Reflex

Design iGuzzini **iGuzzini**

Last information update: May 2025

Product configuration: QP80
QP80: Fixed circular recessed luminaire - Ø 104 mm - warm white - wide flood optic - UGR<19

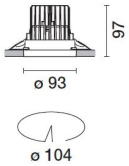
Product code
QP80: Fixed circular recessed luminaire - Ø 104 mm - warm white - wide flood optic - UGR<19

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 (3,000K). 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

Colour	**Weight (Kg)**
Aluminium (12)	0.68

Mounting
ceiling recessed



Wiring
product complete with 1-10V components

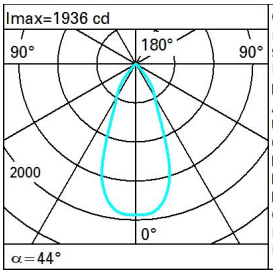
Complies with EN60598-1 and pertinent regulations

IP20 IP43 On the visible part of the product once installed

Technical data

lm system:	1221	CRI (minimum):	90
W system:	14	Colour temperature [K]:	3000
lm source:	1650	MacAdam Step:	2
W source:	12	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	87.2	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.) [%]:	74	Number of optical assemblies:	1
Beam angle [°]:	44°	Control:	1-10V

Polar



CIE
nL 0.74
97-100-100-100-74
UGR 17.2-17.2
DIN
A.61
UTE
0.74A+0.00T
F"1=972
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<19 I L<1500 cd/mq @65°

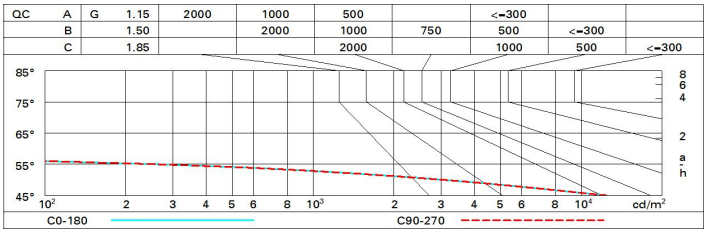
Lux

h	d	Em	Emax
2	1.6	392	484
4	3.2	98	121
6	4.8	44	54
8	6.5	24	30

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	62	60	58	62	59	59	57	76
1.0	69	66	63	62	65	63	63	60	81
1.5	73	70	68	67	69	68	67	65	87
2.0	75	73	72	71	72	71	70	68	92
2.5	77	75	74	73	74	73	72	70	95
3.0	77	77	76	75	75	75	74	72	97
4.0	78	78	77	77	76	76	75	73	99
5.0	79	78	78	78	77	77	76	74	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1650 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	17.8	18.4	18.0	18.7	18.9	17.8	18.4	18.0	18.7	18.9
	3H	17.6	18.2	17.9	18.5	18.8	17.6	18.2	17.9	18.5	18.8
	4H	17.6	18.1	17.9	18.4	18.7	17.6	18.1	17.9	18.4	18.7
	6H	17.5	18.0	17.8	18.3	18.6	17.5	18.0	17.8	18.3	18.6
	8H	17.4	17.9	17.8	18.3	18.6	17.4	17.9	17.8	18.3	18.6
	12H	17.4	17.9	17.8	18.2	18.6	17.4	17.9	17.8	18.2	18.6
4H	2H	17.6	18.1	17.9	18.4	18.7	17.6	18.1	17.9	18.4	18.7
	3H	17.4	17.9	17.8	18.2	18.6	17.4	17.9	17.8	18.2	18.6
	4H	17.3	17.7	17.7	18.1	18.5	17.3	17.7	17.7	18.1	18.5
	6H	17.2	17.6	17.6	18.0	18.4	17.2	17.6	17.6	18.0	18.4
	8H	17.2	17.5	17.6	17.9	18.4	17.2	17.5	17.6	17.9	18.4
	12H	17.1	17.4	17.6	17.9	18.3	17.1	17.4	17.6	17.9	18.3
8H	4H	17.2	17.5	17.6	17.9	18.4	17.2	17.5	17.6	17.9	18.4
	6H	17.1	17.4	17.6	17.8	18.3	17.1	17.4	17.6	17.8	18.3
	8H	17.0	17.3	17.5	17.7	18.2	17.0	17.3	17.5	17.7	18.2
	12H	17.0	17.2	17.5	17.7	18.2	17.0	17.2	17.5	17.7	18.2
12H	4H	17.1	17.4	17.6	17.9	18.3	17.1	17.4	17.6	17.9	18.3
	6H	17.0	17.3	17.5	17.7	18.2	17.0	17.3	17.5	17.7	18.2
	8H	17.0	17.2	17.5	17.7	18.2	17.0	17.2	17.5	17.7	18.2

Variations with the observer position at spacing:

S =			
	1.0H	4.4 / -31.1	4.4 / -31.1
	1.5H	7.2 / -38.8	7.2 / -38.8
	2.0H	9.2 / -39.6	9.2 / -39.6