Reflex

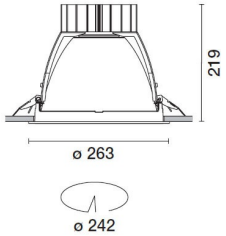
Design iGuzzini **iGuzzini**

Last information update: June 2018

Fixed circular recessed luminaire - Ø242 mm - neutral white - wide flood optic - UGR<19

Product code
N022

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.

Dimension (mm)
Ø263x219

Colour
White/Aluminium (39)

Weight (Kg)
2.46

Mounting
ceiling recessed

Wiring
product complete with DALI components

Complies with EN60598-1 and pertinent regulations

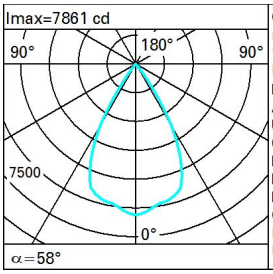
IP20 IP23 On the visible part of the product once installed

Product configuration: N022

Product characteristics
Total lighting output [Lm]: 6155
Total power [W]: 54.8
Luminous efficacy [Lm/W]: 112.3
Life Time: 50,000h - L80 - B10 (Ta 25°C)
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1
Light Output Ratio (L.O.R.) [%]: 77
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 49
Nominal luminous [Lm]: 8000
Lamp maximum intensity [cd]: /
Beam angle [°]: 58°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 5.8
Colour temperature [K]: 4000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 2

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°

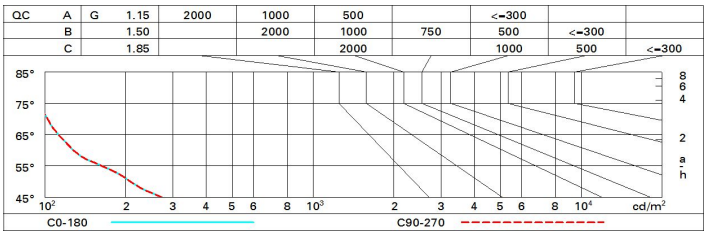
Lux

h	d	Em	Emax
2	2.2	1519	1965
4	4.4	380	491
6	6.7	169	218
8	8.9	95	123

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 8000 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	14.8	15.4	15.1	15.6	15.8	14.8	15.4	15.1	15.6	15.8
	3H	14.6	15.2	15.0	15.4	15.7	14.6	15.2	15.0	15.4	15.7
	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	14.8	15.3	15.6	14.5	14.9	14.8	15.3	15.6
	8H	14.5	14.9	14.8	15.2	15.6	14.5	14.9	14.8	15.2	15.6
	12H	14.4	14.8	14.8	15.2	15.5	14.4	14.8	14.8	15.2	15.5
4H	2H	14.6	15.1	14.9	15.4	15.7	14.6	15.1	14.9	15.4	15.7
	3H	14.4	14.8	14.8	15.2	15.5	14.4	14.8	14.8	15.2	15.5
	4H	14.3	14.7	14.7	15.1	15.4	14.3	14.7	14.7	15.1	15.4
	6H	14.2	14.6	14.7	15.0	15.4	14.2	14.6	14.7	15.0	15.4
	8H	14.2	14.5	14.6	14.9	15.3	14.2	14.5	14.6	14.9	15.3
	12H	14.1	14.4	14.6	14.8	15.3	14.1	14.4	14.6	14.8	15.3
8H	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	14.3	14.5	14.7	15.2	14.0	14.3	14.5	14.7	15.2
	12H	14.0	14.2	14.5	14.7	15.2	14.0	14.2	14.5	14.7	15.2
12H	4H	14.1	14.4	14.6	14.8	15.3	14.1	14.4	14.6	14.8	15.3
	6H	14.0	14.3	14.5	14.7	15.2	14.0	14.3	14.5	14.7	15.2
	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