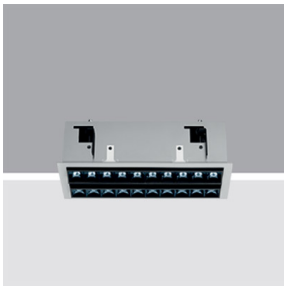
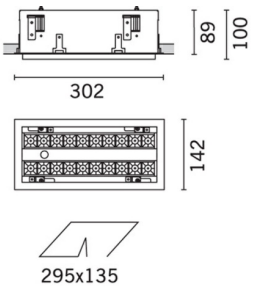
Laser Blade

Design iGuzzini **iGuzzini**

Last information update: April 2025

Product configuration: EK97
EK97: Adjustable 2 x 10 - cell Recessed frame - LED Neutral white - DALI dimmable power supply - WideFlood Beam





Product code
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Technical description
Recessed rectangular luminaire with LEDs. Shaped steel sheet structural compartment with outer rim. The two linear elements with 10 lighting cells, in die-cast aluminium and independently adjustable, can be used to direct the emission with a tilting adjustability of +/- 30°. 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 control gear connected to the luminaire. LED weiß Neutral mit hoher Effizienzklasse (lm/W).

Installation
recessed with mechanical blocking system for false ceilings from 1 to 25 mm; can be installed on cealings and walls (vertical + horizontal) - preparation slot 135 x 295

Colour
Black / Black (43) | Black / White (47) | Grey / Black (74)*

Weight (Kg)
2.8

* Colours on request

Mounting
wall recessed|ceiling recessed

Wiring
on power box: screw connections

Notes
dimming function with pushbutton (TOUCH DIM/PUSH): for this option consult the instructions included in the package

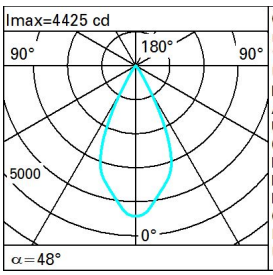
Complies with EN60598-1 and pertinent regulations

IP20

Technical data

lm system:	4930	CRI (typical):	82
W system:	44.3	Colour temperature [K]:	4000
lm source:	2900	MacAdam Step:	3
W source:	20	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	111.3	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.) [%]:	85	Number of optical assemblies:	2
Beam angle [°]:	48°	Control:	DALI-2
CRI (minimum):	80		

Polar



CIE
nL 0.85
100-100-100-100-85
UGR 11.3-11.3
DIN
A.61
UTE
0.85A+0.00T
F"1=995
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<16 I L<1500 cd/mq @65°

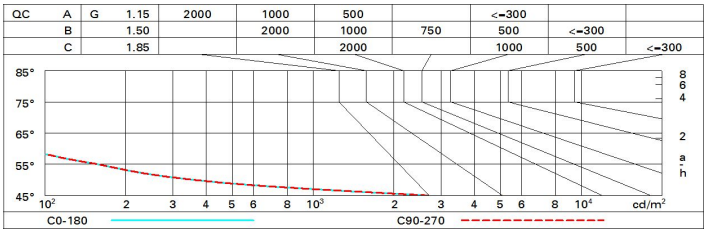
Lux

h	d	Em	Emax
2	1.8	841	1106
4	3.6	210	277
6	5.3	93	123
8	7.1	53	69

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	77	73	70	68	72	70	69	66	78
1.0	80	77	74	72	76	73	73	70	83
1.5	84	81	79	78	80	79	78	75	88
2.0	87	85	83	82	84	82	81	79	93
2.5	88	87	86	85	86	84	84	81	96
3.0	89	88	87	87	87	86	85	83	98
4.0	90	90	89	88	88	88	86	84	99
5.0	91	90	90	90	89	89	87	85	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 2900 lm bare lamp luminous flux)

Riflect.: ceil/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	11.9	12.4	12.1	12.6	12.9	11.9	12.4	12.1	12.6	12.9
	3H	11.7	12.2	12.0	12.5	12.8	11.7	12.2	12.0	12.5	12.8
	4H	11.7	12.1	12.0	12.4	12.7	11.7	12.1	12.0	12.4	12.7
	6H	11.6	12.0	11.9	12.3	12.6	11.6	12.0	11.9	12.3	12.6
	8H	11.6	11.9	11.9	12.3	12.6	11.6	11.9	11.9	12.3	12.6
	12H	11.5	11.9	11.9	12.2	12.6	11.5	11.9	11.9	12.2	12.6
4H	2H	11.7	12.1	12.0	12.4	12.7	11.7	12.1	12.0	12.4	12.7
	3H	11.5	11.9	11.9	12.2	12.6	11.5	11.9	11.9	12.2	12.6
	4H	11.4	11.8	11.8	12.1	12.5	11.4	11.8	11.8	12.1	12.5
	6H	11.3	11.6	11.8	12.0	12.4	11.3	11.6	11.8	12.0	12.4
	8H	11.3	11.6	11.7	12.0	12.4	11.3	11.6	11.7	12.0	12.4
	12H	11.2	11.5	11.7	11.9	12.4	11.2	11.5	11.7	11.9	12.4
8H	4H	11.3	11.6	11.7	12.0	12.4	11.3	11.6	11.7	12.0	12.4
	6H	11.2	11.4	11.7	11.9	12.3	11.2	11.4	11.7	11.9	12.3
	8H	11.1	11.3	11.6	11.8	12.3	11.1	11.3	11.6	11.8	12.3
	12H	11.1	11.2	11.6	11.7	12.3	11.1	11.2	11.6	11.7	12.3
12H	4H	11.2	11.5	11.7	11.9	12.4	11.2	11.5	11.7	11.9	12.4
	6H	11.1	11.3	11.6	11.8	12.3	11.1	11.3	11.6	11.8	12.3
	8H	11.1	11.2	11.6	11.7	12.3	11.1	11.2	11.6	11.7	12.3

Variations with the observer position at spacing:

S =			
	1.0H	5.9 / -29.1	5.9 / -29.1
	1.5H	8.7 / -38.7	8.7 / -38.7
	2.0H	10.7 / -48.4	10.7 / -48.4