Light Up

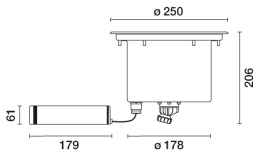
Design iGuzzini **iGuzzini**

Last information update: May 2025

Product configuration: E176+X209.04
E176: Recessed floor luminaire Earth D=250 mm - Neutral White - Adjustable Flood optic - DALI
X209.04: Plastic casing for installation on floors + end cap - Black

Product code
E176: Recessed floor luminaire Earth D=250 mm - Neutral White - Adjustable Flood optic - DALI

Technical description
Recessed luminaire applicable to the floor or ground, designed for fitting monochrome white LED sources, for illumination, adjustable optic, with DALI dimmable incorporated electronic control gear. The round frame has a diameter D=250 mm; the body and frame are made of AISI 304 stainless steel with sodium-calcium extra clear glass, thickness 15 mm. Stainless steel body coated with black paint. The luminaire is secured to the outer casing by means of two TORX-type screws that ensure proper anchoring. Inclusive of LED circuit, methacrylate lens and black plastic cover. The luminaire is supplied with an external orientation system (patent pending), without having to open the product, inclusive of double graduated scale: 0-30° with respect to horizontal plane and ±90° with respect to vertical axis. Black plastic (PPS) external box containing the power supply unit. The product is wired using an A2 stainless steel cable gland, with type A07RNF 4x1 mm² outgoing power cord having L=1200 mm. The cable is equipped with an anti-transpiration device (IP68) consisting of a silicone seal placed on the power cable and housed inside the power supply box. The outer casing for installation can be ordered separately from the plastic optical assembly. The assembly made up of the frame, optical assembly and outer casing guarantees 5000 kg resistance to static loads. Maximum glass surface temperature is lower than 40°C.



Installation
The product is secured to the outer casing by means of two TORX-type screws. The luminaire can be installed recessed, floor-standing, using an outer casing or on the ground.

Colour	**Weight (Kg)**
Steel (13)	4.42

Mounting
Floor recessed|ground recessed

Wiring
Product inclusive of 220-240 VAC DALI dimmable electronic control gear positioned in a separate box from the optical assembly and with outgoing cable.

Notes
IP68 degree of protection on the product and cable when using IP68 connectors * The product is not suitable for installation in swimming pools and fountains. Overvoltage protection: 4KV Common mode, 3,5KV differenzial 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. · CE · UKCA · S&E

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

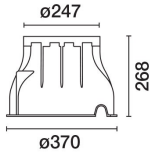
Technical description
Made of plastic (polypropylene). Inclusive of front cap with system for extracting the cables and double cable entry.

Installation
Floor-standing (concrete)

Colour	**Weight (Kg)**
Black (04)	1.9

Mounting
ground surface|Floor recessed|ground recessed

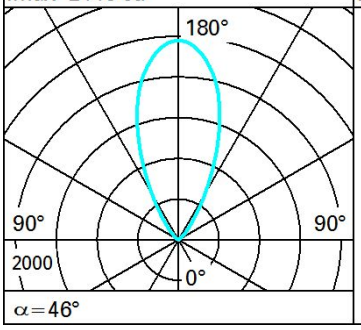
Complies with EN60598-1 and pertinent regulations



Technical data

lm system:	1561
W system:	15.8
lm source:	2170
W source:	13
Luminous efficiency (lm/W, real value):	98.8
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	1561
Light Output Ratio (L.O.R.) [%]:	72
Beam angle [°]:	46°
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 - L80 - 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:	5kV Common mode & 4kV Differential mode
Control:	DALI-2

Polar



Lux

h	d	Em	Emax
4	3.4	116	153
8	6.8	29	38
12	10.2	13	17
16	13.6	7	10

UGR diagram

Corrected UGR values (at 2170 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 x	y			viewed crosswise					viewed endwise		
2H	2H	13.3	13.9	13.6	14.2	14.4	13.3	13.9	13.6	14.2	14.4
	3H	13.2	13.7	13.5	14.0	14.3	13.2	13.8	13.5	14.0	14.3
	4H	13.1	13.6	13.4	13.9	14.2	13.1	13.7	13.5	13.9	14.2
	6H	13.0	13.5	13.4	13.8	14.2	13.0	13.5	13.4	13.8	14.2
	8H	13.0	13.5	13.4	13.8	14.1	13.0	13.5	13.4	13.8	14.1
	12H	13.0	13.4	13.3	13.7	14.1	13.0	13.4	13.3	13.8	14.1
4H	2H	13.1	13.7	13.5	13.9	14.2	13.1	13.6	13.4	13.9	14.2
	3H	13.0	13.4	13.4	13.8	14.1	13.0	13.4	13.4	13.8	14.1
	4H	12.9	13.3	13.3	13.6	14.0	12.9	13.3	13.3	13.6	14.0
	6H	12.8	13.1	13.2	13.5	14.0	12.8	13.1	13.2	13.5	14.0
	8H	12.8	13.1	13.2	13.5	13.9	12.8	13.1	13.2	13.5	13.9
	12H	12.7	13.0	13.2	13.4	13.9	12.7	13.0	13.2	13.4	13.9
8H	4H	12.8	13.1	13.2	13.5	13.9	12.8	13.1	13.2	13.5	13.9
	6H	12.7	12.9	13.1	13.4	13.8	12.7	12.9	13.1	13.4	13.8
	8H	12.6	12.8	13.1	13.3	13.8	12.6	12.8	13.1	13.3	13.8
	12H	12.6	12.8	13.1	13.2	13.8	12.6	12.8	13.1	13.2	13.8
12H	4H	12.7	13.0	13.2	13.4	13.9	12.7	13.0	13.2	13.4	13.9
	6H	12.6	12.8	13.1	13.3	13.8	12.6	12.8	13.1	13.3	13.8
	8H	12.6	12.8	13.1	13.2	13.8	12.6	12.8	13.1	13.2	13.8

Variations with the observer position at spacing:

S =	1.0H	4.0 / -10.0	4.0 / -10.0
	1.5H	6.7 / -14.1	6.7 / -14.1
	2.0H	8.7 / -18.6	8.7 / -18.6