

Laser Blade

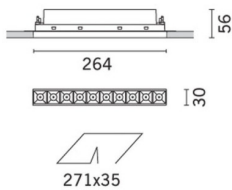
Design iGuzzini

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Last information update: May 2024

Product configuration: MK41

MK41: 10 - cell Frameless Recessed luminaire - LED - Warm white Flood optic



Product code

MK41: 10 - cell Frameless Recessed luminaire - LED - Warm white Flood optic **Attention! Code no longer in production**

Technical description

rectangular miniaturised recessed luminaire with 10 optical elements with LED lamps - fixed optics - flood beam angle. Main body with die-cast aluminium radiant surface, minimal (frameless) version for mounting flush with the ceiling. 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. Warm white LED.

Installation

recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter fixed to false ceiling (12.5 mm thick) with self-tapping screws; subsequent filling and smoothing operations; insertion of luminaire body and aesthetic finishing. Preparation hole 35 x 271

Colour

Grey / Black (74) | White (01) | Black (04)

Weight (Kg)

0.73

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:	1659	CRI:	90
W system:	23.5	Colour temperature [K]:	3000
lm source:	2000	MacAdam Step:	3
W source:	20	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	70.6	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

Polar

<p>Imax=2703 cd 90° 180° 90° 3000 0° α = 48°</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°				Lux			
	h	d	Em	Emax				
	2	1.8	566	674				
	4	3.6	141	169				
	6	5.3	63	75				
	8	7.1	35	42				

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 1840 lm bare lamp luminous flux)											
Riflect.:		viewed crosswise					viewed endwise				
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 crosswise					viewed endwise				
x	y										
2H	2H	1.4	1.9	1.7	2.1	2.4	1.4	1.9	1.7	2.1	2.4
	3H	1.3	1.7	1.6	2.0	2.3	1.3	1.7	1.6	2.0	2.3
	4H	1.2	1.7	1.6	1.9	2.2	1.2	1.7	1.6	1.9	2.2
	6H	1.2	1.5	1.5	1.9	2.2	1.2	1.5	1.5	1.9	2.2
	8H	1.1	1.5	1.5	1.8	2.2	1.1	1.5	1.5	1.8	2.1
	12H	1.1	1.4	1.5	1.8	2.1	1.1	1.4	1.5	1.8	2.1
4H	2H	1.2	1.7	1.6	1.9	2.2	1.2	1.7	1.6	1.9	2.2
	3H	1.1	1.4	1.5	1.8	2.1	1.1	1.4	1.5	1.8	2.1
	4H	1.0	1.3	1.4	1.7	2.1	1.0	1.3	1.4	1.7	2.1
	6H	0.9	1.2	1.3	1.6	2.0	0.9	1.2	1.3	1.6	2.0
	8H	0.9	1.1	1.3	1.5	2.0	0.9	1.1	1.3	1.5	2.0
	12H	0.8	1.0	1.3	1.5	1.9	0.8	1.0	1.3	1.5	1.9
8H	4H	0.9	1.1	1.3	1.5	2.0	0.9	1.1	1.3	1.5	2.0
	6H	0.8	1.0	1.2	1.4	1.9	0.8	1.0	1.2	1.4	1.9
	8H	0.7	0.9	1.2	1.4	1.9	0.7	0.9	1.2	1.4	1.9
	12H	0.7	0.8	1.2	1.3	1.8	0.7	0.8	1.2	1.3	1.8
12H	4H	0.8	1.0	1.3	1.5	1.9	0.8	1.0	1.3	1.5	1.9
	6H	0.7	0.9	1.2	1.4	1.9	0.7	0.9	1.2	1.4	1.9
	8H	0.7	0.8	1.2	1.3	1.8	0.7	0.8	1.2	1.3	1.8
Variations with the observer position at spacing:											
S =		1.0H	0.9 / -18.0				0.9 / -18.0				
		1.5H	9.7 / -18.3				9.7 / -18.3				
		2.0H	11.7 / -18.4				11.7 / -18.4				