

Last information update: May 2024

Product configuration: P178

P178: 625x625 mm - neutral white LED - DALI control gear - opal screen general light optic

**Product code**P178: 625x625 mm - neutral white LED - DALI control gear - opal screen general light optic **Attention! Code no longer in production****Technical description**

Recessed direct emission luminaire designed to use Neutral White 4,000K 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 general light emission 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



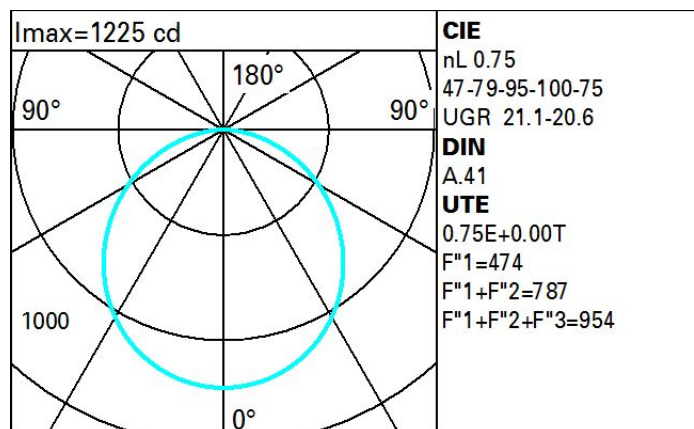
IP20

IP43

On the visible part of the product once installed

**Technical data**

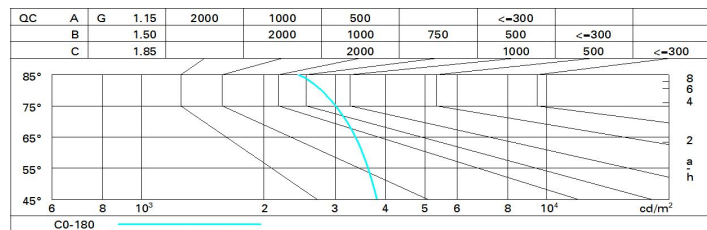
lm system:	3450	Colour temperature [K]:	4000
W system:	38	MacAdam Step:	3
lm source:	4600	Life Time LED 1:	50,000h - L70 - B10 (Ta 25°C)
W source:	32	Lamp code:	LED
Luminous efficiency (lm/W, real value):	90.8	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	75	Control:	DALI
CRI:	80		

Polar

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	49	41	36	31	40	35	35	29	39
1.0	54	47	41	37	46	41	40	35	47
1.5	62	56	51	47	54	50	49	45	59
2.0	67	62	57	54	60	56	55	51	68
2.5	69	65	62	59	64	60	60	55	74
3.0	71	68	65	62	66	63	62	58	78
4.0	74	71	68	66	69	67	66	62	83
5.0	75	73	71	69	71	69	68	64	86

Luminance curve limit



UGR diagram

Corrected UGR values (at 4000 lm bare lamp luminous flux)											
Riflect.: ceil/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise				
2H	2H	17.1	18.4	17.5	18.6	18.9	17.1	18.4	17.5	18.6	18.9
	3H	18.7	19.8	19.1	20.1	20.4	17.6	18.7	18.0	19.0	19.3
	4H	19.3	20.4	19.7	20.7	21.0	17.8	18.9	18.2	19.2	19.5
	6H	19.8	20.8	20.2	21.1	21.5	17.9	18.9	18.3	19.2	19.5
	8H	20.0	20.9	20.4	21.3	21.6	17.9	18.8	18.3	19.2	19.5
	12H	20.1	21.0	20.5	21.3	21.7	17.9	18.8	18.3	19.1	19.5
4H	2H	17.8	18.9	18.2	19.2	19.5	19.3	20.4	19.7	20.7	21.0
	3H	19.6	20.5	20.0	20.8	21.2	20.0	20.9	20.4	21.2	21.6
	4H	20.3	21.1	20.7	21.5	21.9	20.3	21.1	20.7	21.5	21.9
	6H	20.9	21.6	21.4	22.0	22.5	20.5	21.2	21.0	21.6	22.1
	8H	21.1	21.8	21.6	22.2	22.7	20.6	21.2	21.1	21.7	22.1
	12H	21.3	21.9	21.8	22.3	22.8	20.6	21.2	21.1	21.6	22.1
8H	4H	20.6	21.2	21.1	21.7	22.1	21.1	21.8	21.6	22.2	22.7
	6H	21.4	21.9	21.8	22.4	22.8	21.5	22.0	22.0	22.5	23.0
	8H	21.7	22.1	22.2	22.6	23.1	21.7	22.1	22.2	22.6	23.1
	12H	21.9	22.3	22.4	22.8	23.3	21.8	22.2	22.3	22.7	23.2
12H	4H	20.6	21.2	21.1	21.6	22.1	21.3	21.9	21.8	22.3	22.8
	6H	21.4	21.9	21.9	22.4	22.9	21.7	22.2	22.2	22.6	23.1
	8H	21.8	22.2	22.3	22.7	23.2	21.9	22.3	22.4	22.8	23.3
Variations with the observer position at spacing:											
S =	1.0H	0.1 / -0.1					0.1 / -0.1				
	1.5H	0.2 / -0.3					0.2 / -0.3				
	2.0H	0.4 / -0.5					0.4 / -0.5				