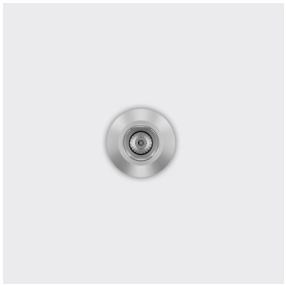
Light Up

Design iGuzzini **iGuzzini**

Last information update: March 2020



Floor recessed Orbit D=28mm - Medium optic

Product code
E067

Technical description
Recessed luminaire that can be installed in walls, ceilings and floors. It is designed to use white monochrome LED lamps, powered with a continuous current of Max 350mA per luminaire. The D = 28 mm round frame has hidden screws, and is made of AISI 304 stainless steel body and frame with an extra-clear, sodium - calcium tempered glass cover. The luminaire is fixed to the outer casing using special locking seals that hold it in place. The unit comes complete with LED circuit and a metallized plastic reflector. The product's wiring system features an A2 stainless steel cable gland with a 1800 mm long H05RNF type 2x1 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. Two types of outer casing are available for installation and both can be ordered separately from the plastic optic assembly. The glass unit, optical assembly and outer casing together guarantee a maximum static load resistance of 2000 kg. The maximum surface temperature of the glass is less than 40°. Luminaire protected against polarity inversion.

Installation
The product is fixed to the outer casing using special locking seals with toolfree installation. The unit can be recessed in floors, ceilings or walls using the outer casing for installation. It can also be installed in counter walls and false ceilings using special spring accessories to be ordered separately.

Dimension (mm)
Ø28x68

Colour
Steel (13)

Weight (Kg)
0.18

Mounting
wall recessed|Floor recessed|ceiling recessed|ground recessed

Wiring
Ballasts available: 350mA traditional and watertight IP67 versions. The product comes complete with a 1800 mm long H05RNF type 2x1 mm² output power cable and an electronic plate with a 350mA Max LED. Ballast to be ordered separately.

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.

Complies with EN60598-1 and pertinent regulations

IK09 | 2000 kg | IP68 — Immersione completa per periodi limitati, non idoneo in piscine e fontane.

The lighting fixtures were designed and tested to withstand a static load of up to 20000 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.

Product configuration: E067

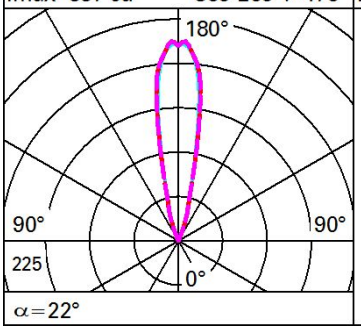
Technical data

lm system:	52	MacAdam Step:	2
W system:	1	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
lm source:	110	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
W source:	1	Ballast losses [W]:	0
Luminous efficiency (lm/W, real value):	51.7	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	52	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	47	Number of optical assemblies:	1
Beam angle [°]:	21° / 20°	Ambient operating temperature range:	from -20°C to +35°C. (*)
CRI:	80	LED Currente:	350
Colour temperature [K]:	2700		

* Preliminary data

Polar

Imax=337 cd C85-265 γ=178° Lux



h	d1	d2	Em	Emax
1	0.4	0.4	274	336
2	0.8	0.8	69	84
3	1.2	1.2	30	37
4	1.6	1.6	17	21

UGR diagram

Corrected UGR values (at 110 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					viewed		
x	y			crosswise					endwise		
2H	2H	3.4	5.5	3.8	5.9	6.2	2.9	5.0	3.3	5.3	5.7
	3H	4.4	5.9	4.7	6.2	6.5	3.2	4.7	3.5	5.0	5.3
	4H	4.9	6.1	5.2	6.4	6.7	3.3	4.5	3.6	4.8	5.1
	6H	5.5	6.3	5.8	6.6	6.9	3.4	4.2	3.7	4.5	4.9
	8H	5.7	6.5	6.1	6.9	7.2	3.4	4.2	3.7	4.5	4.9
	12H	5.9	6.7	6.3	7.1	7.5	3.3	4.2	3.7	4.6	4.9
4H	2H	3.7	4.9	4.1	5.2	5.6	4.4	5.6	4.7	5.9	6.2
	3H	4.9	5.8	5.3	6.1	6.5	4.9	5.8	5.3	6.1	6.5
	4H	5.5	6.5	6.0	6.9	7.3	5.1	6.0	5.5	6.4	6.8
	6H	5.9	7.7	6.4	8.1	8.6	5.0	6.7	5.5	7.2	7.6
	8H	6.2	8.1	6.7	8.6	9.1	5.0	6.9	5.5	7.4	7.9
	12H	6.4	8.4	6.9	8.9	9.4	5.0	6.9	5.5	7.4	7.9
8H	4H	5.4	7.3	5.9	7.8	8.3	5.8	7.7	6.3	8.2	8.7
	6H	6.3	8.0	6.8	8.5	9.0	6.2	8.0	6.7	8.5	9.0
	8H	6.8	8.3	7.3	8.8	9.3	6.5	8.0	7.0	8.5	9.0
	12H	7.3	8.4	7.9	8.9	9.4	6.8	7.8	7.3	8.3	8.9
12H	4H	5.4	7.3	5.9	7.8	8.3	6.1	8.0	6.6	8.5	9.0
	6H	6.4	7.9	6.9	8.4	8.9	6.6	8.1	7.2	8.6	9.1
	8H	7.1	8.1	7.7	8.6	9.2	7.1	8.1	7.6	8.6	9.1

Variations with the observer position at spacing:

S =	1.0H	0.4 / -0.4	0.4 / -0.4
	1.5H	1.1 / -0.6	1.0 / -0.7
	2.0H	1.8 / -0.8	1.6 / -0.7