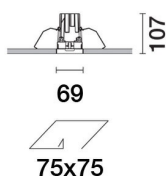
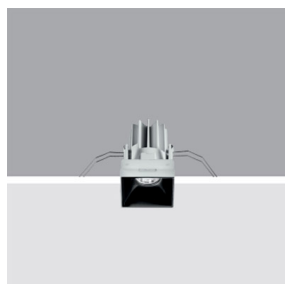


Last information update: May 2018



Fixed, Recessed luminaire - Minimal - Warm LED - Electronic control gear included - Flood optic Beam

Product code
N138

Technical description

Fixed optic, recessed luminaire for a warm white LED lamp with a high color rendering index. Flush with ceiling version (frameless). Passive heat dissipation system. Lamp body with radiant surface made of die-cast aluminum. False ceiling adapter with bracket system that adapts to the thickness of the panels. Metallised, thermoplastic, high definition optic, integrated in a rear position in the anti-glare screen. Glass cover for LED lamp. The structure of the optical system produces light emission with controlled luminance (UGR < 19). Equipped with an electronic ballast connected to the luminaire.

Installation

recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter fixed to false ceiling (between 12.5 mm and 25 mm thick) with self-tapping screws; subsequent filling and smoothing operations; insertion of luminaire body and aesthetic finishing. Preparation slot 75 x 75. Installation permitted in either a horizontal or vertical position.

Dimension (mm)

72x72x107

Colour

White (01) | Black (04)

Weight (Kg)

0.56

Mounting

wall recessed|ceiling recessed

Wiring

on the control gear box with quick-coupling connections.

Notes

The product with its white finish (01) includes an optic ring for limiting luminance; a feature that renders a performance of UGR < 19 and determines slight variations in the opening of the optic (32°) and yield (0.73).

Complies with EN60598-1 and pertinent regulations



On the visible part of the product once installed

Product configuration: N138.01

Product characteristics

Total lighting output [Lm]: 765.5
Total power [W]: 11
Luminous efficacy [Lm/W]: 69.6
Life Time: 50,000h - L80 - B10 (Ta 25°C)

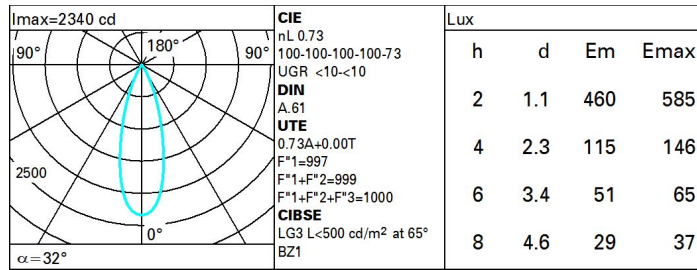
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: 230
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 73
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 8.5
Nominal luminous [Lm]: 1050
Lamp maximum intensity [cd]: /
Beam angle [°]: 32°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.5
Colour temperature [K]: 3000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 3

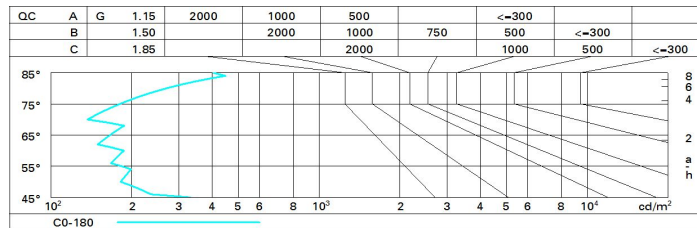
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	62	60	58	62	60	59	57	78
1.0	69	66	63	62	65	63	63	60	83
1.5	72	70	68	67	69	67	67	65	89
2.0	74	73	71	70	72	70	70	68	93
2.5	76	74	73	73	73	72	72	70	96
3.0	77	76	75	74	75	74	73	71	98
4.0	77	77	76	76	76	75	74	72	99
5.0	78	78	77	77	76	76	75	73	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1050 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	5.1	5.6	5.4	5.9	6.1	5.1	5.6	5.4	5.9	6.1
	3H	5.0	5.5	5.3	5.7	6.0	5.0	5.4	5.3	5.7	6.0
	4H	4.9	5.4	5.2	5.6	5.9	4.9	5.3	5.2	5.6	5.9
	6H	4.8	5.3	5.2	5.6	5.9	4.8	5.2	5.2	5.5	5.9
	8H	4.8	5.2	5.2	5.5	5.9	4.8	5.2	5.1	5.5	5.8
	12H	4.8	5.2	5.2	5.5	5.9	4.7	5.1	5.1	5.5	5.8
4H	2H	4.9	5.3	5.2	5.6	5.9	4.9	5.4	5.2	5.6	5.9
	3H	4.8	5.1	5.1	5.5	5.8	4.8	5.1	5.1	5.5	5.8
	4H	4.7	5.0	5.1	5.4	5.8	4.7	5.0	5.1	5.4	5.8
	6H	4.6	4.9	5.0	5.3	5.7	4.6	4.9	5.0	5.3	5.7
	8H	4.6	4.9	5.0	5.3	5.7	4.6	4.8	5.0	5.2	5.7
	12H	4.6	4.8	5.0	5.3	5.7	4.5	4.8	5.0	5.2	5.6
8H	4H	4.6	4.8	5.0	5.2	5.7	4.6	4.9	5.0	5.3	5.7
	6H	4.5	4.7	5.0	5.2	5.7	4.5	4.8	5.0	5.2	5.7
	8H	4.5	4.7	5.0	5.2	5.7	4.5	4.7	5.0	5.2	5.7
	12H	4.5	4.7	5.0	5.2	5.7	4.5	4.6	5.0	5.1	5.6
12H	4H	4.5	4.8	5.0	5.2	5.6	4.6	4.8	5.0	5.3	5.7
	6H	4.5	4.7	4.9	5.1	5.6	4.5	4.7	5.0	5.2	5.7
	8H	4.5	4.6	5.0	5.1	5.6	4.5	4.7	5.0	5.2	5.7
Variations with the observer position at spacing:											
S =	1.0H	6.3 / -8.8					6.3 / -8.8				
	1.5H	9.1 / -9.0					9.1 / -9.0				
	2.0H	11.1 / -9.1					11.1 / -9.1				