

Reflex

Design iGuzzini

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

Product code

N230

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 neutral white colour tone (4,000K). 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.

Dimension (mm)

Ø144x107

Colour

White/Aluminium (39)

Weight (Kg)

1.02

Mounting

ceiling recessed

Wiring

product complete with an electronic ballast

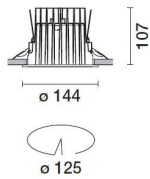
Complies with EN60598-1 and pertinent regulations



IP20

IP54

On the visible part of the product once installed



Product configuration: N230

Product characteristics

Total lighting output [Lm]: 2429
Total power [W]: 23.7
Luminous efficacy [Lm/W]: 102.5
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.) [%]: 81
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 21
Nominal luminous [Lm]: 3000
Lamp maximum intensity [cd]: /
Beam angle [°]: 64°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.7
Colour temperature [K]: 4000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 2

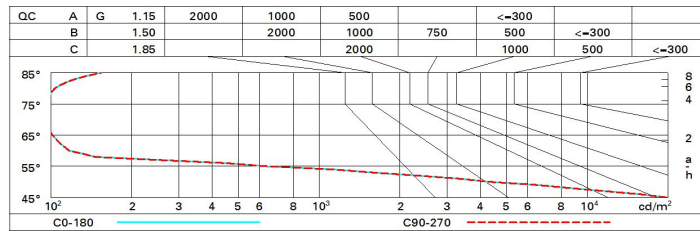
Polar

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/m ² at 65°	Lux			
		h	d	Em	Emax
90°		2	2.5	460	602
180°		4	5	115	151
2500		6	7.5	51	67
0°		8	10	29	38
α=64°					

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)											
Reflect.:		viewed crosswise					viewed endwise				
ceillcav	walls	work pl.	Room dim	x	y						
0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30	
0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30	
0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
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				