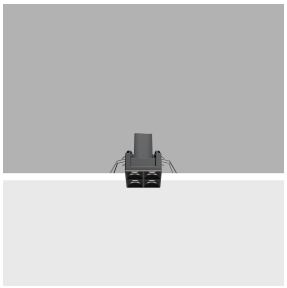
Laser Blade XS

Design iGuzzini **iGuzzini**

Last information update: June 2025

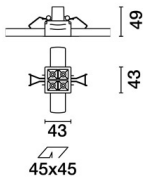
Product configuration: Q541
Q541: Minimal 4 cells - Wideflood beam - LED



Product code
Q541: Minimal 4 cells - Wideflood beam - LED

Technical description
Square miniaturised recessed luminaire with 4 optical elements for LED lamps - fixed optic. Despite the ultracompact size of the product, the patented technology of the optic system guarantees an efficient flow and a high level of visual comfort. Main body with die-cast aluminium radiant surface, minimal (frameless) version for mounting flush with the ceiling. Metallised, thermoplastic, high definition Opti Beam reflectors, integrated in a set-back position in the anti-glare screen. Ballast not included, available with separate code.

Installation
Recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter fixed to false ceiling (compatible thicknesses of 12.5 / 15 / 20 mm) with screws; subsequent filling and smoothing operations; insertion of luminaire body and aesthetic end finishing. A special protective sheath allows finishing operations on the plasterboard to be simplified and speeded up. Preparation hole 45 x 45.



Weight (Kg)
0.11

Mounting
wall recessed|ceiling recessed

Wiring
Direct current ballasts to be ordered separately: ON-OFF - code no. MXF9 (min 1 / max 2); dimmable DALI - code no. BZM4 (min 1 / max 5) - check the instruction sheet for the lengths and compatible cross-sections of the cables to be used.

Notes
The special steel wire spring provided is required to facilitate the eventual extraction of the recessed body once it has been inserted.

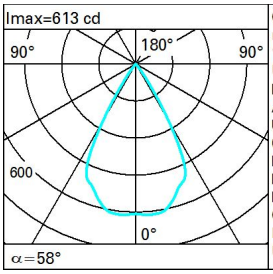
Complies with EN60598-1 and pertinent regulations

IP20

Technical data

lm system:	481	CRI (minimum):	90
W system:	7.8	Colour temperature [K]:	2700
lm source:	580	MacAdam Step:	3
W source:	7.8	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	61.7	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.) [%]:	83	Number of optical assemblies:	1
Beam angle [°]:	58°	LED current [mA]:	700

Polar



CIE
nL 0.83
100-100-100-100-83
UGR 15.5-15.5
DIN
A.61
UTE
0.83A+0.00T
F"1=996
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<16 I L<1500 cd/mq @65°

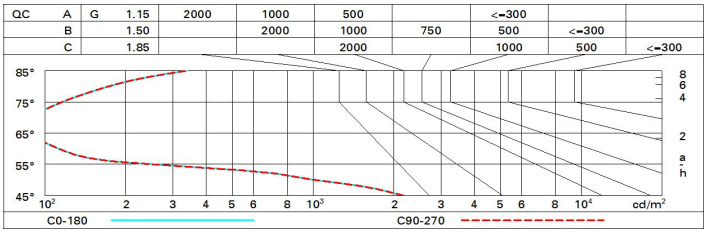
Lux

h	d	Em	Emax
1	1.1	488	608
2	2.2	122	152
3	3.3	54	68
4	4.4	30	38

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	75	71	68	66	70	68	68	65	78
1.0	78	75	72	70	74	72	71	69	83
1.5	82	79	77	76	78	77	76	73	89
2.0	85	83	81	80	82	80	79	77	93
2.5	86	85	84	83	84	83	82	79	96
3.0	87	86	85	85	85	84	83	81	98
4.0	88	87	87	86	86	86	84	82	99
5.0	89	88	88	88	87	86	85	83	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 580 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	16.1	16.7	16.4	16.9	17.2	16.1	16.7	16.4	16.9	17.2
	3H	16.0	16.5	16.3	16.8	17.1	16.0	16.5	16.3	16.8	17.1
	4H	15.9	16.4	16.2	16.7	17.0	15.9	16.4	16.2	16.7	17.0
	6H	15.8	16.3	16.2	16.6	16.9	15.8	16.3	16.2	16.6	16.9
	8H	15.8	16.2	16.2	16.6	16.9	15.8	16.2	16.2	16.6	16.9
	12H	15.8	16.2	16.1	16.5	16.9	15.8	16.2	16.1	16.5	16.9
4H	2H	15.9	16.4	16.2	16.7	17.0	15.9	16.4	16.2	16.7	17.0
	3H	15.8	16.2	16.1	16.5	16.9	15.8	16.2	16.1	16.5	16.9
	4H	15.7	16.0	16.1	16.4	16.8	15.7	16.0	16.1	16.4	16.8
	6H	15.6	15.9	16.0	16.3	16.7	15.6	15.9	16.0	16.3	16.7
	8H	15.5	15.8	16.0	16.2	16.7	15.5	15.8	16.0	16.2	16.7
	12H	15.5	15.7	15.9	16.2	16.6	15.5	15.7	15.9	16.2	16.6
8H	4H	15.5	15.8	16.0	16.2	16.7	15.5	15.8	16.0	16.2	16.7
	6H	15.4	15.7	15.9	16.1	16.6	15.4	15.7	15.9	16.1	16.6
	8H	15.4	15.6	15.9	16.1	16.6	15.4	15.6	15.9	16.1	16.6
	12H	15.3	15.5	15.8	16.0	16.5	15.3	15.5	15.8	16.0	16.5
12H	4H	15.5	15.7	15.9	16.2	16.6	15.5	15.7	15.9	16.2	16.6
	6H	15.4	15.6	15.9	16.1	16.6	15.4	15.6	15.9	16.1	16.6
	8H	15.3	15.5	15.8	16.0	16.5	15.3	15.5	15.8	16.0	16.5

Variations with the observer position at spacing:

S =			
	1.0H	6.5 / -24.9	6.5 / -24.9
	1.5H	9.4 / -25.6	9.4 / -25.6
	2.0H	11.4 / -25.8	11.4 / -25.8