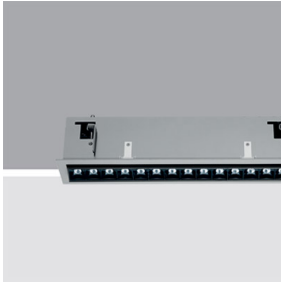


Last information update: May 2018

**Adjustable 15 - cell Recessed frame - LED - Warm white - Incorporated DALI dimmable power supply - Beam 48°****Product code**

MQ31

Technical description

Recessed rectangular luminaire with LEDs. Shaped steel sheet structural compartment with outer rim. The 15 lighting cells linear body, in die-cast aluminium, can be used to direct the emission with a tilting adjustability of $\pm 30^\circ$. Metallised thermoplastic high definition optics, integrated in a rear position in the black anti-glare screen; the structure of the optical system prevents a pinpoint effect, allowing precise, circular light distribution and emission with controlled luminance. Supplied with DALI dimmable control gear connected to the luminaire. Warm white high chromatic yield LED.

Installation

recessed with mechanical blocking system for false ceilings from 1 to 25 mm; can be installed on ceilings and walls (vertical + horizontal) - preparation slot 80 x 428

Dimension (mm)

435x87x89

Colour

Black/Black (43) | Black/White (47) | Grey/Black (74)

Weight (Kg)

2.06

Mounting

wall recessed|ceiling recessed

Wiring

on power box: screw connections

Notes

dimming function with pushbutton (TOUCH DIM/PUSH): for this option consult the instructions included in the package

Complies with EN60598-1 and pertinent regulations



IP20

**Product configuration: MQ31****Product characteristics**

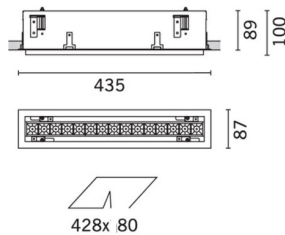
Total lighting output [Lm]: 2073.3
Total power [W]: 35
Luminous efficacy [Lm/W]: 59.2
Life Time: 50,000h - L90 - B10 (Ta 25°C)

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

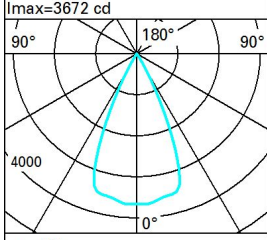
Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 83
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 31
Nominal luminous [Lm]: 2500
Lamp maximum intensity [cd]: /
Beam angle [$^\circ$]: 48°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 4
Colour temperature [K]: 3000
CRI: 95
Wavelength [nm]: /
MacAdam Step: 3



Polar

	CIE nL 0.83 100-100-100-100-83 UGR <10-<10 DIN A.61 UTE 0.83A+0.00T F*1=999 F*1+F*2=1000 F*1+F*2+F*3=1000 CIBSE LG3 L<200 cd/m² at 65° BZ1	Lux h d Em Emax 2 1.8 769 916 4 3.6 192 229 6 5.3 85 102 8 7.1 48 57
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$\alpha=48^\circ$

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	79	77	76	74	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

UGR diagram

Corrected UGR values (at 2500 lm bare lamp luminous flux)											
Reflect.: ceiling walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise				
2H	2H	1.1	1.5	1.3	1.8	2.0	1.1	1.5	1.3	1.8	2.0
	3H	0.9	1.4	1.2	1.6	1.9	0.9	1.4	1.2	1.6	1.9
	4H	0.9	1.3	1.2	1.5	1.8	0.8	1.3	1.2	1.5	1.8
	6H	0.8	1.1	1.1	1.5	1.8	0.8	1.1	1.1	1.5	1.8
	8H	0.7	1.1	1.1	1.4	1.8	0.7	1.1	1.1	1.4	1.8
	12H	0.7	1.0	1.1	1.4	1.7	0.7	1.0	1.1	1.4	1.7
4H	2H	0.8	1.3	1.2	1.5	1.8	0.9	1.3	1.2	1.5	1.8
	3H	0.7	1.0	1.1	1.4	1.7	0.7	1.0	1.1	1.4	1.7
	4H	0.6	0.9	1.0	1.3	1.7	0.6	0.9	1.0	1.3	1.7
	6H	0.5	0.8	0.9	1.2	1.6	0.5	0.8	0.9	1.2	1.6
	8H	0.5	0.7	0.9	1.1	1.6	0.5	0.7	0.9	1.1	1.6
	12H	0.4	0.7	0.9	1.1	1.5	0.4	0.6	0.9	1.1	1.5
8H	4H	0.5	0.7	0.9	1.1	1.6	0.5	0.7	0.9	1.1	1.6
	6H	0.4	0.6	0.8	1.0	1.5	0.4	0.6	0.8	1.0	1.5
	8H	0.3	0.5	0.8	1.0	1.5	0.3	0.5	0.8	1.0	1.5
	12H	0.3	0.4	0.8	0.9	1.4	0.3	0.4	0.8	0.9	1.4
12H	4H	0.4	0.6	0.9	1.1	1.5	0.4	0.7	0.9	1.1	1.5
	6H	0.3	0.5	0.8	1.0	1.5	0.3	0.5	0.8	1.0	1.5
	8H	0.3	0.4	0.8	0.9	1.4	0.3	0.4	0.8	0.9	1.4
Variations with the observer position at spacing:											
S =		1.0H	6.9 / -18.0					6.9 / -18.0			
		1.5H	9.7 / -18.3					9.7 / -18.3			
		2.0H	11.7 / -18.4					11.7 / -18.4			