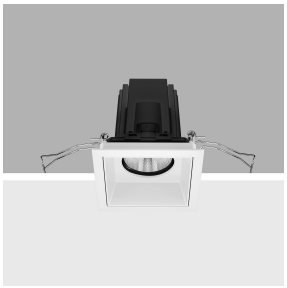
Laser

Design iGuzzini **iGuzzini**

Last information update: July 2025

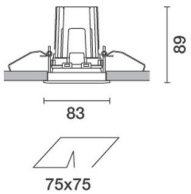
Product configuration: Q816.01
Q816.01: Fixed square recessed luminaire - LED - wide flood - Super Comfort - 10W 1069.2lm - 3000K - CRI 90 - White



Product code
Q816.01: Fixed square recessed luminaire - LED - wide flood - Super Comfort - 10W 1069.2lm - 3000K - CRI 90 - White

Technical description
Square recessed luminaire with contact frame. Fixed Super Comfort version: the LEDs are set a long way back to minimize glare and guarantee a high level of visual comfort. The main body is made of die-cast aluminium with a radiant surface that guarantees optimum heat dissipation. Metallised, thermoplastic, high definition reflector - wide flood optic (58°). Structure with die-cast aluminium external contact frame with a single white finish. The internal ring is made of thermoplastic available in a range of painted and metallised finishes. Safety glass included Quick and easy tool free assembly. High color rendering index 3,000K LED. Power unit available with a separate code no.

Installation
Recessed in a false ceiling by means of an anti-fall steel wire spring - minimum thickness of false ceiling: 1 mm - preparation slot: 75 x 75 mm.



Colour	Weight (Kg)
White (01)	0.26

Mounting
wall recessed|ceiling recessed

Wiring
Direct current ballasts are available with a separate code no.: ON-OFF / 1-10V dimmable / DALI dimmable / Trailing Edge dimmable - the recessed fitting includes a cable and a quick-coupling connector to connect it to the connector on the ballast.

Notes
A wide range of decorative accessories and diffusers is available.

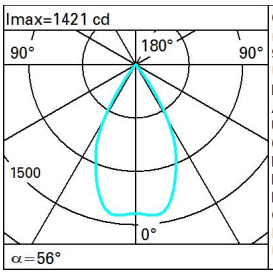
Complies with EN60598-1 and pertinent regulations

IP20 IP44 On the visible part of the product once installed

Technical data

lm system:	1069	Rf (Colour Fidelity Index):	92
W system:	10	Rg (Gamut Index):	99
lm source:	1320	Colour temperature [K]:	3000
W source:	10	MacAdam Step:	2
Luminous efficiency (lm/W, real value):	106.9	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
lm in emergency mode:	-	Lamp code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of lamps for optical assembly:	1
Light Output Ratio (L.O.R.) [%]:	81	ZVEI Code:	LED
Beam angle [°]:	56°	Number of optical assemblies:	1
CRI (minimum):	90	LED current [mA]:	300

Polar



CIE
nL 0.81
98-100-100-100-81
UGR 16.0-16.0
DIN
A.61
UTE
0.81A+0.00T
F"1=984
F"1+F"2=997
F"1+F"2+F"3=999
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<16 I L<3000 cd/mq @65°

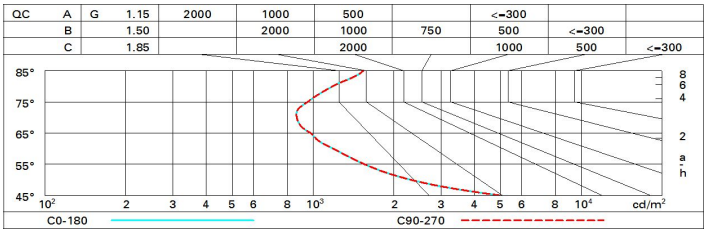
Lux

h	d	Em	Emax
1	1.1	1096	1399
2	2.1	274	350
3	3.2	122	155
4	4.3	69	87

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	69	66	64	68	66	65	63	77
1.0	76	72	70	68	72	69	69	66	82
1.5	80	77	75	73	76	74	74	71	88
2.0	82	80	79	78	79	78	77	75	92
2.5	84	82	81	80	81	80	79	77	95
3.0	85	84	83	82	83	82	81	79	97
4.0	86	85	85	84	84	83	82	80	99
5.0	86	86	85	85	85	84	83	81	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1320 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	16.5	17.1	16.8	17.4	17.6	16.5	17.1	16.8	17.4	17.6
	3H	16.4	16.9	16.7	17.2	17.5	16.4	16.9	16.7	17.2	17.5
	4H	16.3	16.8	16.6	17.1	17.4	16.3	16.8	16.6	17.1	17.4
	6H	16.2	16.7	16.6	17.0	17.4	16.2	16.7	16.6	17.0	17.3
	8H	16.2	16.7	16.6	17.0	17.3	16.2	16.6	16.6	17.0	17.3
	12H	16.2	16.6	16.6	17.0	17.3	16.2	16.6	16.5	16.9	17.3
4H	2H	16.3	16.8	16.6	17.1	17.4	16.3	16.8	16.6	17.1	17.4
	3H	16.2	16.6	16.5	16.9	17.3	16.2	16.6	16.5	16.9	17.3
	4H	16.1	16.5	16.5	16.8	17.2	16.1	16.5	16.5	16.8	17.2
	6H	16.0	16.4	16.4	16.7	17.2	16.0	16.3	16.4	16.7	17.2
	8H	16.0	16.3	16.4	16.7	17.1	16.0	16.3	16.4	16.7	17.1
	12H	16.0	16.2	16.4	16.7	17.1	15.9	16.2	16.4	16.6	17.1
8H	4H	16.0	16.3	16.4	16.7	17.1	16.0	16.3	16.4	16.7	17.1
	6H	15.9	16.1	16.4	16.6	17.1	15.9	16.2	16.4	16.6	17.1
	8H	15.9	16.1	16.3	16.5	17.0	15.9	16.1	16.3	16.5	17.0
	12H	15.8	16.0	16.3	16.5	17.0	15.8	16.0	16.3	16.5	17.0
12H	4H	15.9	16.2	16.4	16.6	17.1	16.0	16.2	16.4	16.7	17.1
	6H	15.8	16.1	16.3	16.5	17.0	15.9	16.1	16.4	16.6	17.1
	8H	15.8	16.0	16.3	16.5	17.0	15.8	16.0	16.3	16.5	17.0

Variations with the observer position at spacing:

S =			
	1.0H	6.2 / -10.9	6.2 / -10.9
	1.5H	9.0 / -11.4	9.0 / -11.4
	2.0H	11.0 / -11.6	11.0 / -11.6