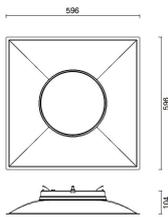


Last information update: May 2025

**Product configuration: RE81**

RE81: 596X596 - Sound-absorbent - tunable white - MPO screen UGR<19 - DALI



**Product code**

RE81: 596X596 - Sound-absorbent - tunable white - MPO screen UGR<19 - DALI

**Technical description**

596x596 mm luminaire for pendant installation or surface-mounted on a modular grille - LED lamp with high colour rendering index; 2700K-6500K tunable white colour tone emission. Body made of thermal insulating, sound-absorbent, 85% recycled polyester fibre material. OEKO-TEX certified, standard 100, class I, hypoallergenic, skin contact safe product. Waterproof, breathable, non putrescible panel. Product with high efficiency LED complete with MPO screen for UGR<19 L<3000 cd/mq  $\alpha > 65^\circ$  emission, for use in environments with video monitors in compliance with EN 12464-1. The DALI driver is free to be placed inside the the installation compartment as shown on the instruction sheet. Option of recessed installation in plasterboard ceilings using a frame to be ordered as an accessory. The product can be pendant-mounted using accessories to be ordered separately.

**Installation**

Surface-mounted on 600x600 mm modular panels. Recessed in plasterboard false ceilings using a frame accessory to be ordered separately. Pendant-mounted using accessories to be ordered separately.

**Colour**

White (01) | Grey (15) | Blue (16) | Light green (81)

**Weight (Kg)**

1.9

**Wiring**

Product complete with DALI components. The electrical cables used are made of a "halogen free" material. (This means that the cables do not contain any halogen materials that in the event of a fire do not emit toxic or corrosive gases and only a small quantity of opaque fumes).

**Notes**

See graph for acoustic calculation in Documentation Other colours and customised features are available on request. TPb rated

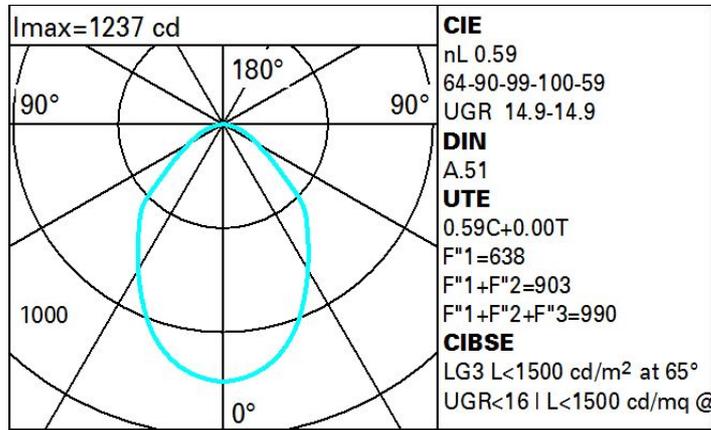
Complies with EN60598-1 and pertinent regulations



**Technical data**

Im system:	2124	Voltage [Vin]:	230
W system:	25.8	Lamp code:	LED
Im source:	3600	Number of lamps for optical assembly:	1
W source:	21	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	82.3	Number of optical assemblies:	1
Im in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	0	Inrush current:	29 A / 153 $\mu$ s
Light Output Ratio (L.O.R.) [%]:	59	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 32 luminaires B16A: 51 luminaires C10A: 53 luminaires C16A: 86 luminaires
CRI (minimum):	90	Minimum dimming %:	1
Colour temperature [K]:	Tunable white 2700 - 6500	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)	Control:	DALI-2

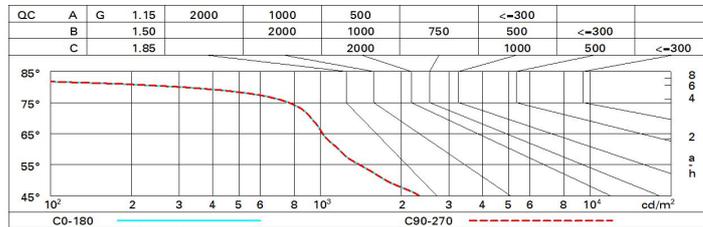
**Polar**



**Utilisation factors**

R	77	75	73	71	55	53	33	00	DRR
K0.8	43	38	34	32	37	34	34	30	52
1.0	47	42	39	36	41	38	38	35	59
1.5	52	49	46	43	48	45	45	41	70
2.0	55	53	50	48	51	49	49	46	78
2.5	57	55	53	51	54	52	51	49	83
3.0	58	57	55	53	55	54	53	51	86
4.0	60	58	57	56	57	56	55	53	90
5.0	61	59	58	57	58	57	56	54	92

**Luminance curve limit**



**UGR diagram**

Corrected UGR values (at 3000 lm bare lamp luminous flux)											
Reflect.:											
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					viewed				
x	y	crosswise					endwise				
2H	2H	13.2	14.2	13.5	14.5	14.7	13.2	14.2	13.5	14.5	14.7
	3H	14.0	14.9	14.3	15.2	15.5	13.4	14.3	13.8	14.6	14.9
	4H	14.2	15.1	14.6	15.4	15.7	13.5	14.4	13.9	14.7	15.0
	6H	14.3	15.1	14.7	15.4	15.8	13.5	14.3	13.9	14.6	15.0
	8H	14.3	15.0	14.7	15.4	15.7	13.5	14.2	13.9	14.6	14.9
	12H	14.2	15.0	14.6	15.3	15.7	13.5	14.2	13.9	14.5	14.9
4H	2H	13.5	14.4	13.9	14.7	15.0	14.2	15.1	14.6	15.4	15.7
	3H	14.5	15.2	14.9	15.5	15.9	14.7	15.4	15.1	15.7	16.1
	4H	14.8	15.5	15.2	15.8	16.2	14.8	15.5	15.2	15.8	16.2
	6H	14.9	15.5	15.4	15.9	16.3	14.9	15.5	15.4	15.9	16.3
	8H	14.9	15.4	15.4	15.8	16.3	14.9	15.4	15.4	15.9	16.3
	12H	14.9	15.3	15.3	15.8	16.2	14.9	15.3	15.4	15.8	16.2
8H	4H	14.9	15.4	15.4	15.9	16.3	14.9	15.4	15.4	15.8	16.3
	6H	15.1	15.5	15.5	15.9	16.4	15.0	15.4	15.5	15.9	16.4
	8H	15.0	15.4	15.5	15.8	16.3	15.0	15.4	15.5	15.8	16.3
	12H	15.0	15.3	15.5	15.8	16.3	15.0	15.3	15.5	15.8	16.3
12H	4H	14.9	15.3	15.4	15.8	16.2	14.9	15.3	15.3	15.8	16.2
	6H	15.0	15.4	15.5	15.8	16.3	15.0	15.3	15.5	15.8	16.3
	8H	15.0	15.3	15.5	15.8	16.3	15.0	15.3	15.5	15.8	16.3
Variations with the observer position at spacing:											
S =	1.0H	0.5 / -0.6					0.5 / -0.6				
	1.5H	1.0 / -1.4					1.0 / -1.4				
	2.0H	2.0 / -1.8					2.0 / -1.8				