Laser Blade XS

Design iGuzzini **iGuzzini**

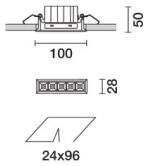
Last information update: June 2018

Frame 5 cells - Wideflood beam - LED

Product code
Q489

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
.

Complies with EN60598-1 and pertinent regulations

IP20

Product configuration: Q489

Product characteristics

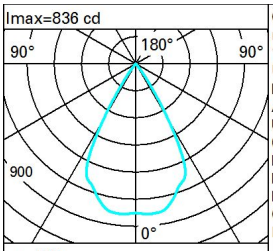
Total lighting output [Lm]: 656	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 12.7	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 51.6	Voltage [V]: 230
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 83	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.9
Nominal power [W]: 9.8	Colour temperature [K]: 3000
Nominal luminous [Lm]: 790	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 58°	MacAdam Step: 3

Polar

Imax=836 cd



α = 58°

CIE
nL 0.83
100-100-100-100-83
UGR 15.9-15.9
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

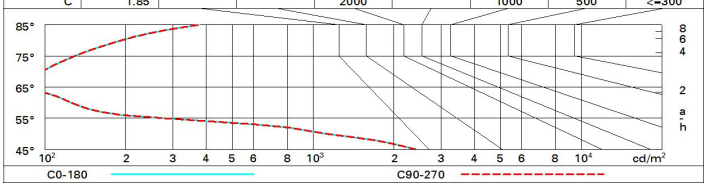
h	d	Em	Emax
1	1.1	664	829
2	2.2	166	207
3	3.3	74	92
4	4.4	42	52

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



UGR diagram

Corrected UGR values (at 790 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	16.5	17.0	16.8	17.2	17.4	16.5	17.0	16.8	17.2	17.4
	3H	16.4	16.8	16.7	17.1	17.3	16.4	16.8	16.7	17.1	17.3
	4H	16.3	16.7	16.6	17.0	17.3	16.3	16.7	16.6	17.0	17.3
	6H	16.2	16.6	16.6	16.9	17.2	16.2	16.6	16.6	16.9	17.2
	8H	16.2	16.5	16.6	16.9	17.2	16.2	16.5	16.6	16.9	17.2
	12H	16.2	16.5	16.5	16.8	17.2	16.2	16.5	16.5	16.8	17.2
4H	2H	16.3	16.7	16.6	17.0	17.3	16.3	16.7	16.6	17.0	17.3
	3H	16.2	16.5	16.5	16.8	17.2	16.2	16.5	16.5	16.8	17.2
	4H	16.1	16.4	16.5	16.7	17.1	16.1	16.4	16.5	16.7	17.1
	6H	16.0	16.2	16.4	16.6	17.1	16.0	16.2	16.4	16.6	17.1
	8H	15.9	16.2	16.4	16.6	17.0	15.9	16.2	16.4	16.6	17.0
	12H	15.9	16.1	16.3	16.5	17.0	15.9	16.1	16.3	16.5	17.0
8H	4H	15.9	16.2	16.4	16.6	17.0	15.9	16.2	16.4	16.6	17.0
	6H	15.8	16.0	16.3	16.5	17.0	15.8	16.0	16.3	16.5	17.0
	8H	15.8	15.9	16.3	16.4	16.9	15.8	15.9	16.3	16.4	16.9
	12H	15.7	15.9	16.2	16.4	16.9	15.7	15.9	16.2	16.4	16.9
12H	4H	15.9	16.1	16.3	16.5	17.0	15.9	16.1	16.3	16.5	17.0
	6H	15.8	15.9	16.3	16.4	16.9	15.8	15.9	16.3	16.4	16.9
	8H	15.7	15.9	16.2	16.4	16.9	15.7	15.9	16.2	16.4	16.9

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