Reflex

Design iGuzzini **iGuzzini**

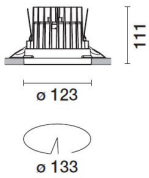
Last information update: May 2018

Fixed circular recessed luminaire - Ø125 mm - neutral white - wide flood optic - UGR<19

Product code
N215

Technical description
Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version without rim for mounting flush with ceiling. 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 neutral white colour tone (4,000K). General light emission, with controlled luminance UGR<19 1500 cd/m2 α>65° wide flood optic.

Installation
Installation flush with the ceiling is for false ceilings 12.5 mm thick



Dimension (mm)
Ø123x111

Colour
Aluminium (12)

Weight (Kg)
1.08

Mounting
ceiling recessed

Wiring
product complete with an electronic ballast

Complies with EN60598-1 and pertinent regulations

IP20 IP43 On the visible part of the product once installed

Product configuration: N215

Product characteristics

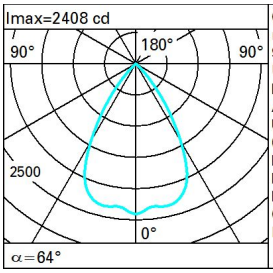
Total lighting output [Lm]: 2429	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 23.7	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 102.5	Voltage [V]: -
Life Time: 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 81	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.7
Nominal power [W]: 21	Colour temperature [K]: 4000
Nominal luminous [Lm]: 3000	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 64°	MacAdam Step: 2

Polar

Imax=2408 cd



CIE
nL 0.81
96-100-100-100-81
UGR 19.4-19.4
DIN
A.61
UTE
0.81A+0.00T
F"1=961
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°

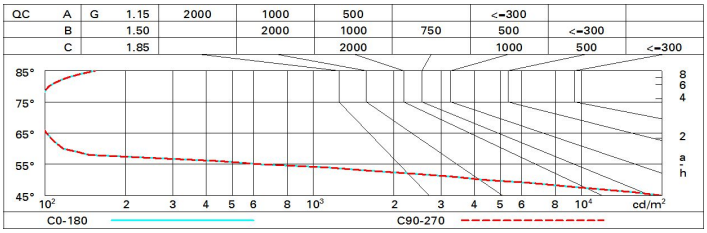
Lux

h	d	Em	Emax
2	2.5	460	602
4	5	115	151
6	7.5	51	67
8	10	29	38

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	68	65	63	67	64	64	61	76
1.0	75	72	69	67	71	68	68	65	81
1.5	79	77	74	73	76	74	73	70	87
2.0	82	80	78	77	79	77	77	74	92
2.5	84	82	81	80	81	80	79	77	95
3.0	85	84	83	82	82	81	80	78	97
4.0	86	85	84	84	83	83	82	80	98
5.0	86	86	85	85	84	84	82	80	99

Luminance curve limit



UGR diagram

Corrected UGR values (at 3000 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	20.0	20.6	20.3	20.8	21.1	20.0	20.6	20.3	20.8	21.1
	3H	19.9	20.4	20.2	20.7	20.9	19.9	20.4	20.2	20.7	20.9
	4H	19.8	20.3	20.1	20.6	20.9	19.8	20.3	20.1	20.6	20.9
	6H	19.7	20.2	20.1	20.5	20.8	19.7	20.2	20.1	20.5	20.8
	8H	19.7	20.1	20.0	20.4	20.8	19.7	20.1	20.0	20.4	20.8
	12H	19.6	20.1	20.0	20.4	20.8	19.6	20.1	20.0	20.4	20.8
4H	2H	19.8	20.3	20.1	20.6	20.9	19.8	20.3	20.1	20.6	20.9
	3H	19.6	20.1	20.0	20.4	20.8	19.6	20.1	20.0	20.4	20.8
	4H	19.6	19.9	20.0	20.3	20.7	19.6	19.9	20.0	20.3	20.7
	6H	19.5	19.8	19.9	20.2	20.6	19.5	19.8	19.9	20.2	20.6
	8H	19.4	19.7	19.9	20.1	20.6	19.4	19.7	19.9	20.1	20.6
	12H	19.4	19.6	19.8	20.1	20.5	19.4	19.6	19.8	20.1	20.5
8H	4H	19.4	19.7	19.9	20.1	20.6	19.4	19.7	19.9	20.1	20.6
	6H	19.3	19.6	19.8	20.0	20.5	19.3	19.6	19.8	20.0	20.5
	8H	19.3	19.5	19.8	19.9	20.4	19.3	19.5	19.8	19.9	20.4
	12H	19.2	19.4	19.7	19.9	20.4	19.2	19.4	19.7	19.9	20.4
12H	4H	19.4	19.6	19.8	20.1	20.5	19.4	19.6	19.8	20.1	20.5
	6H	19.3	19.5	19.8	19.9	20.4	19.3	19.5	19.8	19.9	20.4
	8H	19.2	19.4	19.7	19.9	20.4	19.2	19.4	19.7	19.9	20.4

Variations with the observer position at spacing:

S =			
	1.0H	4.7 / -26.2	4.7 / -26.2
	1.5H	7.5 / -31.2	7.5 / -31.2
	2.0H	9.5 / -31.4	9.5 / -31.4