

Laser Blade

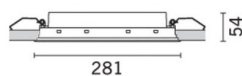
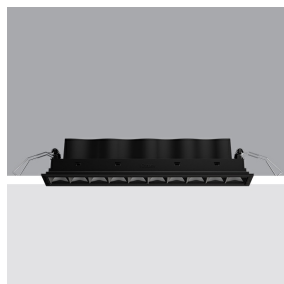
iGuzzini

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Last information update: March 2025

Product configuration: MK53.43
MK53.43: 10 - cell Recessed luminaire - LED - Warm white flood- DALI - Black/Black

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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, 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 LED.

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Installation
recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 274

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Weight (Kg)
0.6

Mounting
wall recessed|ceiling recessed

mounting
wall recessed|ceiling recessed

Wiring
on control gear box with quick-coupling connections

on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations



IP20

IP23

On the visible part of
the product once installed

UK
CA

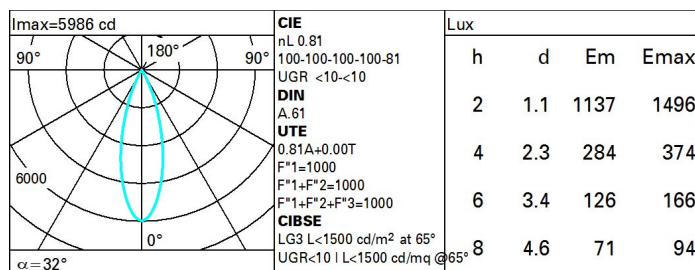
EAC

PEP
eco
PASS
PORT.

Technical data			
lm system:	1782	CRI (typical):	92
W system:	23.4	Colour temperature [K]:	3000
lm source:	2200	MacAdam Step:	3
W source:	20	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	76.2	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.) [%]:	81	Number of optical assemblies:	1
Beam angle [°]:	32°	Control:	DALI-2
CRI (minimum):	90		

Im system:	1782	CRI (typical):	92
W system:	23.4	Colour temperature [K]:	3000
Im source:	2200	MacAdam Step:	3
W source:	20	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (Im/W, real value):	76.2	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 [°]:	32°	Control:	DALI-2
CRI (minimum):	90		

Polar		Lux			
Imax =5986 cd 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	E _{max}
$\alpha = 32^\circ$		2	1.1	1137	1496
		4	2.3	284	374
		6	3.4	126	166
		8	4.6	71	94



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 2200 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	-7.8	-7.3	-7.6	-7.1	-6.9	-7.8	-7.3	-7.6	-7.1	-6.9
	3H	-8.0	-7.5	-7.7	-7.2	-7.0	-8.0	-7.5	-7.7	-7.2	-7.0
	4H	-8.0	-7.6	-7.7	-7.3	-7.0	-8.0	-7.6	-7.7	-7.3	-7.0
	6H	-8.1	-7.7	-7.8	-7.4	-7.1	-8.1	-7.7	-7.8	-7.4	-7.1
	8H	-8.1	-7.8	-7.8	-7.4	-7.1	-8.2	-7.8	-7.8	-7.5	-7.1
	12H	-8.2	-7.8	-7.8	-7.5	-7.1	-8.2	-7.8	-7.8	-7.5	-7.1
4H	2H	-8.0	-7.6	-7.7	-7.3	-7.0	-8.0	-7.6	-7.7	-7.3	-7.0
	3H	-8.2	-7.8	-7.8	-7.5	-7.1	-8.2	-7.8	-7.8	-7.5	-7.1
	4H	-8.3	-8.0	-7.9	-7.6	-7.2	-8.3	-8.0	-7.9	-7.6	-7.2
	6H	-8.4	-8.1	-7.9	-7.7	-7.3	-8.4	-8.1	-8.0	-7.7	-7.3
	8H	-8.4	-8.1	-8.0	-7.7	-7.3	-8.4	-8.2	-8.0	-7.7	-7.3
	12H	-8.4	-8.2	-8.0	-7.8	-7.3	-8.5	-8.2	-8.0	-7.8	-7.3
8H	4H	-8.4	-8.2	-8.0	-7.7	-7.3	-8.4	-8.1	-8.0	-7.7	-7.3
	6H	-8.5	-8.3	-8.0	-7.8	-7.4	-8.5	-8.3	-8.0	-7.8	-7.3
	8H	-8.5	-8.3	-8.1	-7.9	-7.4	-8.5	-8.3	-8.1	-7.9	-7.4
	12H	-8.6	-8.4	-8.0	-7.9	-7.4	-8.6	-8.4	-8.1	-7.9	-7.4
12H	4H	-8.5	-8.2	-8.0	-7.8	-7.3	-8.4	-8.2	-8.0	-7.8	-7.3
	6H	-8.6	-8.4	-8.1	-7.9	-7.4	-8.5	-8.3	-8.0	-7.9	-7.4
	8H	-8.6	-8.4	-8.1	-7.9	-7.4	-8.6	-8.4	-8.0	-7.9	-7.4
Variations with the observer position at spacing:											
S =		6.7 / -11.6					6.7 / -11.6				
		9.6 / -12.2					9.6 / -12.2				
		11.5 / -12.6					11.5 / -12.6				