

Last information update: May 2024

Product configuration: P223

P223: 625X625 mm - warm white LED - DALI control gear - controlled luminance optic UGR<19

**Product code**P223: 625X625 mm - warm white LED - DALI control gear - controlled luminance optic UGR<19 **Attention! Code no longer in production****Technical description**

Recessed direct emission luminaire designed to use Warm White 3000K high colour rendering LEDs and be installed in modular false ceilings with a 625 x 625 mm step. The optical assembly consists of a white extruded frame, a satin methacrylate diffuser screen for controlled luminance $UGR < 19$ $L < 3.000 \text{ cd/m}^2$ for $\alpha \geq 65^\circ$ emission, ideal for environments with video terminals and a sheet metal rear closing base. The LEDs are arranged inside the perimeter and the DALI driver is housed in the upper part of the product.

Installation

Recessed in modular false ceilings with a 625x625 mm step

Colour

White (01)

Mounting

ceiling recessed|wall surface|ceiling surface

Wiring

product complete with DALI components

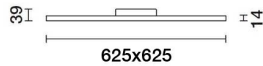
Complies with EN60598-1 and pertinent regulations



IP20

IP43

On the visible part of the product once installed

**Technical data**

lm system:	3182	Colour temperature [K]:	3000
W system:	38	MacAdam Step:	3
lm source:	4300	Life Time LED 1:	50,000h - L70 - B10 (Ta 25°C)
W source:	32	Lamp code:	LED
Luminous efficiency (lm/W, real value):	83.7	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	74	Control:	DALI
CRI:	80		

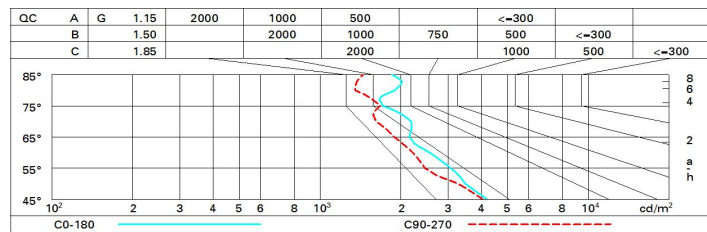
Polar

Imax=1231 cd		C0-180		CIE		Lux				
		nL 0.74		h						
		56-86-97-100-74		d1						
		UGR 18.7-17.8		d2						
		DIN		Em						
		A.41		Emax						
		UTE		1						
		0.74D+0.00T		2						
		F*1=558		3						
		F*1+F*2=862		4						
		F*1+F*2+F*3=969								
CIBSE										
LG3 L<3000 cd/m² at 65°										
UGR<19 L<3000 cd/mq @65°										
α = 104° / 100°										

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	51	44	39	35	43	39	38	34	45
1.0	56	50	45	41	49	44	44	39	53
1.5	64	58	54	51	57	53	53	48	65
2.0	68	64	60	57	62	59	58	54	73
2.5	70	67	64	61	65	63	62	58	78
3.0	72	69	66	64	67	65	64	61	82
4.0	74	71	69	67	70	68	67	64	86
5.0	75	73	71	70	71	70	69	65	88

Luminance curve limit



UGR diagram

Corrected UGR values (at 4300 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	10.0	17.0	10.3	17.3	17.0	15.8	10.9	10.1	17.1	17.4
	3H	10.8	17.8	17.2	18.1	18.4	16.1	17.0	10.4	17.3	17.6
	4H	17.2	18.1	17.6	18.4	18.8	16.1	17.0	10.5	17.4	17.7
	6H	17.6	18.5	18.0	18.8	19.1	16.1	17.0	10.5	17.3	17.7
	8H	17.8	18.6	18.2	19.0	19.3	16.1	16.9	10.5	17.3	17.6
	12H	18.0	18.7	18.4	19.1	19.5	16.1	16.9	10.5	17.2	17.6
4H	2H	10.3	17.2	10.7	17.5	17.9	16.9	17.8	17.2	18.1	18.4
	3H	17.3	18.1	17.7	18.5	18.8	17.4	18.2	17.8	18.5	18.9
	4H	17.8	18.5	18.3	18.9	19.3	17.6	18.3	18.0	18.7	19.1
	6H	18.4	19.0	18.8	19.4	19.8	17.8	18.4	18.2	18.8	19.2
	8H	18.7	19.2	19.1	19.6	20.1	17.8	18.4	18.3	18.8	19.3
	12H	18.8	19.4	19.3	19.8	20.3	17.8	18.4	18.3	18.8	19.3
8H	4H	18.0	18.6	18.5	19.0	19.5	18.3	18.8	18.7	19.2	19.7
	6H	18.7	19.2	19.2	19.6	20.1	18.6	19.1	19.1	19.5	20.0
	8H	19.0	19.4	19.5	19.9	20.4	18.8	19.2	19.3	19.7	20.2
	12H	19.3	19.6	19.8	20.1	20.7	18.9	19.2	19.4	19.7	20.3
12H	4H	18.1	18.6	18.5	19.0	19.5	18.4	18.9	18.9	19.3	19.8
	6H	18.8	19.2	19.3	19.7	20.2	18.8	19.2	19.3	19.7	20.2
	8H	19.1	19.5	19.6	20.0	20.5	19.0	19.4	19.5	19.8	20.4
Variations with the observer position at spacing:											
S =		1.0H					0.3 / -0.3				
		1.5H					0.5 / -0.8				
		2.0H					1.1 / -1.1				