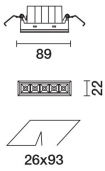
Laser Blade XS

Design iGuzzini **iGuzzini**

Last information update: February 2025

Product configuration: EJ89
EJ89: Minimal 5 cells - Wide Flood beam - LED



Product code
EJ89: Minimal 5 cells - Wide Flood beam - LED

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 dimmable DALI power supply unit connected to the luminaire. High efficiency value Neutral White LED (lm/W).

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
White (01) | Black (04) | Gold (14)* | Burnished chrome (E6)*

Weight (Kg)
0.32

* Colours on request

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.

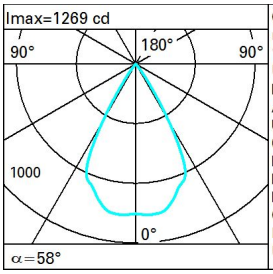
Complies with EN60598-1 and pertinent regulations

IP20 IP23

Technical data

lm system:	996	Colour temperature [K]:	4000
W system:	12.4	MacAdam Step:	2
lm source:	1200	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W source:	9.9	Voltage [Vin]:	230
Luminous efficiency (lm/W, real value):	80.3	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°	Control:	DALI-2
CRI (minimum):	80		

Polar



CIE
nL 0.83
100-100-100-100-83
UGR 16.5-16.5
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°

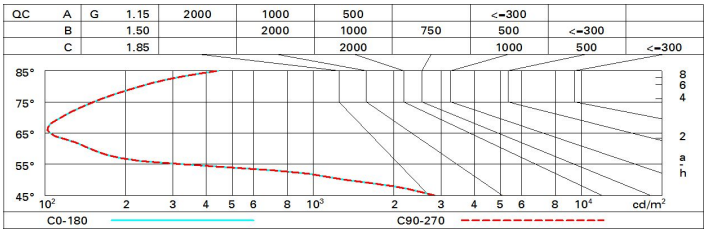
Lux

h	d	Em	Emax
1	1.1	1009	1259
2	2.2	252	315
3	3.3	112	140
4	4.4	63	79

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 1200 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	17.1	17.5	17.3	17.8	18.0	17.1	17.5	17.3	17.8	18.0
	3H	16.9	17.4	17.2	17.6	17.9	16.9	17.4	17.2	17.6	17.9
	4H	16.9	17.3	17.2	17.5	17.8	16.9	17.3	17.2	17.5	17.8
	6H	16.8	17.2	17.1	17.5	17.8	16.8	17.2	17.1	17.5	17.8
	8H	16.8	17.1	17.1	17.4	17.8	16.8	17.1	17.1	17.4	17.8
	12H	16.7	17.1	17.1	17.4	17.7	16.7	17.1	17.1	17.4	17.7
4H	2H	16.9	17.3	17.2	17.5	17.8	16.9	17.3	17.2	17.5	17.8
	3H	16.7	17.1	17.1	17.4	17.7	16.7	17.1	17.1	17.4	17.7
	4H	16.6	16.9	17.0	17.3	17.7	16.6	16.9	17.0	17.3	17.7
	6H	16.5	16.8	17.0	17.2	17.6	16.5	16.8	17.0	17.2	17.6
	8H	16.5	16.7	16.9	17.1	17.6	16.5	16.7	16.9	17.1	17.6
	12H	16.4	16.7	16.9	17.1	17.5	16.4	16.7	16.9	17.1	17.5
8H	4H	16.5	16.7	16.9	17.1	17.6	16.5	16.7	16.9	17.1	17.6
	6H	16.4	16.6	16.9	17.0	17.5	16.4	16.6	16.9	17.0	17.5
	8H	16.3	16.5	16.8	17.0	17.5	16.3	16.5	16.8	17.0	17.5
	12H	16.3	16.4	16.8	16.9	17.4	16.3	16.4	16.8	16.9	17.4
12H	4H	16.4	16.7	16.9	17.1	17.5	16.4	16.7	16.9	17.1	17.5
	6H	16.3	16.5	16.8	17.0	17.5	16.3	16.5	16.8	17.0	17.5
	8H	16.3	16.4	16.8	16.9	17.4	16.3	16.4	16.8	16.9	17.4

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