Reflex

Design iGuzzini **iGuzzini**

Last information update: October 2023

Product configuration: N085
N085: adjustable luminaire - Ø 125 mm - neutral white - medium optic - frame

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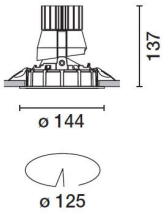
Technical description
Round adjustable luminaire designed to use an LED lamp with C.O.B.technology in a neutral white colour tone 4,000K (CRI 80). Version with rim for surface-mounting. Painted, die-cast aluminium body. Lower reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Anodised aluminium upper reflector. Black, zinc-plated sheet steel bracket. The luminaire can be rotated 30° relative to the horizontal plane and 358° about the vertical axis. The luminaire is fitted with mechanical locks for light beam aiming. Painted extruded aluminium dissipater.

Installation
Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 25 mm.

Colour
White / Aluminium (39)

Weight (Kg)
0.8



Mounting
ceiling recessed

Wiring
Product complete with DALI components

Complies with EN60598-1 and pertinent regulations

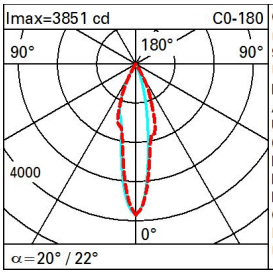
IP20 IP23

Technical data

lm system:	986
W system:	15.3
lm source:	2150
W source:	13
Luminous efficiency (lm/W, real value):	64.5
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	46
Beam angle [°]:	20° / 22°
CRI (minimum):	80
Colour temperature [K]:	4000
MacAdam Step:	2

Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Ballast losses [W]:	2.3
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
Control:	DALI-2

Polar



CIE
nL 0.46
98-100-100-100-46
UGR <10-<10
DIN
A.61
UTE
0.46A+0.00T
F"1=980
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 I L<1500 cd/mq @65°

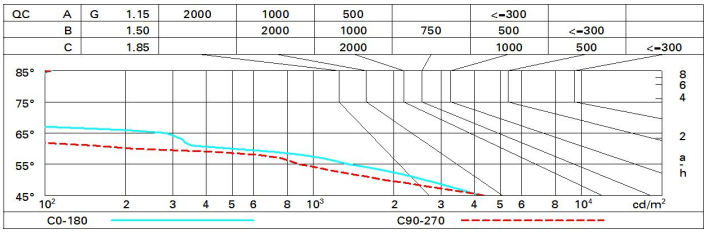
Lux

h	d1	d2	Em	Emax
2	0.7	0.8	731	963
4	1.4	1.6	183	241
6	2.1	2.3	81	107
8	2.8	3.1	46	60

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	41	39	37	36	38	37	37	35	77
1.0	43	41	40	38	40	39	39	37	82
1.5	45	44	43	42	43	42	42	40	88
2.0	47	46	45	44	45	44	44	42	92
2.5	47	47	46	45	46	45	45	44	95
3.0	48	48	47	47	47	46	46	45	97
4.0	49	48	48	48	47	47	46	45	99
5.0	49	49	48	48	48	48	47	46	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 2150 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	2.8	3.4	3.1	3.6	3.9	7.1	7.6	7.3	7.9	8.1
	3H	2.7	3.3	3.1	3.5	3.8	7.0	7.5	7.3	7.7	8.0
	4H	2.7	3.1	3.0	3.4	3.7	6.9	7.4	7.2	7.6	7.9
	6H	2.6	3.0	2.9	3.3	3.7	6.8	7.2	7.2	7.6	7.9
	8H	2.6	3.0	2.9	3.3	3.6	6.8	7.2	7.1	7.5	7.8
	12H	2.5	2.9	2.9	3.3	3.6	6.7	7.1	7.1	7.5	7.8
4H	2H	2.7	3.2	3.0	3.4	3.7	6.9	7.3	7.2	7.6	7.9
	3H	2.6	3.0	3.0	3.3	3.7	6.7	7.1	7.1	7.5	7.8
	4H	2.5	2.9	2.9	3.2	3.6	6.6	7.0	7.0	7.4	7.7
	6H	2.4	2.7	2.8	3.1	3.5	6.6	6.9	7.0	7.3	7.7
	8H	2.4	2.7	2.8	3.1	3.5	6.5	6.8	6.9	7.2	7.6
	12H	2.3	2.6	2.8	3.0	3.5	6.5	6.7	6.9	7.1	7.6
8H	4H	2.4	2.7	2.8	3.1	3.5	6.5	6.8	6.9	7.2	7.6
	6H	2.3	2.5	2.7	3.0	3.4	6.4	6.6	6.9	7.1	7.6
	8H	2.2	2.4	2.7	2.9	3.4	6.4	6.6	6.8	7.0	7.5
	12H	2.2	2.4	2.7	2.8	3.4	6.3	6.5	6.8	7.0	7.5
12H	4H	2.3	2.6	2.8	3.0	3.5	6.5	6.7	6.9	7.1	7.6
	6H	2.2	2.4	2.7	2.9	3.4	6.4	6.6	6.8	7.0	7.5
	8H	2.2	2.4	2.7	2.8	3.4	6.3	6.5	6.8	7.0	7.5

Variations with the observer position at spacing:

S =			
	1.0H	3.0 / -7.9	3.9 / -9.4
	1.5H	4.7 / -8.8	6.6 / -18.6
	2.0H	6.6 / -13.5	8.6 / -19.7