Laser Blade XS

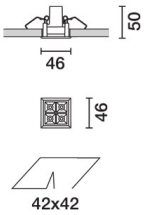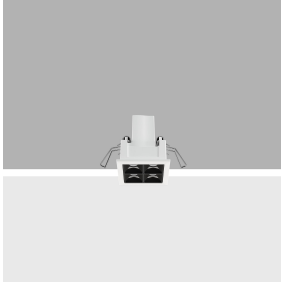| Design iGuzzini	iGuzzini

Last information update: December 2024

Product configuration: Q479
Q479: Frame 4 cells - Wideflood beam - LED

Product code
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Technical description
Square miniaturised recessed luminaire with 4 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 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. Ballast not included, available with separate code.

Installation
Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 42 x 42.

Colour	Weight (Kg)
White (01)	Black / Black (43)	Black / White (47)	White/Gold (41)*	Grey / Black (74)*	White / burnished chrome (E7)*	0.11

* Colours on request

Mounting
wall recessed|ceiling recessed

Wiring
Direct current ballasts to be ordered separately: ON-OFF - code no. MXF9 (min 1 / max 2); dimmable DALI - code no. BZM4 (min 1 / max 5) - check the instruction sheet for the lengths and compatible cross-sections of the cables to be used.
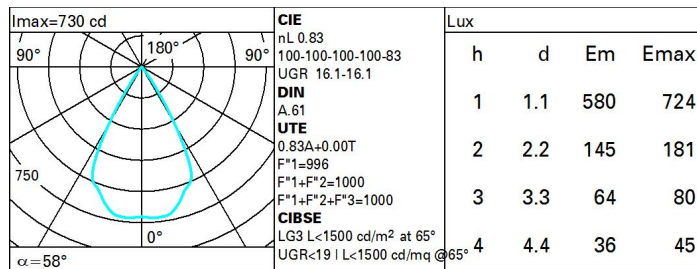
Complies with EN60598-1 and pertinent regulations

Technical data

lm system:	573	CRI (minimum):	90
W system:	7.9	Colour temperature [K]:	2700
lm source:	690	MacAdam Step:	2
W source:	7.9	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	72.5	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°	LED current [mA]:	700

Polar

Imax=730 cd	CIE	Lux			
90° 180° 90°	nL 0.83 100-100-100-100-83 UGR 16.1-16.1	h	d	Em	Emax
	DIN A.61	1	1.1	580	724
750	**UTE** 0.83A+0.00T F"1=996 F"1+F"2=1000	2	2.2	145	181
	F"1+F"2+F"3=1000	3	3.3	64	80
0°	**CIBSE** LG3 L<1500 cd/m² at 65°	4	4.4	36	45
α=58°	UGR<19	L<1500 cd/mq @65°				

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 ─────────────
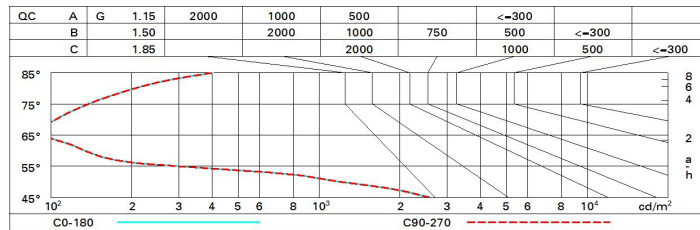
UGR diagram

Corrected UGR values (at 690 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	16.7	17.3	17.0	17.5	17.8	16.7	17.3	17.0	17.5	17.8
	3H	16.6	17.1	16.9	17.4	17.7	16.6	17.1	16.9	17.4	17.7
	4H	16.5	17.0	16.8	17.3	17.6	16.5	17.0	16.8	17.3	17.6
	6H	16.4	16.9	16.8	17.2	17.5	16.4	16.9	16.8	17.2	17.5
	8H	16.4	16.8	16.8	17.2	17.5	16.4	16.8	16.8	17.2	17.5
	12H	16.4	16.8	16.7	17.1	17.5	16.4	16.8	16.7	17.1	17.5
4H	2H	16.5	17.0	16.8	17.3	17.6	16.5	17.0	16.8	17.3	17.6
	3H	16.4	16.8	16.7	17.1	17.5	16.4	16.8	16.7	17.1	17.5
	4H	16.3	16.6	16.7	17.0	17.4	16.3	16.6	16.7	17.0	17.4
	6H	16.2	16.5	16.6	16.9	17.3	16.2	16.5	16.6	16.9	17.3
	8H	16.1	16.4	16.6	16.8	17.3	16.1	16.4	16.6	16.8	17.3
	12H	16.1	16.3	16.5	16.8	17.2	16.1	16.3	16.5	16.8	17.2
8H	4H	16.1	16.4	16.6	16.8	17.3	16.1	16.4	16.6	16.8	17.3
	6H	16.0	16.3	16.5	16.7	17.2	16.0	16.3	16.5	16.7	17.2
	8H	16.0	16.2	16.5	16.7	17.2	16.0	16.2	16.5	16.7	17.2
	12H	15.9	16.1	16.4	16.6	17.1	15.9	16.1	16.4	16.6	17.1
12H	4H	16.1	16.3	16.5	16.8	17.2	16.1	16.3	16.5	16.8	17.2
	6H	16.0	16.2	16.5	16.7	17.2	16.0	16.2	16.5	16.7	17.2
	8H	15.9	16.1	16.4	16.6	17.1	15.9	16.1	16.4	16.6	17.1

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