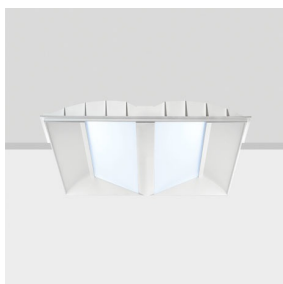


Last information update: May 2018

**600x600 - neutral White - UGR<19 - DALI****Product code**

P299

Technical description

Recessed direct emission luminaire designed to use Neutral White colour 4,000K LEDs and be installed in 600x600 modular false ceilings or in plasterboard ceilings using a frame to be ordered as an accessory. The optical assembly is made of a thermoplastic material for controlled luminance with a UGR<19 L<3000 cd/m² α ≥ 65° beam, ideal for environments with video terminals. Product complete with DALI ballast.

Installation

recessed in 600x600 modular false ceilings or in plasterboard ceilings using a frame to be ordered as an accessory.

Dimension (mm)

600x600

Colour

White (01)

Weight (Kg)

2.56

Mounting

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: P299****Product characteristics**

Total lighting output [Lm]: 3771.1
Total power [W]: 35
Luminous efficacy [Lm/W]: 107.7
Life Time: 50,000h - L80 - B10 (Ta 25°C)

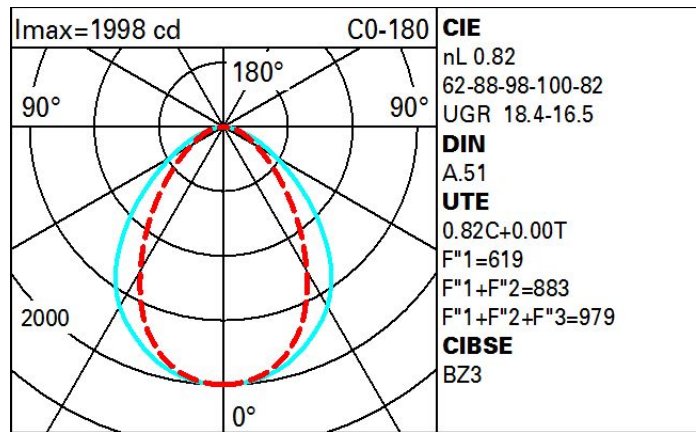
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 82
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 30
Nominal luminous [Lm]: 4600
Lamp maximum intensity [cd]: /
Beam angle [°]: /

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 5
Colour temperature [K]: 4000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 3

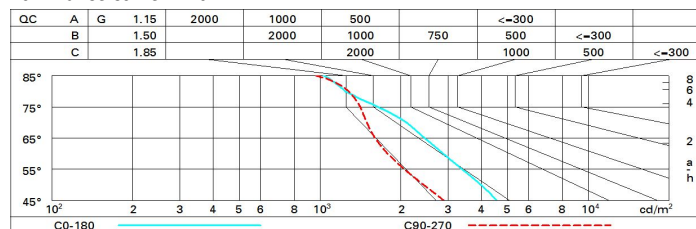
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	59	52	47	43	51	46	46	41	50
1.0	65	58	53	49	57	52	52	47	57
1.5	72	67	62	59	65	62	61	56	69
2.0	76	72	69	66	71	68	67	63	76
2.5	79	75	73	70	74	71	70	67	81
3.0	81	78	75	73	76	74	73	69	85
4.0	83	80	78	77	79	77	76	72	88
5.0	84	82	80	79	80	79	77	74	91

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	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	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	16.5	17.5	16.8	17.8	18.1	14.2	15.2	14.5	15.5	15.7	15.7
	3H	17.4	18.3	17.7	18.6	18.9	14.6	15.6	15.0	15.8	16.1	16.1
	4H	17.7	18.5	18.0	18.8	19.2	14.8	15.7	15.1	16.0	16.3	16.3
	6H	17.8	18.6	18.2	18.9	19.3	14.8	15.6	15.2	16.0	16.3	16.3
	8H	17.8	18.6	18.2	19.0	19.3	14.8	15.6	15.2	15.9	16.3	16.3
	12H	17.9	18.6	18.3	19.0	19.3	14.8	15.5	15.2	15.9	16.3	16.3
4H	2H	16.7	17.6	17.1	17.9	18.2	15.4	16.3	15.8	16.6	16.9	16.9
	3H	17.8	18.5	18.2	18.9	19.2	16.0	16.7	16.4	17.1	17.4	17.4
	4H	18.1	18.8	18.6	19.2	19.6	16.2	16.9	16.6	17.3	17.7	17.7
	6H	18.4	19.0	18.8	19.4	19.8	16.4	17.0	16.8	17.4	17.8	17.8
	8H	18.4	19.0	18.9	19.4	19.8	16.5	17.0	16.9	17.4	17.8	17.8
	12H	18.5	19.0	18.9	19.4	19.9	16.4	16.9	16.9	17.4	17.8	17.8
8H	4H	18.2	18.7	18.7	19.2	19.6	16.8	17.3	17.2	17.7	18.2	18.2
	6H	18.5	19.0	19.0	19.4	19.9	17.1	17.5	17.5	17.9	18.4	18.4
	8H	18.6	19.0	19.1	19.5	20.0	17.2	17.5	17.6	18.0	18.5	18.5
	12H	18.7	19.1	19.2	19.5	20.1	17.2	17.5	17.7	18.0	18.5	18.5
12H	4H	18.2	18.7	18.7	19.1	19.6	16.9	17.3	17.3	17.8	18.2	18.2
	6H	18.5	18.9	19.0	19.4	19.9	17.2	17.5	17.7	18.0	18.5	18.5
	8H	18.7	19.0	19.2	19.5	20.0	17.3	17.6	17.8	18.1	18.6	18.6
Variations with the observer position at spacing:												
S =		1.0H	0.2 / -0.3		0.3 / -0.4							
		1.5H	0.6 / -0.9		0.5 / -0.9							
		2.0H	1.4 / -1.3		0.9 / -1.2							