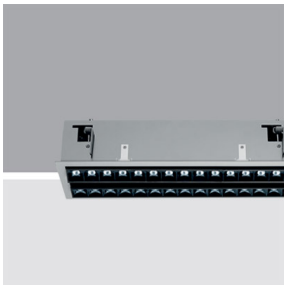
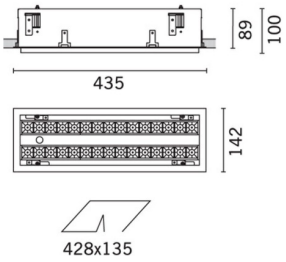
Laser Blade

Design iGuzzini **iGuzzini**

Last information update: May 2018





Adjustable 2 x 15 - cell Recessed frame - LED - Warm white - Incorporated DALI dimmable power supply - Beam 34°

Product code
MQ38

Technical description
Recessed rectangular luminaire with LEDs. Shaped steel sheet structural compartment with outer rim. The two linear elements with 15 lighting cells, in die-cast aluminium and independently adjustable, can be used to direct the emission with a tilting adjustability of +/- 30°. 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 glare . Supplied with DALI dimmable control gear connected to the luminaire. Warm white LED.

Installation
recessed with mechanical blocking system for false ceilings from 1 to 25 mm; can be installed on cealings and walls (vertical + horizontal) - preparation slot 135 x 428

Dimension (mm)
435x142x89

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

Weight (Kg)
3.36

Mounting
wall recessed|ceiling recessed

Wiring
On power box: screw and quick release connections. The product is fitted with a separate control gear for each lighting body; possibility of separate switching

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

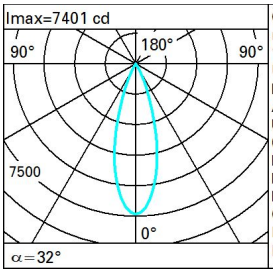
IP20

Product configuration: MQ38

Product characteristics
Total lighting output [Lm]: 4313
Total power [W]: 70
Luminous efficacy [Lm/W]: 61.6
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: 2

Optical assembly Characteristics Type 1
Light Output Ratio (L.O.R.) [%]: 80
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 31
Nominal luminous [Lm]: 2700
Lamp maximum intensity [cd]: /
Beam angle [°]: 32°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 4
Colour temperature [K]: 3000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 3

Polar



CIE
nL 0.80
100-100-100-100-80
UGR <10-<10
DIN
A.61
UTE
0.80A+0.00T
F"1=1000
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	1.1	1423	1850
4	2.3	356	463
6	3.4	158	206
8	4.6	89	116

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	81	80	78	77	79	77	76	74	93
2.5	83	82	81	80	80	79	79	77	96
3.0	84	83	82	81	82	81	80	78	98
4.0	85	84	84	83	83	82	81	79	99
5.0	85	85	85	84	84	83	82	80	100

UGR diagram

Corrected UGR values (at 2700 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 x	y	viewed crosswise					viewed endwise				
2H	2H	-3.6	-3.1	-3.3	-2.8	-2.6	-3.6	-3.1	-3.3	-2.8	-2.6
	3H	-3.7	-3.2	-3.4	-3.0	-2.7	-3.7	-3.2	-3.4	-3.0	-2.7
	4H	-3.8	-3.3	-3.4	-3.0	-2.8	-3.8	-3.3	-3.4	-3.0	-2.8
	6H	-3.8	-3.4	-3.5	-3.1	-2.8	-3.8	-3.4	-3.5	-3.1	-2.8
	8H	-3.9	-3.5	-3.5	-3.2	-2.8	-3.9	-3.5	-3.5	-3.2	-2.8
	12H	-3.9	-3.5	-3.5	-3.2	-2.9	-3.9	-3.5	-3.5	-3.2	-2.9
4H	2H	-3.8	-3.3	-3.4	-3.0	-2.8	-3.8	-3.3	-3.4	-3.0	-2.8
	3H	-3.9	-3.5	-3.5	-3.2	-2.9	-3.9	-3.5	-3.5	-3.2	-2.9
	4H	-4.0	-3.7	-3.6	-3.3	-2.9	-4.0	-3.7	-3.6	-3.3	-2.9
	6H	-4.1	-3.8	-3.7	-3.4	-3.0	-4.1	-3.8	-3.7	-3.4	-3.0
	8H	-4.1	-3.9	-3.7	-3.5	-3.0	-4.1	-3.9	-3.7	-3.5	-3.0
	12H	-4.2	-4.0	-3.7	-3.5	-3.1	-4.2	-4.0	-3.7	-3.5	-3.1
8H	4H	-4.1	-3.9	-3.7	-3.5	-3.0	-4.1	-3.9	-3.7	-3.5	-3.0
	6H	-4.2	-4.0	-3.8	-3.6	-3.1	-4.2	-4.0	-3.8	-3.6	-3.1
	8H	-4.3	-4.1	-3.8	-3.6	-3.1	-4.3	-4.1	-3.8	-3.6	-3.1
	12H	-4.3	-4.2	-3.8	-3.7	-3.2	-4.3	-4.2	-3.8	-3.7	-3.2
12H	4H	-4.2	-4.0	-3.7	-3.5	-3.1	-4.2	-4.0	-3.7	-3.5	-3.1
	6H	-4.3	-4.1	-3.8	-3.6	-3.1	-4.3	-4.1	-3.8	-3.6	-3.1
	8H	-4.3	-4.2	-3.8	-3.7	-3.2	-4.3	-4.2	-3.8	-3.7	-3.2

Variations with the observer position at spacing:

S =			
	1.0H	6.8 / -18.5	6.8 / -18.5
	1.5H	9.6 / -18.7	9.6 / -18.7
	2.0H	11.6 / -23.0	11.6 / -23.0