Reflex

Design iGuzzini **iGuzzini**

Last information update: April 2025

Product configuration: Q960
Q960: Fixed circular recessed luminaire - Ø 96 mm - warm white - wide flood optic - UGR<19

Product code
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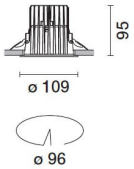
Technical description
Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone CRI 90 (2700K). General light emission, with controlled luminance UGR<19 1500 cd/m2 α>65° wide flood optic.

Installation
Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 20 mm.

Weight (Kg)
0.65

Mounting
ceiling recessed



Wiring
product complete with DALI components

Notes

TPb rated

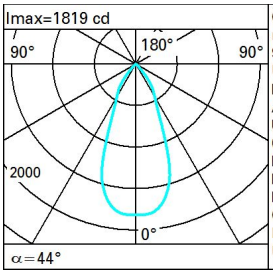
Complies with EN60598-1 and pertinent regulations

IP20 IP54

Technical data

lm system:	1147	CRI (minimum):	90
W system:	14.1	Colour temperature [K]:	2700
lm source:	1550	MacAdam Step:	2
W source:	12	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	81.3	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]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	74	Number of optical assemblies:	1
Beam angle [°]:	44°	Control:	DALI

Polar



CIE
nL 0.74
97-100-100-100-74
UGR 17.0-17.0
DIN
A.61
UTE
0.74A+0.00T
F"1=972
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<19 I L<1500 cd/mq @65°

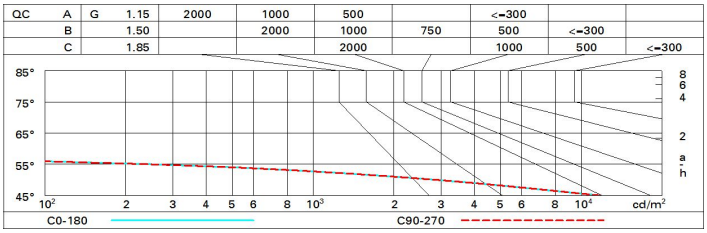
Lux

h	d	Em	Emax
2	1.6	368	454
4	3.2	92	114
6	4.8	41	50
8	6.5	23	28

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	62	60	58	62	59	59	57	76
1.0	69	66	63	62	65	63	63	60	81
1.5	73	70	68	67	69	68	67	65	87
2.0	75	73	72	71	72	71	70	68	92
2.5	77	75	74	73	74	73	72	70	95
3.0	77	77	76	75	75	75	74	72	97
4.0	78	78	77	77	76	76	75	73	99
5.0	79	78	78	78	77	77	76	74	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1550 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	17.5	18.2	17.8	18.5	18.7	17.5	18.2	17.8	18.5	18.7
	3H	17.4	18.0	17.7	18.3	18.6	17.4	18.0	17.7	18.3	18.6
	4H	17.3	17.9	17.7	18.2	18.5	17.3	17.9	17.7	18.2	18.5
	6H	17.3	17.8	17.6	18.1	18.4	17.3	17.8	17.6	18.1	18.4
	8H	17.2	17.7	17.6	18.0	18.4	17.2	17.7	17.6	18.0	18.4
	12H	17.2	17.6	17.6	18.0	18.3	17.2	17.6	17.6	18.0	18.3
4H	2H	17.3	17.9	17.7	18.2	18.5	17.3	17.9	17.7	18.2	18.5
	3H	17.2	17.6	17.6	18.0	18.3	17.2	17.6	17.6	18.0	18.3
	4H	17.1	17.5	17.5	17.9	18.3	17.1	17.5	17.5	17.9	18.3
	6H	17.0	17.4	17.4	17.8	18.2	17.0	17.4	17.4	17.8	18.2
	8H	17.0	17.3	17.4	17.7	18.1	17.0	17.3	17.4	17.7	18.1
	12H	16.9	17.2	17.4	17.6	18.1	16.9	17.2	17.4	17.6	18.1
8H	4H	17.0	17.3	17.4	17.7	18.1	17.0	17.3	17.4	17.7	18.1
	6H	16.9	17.1	17.3	17.6	18.1	16.9	17.1	17.3	17.6	18.1
	8H	16.8	17.0	17.3	17.5	18.0	16.8	17.0	17.3	17.5	18.0
	12H	16.8	17.0	17.3	17.4	18.0	16.8	17.0	17.3	17.4	18.0
12H	4H	16.9	17.2	17.4	17.6	18.1	16.9	17.2	17.4	17.6	18.1
	6H	16.8	17.0	17.3	17.5	18.0	16.8	17.0	17.3	17.5	18.0
	8H	16.8	17.0	17.3	17.4	18.0	16.8	17.0	17.3	17.4	18.0

Variations with the observer position at spacing:

S =			
	1.0H	4.4 / -31.1	4.4 / -31.1
	1.5H	7.2 / -38.8	7.2 / -38.8
	2.0H	9.2 / -39.6	9.2 / -39.6