Reflex

Design iGuzzini **iGuzzini**

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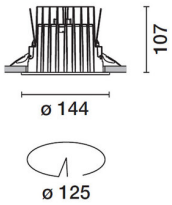
Fixed circular recessed luminaire - Ø125 mm - natural white - wide flood optic - UGR<10 - DALI

Product code
P525

Technical description
Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Optic with super comfort reflector vacuum-metallised with aluminium vapours and 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<10 1500 cd/m2 α>65° wide flood optic.

Installation
Recessed using torsion springs which allow easy installation in false ceilings with thicknesses ranging from 1 mm to 20 mm.



Dimension (mm)
Ø144x107

Colour
White/Aluminium (39)

Weight (Kg)
1.15

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: P525

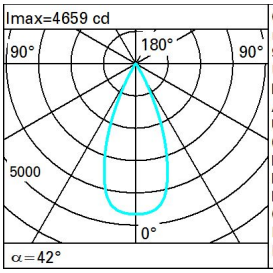
Product characteristics

Total lighting output [Lm]: 2247	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 23.9	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 94	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.) [%]: 75	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.9
Nominal power [W]: 21	Colour temperature [K]: 4000
Nominal luminous [Lm]: 3000	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 42°	MacAdam Step: 2

Polar



CIE
nL 0.75
98-100-100-100-75
UGR <10-<10
DIN
A.61
UTE
0.75A+0.00T
F"1=980
F"1+F"2=998
F"1+F"2+F"3=1000
CIBSE
LG3 L<1000 cd/m² at 65°
BZ1

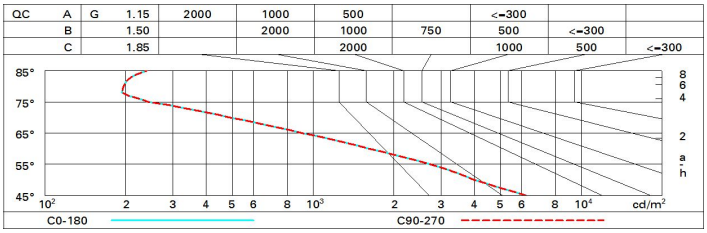
Lux

h	d	Em	Emax
2	1.5	949	1165
4	3.1	237	291
6	4.6	105	129
8	6.1	59	73

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	67	63	61	59	63	61	60	58	77
1.0	70	67	65	63	66	64	64	61	82
1.5	74	71	69	68	70	69	68	66	88
2.0	76	74	73	72	73	72	71	69	92
2.5	78	76	75	74	75	74	73	71	95
3.0	78	78	77	76	76	76	75	73	97
4.0	79	79	78	78	77	77	76	74	99
5.0	80	79	79	79	78	78	77	75	100

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	8.5	9.1	8.8	9.3	9.6	8.5	9.1	8.8	9.3	9.6
	3H	8.4	9.0	8.7	9.2	9.5	8.5	9.0	8.8	9.3	9.5
	4H	8.4	8.9	8.7	9.1	9.4	8.4	8.9	8.7	9.2	9.5
	6H	8.3	8.7	8.6	9.0	9.4	8.3	8.8	8.7	9.1	9.4
	8H	8.2	8.7	8.6	9.0	9.3	8.3	8.7	8.6	9.0	9.4
	12H	8.2	8.6	8.6	9.0	9.3	8.2	8.7	8.6	9.0	9.4
4H	2H	8.4	8.9	8.7	9.2	9.5	8.4	8.9	8.7	9.1	9.4
	3H	8.3	8.7	8.7	9.1	9.4	8.3	8.7	8.7	9.1	9.4
	4H	8.2	8.6	8.6	9.0	9.3	8.2	8.6	8.6	9.0	9.3
	6H	8.1	8.5	8.6	8.9	9.3	8.1	8.5	8.6	8.9	9.3
	8H	8.1	8.4	8.5	8.8	9.2	8.1	8.4	8.5	8.8	9.2
	12H	8.1	8.3	8.5	8.7	9.2	8.0	8.3	8.5	8.7	9.2
8H	4H	8.1	8.4	8.5	8.8	9.2	8.1	8.4	8.5	8.8	9.2
	6H	8.0	8.3	8.5	8.7	9.2	8.0	8.3	8.5	8.7	9.2
	8H	8.0	8.2	8.4	8.6	9.1	8.0	8.2	8.4	8.6	9.1
	12H	7.9	8.1	8.4	8.6	9.1	7.9	8.1	8.4	8.6	9.1
12H	4H	8.0	8.3	8.5	8.7	9.2	8.1	8.3	8.5	8.7	9.2
	6H	8.0	8.2	8.4	8.6	9.1	8.0	8.2	8.4	8.6	9.1
	8H	7.9	8.1	8.4	8.6	9.1	7.9	8.1	8.4	8.6	9.1

Variations with the observer position at spacing:

S =			
	1.0H	3.9 / -4.4	3.9 / -4.4
	1.5H	6.4 / -7.9	6.4 / -7.9
	2.0H	8.4 / -10.8	8.4 / -10.8