

Reflex

Design iGuzzini

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Fixed circular recessed luminaire - Ø153 mm - warm white - wide flood optic - UGR<19

Product code

N015

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 (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)

Ø162x122

Colour

White/Aluminium (39)

Weight (Kg)

1.22

Mounting

ceiling recessed

Wiring

product complete with DALI components

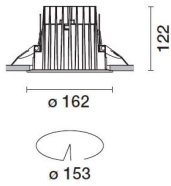
Complies with EN60598-1 and pertinent regulations



IP20

IP54

On the visible part of the product once installed



Product configuration: N015

Product characteristics

Total lighting output [Lm]: 2487.9
Total power [W]: 30.9
Luminous efficacy [Lm/W]: 80.5
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.) [%]: 83
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 28
Nominal luminous [Lm]: 3000
Lamp maximum intensity [cd]: /
Beam angle [°]: 52°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.9
Colour temperature [K]: 3000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 2

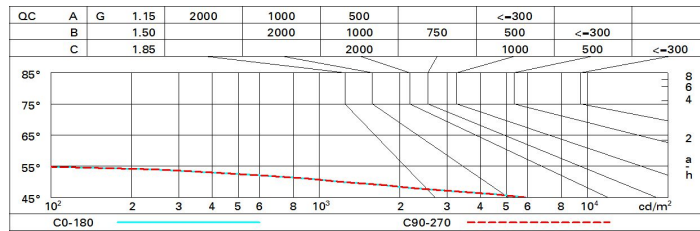
Polar

Imax=3494 cd	CIE nL 0.83 98-100-100-100-83 UGR 16.2-16.2 DIN A.61 UTE 0.83A+0.00T F*1=982 F*1+F*2=1000 F*1+F*2+F*3=1000 CIBSE LG3 L<200 cd/m ² at 65° BZ1	Lux			
		h	d	Em	E _{max}
90°		2	2	663	874
3000		4	3.9	166	218
		6	5.9	74	97
α=52°		8	7.8	41	55

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	74	70	68	65	70	67	67	64	77
1.0	78	74	72	70	73	71	71	68	82
1.5	82	79	77	75	78	76	75	73	88
2.0	84	82	81	79	81	80	79	77	92
2.5	86	84	83	82	83	82	81	79	95
3.0	87	86	85	84	85	84	83	81	97
4.0	88	87	87	86	86	85	84	82	99
5.0	89	88	87	87	87	86	85	83	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3000 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceill/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										
2H	2H	16.8	17.4	17.1	17.6	17.9	16.8	17.4	17.1	17.6	17.9
	3H	16.7	17.2	17.0	17.5	17.8	16.7	17.2	17.0	17.5	17.8
	4H	16.6	17.1	16.9	17.4	17.7	16.6	17.1	16.9	17.4	17.7
	6H	16.5	17.0	16.9	17.3	17.6	16.5	17.0	16.9	17.3	17.6
	8H	16.5	16.9	16.8	17.2	17.6	16.5	16.9	16.8	17.2	17.6
	12H	16.4	16.9	16.8	17.2	17.6	16.4	16.9	16.8	17.2	17.6
4H	2H	16.6	17.1	16.9	17.4	17.7	16.6	17.1	16.9	17.4	17.7
	3H	16.4	16.9	16.8	17.2	17.6	16.4	16.9	16.8	17.2	17.6
	4H	16.3	16.7	16.7	17.1	17.5	16.3	16.7	16.7	17.1	17.5
	6H	16.2	16.6	16.7	17.0	17.4	16.2	16.6	16.7	17.0	17.4
	8H	16.2	16.5	16.6	16.9	17.4	16.2	16.5	16.6	16.9	17.4
	12H	16.2	16.4	16.6	16.9	17.3	16.2	16.4	16.6	16.9	17.3
8H	4H	16.2	16.5	16.6	16.9	17.4	16.2	16.5	16.6	16.9	17.4
	6H	16.1	16.4	16.6	16.8	17.3	16.1	16.4	16.6	16.8	17.3
	8H	16.1	16.3	16.5	16.7	17.2	16.1	16.3	16.5	16.7	17.2
	12H	16.0	16.2	16.5	16.7	17.2	16.0	16.2	16.5	16.7	17.2
12H	4H	16.2	16.4	16.6	16.9	17.3	16.2	16.4	16.6	16.9	17.3
	6H	16.1	16.3	16.5	16.7	17.2	16.1	16.3	16.5	16.7	17.2
	8H	16.0	16.2	16.5	16.7	17.2	16.0	16.2	16.5	16.7	17.2
Variations with the observer position at spacing:											
S =	1.0H	5.1 / -29.8				5.1 / -29.8					
	1.5H	7.9 / -30.2				7.9 / -30.2					
	2.0H	9.9 / -30.4				9.9 / -30.4					