
	2.0H	10.6 / -7.8	10.6 / -7.8