Laser Blade XS

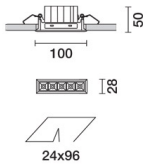
Design iGuzzini **iGuzzini**

Last information update: June 2018

Frame 5 cells - Flood beam - LED

Product code
Q491

Technical description
Linear miniaturised recessed luminaire with 5 optical elements for LED lamps - fixed optics. 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 aluminium radiant surface, version with perimeter surface frame. 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 for false ceilings from 1 to 25 mm thick - preparation hole 24 x 96.

Dimension (mm)
100x28x50

Colour
White (01) | White/Brass (41) | Black/Black (43) | Black/White (47) | Grey/Black (74) | (E7)

Weight (Kg)
0.35

Mounting
wall recessed|ceiling recessed

Wiring
On the power supply unit with terminal board included.

Notes
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Complies with EN60598-1 and pertinent regulations

IP20

pending

Product configuration: Q491

Product characteristics

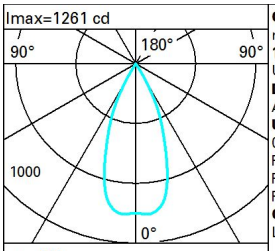
Total lighting output [Lm]: 614
Total power [W]: 12.7
Luminous efficacy [Lm/W]: 48.4
Life Time: > 50,000h - L80 - B10 (Ta 25°C)
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: 230
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 83
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 9.8
Nominal luminous [Lm]: 740
Lamp maximum intensity [cd]: /
Beam angle [°]: 42°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.9
Colour temperature [K]: 2700
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 3

Polar

Imax=1261 cd



α = 42°

CIE
nL 0.83
100-100-100-100-83
UGR <10-<10
DIN
A.61
UTE
0.83A+0.00T
F"1=999
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<500 cd/m² at 65°

Lux

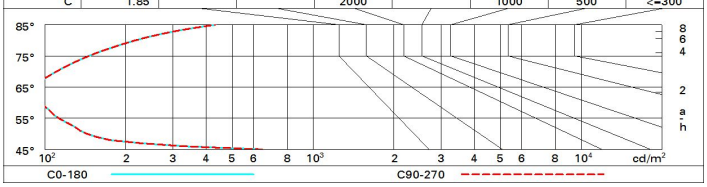
h	d	Em	Emax
1	0.8	1027	1252
2	1.5	257	313
3	2.3	114	139
4	3.1	64	78

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	80	77	76	79	77	76	74	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	87	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



UGR diagram

Corrected UGR values (at 7 40 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	6.5	7.0	6.8	7.2	7.4	6.5	7.0	6.8	7.2	7.4
	3H	6.4	6.8	6.7	7.1	7.3	6.4	6.8	6.7	7.1	7.3
	4H	6.3	6.7	6.6	7.0	7.3	6.3	6.7	6.6	7.0	7.3
	6H	6.2	6.6	6.6	6.9	7.2	6.2	6.6	6.6	6.9	7.2
	8H	6.2	6.6	6.6	6.9	7.2	6.2	6.6	6.5	6.9	7.2
	12H	6.2	6.5	6.5	6.8	7.2	6.2	6.5	6.5	6.8	7.2
4H	2H	6.3	6.7	6.6	7.0	7.3	6.3	6.7	6.6	7.0	7.3
	3H	6.2	6.5	6.5	6.8	7.2	6.2	6.5	6.5	6.8	7.2
	4H	6.1	6.4	6.5	6.7	7.1	6.1	6.4	6.5	6.7	7.1
	6H	6.0	6.3	6.4	6.6	7.1	6.0	6.2	6.4	6.6	7.1
	8H	5.9	6.2	6.4	6.6	7.0	5.9	6.2	6.4	6.6	7.0
	12H	5.9	6.1	6.4	6.6	7.0	5.9	6.1	6.3	6.5	7.0
8H	4H	5.9	6.2	6.4	6.6	7.0	5.9	6.2	6.4	6.6	7.0
	6H	5.8	6.0	6.3	6.5	7.0	5.8	6.1	6.3	6.5	7.0
	8H	5.8	6.0	6.3	6.4	6.9	5.8	6.0	6.3	6.4	6.9
	12H	5.8	5.9	6.3	6.4	6.9	5.7	5.9	6.2	6.4	6.9
12H	4H	5.9	6.1	6.3	6.5	7.0	5.9	6.1	6.4	6.6	7.0
	6H	5.8	6.0	6.3	6.4	6.9	5.8	6.0	6.3	6.4	6.9
	8H	5.7	5.9	6.2	6.4	6.9	5.8	5.9	6.3	6.4	6.9

Variations with the observer position at spacing:

S =	1.0H	7.0 / -14.5	7.0 / -14.5
	1.5H	9.8 / -14.7	9.8 / -14.7
	2.0H	11.8 / -14.8	11.8 / -14.8