

Laser Blade

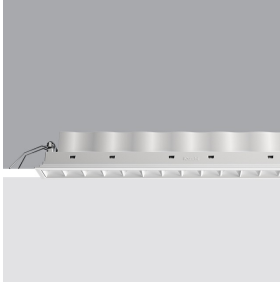
Design iGuzzini

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Last information update: March 2025

Product configuration: MK55.01

MK55.01: 15 - cell Recessed luminaire - LED - Neutral white Flood optic - 33W 2529.4lm - 4000K - CRI 95 - White



Product code

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Technical description

rectangular miniaturised recessed luminaire with 15 optical elements with LED lamps - fixed optics - flood beam angle. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. 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 electronic control gear connected to the luminaire. Neutral white high colour rendering LED.

Installation

recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 406

Colour

White (01)

Weight (Kg)

0.86

Mounting

wall recessed/ceiling recessed

Wiring

on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations



Technical data

lm system:	2529	CRI (typical):	97
W system:	33	Colour temperature [K]:	4000
lm source:	3050	MacAdam Step:	3
W source:	29	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	76.6	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	83	Number of optical assemblies:	1
Beam angle [°]:	48°	Control:	DALI-2
CRI (minimum):	95		

Polar

<p>Imax=4480 cd 90° 180° 90° 5000 0° α=48°</p>	<p>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<1500 cd/m² at 65° UGR<10 L<1500 cd/mq @65°</p>	Lux			
		h	d	Em	Emax
		2	1.8	938	1117
		4	3.6	234	279
		6	5.4	104	124
		8	7.1	59	70

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 3050 lm bare lamp luminous flux)											
Riflect.:											
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					viewed				
x	y	crosswise					endwise				
2H	2H	2.0	2.5	2.3	2.7	3.0	2.0	2.5	2.3	2.7	3.0
	3H	1.9	2.3	2.2	2.6	2.9	1.9	2.3	2.2	2.6	2.9
	4H	1.8	2.2	2.2	2.5	2.8	1.8	2.2	2.2	2.5	2.8
	6H	1.8	2.1	2.1	2.5	2.8	1.8	2.1	2.1	2.4	2.8
	8H	1.7	2.1	2.1	2.4	2.7	1.7	2.1	2.1	2.4	2.7
	12H	1.7	2.0	2.1	2.4	2.7	1.7	2.0	2.1	2.4	2.7
4H	2H	1.8	2.2	2.2	2.5	2.8	1.8	2.2	2.2	2.5	2.8
	3H	1.7	2.0	2.1	2.4	2.7	1.7	2.0	2.1	2.4	2.7
	4H	1.6	1.9	2.0	2.3	2.7	1.6	1.9	2.0	2.3	2.7
	6H	1.5	1.8	1.9	2.2	2.6	1.5	1.8	1.9	2.2	2.6
	8H	1.5	1.7	1.9	2.1	2.6	1.5	1.7	1.9	2.1	2.6
	12H	1.4	1.6	1.9	2.1	2.5	1.4	1.6	1.9	2.1	2.5
8H	4H	1.5	1.7	1.9	2.1	2.6	1.5	1.7	1.9	2.1	2.6
	6H	1.4	1.6	1.8	2.0	2.5	1.4	1.6	1.8	2.0	2.5
	8H	1.3	1.5	1.8	2.0	2.5	1.3	1.5	1.8	2.0	2.5
	12H	1.3	1.4	1.8	1.9	2.4	1.3	1.4	1.8	1.9	2.4
12H	4H	1.4	1.6	1.9	2.1	2.5	1.4	1.6	1.9	2.1	2.5
	6H	1.3	1.5	1.8	2.0	2.5	1.3	1.5	1.8	2.0	2.5
	8H	1.3	1.4	1.8	1.9	2.4	1.3	1.4	1.8	1.9	2.4
Variations with the observer position at spacing:											
S =		0.9 / -18.0					0.9 / -18.0				
		9.7 / -18.3					9.7 / -18.3				
		11.7 / -18.4					11.7 / -18.4				