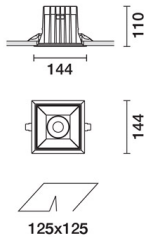
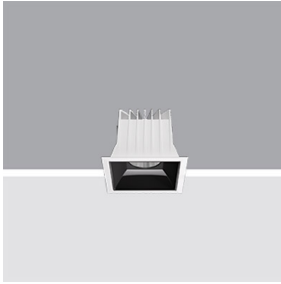


Last information update: May 2018

**Fixed recessed luminaire - 2700K Warm LED - DALI dimmable control gear - Medium****Product code**

P780

Technical description

Fixed optic, recessed luminaire for a Warm White LED lamp with a high color rendering index. Passive heat dissipation system. Lamp body with die-cast aluminium radiant surface, version with perimeter surface frame. Metallised, thermoplastic, high definition Opti Beam optic, integrated in a set-back position in the anti-glare screen. Glass cover for LED lamp. The structure of the optic system produces light emission with controlled luminance ($UGR < 19$) to guarantee high visual comfort. Supplied with a dimmable DALI ballast connected to the luminaire.

Installation

Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 125 x 125. Installation possible in a horizontal position.

Dimension (mm)

144x144x107

Colour

White (01) | Black/Black (43) | Black/White (47) | Grey/Black (74)

Weight (Kg)

0.86

Mounting

ceiling recessed

Wiring

Quick-coupling connections on the ballast unit terminal block - Digital electronic cabling that allows dimming to be performed with DALI protocol or pushbutton systems (TOUCH DIM)

Notes

The product has a white finish (01) that maintains its $UGR < 19$ performance unaltered even when luminance values vary slightly.

Complies with EN60598-1 and pertinent regulations



IP20

IP44

On the visible part of the product once installed



pending

Product configuration: P780.01**Product characteristics**

Total lighting output [Lm]: 1798
Total power [W]: 32.1
Luminous efficacy [Lm/W]: 56
Life Time: > 50,000h - L80 - B10 (Ta 25°C)

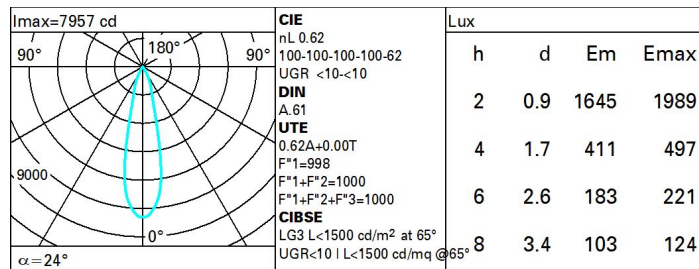
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 62
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 29
Nominal luminous [Lm]: 2900
Lamp maximum intensity [cd]: /
Beam angle [°]: 24°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 3.1
Colour temperature [K]: 2700
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 3

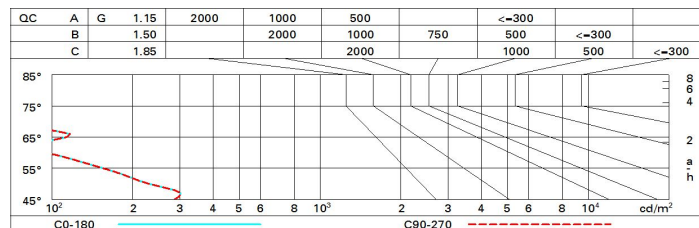
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	56	53	51	50	53	51	51	49	78
1.0	58	56	54	53	55	54	53	51	83
1.5	61	59	58	57	59	57	57	55	89
2.0	63	62	61	60	61	60	59	58	93
2.5	64	63	62	62	62	62	61	59	96
3.0	65	64	64	63	63	63	62	61	98
4.0	66	65	65	65	64	64	63	62	99
5.0	66	66	66	65	65	65	64	62	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 2900 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	0.7	2.8	1.1	3.1	3.5	0.7	2.8	1.1	3.1	3.5	
	3H	0.5	2.2	0.9	2.5	2.8	0.5	2.2	0.9	2.5	2.8	
	4H	0.5	1.8	0.9	2.2	2.5	0.5	1.8	0.9	2.2	2.5	
	6H	0.4	1.5	0.8	1.8	2.2	0.4	1.5	0.8	1.8	2.2	
	8H	0.4	1.5	0.8	1.8	2.2	0.4	1.4	0.8	1.8	2.2	
	12H	0.3	1.4	0.8	1.8	2.1	0.3	1.4	0.7	1.8	2.1	
4H	2H	0.5	1.8	0.9	2.2	2.5	0.5	1.8	0.9	2.2	2.5	
	3H	0.3	1.4	0.8	1.8	2.1	0.3	1.4	0.8	1.8	2.1	
	4H	0.2	1.3	0.7	1.7	2.1	0.2	1.3	0.7	1.7	2.1	
	6H	-0.1	1.6	0.4	2.0	2.5	-0.1	1.6	0.4	2.0	2.5	
	8H	-0.2	1.6	0.3	2.1	2.6	-0.3	1.6	0.2	2.1	2.6	
	12H	-0.3	1.6	0.2	2.1	2.6	-0.4	1.6	0.1	2.1	2.6	
8H	4H	-0.3	1.6	0.2	2.1	2.6	-0.2	1.6	0.3	2.1	2.6	
	6H	-0.4	1.4	0.2	1.9	2.4	-0.4	1.4	0.2	1.9	2.5	
	8H	-0.4	1.2	0.2	1.7	2.2	-0.4	1.2	0.2	1.7	2.2	
	12H	-0.2	0.8	0.3	1.3	1.8	-0.2	0.8	0.3	1.3	1.8	
12H	4H	-0.4	1.6	0.1	2.1	2.6	-0.3	1.6	0.2	2.1	2.6	
	6H	-0.4	1.2	0.1	1.7	2.2	-0.4	1.2	0.2	1.7	2.3	
	8H	-0.2	0.8	0.3	1.3	1.8	-0.2	0.8	0.3	1.3	1.8	
Variations with the observer position at spacing:												
S =		1.0H	6.8 / -11.7					6.8 / -11.7				
		1.5H	9.6 / -13.0					9.6 / -13.0				
		2.0H	11.6 / -13.2					11.6 / -13.2				