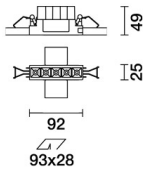
Laser Blade XS

Design iGuzzini **iGuzzini**

Last information update: June 2018



Minimal 5 cells - Wideflood beam - LED

Product code
Q548

Technical description
Linear miniaturised recessed luminaire with 5 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 controlled glare visual comfort. Main body with die-cast zamak 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. Supplied with a power supply unit connected to the luminaire.

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 28 x 94.

Dimension (mm)
92x25x49

Colour
White (01) | Black (04) | Brass (14) | (E6)

Weight (Kg)
0.37

Mounting
wall recessed|ceiling recessed

Wiring
On the power supply unit with terminal board included.

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

pending

Product configuration: Q548

Product characteristics

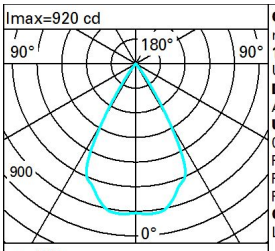
Total lighting output [Lm]: 722
Total power [W]: 12.7
Luminous efficacy [Lm/W]: 56.9
Life Time: > 50,000h - L80 - B10 (Ta 25°C)
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: 230
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 83
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 9.7
Nominal luminous [Lm]: 870
Lamp maximum intensity [cd]: /
Beam angle [°]: 58°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 3
Colour temperature [K]: 4000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 3

Polar

Imax=920 cd



α = 58°

CIE
nL 0.83
100-100-100-100-83
UGR 16.3-16.3
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<500 cd/m² at 65°

Lux

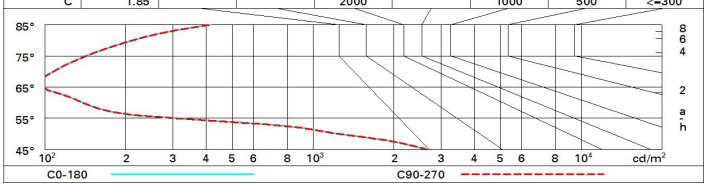
h	d	Em	Emax
1	1.1	732	913
2	2.2	183	228
3	3.3	81	101
4	4.4	46	57

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

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 870 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	16.8	17.3	17.1	17.5	17.8	16.8	17.3	17.1	17.5	17.8
	3H	16.7	17.1	17.0	17.4	17.7	16.7	17.1	17.0	17.4	17.7
	4H	16.6	17.0	17.0	17.3	17.6	16.6	17.0	17.0	17.3	17.6
	6H	16.6	16.9	16.9	17.2	17.6	16.6	16.9	16.9	17.2	17.6
	8H	16.5	16.9	16.9	17.2	17.5	16.5	16.9	16.9	17.2	17.5
	12H	16.5	16.8	16.9	17.2	17.5	16.5	16.8	16.9	17.2	17.5
4H	2H	16.6	17.0	17.0	17.3	17.6	16.6	17.0	17.0	17.3	17.6
	3H	16.5	16.8	16.9	17.2	17.5	16.5	16.8	16.9	17.2	17.5
	4H	16.4	16.7	16.8	17.1	17.4	16.4	16.7	16.8	17.1	17.4
	6H	16.3	16.6	16.7	17.0	17.4	16.3	16.6	16.7	17.0	17.4
	8H	16.3	16.5	16.7	16.9	17.4	16.3	16.5	16.7	16.9	17.4
	12H	16.2	16.4	16.7	16.9	17.3	16.2	16.4	16.7	16.9	17.3
8H	4H	16.3	16.5	16.7	16.9	17.4	16.3	16.5	16.7	16.9	17.4
	6H	16.2	16.4	16.6	16.8	17.3	16.2	16.4	16.6	16.8	17.3
	8H	16.1	16.3	16.6	16.7	17.2	16.1	16.3	16.6	16.7	17.2
	12H	16.1	16.2	16.6	16.7	17.2	16.1	16.2	16.6	16.7	17.2
12H	4H	16.2	16.4	16.7	16.9	17.3	16.2	16.4	16.7	16.9	17.3
	6H	16.1	16.3	16.6	16.7	17.2	16.1	16.3	16.6	16.7	17.2
	8H	16.1	16.2	16.6	16.7	17.2	16.1	16.2	16.6	16.7	17.2

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