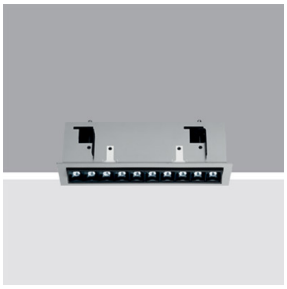
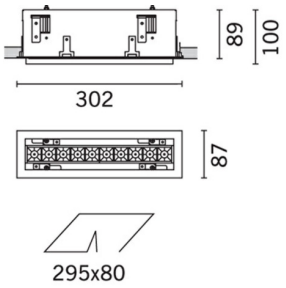
Laser Blade

Design iGuzzini **iGuzzini**

Last information update: May 2018





Adjustable 10 - cell Recessed frame - LED Neutral white - Incorporated DALI dimmable power supply - Beam 48°

Product code
MQ22

Technical description
Recessed rectangular luminaire with LEDs. Shaped steel sheet structural compartment with outer rim. The 10 lighting cells linear body, in die-cast aluminium, 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 luminance . Supplied with DALI dimmable control gear connected to the luminaire. Neutral 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 80 x 295

Dimension (mm)
302x87x89

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

Weight (Kg)
1.52

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: MQ22

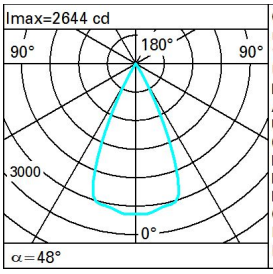
Product characteristics

Total lighting output [Lm]: 1492.7	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 24.5	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 60.9	Voltage [V]: -
Life Time: 50,000h - L90 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 83	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 3.5
Nominal power [W]: 21	Colour temperature [K]: 4000
Nominal luminous [Lm]: 1800	CRI: 95
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 48°	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	553	659
4	3.6	138	165
6	5.3	61	73
8	7.1	35	41

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 1800 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 crosswise					viewed endwise		
x	y										
2H	2H	1.3	1.8	1.6	2.0	2.2	1.3	1.8	1.6	2.0	2.2
	3H	1.2	1.6	1.5	1.9	2.1	1.2	1.6	1.5	1.9	2.1
	4H	1.1	1.5	1.4	1.8	2.1	1.1	1.5	1.4	1.8	2.1
	6H	1.0	1.4	1.4	1.7	2.0	1.0	1.4	1.4	1.7	2.0
	8H	1.0	1.4	1.4	1.7	2.0	1.0	1.4	1.3	1.7	2.0
	12H	1.0	1.3	1.3	1.6	2.0	1.0	1.3	1.3	1.6	2.0
4H	2H	1.1	1.5	1.4	1.8	2.1	1.1	1.5	1.4	1.8	2.1
	3H	1.0	1.3	1.3	1.6	2.0	1.0	1.3	1.3	1.6	2.0
	4H	0.9	1.2	1.3	1.5	1.9	0.9	1.2	1.3	1.5	1.9
	6H	0.8	1.0	1.2	1.4	1.9	0.8	1.0	1.2	1.4	1.9
	8H	0.7	1.0	1.2	1.4	1.8	0.7	1.0	1.2	1.4	1.8
	12H	0.7	0.9	1.1	1.3	1.8	0.7	0.9	1.1	1.3	1.8
8H	4H	0.7	1.0	1.2	1.4	1.8	0.7	1.0	1.2	1.4	1.8
	6H	0.6	0.8	1.1	1.3	1.8	0.6	0.8	1.1	1.3	1.8
	8H	0.6	0.8	1.1	1.2	1.7	0.6	0.8	1.1	1.2	1.7
	12H	0.5	0.7	1.0	1.2	1.7	0.5	0.7	1.0	1.2	1.7
12H	4H	0.7	0.9	1.1	1.3	1.8	0.7	0.9	1.1	1.3	1.8
	6H	0.6	0.8	1.1	1.2	1.7	0.6	0.8	1.1	1.2	1.7
	8H	0.5	0.7	1.0	1.2	1.7	0.5	0.7	1.0	1.2	1.7

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