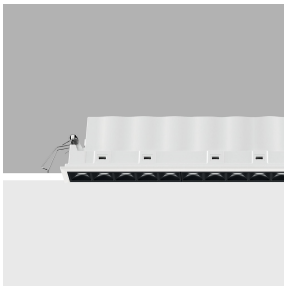
Laser Blade XS

Design iGuzzini **iGuzzini**

Last information update: February 2025

Product configuration: RA82
RA82: Frame 15 cells - Widelood beam - LED



Product code
RA82: Frame 15 cells - Widelood beam - LED

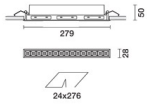
Technical description
Linear miniaturised recessed luminaire with 15 optical elements for LED lamps - fixed optics. Despite the ultracompact size of the product, the patented technology of the optic system guarantees an efficient flow and a high level of controlled glare visual comfort. Main body with 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 276.

Colour
White (01) | Black / Black (43) | Black / White (47) | White/Gold (41)* | Grey / Black (74)* | White / burnished chrome (E7)*

Weight (Kg)
0.75

* Colours on request



Mounting
wall recessed|ceiling recessed

Wiring
On the power supply unit with terminal board included.

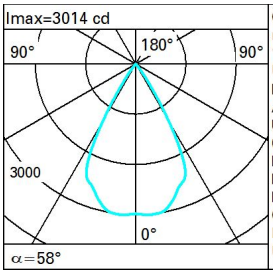
Complies with EN60598-1 and pertinent regulations

IP20 IP23

Technical data

lm system:	2366	Colour temperature [K]:	3500
W system:	33.8	MacAdam Step:	2
lm source:	2850	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W source:	30	Voltage [Vin]:	230
Luminous efficiency (lm/W, real value):	70	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):	90		

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°

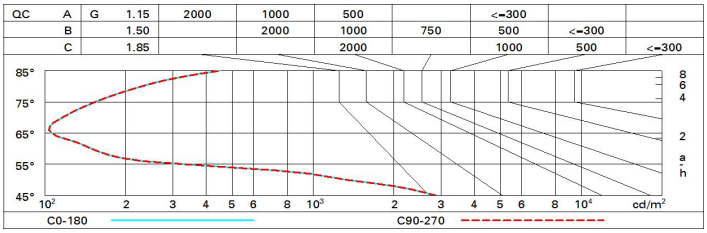
Lux

h	d	Em	Emax
2	2.2	599	747
4	4.4	150	187
6	6.7	67	83
8	8.9	37	47

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 2850 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	17.6	17.4	17.8	18.0	17.1	17.6	17.4	17.8	18.0
	3H	17.0	17.4	17.3	17.7	17.9	17.0	17.4	17.3	17.7	17.9
	4H	16.9	17.3	17.2	17.6	17.9	16.9	17.3	17.2	17.6	17.9
	6H	16.8	17.2	17.2	17.5	17.8	16.8	17.2	17.2	17.5	17.8
	8H	16.8	17.2	17.2	17.5	17.8	16.8	17.2	17.2	17.5	17.8
	12H	16.8	17.1	17.1	17.4	17.8	16.8	17.1	17.1	17.4	17.8
4H	2H	16.9	17.3	17.2	17.6	17.9	16.9	17.3	17.2	17.6	17.9
	3H	16.8	17.1	17.1	17.4	17.8	16.8	17.1	17.1	17.4	17.8
	4H	16.7	17.0	17.1	17.3	17.7	16.7	17.0	17.1	17.3	17.7
	6H	16.6	16.8	17.0	17.2	17.7	16.6	16.8	17.0	17.2	17.7
	8H	16.5	16.8	17.0	17.2	17.6	16.5	16.8	17.0	17.2	17.6
	12H	16.5	16.7	16.9	17.1	17.6	16.5	16.7	16.9	17.1	17.6
8H	4H	16.5	16.8	17.0	17.2	17.6	16.5	16.8	17.0	17.2	17.6
	6H	16.4	16.6	16.9	17.1	17.6	16.4	16.6	16.9	17.1	17.6
	8H	16.4	16.5	16.9	17.0	17.5	16.4	16.5	16.9	17.0	17.5
	12H	16.3	16.5	16.8	17.0	17.5	16.3	16.5	16.8	17.0	17.5
12H	4H	16.5	16.7	16.9	17.1	17.6	16.5	16.7	16.9	17.1	17.6
	6H	16.4	16.5	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

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