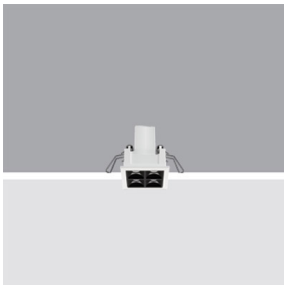
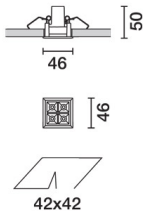
Laser Blade XS

Design iGuzzini **iGuzzini**

Last information update: June 2018





Frame 4 cells - Flood beam - LED

Product code
Q476

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.

Dimension (mm)
46x46x50

Colour
White (01) | White/Brass (41) | Black/Black (43) | Black/White (47) | Grey/Black (74) | (E7)

Weight (Kg)
0.11

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.

Notes
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Complies with EN60598-1 and pertinent regulations

IP20

pending

Product configuration: Q476

Product characteristics

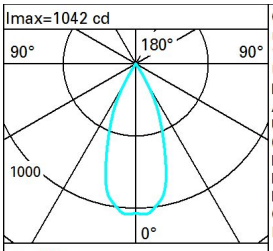
Total lighting output [Lm]: 496	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 7.8	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 63.6	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 80	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 0
Nominal power [W]: 7.8	Colour temperature [K]: 3000
Nominal luminous [Lm]: 620	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 42°	MacAdam Step: 3

Polar

Imax=1042 cd



α = 42°

CIE
nL 0.80
100-100-100-100-80
UGR <10-<10
DIN
A.61
UTE
0.80A+0.00T
F"1=997
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°

Lux

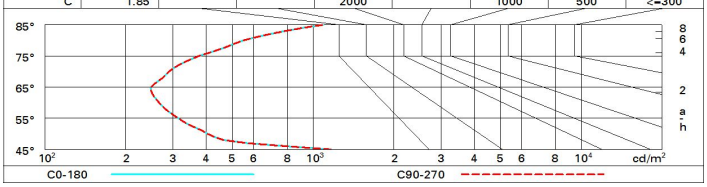
h	d	Em	Emax
1	0.8	830	1038
2	1.5	207	260
3	2.3	92	115
4	3.1	52	65

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	69	66	64	68	66	65	63	78
1.0	75	72	70	68	71	69	69	66	83
1.5	79	77	75	73	76	74	73	71	89
2.0	82	80	78	77	79	77	76	74	93
2.5	83	82	81	80	81	80	79	77	96
3.0	84	83	82	82	82	81	80	78	98
4.0	85	84	84	83	83	83	81	79	99
5.0	86	85	85	84	84	83	82	80	100

Luminance curve limit

QC		G								
	A		1.15	2000	1000	500		<=300		
	B		1.50		2000	1000	750	500	<=300	
	C		1.85			2000		1000	500	<=300



UGR diagram

Corrected UGR values (at 620 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	7.3	7.9	7.6	8.1	8.3	7.3	7.9	7.6	8.1	8.3
	3H	7.2	7.7	7.5	7.9	8.2	7.1	7.7	7.5	7.9	8.2
	4H	7.1	7.6	7.4	7.9	8.2	7.1	7.6	7.4	7.8	8.1
	6H	7.0	7.5	7.4	7.8	8.1	7.0	7.4	7.3	7.8	8.1
	8H	7.0	7.4	7.4	7.8	8.1	7.0	7.4	7.3	7.7	8.1
	12H	7.0	7.4	7.4	7.7	8.1	6.9	7.3	7.3	7.7	8.0
4H	2H	7.1	7.6	7.4	7.8	8.1	7.1	7.6	7.4	7.9	8.2
	3H	6.9	7.3	7.3	7.7	8.0	6.9	7.4	7.3	7.7	8.0
	4H	6.9	7.2	7.3	7.6	8.0	6.9	7.2	7.3	7.6	8.0
	6H	6.8	7.1	7.2	7.5	7.9	6.8	7.1	7.2	7.5	7.9
	8H	6.8	7.1	7.2	7.5	7.9	6.7	7.0	7.2	7.4	7.9
	12H	6.8	7.0	7.2	7.5	7.9	6.7	7.0	7.1	7.4	7.8
8H	4H	6.7	7.0	7.2	7.4	7.9	6.8	7.1	7.2	7.5	7.9
	6H	6.7	6.9	7.2	7.4	7.9	6.7	7.0	7.2	7.4	7.9
	8H	6.7	6.9	7.2	7.4	7.9	6.7	6.9	7.2	7.4	7.9
	12H	6.7	6.9	7.2	7.4	7.9	6.7	6.8	7.2	7.3	7.8
12H	4H	6.7	7.0	7.1	7.4	7.8	6.8	7.0	7.2	7.5	7.9
	6H	6.6	6.9	7.1	7.3	7.8	6.7	6.9	7.2	7.4	7.9
	8H	6.7	6.8	7.2	7.3	7.8	6.7	6.9	7.2	7.4	7.9

Variations with the observer position at spacing:

S =			
	1.0H	6.7 / -8.9	6.7 / -8.9
	1.5H	9.5 / -9.1	9.5 / -9.1
	2.0H	11.5 / -9.3	11.5 / -9.3