

Last information update: May 2018

**625X625 mm - neutral white LED - DALI control gear - controlled luminance optic UGR<19****Product code**

P180

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 controlled luminance $L < 3000 \text{ cd/m}^2$ 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

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: P180****Product characteristics**

Total lighting output [Lm]: 3403.5
Total power [W]: 38
Luminous efficacy [Lm/W]: 89.6
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

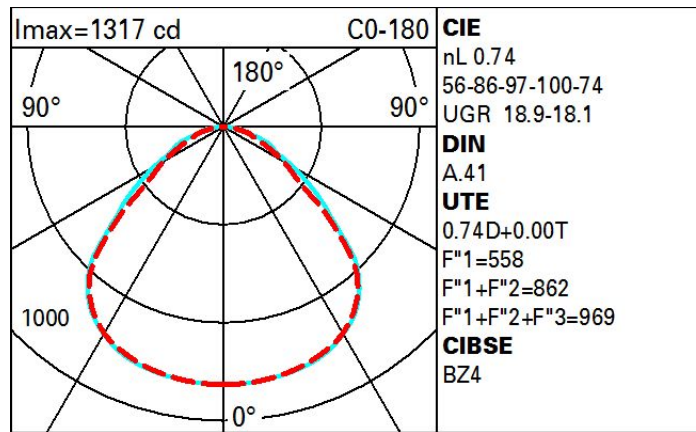
Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 74
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



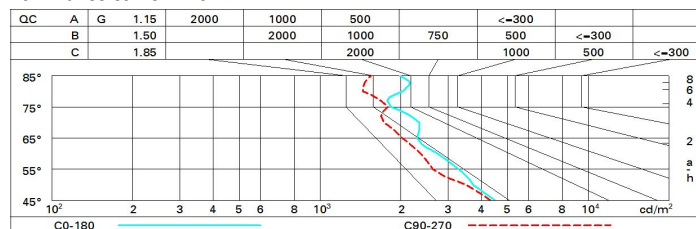
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	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 4000 lm bare lamp luminous flux)											
Reflect.: ceiling/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	16.2	17.3	16.5	17.5	17.8	16.0	17.1	16.3	17.3	17.6
	3H	17.1	18.0	17.4	18.3	18.6	16.3	17.3	16.6	17.6	17.9
	4H	17.5	18.4	17.8	18.7	19.0	16.4	17.3	16.7	17.6	17.9
	6H	17.9	18.7	18.2	19.0	19.4	16.4	17.2	16.7	17.5	17.9
	8H	18.1	18.9	18.4	19.2	19.6	16.4	17.2	16.7	17.5	17.9
	12H	18.2	19.0	18.6	19.3	19.7	16.3	17.1	16.7	17.5	17.8
4H	2H	16.5	17.5	16.9	17.8	18.1	17.1	18.0	17.5	18.3	18.6
	3H	17.6	18.4	18.0	18.7	19.1	17.6	18.4	18.0	18.8	19.1
	4H	18.1	18.8	18.5	19.1	19.5	17.9	18.5	18.3	18.9	19.3
	6H	18.6	19.2	19.1	19.6	20.1	18.0	18.6	18.5	19.0	19.5
	8H	18.9	19.4	19.3	19.9	20.3	18.1	18.6	18.5	19.0	19.5
	12H	19.1	19.6	19.5	20.0	20.5	18.1	18.6	18.5	19.0	19.5
8H	4H	18.3	18.8	18.7	19.3	19.7	18.5	19.1	18.9	19.5	19.9
	6H	19.0	19.4	19.4	19.9	20.4	18.9	19.3	19.3	19.8	20.2
	8H	19.3	19.7	19.8	20.1	20.6	19.0	19.4	19.5	19.9	20.4
	12H	19.5	19.9	20.0	20.4	20.9	19.1	19.5	19.6	20.0	20.5
12H	4H	18.3	18.8	18.8	19.2	19.7	18.6	19.1	19.1	19.6	20.0
	6H	19.0	19.4	19.5	19.9	20.4	19.0	19.4	19.5	19.9	20.4
	8H	19.4	19.7	19.9	20.2	20.7	19.3	19.6	19.8	20.1	20.6
Variations with the observer position at spacing:											
S =		1.0H	0.3 / -0.3		0.3 / -0.3						
		1.5H	0.5 / -0.8		0.6 / -0.7						
		2.0H	1.1 / -1.0		1.1 / -1.1						