

Laser Blade

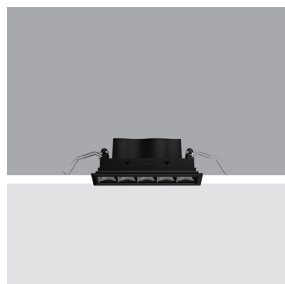
Design iGuzzini

iGuzzini

Last information update: May 2025

Product configuration: EK55.43

EK55.43: 5 - cell Recessed luminaire - LED - Warm white - Incorporated DALI dimmable power supply - Wide Flood optic - 12.7W
850.5lm - 2700K - CRI 90 - Black / Black



Product code

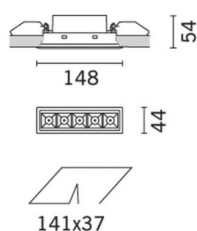
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Technical description

rectangular miniaturised recessed luminaire with 5 optical elements with LED lamps - fixed optics - wide 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. Warm white high colour rendering LED

Installation

recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 141



Colour

Black / Black (43)

Weight (Kg)

0.3

Mounting

wall recessed|ceiling recessed

Wiring

on control gear box; screw connections with terminal block included

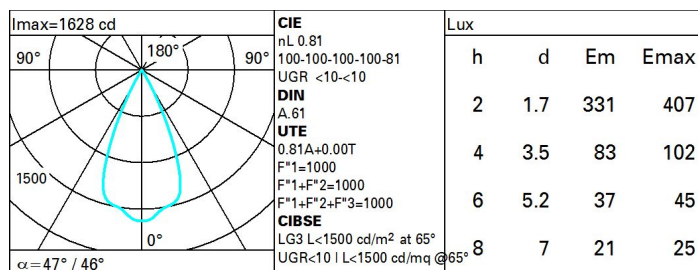
Complies with EN60598-1 and pertinent regulations



Technical data

Im system:	851	CRI (typical):	92
W system:	12.7	Colour temperature [K]:	2700
Im source:	1050	MacAdam Step:	3
W source:	9.9	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	67	Lamp code:	LED
Im 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.) [%]:	81	Number of optical assemblies:	1
Beam angle [°]:	47° / 46°	Control:	DALI-2
CRI (minimum):	90		

Polar



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 1050 lm bare lamp luminous flux)											
Reflect.:		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											
x	y										
2H	2H	0.6	1.1	0.9	1.3	1.5	0.6	1.1	0.9	1.3	1.5
	3H	0.5	0.9	0.8	1.2	1.4	0.5	0.9	0.8	1.2	1.4
	4H	0.4	0.8	0.7	1.1	1.4	0.4	0.8	0.7	1.1	1.4
	6H	0.3	0.7	0.7	1.0	1.3	0.3	0.7	0.7	1.0	1.3
	8H	0.3	0.6	0.6	1.0	1.3	0.3	0.6	0.6	1.0	1.3
	12H	0.3	0.6	0.6	0.9	1.3	0.3	0.6	0.6	0.9	1.3
4H	2H	0.4	0.8	0.7	1.1	1.4	0.4	0.8	0.7	1.1	1.4
	3H	0.3	0.6	0.6	0.9	1.3	0.3	0.6	0.6	0.9	1.3
	4H	0.2	0.5	0.6	0.8	1.2	0.2	0.5	0.6	0.8	1.2
	6H	0.1	0.3	0.5	0.7	1.1	0.1	0.3	0.5	0.7	1.1
	8H	0.0	0.3	0.5	0.7	1.1	0.0	0.3	0.5	0.7	1.1
	12H	-0.0	0.2	0.4	0.6	1.1	-0.0	0.2	0.4	0.6	1.1
8H	4H	0.0	0.3	0.5	0.7	1.1	0.0	0.3	0.5	0.7	1.1
	6H	-0.1	0.1	0.4	0.6	1.0	-0.1	0.1	0.4	0.6	1.0
	8H	-0.1	0.0	0.4	0.5	1.0	-0.1	0.0	0.4	0.5	1.0
	12H	-0.2	-0.0	0.3	0.5	1.0	-0.2	-0.0	0.3	0.5	1.0
12H	4H	-0.0	0.2	0.4	0.6	1.1	-0.0	0.2	0.4	0.6	1.1
	6H	-0.1	0.0	0.4	0.5	1.0	-0.1	0.0	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
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		