

Laser Blade

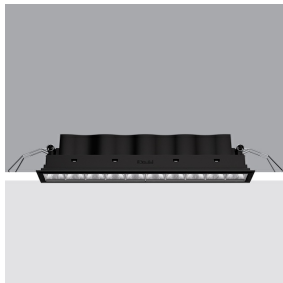
Design iGuzzini

iGuzzini

Last information update: March 2025

Product configuration: EK99.83

EK99.83: 10 - cell Recessed luminaire - LED - Warm white - Incorporated DALI dimmable power supply Wide - Flood optic - Transparent/Black



Product code

EK99.83: 10 - cell Recessed luminaire - LED - Warm white - Incorporated DALI dimmable power supply Wide - Flood optic - Transparent/Black

Technical description

rectangular miniaturised recessed luminaire with 10 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 274

Colour

Black Transparent (83)

Weight (Kg)

0.65

Mounting

wall recessed|ceiling recessed

Wiring

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



Technical data

lm system:	1701	CRI (typical):	92
W system:	23.2	Colour temperature [K]:	2700
lm source:	2100	MacAdam Step:	3
W source:	20	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	73.3	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 [°]:	46°	Control:	DALI-2
CRI (minimum):	90		

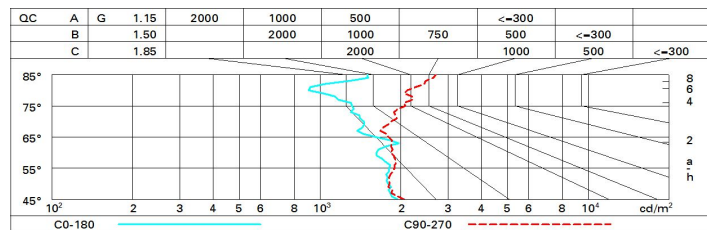
Polar

<p>Imax=3140 cd C90-270 90° 180° 90° 3000 0° α=47°</p>	<p>CIE nL 0.81 97-99-100-100-81 UGR <10-10.2 DIN A.61 UTE 0.81A+0.00T F*1=975 F*1+F*2=993 F*1+F*2+F*3=999 CIBSE LG3 L<3000 cd/m² at 65° UGR<16 L<3000 cd/mq @65°</p>	Lux				
		h	d1	d2	Em	E _{max}
		2	1.7	1.7	652	785
		4	3.4	3.4	163	196
		6	5.2	5.1	72	87
		8	6.9	6.8	41	49

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	68	66	63	68	65	65	62	77
1.0	76	72	69	68	71	69	69	66	81
1.5	80	77	75	73	76	74	73	71	87
2.0	82	80	79	77	79	78	77	74	92
2.5	84	82	81	80	81	80	79	77	95
3.0	85	84	83	82	82	82	81	79	97
4.0	86	85	84	84	84	83	82	80	99
5.0	86	86	85	85	84	84	83	81	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 2100 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	8.6	9.0	8.8	9.3	9.5	9.3	9.8	9.6	10.0	10.3
	3H	8.7	9.2	9.0	9.4	9.7	9.3	9.8	9.6	10.1	10.3
	4H	8.8	9.2	9.1	9.5	9.8	9.3	9.8	9.7	10.1	10.3
	6H	8.8	9.2	9.2	9.5	9.9	9.3	9.7	9.6	10.0	10.3
	8H	8.9	9.2	9.2	9.5	9.9	9.3	9.6	9.6	10.0	10.3
	12H	8.9	9.2	9.2	9.6	9.9	9.2	9.6	9.6	9.9	10.3
4H	2H	8.7	9.1	9.0	9.4	9.7	9.8	10.2	10.1	10.5	10.8
	3H	9.0	9.3	9.3	9.6	10.0	10.1	10.4	10.4	10.8	11.1
	4H	9.1	9.4	9.5	9.8	10.2	10.2	10.5	10.6	10.8	11.2
	6H	9.2	9.5	9.6	9.9	10.3	10.2	10.5	10.6	10.9	11.3
	8H	9.2	9.5	9.7	9.9	10.3	10.2	10.4	10.6	10.9	11.3
	12H	9.3	9.5	9.7	9.9	10.4	10.1	10.4	10.6	10.8	11.3
8H	4H	9.2	9.5	9.6	9.9	10.3	10.6	10.9	11.0	11.3	11.7
	6H	9.4	9.6	9.8	10.0	10.5	10.8	11.0	11.3	11.4	11.9
	8H	9.4	9.6	9.9	10.1	10.6	10.8	11.0	11.3	11.5	12.0
	12H	9.5	9.7	10.0	10.1	10.7	10.8	11.0	11.3	11.5	12.0
12H	4H	9.2	9.4	9.7	9.9	10.3	10.8	11.0	11.2	11.4	11.9
	6H	9.4	9.6	9.9	10.0	10.5	11.0	11.2	11.5	11.7	12.2
	8H	9.4	9.6	9.9	10.1	10.6	11.1	11.3	11.6	11.8	12.3
Variations with the observer position at spacing:											
S =	1.0H	2.5 / -2.4					1.7 / -1.7				
	1.5H	4.1 / -2.7					3.0 / -2.0				
	2.0H	5.8 / -3.5					4.5 / -2.4				