Laser Blade XS

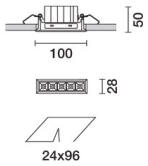
Design iGuzzini **iGuzzini**

Last information update: June 2018

Frame 5 cells - Wideflood beam - LED

Product code
Q494

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 DALI 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
ceiling surface

Wiring
On the power supply unit with terminal board included.

Notes
.

Complies with EN60598-1 and pertinent regulations

IP20

pending

Product configuration: Q494

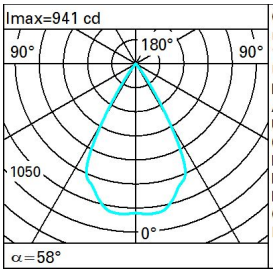
Product characteristics

Total lighting output [Lm]: 739
Total power [W]: 12.4
Luminous efficacy [Lm/W]: 59.6
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]: 890
Lamp maximum intensity [cd]: /
Beam angle [°]: 58°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.6
Colour temperature [K]: 4000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 3

Polar



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°

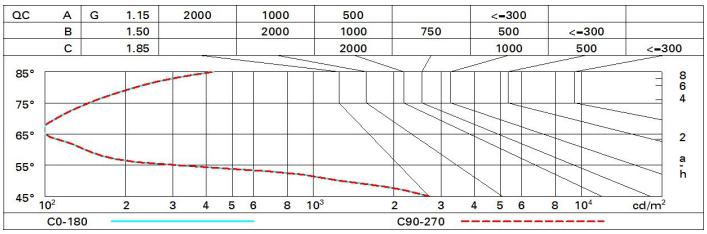
Lux

h	d	Em	Emax
1	1.1	748	934
2	2.2	187	233
3	3.3	83	104
4	4.4	47	58

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 890 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	16.9	17.4	17.2	17.6	17.8	16.9	17.4	17.2	17.6	17.8
	3H	16.8	17.2	17.1	17.5	17.7	16.8	17.2	17.1	17.5	17.7
	4H	16.7	17.1	17.1	17.4	17.7	16.7	17.1	17.1	17.4	17.7
	6H	16.6	17.0	17.0	17.3	17.6	16.6	17.0	17.0	17.3	17.6
	8H	16.6	17.0	17.0	17.3	17.6	16.6	17.0	17.0	17.3	17.6
	12H	16.6	16.9	16.9	17.2	17.6	16.6	16.9	16.9	17.2	17.6
4H	2H	16.7	17.1	17.1	17.4	17.7	16.7	17.1	17.1	17.4	17.7
	3H	16.6	16.9	16.9	17.2	17.6	16.6	16.9	16.9	17.2	17.6
	4H	16.5	16.8	16.9	17.1	17.5	16.5	16.8	16.9	17.1	17.5
	6H	16.4	16.7	16.8	17.0	17.5	16.4	16.7	16.8	17.0	17.5
	8H	16.3	16.6	16.8	17.0	17.4	16.3	16.6	16.8	17.0	17.4
	12H	16.3	16.5	16.7	16.9	17.4	16.3	16.5	16.7	16.9	17.4
8H	4H	16.3	16.6	16.8	17.0	17.4	16.3	16.6	16.8	17.0	17.4
	6H	16.2	16.4	16.7	16.9	17.4	16.2	16.4	16.7	16.9	17.4
	8H	16.2	16.4	16.7	16.8	17.3	16.2	16.4	16.7	16.8	17.3
	12H	16.1	16.3	16.6	16.8	17.3	16.1	16.3	16.6	16.8	17.3
12H	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	16.7	16.8	17.3	16.2	16.4	16.7	16.8	17.3
	8H	16.1	16.3	16.6	16.8	17.3	16.1	16.3	16.6	16.8	17.3

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