Reflex

Design iGuzzini **iGuzzini**

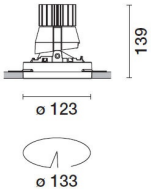
Last information update: May 2018

adjustable luminaire - Ø 125 mm - warm white - medium optic - minimal

Product code
Q991

Technical description
Round adjustable luminaire designed to use an LED lamp with C.O.B.technology in a warm white colour tone 2700K CRI 90. Version without rim for mounting flush with ceiling. 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
Installation flush with the ceiling is for false ceilings 12.5 mm thick



Dimension (mm)
Ø123x139

Colour
Aluminium (12)

Weight (Kg)
0.8

Mounting
ceiling recessed

Wiring
Product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP20

Product configuration: Q991

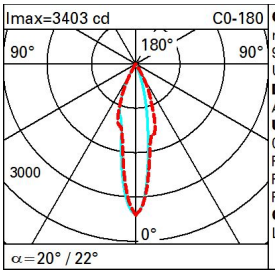
Product characteristics

Total lighting output [Lm]: 872	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 18.9	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 46.1	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.) [%]: 46	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 1.9
Nominal power [W]: 17	Colour temperature [K]: 2700
Nominal luminous [Lm]: 1900	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 20° / 22°	MacAdam Step: 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<500 cd/m² at 65°

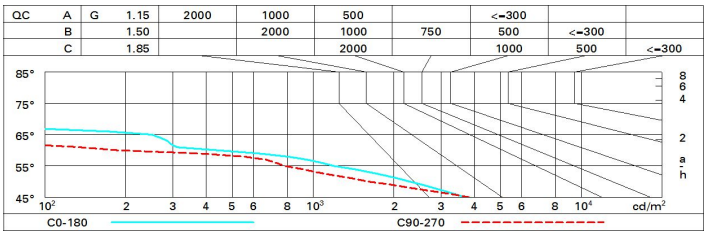
Lux

h	d1	d2	Em	Emax
2	0.7	0.8	646	851
4	1.4	1.6	162	213
6	2.1	2.3	72	95
8	2.8	3.1	40	53

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 1900 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	2.4	3.0	2.7	3.2	3.4	6.6	7.2	6.9	7.4	7.7
	3H	2.3	2.8	2.6	3.1	3.4	6.5	7.0	6.8	7.3	7.6
	4H	2.2	2.7	2.6	3.0	3.3	6.5	6.9	6.8	7.2	7.5
	6H	2.2	2.6	2.5	2.9	3.2	6.4	6.8	6.7	7.1	7.4
	8H	2.1	2.6	2.5	2.9	3.2	6.3	6.8	6.7	7.1	7.4
	12H	2.1	2.5	2.5	2.8	3.2	6.3	6.7	6.7	7.0	7.4
4H	2H	2.3	2.7	2.6	3.0	3.3	6.4	6.9	6.8	7.2	7.5
	3H	2.2	2.6	2.5	2.9	3.2	6.3	6.7	6.7	7.0	7.4
	4H	2.1	2.4	2.5	2.8	3.2	6.2	6.6	6.6	6.9	7.3
	6H	2.0	2.3	2.4	2.7	3.1	6.1	6.4	6.5	6.8	7.2
	8H	1.9	2.2	2.4	2.6	3.1	6.1	6.4	6.5	6.8	7.2
	12H	1.9	2.2	2.3	2.6	3.0	6.0	6.3	6.5	6.7	7.2
8H	4H	1.9	2.2	2.4	2.6	3.1	6.1	6.4	6.5	6.8	7.2
	6H	1.8	2.1	2.3	2.5	3.0	6.0	6.2	6.5	6.7	7.1
	8H	1.8	2.0	2.3	2.5	3.0	5.9	6.1	6.4	6.6	7.1
	12H	1.8	1.9	2.3	2.4	2.9	5.9	6.1	6.4	6.5	7.1
12H	4H	1.9	2.1	2.3	2.6	3.0	6.0	6.3	6.5	6.7	7.2
	6H	1.8	2.0	2.3	2.5	3.0	5.9	6.1	6.4	6.6	7.1
	8H	1.8	1.9	2.3	2.4	2.9	5.9	6.1	6.4	6.5	7.1

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