

Last information update: May 2018

**625x625 mm - neutral white LED - DALI control gear - opal screen general light optic****Product code**

P178

**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

**Dimension (mm)**

625x625x14

**Colour**

White (01)

**Weight (Kg)**

7.2

**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

**Product configuration: P178****Product characteristics**

Total lighting output [Lm]: 3449.5  
Total power [W]: 38  
Luminous efficacy [Lm/W]: 90.8  
Life Time: 50,000h - L70 - B10 (Ta 25°C)

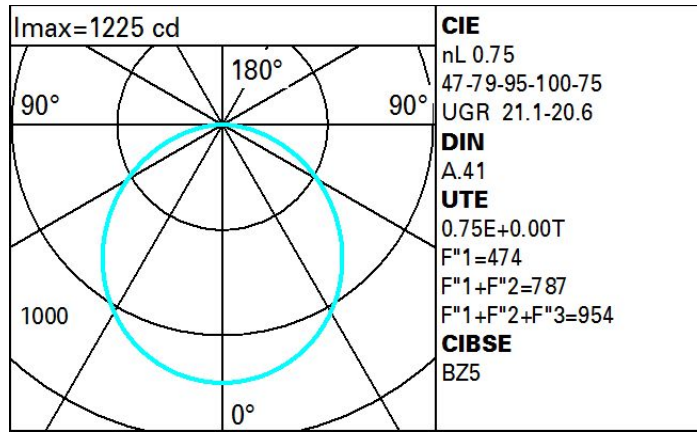
Total luminous flux at or above an angle of 90° [Lm]: 0  
Emergency luminous flux [Lm]: /  
Voltage [V]: -  
Number of optical assemblies: 1

**Optical assembly Characteristics Type 1**

Light Output Ratio (L.O.R.) [%]: 75  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 32  
Nominal luminous [Lm]: 4600  
Lamp maximum intensity [cd]: /  
Beam angle [°]: /

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 6  
Colour temperature [K]: 4000  
CRI: 80  
Wavelength [Nm]: /  
MacAdam Step: 3

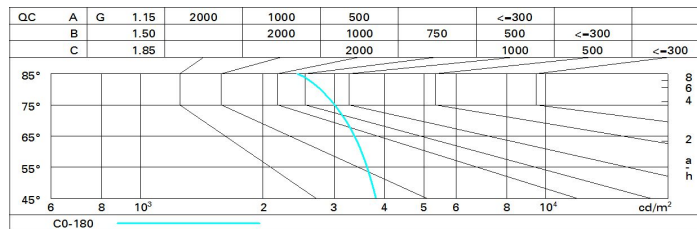
**Polar**



**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)											
Reflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
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	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				