Reflex

Design iGuzzini **iGuzzini**

Last information update: May 2024

Product configuration: P511
P511: Fixed circular recessed luminaire - Ø 125 mm - neutral white - white optic

Product code
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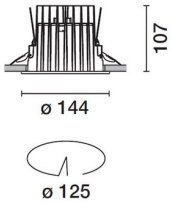
Technical description
Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector painted white with a layer of anti-scratch protection. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in neutral white colour tone (4,000K). General lighting beam.

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

Colour
White (01)

Weight (Kg)
1.02



Mounting
ceiling recessed

Wiring
product complete with an electronic ballast

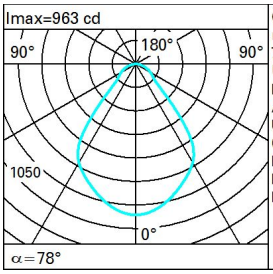
Complies with EN60598-1 and pertinent regulations

IP20 IP54 On the visible part of the product once installed

Technical data

lm system:	1537	CRI (minimum):	80
W system:	14.9	Colour temperature [K]:	4000
lm source:	2050	MacAdam Step:	2
W source:	13	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	103.1	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	75	Number of optical assemblies:	1
Beam angle [°]:	78°		

Polar



CIE
nL 0.75
73-90-98-100-75
UGR 25.5-25.1
DIN
A.51
UTE
0.75B+0.00T
F"1=728
F"1+F"2=904
F"1+F"2+F"3=981

Lux

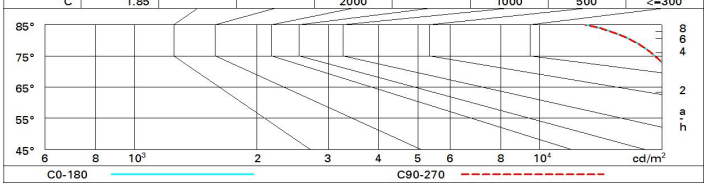
h	d	Em	Emax
1	1.6	667	963
2	3.2	167	241
3	4.9	74	107
4	6.5	42	60

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	58	52	48	45	52	48	47	44	58
1.0	62	57	53	50	56	52	52	48	64
1.5	68	64	61	58	63	60	59	55	74
2.0	72	68	66	63	67	65	64	60	81
2.5	74	71	69	67	70	68	67	64	85
3.0	75	73	71	69	71	70	69	66	88
4.0	77	75	74	72	73	72	71	68	91
5.0	78	76	75	74	75	74	72	70	93

Luminance curve limit

QC		G								
	A		1.15	2000	1000	500		<=300		
	B		1.50		2000	1000	750	500	<=300	
	C		1.85			2000		1000	500	<=300



UGR diagram

Corrected UGR values (at 2050 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	22.8	23.7	23.1	23.9	24.2	22.8	23.7	23.1	23.9	24.2
	3H	23.8	24.6	24.1	24.9	25.2	23.0	23.9	23.4	24.2	24.4
	4H	24.2	25.0	24.5	25.3	25.6	23.1	23.9	23.5	24.2	24.5
	6H	24.5	25.2	24.9	25.5	25.9	23.2	23.9	23.5	24.2	24.5
	8H	24.6	25.3	25.0	25.6	26.0	23.1	23.8	23.5	24.2	24.5
	12H	24.6	25.3	25.0	25.7	26.0	23.1	23.8	23.5	24.1	24.5
4H	2H	23.1	23.9	23.5	24.2	24.5	24.2	25.0	24.5	25.3	25.6
	3H	24.3	25.0	24.7	25.4	25.7	24.7	25.3	25.1	25.7	26.0
	4H	24.9	25.5	25.3	25.9	26.3	24.9	25.5	25.3	25.9	26.3
	6H	25.3	25.8	25.8	26.3	26.7	25.1	25.6	25.5	26.0	26.4
	8H	25.5	25.9	25.9	26.4	26.8	25.1	25.6	25.5	26.0	26.4
	12H	25.5	26.0	26.0	26.4	26.9	25.1	25.5	25.5	26.0	26.4
8H	4H	25.1	25.6	25.5	26.0	26.4	25.5	25.9	25.9	26.4	26.8
	6H	25.7	26.0	26.1	26.5	27.0	25.7	26.1	26.2	26.6	27.1
	8H	25.8	26.2	26.3	26.7	27.2	25.8	26.2	26.3	26.7	27.2
	12H	26.0	26.3	26.5	26.8	27.3	25.9	26.2	26.4	26.7	27.2
12H	4H	25.1	25.5	25.5	26.0	26.4	25.5	26.0	26.0	26.4	26.9
	6H	25.7	26.0	26.2	26.5	27.0	25.8	26.2	26.3	26.7	27.2
	8H	25.9	26.2	26.4	26.7	27.2	26.0	26.3	26.5	26.8	27.3

Variations with the observer position at spacing:

S =			
	1.0H	0.7 / -0.5	0.7 / -0.5
	1.5H	1.3 / -0.8	1.3 / -0.8
	2.0H	2.3 / -1.0	2.3 / -1.0