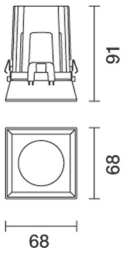
Laser

Design iGuzzini **iGuzzini**

Last information update: June 2018



Fixed square recessed luminaire - Minimal - medium - Super Comfort

Product code
QA75

Technical description
Square Minimal recessed luminaire (frameless). Super Comfort fixed 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 - medium optic. Die-cast aluminium structure designed for flush with ceiling installation - a specific adapter with a separate code is available for false ceilings. This is indispensable for installing recessed luminaires. The internal deflector is made of thermoplastic available in a range of painted and metallised finishes. Safety glass included LED lamp with high color rendering index. Power unit available with a separate code no.

Installation
The luminaire is recessed in the adapter (QA83) by means of an anti-fall steel wire spring, previously installed on the ceiling that can be between 12.5 and 25 mm thick. A special steel spring required to extract the main body of the adapter after it has been installed is included in the package.

Dimension (mm)
68x68x91

Colour
White (01) | Black (04) | Chrome (10) | Brass (14) | (E6) | (E8)

Weight (Kg)
0.24

Mounting
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

Product configuration: QA75.01+QA83.04
QA83.04: Frame / adapter for Minimal square fixed recessed luminaire 75 x 75 - Black

Product characteristics

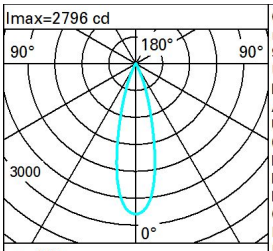
Total lighting output [Lm]: 708	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 10	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 70.8	Voltage [V]: -
Life Time: 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 59	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 0
Nominal power [W]: 10	Colour temperature [K]: 3000
Nominal luminous [Lm]: 1200	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 28°	MacAdam Step: 2

Polar

Imax=2796 cd



α = 28°

CIE
nL 0.59
98-99-100-100-59
UGR <10-<10
DIN
A.61
UTE
0.59A+0.00T
F"1=978
F"1+F"2=995
F"1+F"2+F"3=999
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

Lux

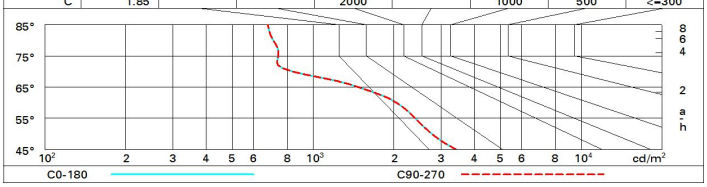
h	d	Em	Emax
2	1	552	699
4	2	138	175
6	3	61	78
8	4	35	44

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	53	50	48	46	49	48	47	45	77
1.0	55	53	51	49	52	50	50	48	82
1.5	58	56	55	53	55	54	53	52	88
2.0	60	58	57	56	58	57	56	54	92
2.5	61	60	59	58	59	58	58	56	95
3.0	62	61	60	60	60	60	59	57	97
4.0	63	62	62	61	61	61	60	58	99
5.0	63	63	62	62	62	61	60	59	100

Luminance curve limit

QC		G								
	A		1.15	2000	1000	500		<=300		
	B		1.50		2000	1000	750	500	<=300	
	C		1.85			2000		1000	500	<=300



C0-180 C90-270

UGR diagram

Corrected UGR values (at 1200 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					viewed		
x	y			crosswise					endwise		
2H	2H	6.1	8.2	6.5	8.5	8.9	6.1	8.2	6.5	8.5	8.9
	3H	6.3	8.0	6.7	8.3	8.6	6.3	7.9	6.6	8.2	8.6
	4H	6.4	7.7	6.8	8.1	8.4	6.3	7.6	6.7	8.0	8.3
	6H	6.4	7.5	6.8	7.8	8.2	6.3	7.3	6.6	7.7	8.0
	8H	6.5	7.5	6.8	7.8	8.2	6.2	7.3	6.6	7.6	8.0
	12H	6.4	7.5	6.8	7.8	8.2	6.2	7.2	6.6	7.6	7.9
4H	2H	6.3	7.6	6.7	8.0	8.3	6.4	7.7	6.8	8.1	8.4
	3H	6.6	7.6	7.0	8.0	8.3	6.6	7.6	7.0	8.0	8.4
	4H	6.6	7.6	7.1	8.0	8.4	6.6	7.6	7.1	8.0	8.4
	6H	6.4	8.1	6.9	8.5	9.0	6.3	8.0	6.8	8.4	8.9
	8H	6.4	8.2	6.9	8.7	9.2	6.2	8.1	6.7	8.5	9.0
	12H	6.3	8.2	6.8	8.7	9.2	6.1	8.1	6.6	8.5	9.1
8H	4H	6.2	8.1	6.7	8.5	9.0	6.4	8.2	6.9	8.7	9.2
	6H	6.3	8.1	6.8	8.6	9.1	6.4	8.1	6.9	8.6	9.2
	8H	6.4	8.0	6.9	8.5	9.0	6.4	8.0	6.9	8.5	9.0
	12H	6.6	7.7	7.1	8.2	8.7	6.6	7.6	7.1	8.1	8.7
12H	4H	6.1	8.1	6.6	8.5	9.1	6.3	8.2	6.8	8.7	9.2
	6H	6.3	7.9	6.8	8.4	9.0	6.4	8.0	6.9	8.5	9.0
	8H	6.6	7.6	7.1	8.1	8.7	6.6	7.7	7.1	8.2	8.7

Variations with the observer position at spacing:

S =			
	1.0H	2.0 / -1.2	2.0 / -1.2
	1.5H	3.7 / -2.0	3.7 / -2.0
	2.0H	5.4 / -3.6	5.4 / -3.6