Laser Blade

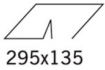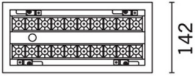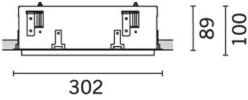**Design iGuzzini**   **iGuzzini**

Last information update: April 2025

Product configuration: MQ34
MQ34: Adjustable 2 x 10 - cell Recessed frame - LED - Warm white - DALI dimmable power supply - WideFlood Beam

Product code
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Technical description
Recessed rectangular luminaire with LEDs. Shaped steel sheet structural compartment with outer rim. The two linear elements with 10 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 295

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

Weight (Kg)
2.8

* Colours on request

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

Technical data

lm system:	3402	MacAdam Step:	3
W system:	44.3	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
lm source:	2100	Lamp code:	LED
W source:	20	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	76.8	ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	2
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	81	Inrush current:	10 A / 200 µs
Beam angle [°]:	47° / 46°	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 18 luminaires B16A: 30 luminaires C10A: 31 luminaires C16A: 51 luminaires
CRI (minimum):	90		
CRI (typical):	92	Minimum dimming %:	1
Colour temperature [K]:	3000	Overvoltage protection:	4kV Common mode & 4kV Differential mode
		Control:	DALI-2

Polar

Imax=3256 cd

α=47° / 46°

CIE
nL 0.81
100-100-100-100-81
UGR <10-<10
DIN
A.61
UTE
0.81A+0.00T
F"1=1000
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

Lux			
h	d	Em	Emax
2	1.7	662	814
4	3.5	166	204
6	5.2	74	90
8	7	41	51

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	70	67	65	69	66	66	64	78
1.0	76	73	71	69	72	70	70	67	83
1.5	80	78	76	74	77	75	74	72	89
2.0	83	81	79	78	80	78	78	75	93
2.5	84	83	82	81	82	81	80	78	96
3.0	85	84	83	83	83	82	81	79	98
4.0	86	85	85	84	84	84	82	81	99
5.0	87	86	86	86	85	84	83	81	100

UGR diagram

Corrected UGR values (at 2100 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	0.6	1.0	0.8	1.3	1.5	0.6	1.0	0.8	1.3	1.5
	3H	0.4	0.9	0.7	1.1	1.4	0.4	0.9	0.7	1.1	1.4
	4H	0.4	0.8	0.7	1.0	1.3	0.4	0.8	0.7	1.0	1.3
	6H	0.3	0.7	0.6	1.0	1.3	0.3	0.7	0.6	1.0	1.3
	8H	0.2	0.6	0.6	0.9	1.3	0.2	0.6	0.6	0.9	1.3
	12H	0.2	0.6	0.6	0.9	1.2	0.2	0.6	0.6	0.9	1.2
4H	2H	0.4	0.8	0.7	1.0	1.3	0.4	0.8	0.7	1.0	1.3
	3H	0.2	0.6	0.6	0.9	1.2	0.2	0.6	0.6	0.9	1.2
	4H	0.1	0.4	0.5	0.8	1.2	0.1	0.4	0.5	0.8	1.2
	6H	0.0	0.3	0.5	0.7	1.1	0.0	0.3	0.5	0.7	1.1
	8H	-0.0	0.2	0.4	0.6	1.1	-0.0	0.2	0.4	0.6	1.1
	12H	-0.1	0.2	0.4	0.6	1.0	-0.1	0.2	0.4	0.6	1.0
8H	4H	-0.0	0.2	0.4	0.6	1.1	-0.0	0.2	0.4	0.6	1.1
	6H	-0.1	0.1	0.4	0.5	1.0	-0.1	0.1	0.4	0.5	1.0
	8H	-0.2	0.0	0.3	0.5	1.0	-0.2	0.0	0.3	0.5	1.0
	12H	-0.2	-0.1	0.3	0.4	0.9	-0.2	-0.1	0.3	0.4	0.9
12H	4H	-0.1	0.2	0.4	0.6	1.0	-0.1	0.2	0.4	0.6	1.0
	6H	-0.2	0.0	0.3	0.5	1.0	-0.2	0.0	0.3	0.5	1.0
	8H	-0.2	-0.1	0.3	0.4	0.9	-0.2	-0.1	0.3	0.4	0.9

Variations with the observer position at spacing:

S =				
1.0H		6.8 / -21.9	6.8 / -21.9
1.5H		9.7 / -22.0	9.7 / -22.0
2.0H		11.7 / -22.2	11.7 / -22.2