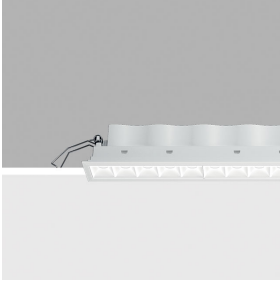


Last information update: March 2025

**Product configuration: RB83**

RB83: Frame recessed luminaire - 15 cells - General Lighting Pro - DALI



**Product code**

RB83: Frame recessed luminaire - 15 cells - General Lighting Pro - DALI

**Technical description**

Rectangular recessed luminaire with 15 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 406.

**Colour**  
White (01)

**Weight (Kg)**  
0.86

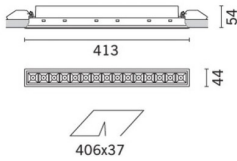
**Mounting**

wall recessed|ceiling recessed

**Wiring**

On control gear box with quick-coupling connections.

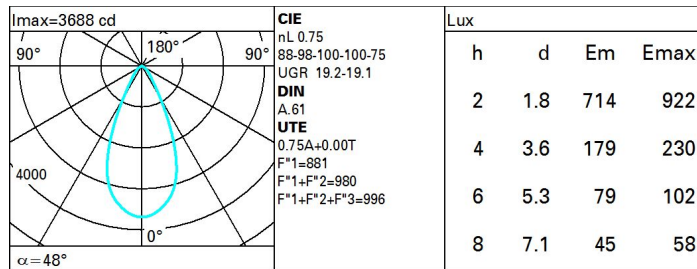
Complies with EN60598-1 and pertinent regulations



**Technical data**

lm system:	2588	CRI (typical):	92
W system:	33.5	Colour temperature [K]:	3500
lm source:	3450	MacAdam Step:	3
W source:	30	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	77.2	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.) [%]:	75	Number of optical assemblies:	1
CRI (minimum):	90	Control:	DALI-2

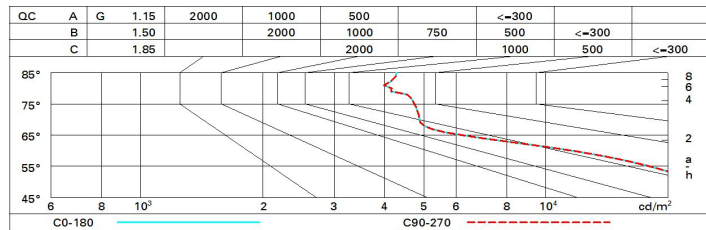
**Polar**



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 3450 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		viewed crosswise					viewed endwise				
x	y										
2H	2H	19.0	19.7	19.3	19.9	20.2	19.0	19.7	19.3	19.9	20.2
	3H	19.0	19.7	19.4	19.9	20.2	19.1	19.7	19.4	20.0	20.2
	4H	19.1	19.6	19.4	19.9	20.2	19.0	19.6	19.4	19.9	20.2
	6H	19.1	19.6	19.4	19.9	20.2	19.0	19.5	19.3	19.8	20.1
	8H	19.1	19.6	19.4	19.9	20.2	18.9	19.4	19.3	19.8	20.1
12H	19.0	19.5	19.4	19.9	20.2	18.9	19.4	19.3	19.7	20.1	
4H	2H	19.0	19.6	19.4	19.9	20.2	19.1	19.6	19.4	19.9	20.2
	3H	19.1	19.6	19.5	19.9	20.3	19.2	19.6	19.5	20.0	20.3
	4H	19.1	19.6	19.5	19.9	20.3	19.1	19.6	19.5	19.9	20.3
	6H	19.2	19.6	19.6	19.9	20.4	19.1	19.5	19.5	19.9	20.3
	8H	19.2	19.5	19.6	19.9	20.4	19.1	19.4	19.5	19.8	20.3
12H	19.2	19.5	19.6	19.9	20.4	19.0	19.4	19.5	19.8	20.2	
8H	4H	19.1	19.4	19.5	19.8	20.3	19.2	19.5	19.6	19.9	20.4
	6H	19.2	19.4	19.6	19.9	20.4	19.2	19.5	19.7	19.9	20.4
	8H	19.2	19.4	19.7	19.9	20.4	19.2	19.4	19.7	19.9	20.4
	12H	19.2	19.4	19.7	19.9	20.4	19.2	19.4	19.7	19.9	20.4
12H	4H	19.0	19.4	19.5	19.8	20.2	19.2	19.5	19.6	19.9	20.4
	6H	19.1	19.4	19.6	19.8	20.3	19.2	19.5	19.7	19.9	20.4
	8H	19.2	19.4	19.7	19.9	20.4	19.2	19.4	19.7	19.9	20.4
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				