Reflex

Design iGuzzini **iGuzzini**

Last information update: April 2024

Product configuration: N018
N018: Fixed circular recessed luminaire - Ø242 mm - neutral white - wide flood optic - UGR<19

Product code
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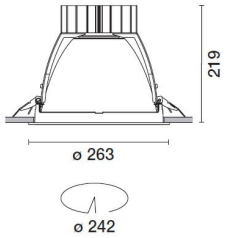
Technical description
Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Structure with die-cast aluminium perimeter frame, black, zinc-plated sheet steel brackets and extruded aluminium dissipater painted black. Passive dissipation system. Product complete with LED lamp in neutral white colour tone (3000K). 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 25 mm.



Colour	**Weight (Kg)**
White / Aluminium (39)	2.46

Mounting
ceiling recessed

Wiring
product complete with an electronic ballast

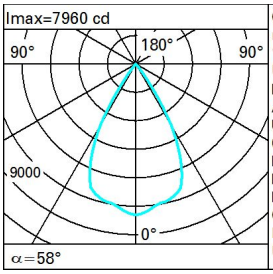
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	6232	CRI (minimum):	80
W system:	54.8	Colour temperature [K]:	4000
lm source:	8100	MacAdam Step:	2
W source:	49	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	113.7	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]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	77	Number of optical assemblies:	1
Beam angle [°]:	58°		

Polar



CIE
nL 0.77
100-100-100-100-77
UGR 14.2-14.2
DIN
A.61
UTE
0.77A+0.00T
F"1=997
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<16 I L<1500 cd/mq @65°

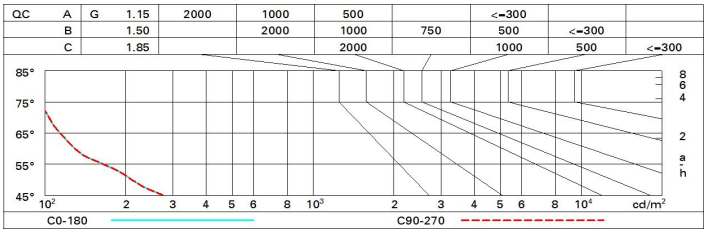
Lux

h	d	Em	Emax
2	2.2	1538	1990
4	4.4	385	497
6	6.7	171	221
8	8.9	96	124

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	70	66	63	61	65	63	63	60	78
1.0	73	69	67	65	69	66	66	64	83
1.5	76	74	72	70	73	71	70	68	89
2.0	78	77	75	74	76	74	74	71	93
2.5	80	79	78	77	77	77	76	74	96
3.0	81	80	79	78	79	78	77	75	98
4.0	82	81	81	80	80	79	78	76	99
5.0	82	82	81	81	81	80	79	77	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 8100 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	14.8	15.4	15.1	15.7	15.9	14.8	15.4	15.1	15.7	15.9
	3H	14.7	15.2	15.0	15.5	15.8	14.7	15.2	15.0	15.5	15.8
	4H	14.6	15.1	14.9	15.4	15.7	14.6	15.1	14.9	15.4	15.7
	6H	14.5	15.0	14.9	15.3	15.6	14.5	15.0	14.9	15.3	15.6
	8H	14.5	14.9	14.9	15.3	15.6	14.5	14.9	14.9	15.3	15.6
	12H	14.5	14.9	14.8	15.2	15.6	14.5	14.9	14.8	15.2	15.6
4H	2H	14.6	15.1	14.9	15.4	15.7	14.6	15.1	14.9	15.4	15.7
	3H	14.5	14.9	14.8	15.2	15.6	14.5	14.9	14.8	15.2	15.6
	4H	14.4	14.7	14.8	15.1	15.5	14.4	14.7	14.8	15.1	15.5
	6H	14.3	14.6	14.7	15.0	15.4	14.3	14.6	14.7	15.0	15.4
	8H	14.2	14.5	14.7	14.9	15.4	14.2	14.5	14.7	14.9	15.4
	12H	14.2	14.5	14.6	14.9	15.3	14.2	14.5	14.6	14.9	15.3
8H	4H	14.2	14.5	14.7	14.9	15.4	14.2	14.5	14.7	14.9	15.4
	6H	14.1	14.4	14.6	14.8	15.3	14.1	14.4	14.6	14.8	15.3
	8H	14.1	14.3	14.6	14.8	15.3	14.1	14.3	14.6	14.8	15.3
	12H	14.0	14.2	14.5	14.7	15.2	14.0	14.2	14.5	14.7	15.2
12H	4H	14.2	14.5	14.6	14.9	15.3	14.2	14.5	14.6	14.9	15.3
	6H	14.1	14.3	14.6	14.8	15.3	14.1	14.3	14.6	14.8	15.3
	8H	14.0	14.2	14.5	14.7	15.2	14.0	14.2	14.5	14.7	15.2

Variations with the observer position at spacing:

S =			
	1.0H	6.5 / -24.8	6.5 / -24.8
	1.5H	9.4 / -25.4	9.4 / -25.4
	2.0H	11.4 / -25.8	11.4 / -25.8