Reflex

Design iGuzzini **iGuzzini**

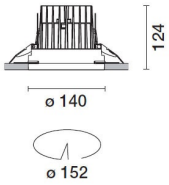
Last information update: May 2018

Fixed circular recessed luminaire - warm white - Ø153 mm - wide flood optic - UGR<19

Product code
Q977

Technical description
Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version without rim for mounting flush with ceiling. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone CRI 90 (2700K). General light emission, with controlled luminance UGR<19 1500 cd/m2 α>65° wide flood optic.

Installation
Installation flush with the ceiling is for false ceilings 12.5 mm thick



Dimension (mm)
Ø140x124

Colour
Aluminium (12)

Weight (Kg)
1.32

Mounting
ceiling recessed

Wiring
product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP20 IP54

Product configuration: Q977

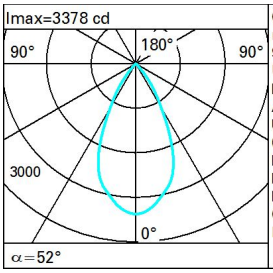
Product characteristics

Total lighting output [Lm]: 2405	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 30.9	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 77.8	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.) [%]: 83	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.9
Nominal power [W]: 28	Colour temperature [K]: 2700
Nominal luminous [Lm]: 2900	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 52°	MacAdam Step: 2

Polar



CIE
nL 0.83
98-100-100-100-83
UGR 16.1-16.1
DIN
A.61
UTE
0.83A+0.00T
F"1=982
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<200 cd/m² at 65°

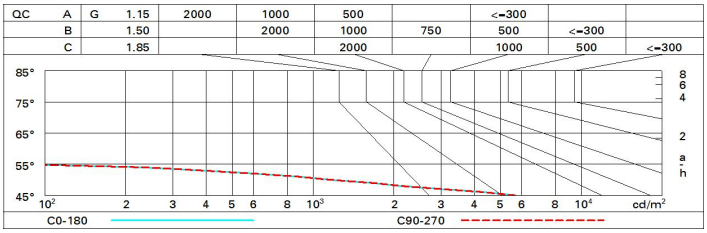
Lux

h	d	Em	Emax
2	2	641	844
4	3.9	160	211
6	5.9	71	94
8	7.8	40	53

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	74	70	68	65	70	67	67	64	77
1.0	78	74	72	70	73	71	71	68	82
1.5	82	79	77	75	78	76	75	73	88
2.0	84	82	81	79	81	80	79	77	92
2.5	86	84	83	82	83	82	81	79	95
3.0	87	86	85	84	85	84	83	81	97
4.0	88	87	87	86	86	85	84	82	99
5.0	89	88	87	87	87	86	85	83	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 2900 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	16.7	17.3	16.9	17.5	17.8	16.7	17.3	16.9	17.5	17.8
	3H	16.5	17.1	16.8	17.4	17.6	16.5	17.1	16.8	17.4	17.6
	4H	16.5	17.0	16.8	17.3	17.6	16.5	17.0	16.8	17.3	17.6
	6H	16.4	16.9	16.7	17.2	17.5	16.4	16.9	16.7	17.2	17.5
	8H	16.3	16.8	16.7	17.1	17.5	16.3	16.8	16.7	17.1	17.5
	12H	16.3	16.7	16.7	17.1	17.4	16.3	16.7	16.7	17.1	17.4
4H	2H	16.5	17.0	16.8	17.3	17.6	16.5	17.0	16.8	17.3	17.6
	3H	16.3	16.7	16.7	17.1	17.4	16.3	16.7	16.7	17.1	17.4
	4H	16.2	16.6	16.6	17.0	17.4	16.2	16.6	16.6	17.0	17.4
	6H	16.1	16.5	16.6	16.9	17.3	16.1	16.5	16.6	16.9	17.3
	8H	16.1	16.4	16.5	16.8	17.2	16.1	16.4	16.5	16.8	17.2
	12H	16.0	16.3	16.5	16.7	17.2	16.0	16.3	16.5	16.7	17.2
8H	4H	16.1	16.4	16.5	16.8	17.2	16.1	16.4	16.5	16.8	17.2
	6H	16.0	16.2	16.5	16.7	17.2	16.0	16.2	16.5	16.7	17.2
	8H	15.9	16.2	16.4	16.6	17.1	15.9	16.2	16.4	16.6	17.1
	12H	15.9	16.1	16.4	16.6	17.1	15.9	16.1	16.4	16.6	17.1
12H	4H	16.0	16.3	16.5	16.7	17.2	16.0	16.3	16.5	16.7	17.2
	6H	15.9	16.2	16.4	16.6	17.1	15.9	16.2	16.4	16.6	17.1
	8H	15.9	16.1	16.4	16.6	17.1	15.9	16.1	16.4	16.6	17.1

Variations with the observer position at spacing:

S =	1.0H	5.1 / -29.8	5.1 / -29.8
	1.5H	7.9 / -30.2	7.9 / -30.2
	2.0H	9.9 / -30.4	9.9 / -30.4