Reflex

Design iGuzzini **iGuzzini**

Last information update: April 2024

Product configuration: Q964
Q964: Fixed circular recessed luminaire - Ø 125 mm - warm white - white optic - DALI

Product code
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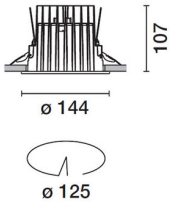
Technical description
Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector painted white with a layer of anti-scratch protection. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone CRI90 (2700K). General lighting beam.

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

Weight (Kg)
1.02



Mounting
ceiling recessed

Wiring
product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP20 IP54

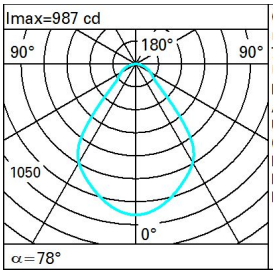
Technical data

lm system:	1574
W system:	19.1
lm source:	2100
W source:	17
Luminous efficiency (lm/W, real value):	82.4
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	75
Beam angle [°]:	78°
CRI (minimum):	90
Colour temperature [K]:	2700
MacAdam Step:	2

Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Power factor:	See installation instructions
Inrush current:	16 A / 220 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 15 luminaires B16A: 24 luminaires C10A: 24 luminaires C16A: 40 luminaires
Overvoltage protection:	2kV Common mode & 1kV Differential mode
Dimming mode:	PWM
Control:	DALI

Polar

Imax=987 cd



α=78°

CIE
nL 0.75
73-90-98-100-75
UGR 25.6-25.2
DIN
A.51
UTE
0.75B+0.00T
F"1=728
F"1+F"2=904
F"1+F"2+F"3=981

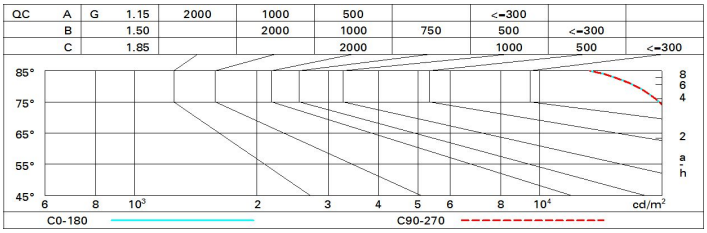
Lux

h	d	Em	Emax
1	1.6	684	987
2	3.2	171	247
3	4.9	76	110
4	6.5	43	62

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



UGR diagram

Corrected UGR values (at 2100 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	23.8	23.1	24.0	24.3	22.8	23.8	23.1	24.0	24.3
	3H	23.8	24.7	24.2	25.0	25.3	23.1	24.0	23.4	24.2	24.5
	4H	24.3	25.0	24.6	25.3	25.7	23.2	24.0	23.6	24.3	24.6
	6H	24.6	25.3	24.9	25.6	26.0	23.2	24.0	23.6	24.3	24.6
	8H	24.7	25.4	25.1	25.7	26.1	23.2	23.9	23.6	24.3	24.6
	12H	24.7	25.4	25.1	25.7	26.1	23.2	23.9	23.6	24.2	24.6
4H	2H	23.2	24.0	23.6	24.3	24.6	24.3	25.0	24.6	25.3	25.7
	3H	24.4	25.1	24.8	25.4	25.8	24.7	25.4	25.1	25.8	26.1
	4H	25.0	25.6	25.4	25.9	26.3	25.0	25.6	25.4	25.9	26.3
	6H	25.4	25.9	25.8	26.3	26.8	25.1	25.7	25.6	26.1	26.5
	8H	25.6	26.0	26.0	26.4	26.9	25.2	25.7	25.6	26.1	26.5
	12H	25.6	26.1	26.1	26.5	27.0	25.2	25.6	25.6	26.0	26.5
8H	4H	25.2	25.7	25.6	26.1	26.5	25.6	26.0	26.0	26.4	26.9
	6H	25.7	26.1	26.2	26.6	27.1	25.8	26.2	26.3	26.7	27.2
	8H	25.9	26.3	26.4	26.7	27.2	25.9	26.3	26.4	26.7	27.2
	12H	26.1	26.4	26.6	26.8	27.4	26.0	26.3	26.5	26.8	27.3
12H	4H	25.2	25.6	25.6	26.0	26.5	25.6	26.1	26.1	26.5	27.0
	6H	25.8	26.1	26.3	26.6	27.1	25.9	26.3	26.4	26.7	27.2
	8H	26.0	26.3	26.5	26.8	27.3	26.1	26.4	26.6	26.8	27.4

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