Laser Blade

Design iGuzzini **iGuzzini**

Last information update: March 2025

Product configuration: R616
R616: Frame recessed luminaire - 10 cells - General Lighting Pro - DALI

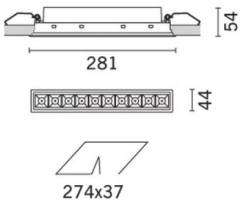
Product code
R616: Frame recessed luminaire - 10 cells - General Lighting Pro - DALI

Technical description
Rectangular recessed luminaire with 10 optical elements for LED lamps - fixed optics with metallised thermoplastic high definition Opti-Beam reflectors, integrated in a set-back position in the anti-glare screen. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. The total white finish and the patented technology of the optic system guarantee an even and efficient luminous flux optimised by a special diffuser screen that reduces direct glare significantly. Supplied with DALI dimmable electronic control gear connected to the luminaire.

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

Colour
White (01)

Weight (Kg)
0.65



Mounting
wall recessed|ceiling recessed

Wiring
On control gear box with quick-coupling connections.

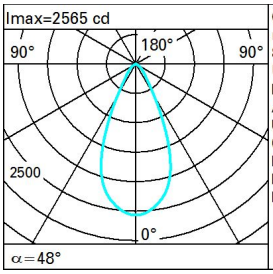
Complies with EN60598-1 and pertinent regulations

IP20 IP23

Technical data

lm system:	1800	CRI (typical):	92
W system:	23.2	Colour temperature [K]:	4000
lm source:	2400	MacAdam Step:	3
W source:	20	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	77.6	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.) [%]:	75	Number of optical assemblies:	1
CRI (minimum):	90	Control:	DALI-2

Polar



CIE
nL 0.75
88-98-100-100-75
UGR 19.3-19.2
DIN
A.61
UTE
0.75A+0.00T
F"1=881
F"1+F"2=980
F"1+F"2+F"3=996

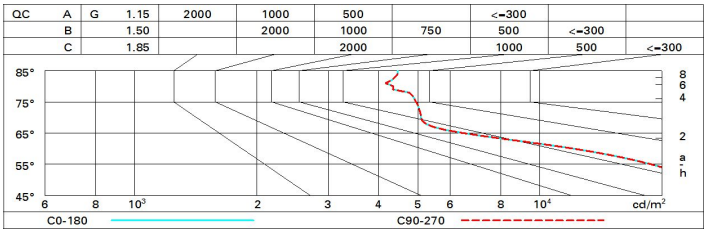
Lux

h	d	Em	Emax
2	1.8	497	641
4	3.6	124	160
6	5.3	55	71
8	7.1	31	40

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	64	59	56	54	58	56	55	52	70
1.0	67	63	60	58	62	60	59	56	75
1.5	72	69	66	64	68	66	65	62	83
2.0	75	72	70	69	71	70	69	66	88
2.5	76	74	73	72	73	72	71	69	92
3.0	77	76	75	74	75	74	73	71	94
4.0	79	77	77	76	76	75	74	72	96
5.0	79	78	78	77	77	76	75	73	97

Luminance curve limit



UGR diagram

Corrected UGR values (at 2400 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	19.2	19.9	19.5	20.1	20.3	19.2	19.9	19.5	20.1	20.3
	3H	19.2	19.8	19.5	20.1	20.4	19.2	19.8	19.5	20.1	20.4
	4H	19.2	19.8	19.5	20.1	20.4	19.2	19.8	19.5	20.0	20.3
	6H	19.2	19.7	19.6	20.1	20.4	19.1	19.6	19.5	20.0	20.3
	8H	19.2	19.7	19.6	20.0	20.4	19.1	19.6	19.5	19.9	20.3
	12H	19.2	19.7	19.6	20.0	20.4	19.1	19.5	19.4	19.9	20.2
4H	2H	19.2	19.8	19.5	20.0	20.3	19.2	19.8	19.5	20.1	20.4
	3H	19.3	19.7	19.6	20.1	20.4	19.3	19.8	19.7	20.1	20.5
	4H	19.3	19.7	19.7	20.1	20.5	19.3	19.7	19.7	20.1	20.5
	6H	19.3	19.7	19.8	20.1	20.5	19.3	19.6	19.7	20.0	20.5
	8H	19.3	19.7	19.8	20.1	20.5	19.2	19.6	19.7	20.0	20.4
	12H	19.3	19.6	19.8	20.1	20.5	19.2	19.5	19.7	19.9	20.4
8H	4H	19.2	19.6	19.7	20.0	20.4	19.3	19.7	19.8	20.1	20.5
	6H	19.3	19.6	19.8	20.0	20.5	19.3	19.6	19.8	20.1	20.6
	8H	19.3	19.6	19.8	20.0	20.5	19.3	19.6	19.8	20.0	20.5
	12H	19.4	19.6	19.9	20.1	20.6	19.3	19.5	19.8	20.0	20.5
12H	4H	19.2	19.5	19.7	19.9	20.4	19.3	19.6	19.8	20.1	20.5
	6H	19.3	19.5	19.8	20.0	20.5	19.4	19.6	19.8	20.1	20.6
	8H	19.3	19.5	19.8	20.0	20.5	19.4	19.6	19.9	20.1	20.6

Variations with the observer position at spacing:

S =			
	1.0H	1.4 / -1.5	1.4 / -1.5
	1.5H	3.1 / -3.7	3.1 / -3.7
	2.0H	4.8 / -4.9	4.8 / -4.9