Laser Blade XS

Design iGuzzini	iGuzzini

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Product configuration: QJ03
QJ03: Minimal 5 cells - Wide Flood beam - LED

Product code
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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 luminous flux and a high level of controlled glare visual comfort. Main body with die-cast aluminium radiant surface, minimal (frameless) version for mounting flush with the ceiling. For recessed installation in a false ceiling a specific adapter is required that is available with a separate item code. Metallised, thermoplastic, high definition Opti Beam reflector, integrated in a set-back position in the anti-glare screen. Supplied with a power supply unit connected to the luminaire.

Installation
The luminaire is recessed in the specific adapter (QJ90) by means of a steel wire spring, previously installed on the ceiling that can be 12.5 / 15 / 20 mm thick. A special protective sheath allows finishing operations on the plasterboard to be simplified and speeded up.

Colour	Weight (Kg)
White (01) | Black (04) | Gold (14) | Burnished chrome (E6)	0.32

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.

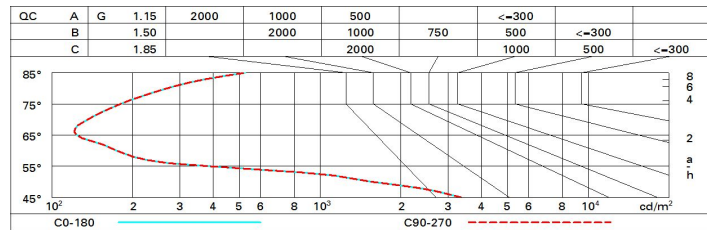Complies with EN60598-1 and pertinent regulations

IP20 | CE | ⟪03 | S | EHC | NOM-3 | IMQ / S | CCC pending

Technical data

lm system:	913	CRI (minimum):	90
W system:	12.7	Colour temperature [K]:	4000
lm source:	1100	MacAdam Step:	2
W source:	9.9	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	71.9	Voltage [Vin]:	230
		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°		

Polar

Imax=1163 cd

CIE
nL 0.83
100-100-100-100-83
UGR 17.1-17.1
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<19 | L<1500 cd/mq @65°

α=58°

Lux			
h	d	Em	Emax
1	1.1	925	1154
2	2.2	231	288
3	3.3	103	128
4	4.4	58	72

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	A	G	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 1100 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 x	y	viewed crosswise					viewed endwise				
2H	2H	17.7	18.1	17.9	18.3	18.6	17.7	18.1	17.9	18.3	18.6
	3H	17.5	18.0	17.8	18.2	18.5	17.5	18.0	17.8	18.2	18.5
	4H	17.5	17.9	17.8	18.1	18.4	17.5	17.9	17.8	18.1	18.4
	6H	17.4	17.7	17.7	18.1	18.4	17.4	17.7	17.7	18.1	18.4
	8H	17.3	17.7	17.7	18.0	18.4	17.3	17.7	17.7	18.0	18.4
	12H	17.3	17.6	17.7	18.0	18.3	17.3	17.6	17.7	18.0	18.3
4H	2H	17.5	17.9	17.8	18.1	18.4	17.5	17.9	17.8	18.1	18.4
	3H	17.3	17.6	17.7	18.0	18.3	17.3	17.6	17.7	18.0	18.3
	4H	17.2	17.5	17.6	17.9	18.3	17.2	17.5	17.6	17.9	18.3
	6H	17.1	17.4	17.6	17.8	18.2	17.1	17.4	17.6	17.8	18.2
	8H	17.1	17.3	17.5	17.7	18.2	17.1	17.3	17.5	17.7	18.2
	12H	17.0	17.2	17.5	17.7	18.1	17.0	17.2	17.5	17.7	18.1
8H	4H	17.1	17.3	17.5	17.7	18.2	17.1	17.3	17.5	17.7	18.2
	6H	17.0	17.2	17.5	17.6	18.1	17.0	17.2	17.5	17.6	18.1
	8H	16.9	17.1	17.4	17.6	18.1	16.9	17.1	17.4	17.6	18.1
	12H	16.9	17.0	17.4	17.5	18.0	16.9	17.0	17.4	17.5	18.0
12H	4H	17.0	17.2	17.5	17.7	18.1	17.0	17.2	17.5	17.7	18.1
	6H	16.9	17.1	17.4	17.6	18.1	16.9	17.1	17.4	17.6	18.1
	8H	16.9	17.0	17.4	17.5	18.0	16.9	17.0	17.4	17.5	18.0

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