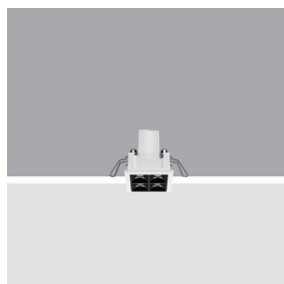


Last information update: June 2018



**Frame 4 cells - Flood beam - LED**

**Product code**

Q478

**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



**Product configuration: Q478**

**Product characteristics**

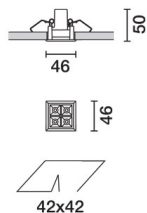
Total lighting output [Lm]: 464  
 Total power [W]: 7.8  
 Luminous efficacy [Lm/W]: 59.5  
 Life Time: > 50,000h - L80 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0  
 Emergency luminous flux [Lm]: /  
 Voltage [V]: -  
 Number of optical assemblies: 1

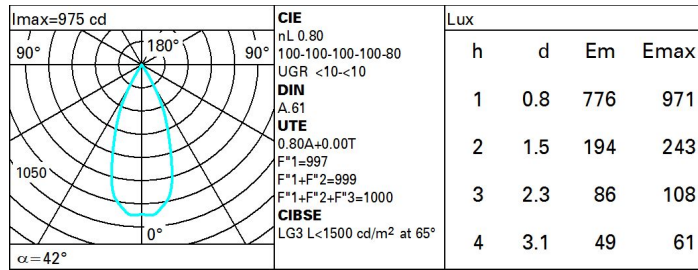
**Optical assembly Characteristics Type 1**

Light Output Ratio (L.O.R.) [%]: 80  
 Lamp code: LED  
 ZVEI Code: LED  
 Nominal power [W]: 7.8  
 Nominal luminous [Lm]: 580  
 Lamp maximum intensity [cd]: /  
 Beam angle [°]: 42°

Number of lamps for optical assembly: 1  
 Socket: /  
 Ballast losses [W]: 0  
 Colour temperature [K]: 2700  
 CRI: 90  
 Wavelength [Nm]: /  
 MacAdam Step: 3



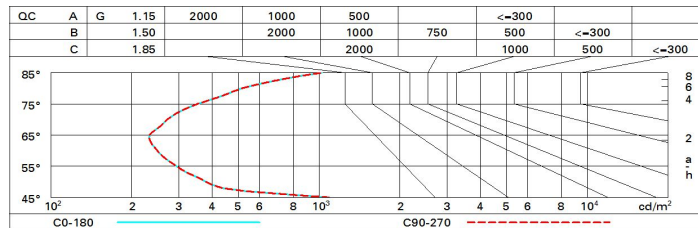
**Polar**



**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**



**UGR diagram**

Corrected UGR values (at 580 lm bare lamp luminous flux)											
Reflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
ceiling/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	7.0	7.6	7.3	7.9	8.1	7.0	7.6	7.3	7.9	8.1
	3H	6.9	7.4	7.2	7.7	8.0	6.9	7.4	7.2	7.7	8.0
	4H	6.9	7.3	7.2	7.6	7.9	6.8	7.3	7.2	7.6	7.9
	6H	6.8	7.2	7.1	7.6	7.9	6.8	7.2	7.1	7.5	7.8
	8H	6.8	7.2	7.1	7.5	7.9	6.7	7.2	7.1	7.5	7.8
	12H	6.8	7.2	7.1	7.5	7.9	6.7	7.1	7.1	7.4	7.8
4H	2H	6.8	7.3	7.2	7.6	7.9	6.9	7.3	7.2	7.6	7.9
	3H	6.7	7.1	7.1	7.5	7.8	6.7	7.1	7.1	7.5	7.8
	4H	6.6	7.0	7.0	7.4	7.7	6.6	7.0	7.0	7.4	7.7
	6H	6.6	6.9	7.0	7.3	7.7	6.5	6.9	7.0	7.3	7.7
	8H	6.6	6.8	7.0	7.3	7.7	6.5	6.8	6.9	7.2	7.6
	12H	6.6	6.8	7.0	7.2	7.7	6.5	6.7	6.9	7.2	7.6
8H	4H	6.5	6.8	6.9	7.2	7.6	6.6	6.8	7.0	7.3	7.7
	6H	6.5	6.7	6.9	7.1	7.6	6.5	6.7	7.0	7.2	7.6
	8H	6.5	6.7	6.9	7.1	7.6	6.5	6.7	6.9	7.1	7.6
	12H	6.5	6.7	7.0	7.1	7.7	6.4	6.6	6.9	7.1	7.6
12H	4H	6.5	6.7	6.9	7.2	7.6	6.6	6.8	7.0	7.2	7.7
	6H	6.4	6.6	6.9	7.1	7.6	6.5	6.7	7.0	7.2	7.7
	8H	6.4	6.6	6.9	7.1	7.6	6.5	6.7	7.0	7.1	7.7
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				