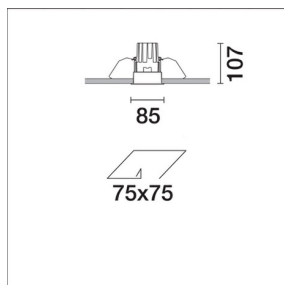
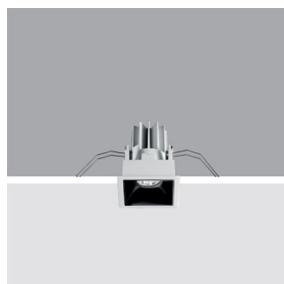


Last information update: May 2018



Fixed, Recessed luminaire - Warm LED - Incorporated DALI dimmable power supply - WideFlood optic Beam

Product code
N160

Technical description

Fixed optic, recessed luminaire for high efficiency, warm white LED lamp. Passive heat dissipation system. Lamp body with die-cast aluminium radiant surface, version with perimeter surface frame. 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 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 75 x 75. Installation permitted in either a horizontal or vertical position.

Dimension (mm)
85x85x107

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

Weight (Kg)
0.5

Mounting

wall recessed|ceiling recessed

Wiring

on the control gears box with quick-coupling connections. Digital electronic cabling that allows dimming to be performed with DALI protocol or a pushbutton switch (DIM SWITCH).

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 (52°) and yield (0.74).

Complies with EN60598-1 and pertinent regulations



Product configuration: N160.01

Product characteristics

Total lighting output [Lm]: 739.5
Total power [W]: 8.8
Luminous efficacy [Lm/W]: 84
Life Time: 50,000h - L80 - B10 (Ta 25°C)

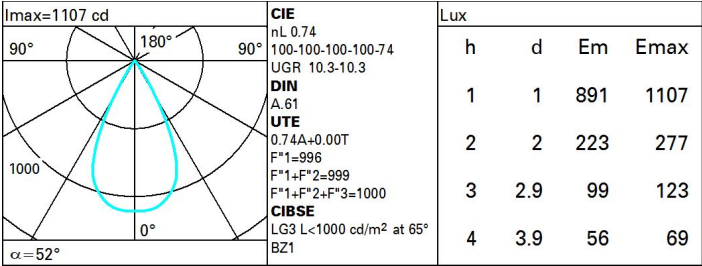
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: 230
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 74
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 6.7
Nominal luminous [Lm]: 1000
Lamp maximum intensity [cd]: /
Beam angle [°]: 52°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.1
Colour temperature [K]: 3000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 3

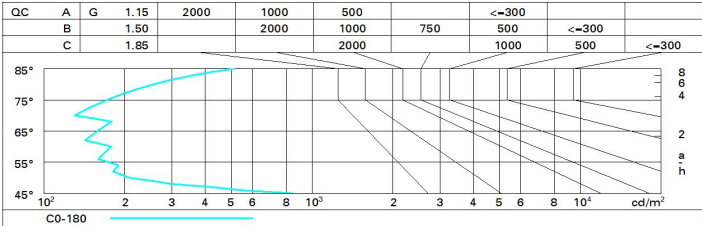
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	67	63	61	59	63	61	60	58	78
1.0	70	67	64	63	66	64	64	61	83
1.5	73	71	69	67	70	68	68	65	88
2.0	75	74	72	71	73	71	71	69	93
2.5	77	75	74	74	74	73	73	71	96
3.0	78	77	76	75	76	75	74	72	98
4.0	79	78	77	77	77	76	75	73	99
5.0	79	79	78	78	77	77	76	74	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1000 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	10.8	11.4	11.1	11.6	11.9	10.8	11.4	11.1	11.6	11.9	
	3H	10.7	11.2	11.0	11.5	11.7	10.7	11.2	11.0	11.5	11.7	
	4H	10.6	11.1	11.0	11.4	11.7	10.6	11.1	11.0	11.4	11.7	
	6H	10.6	11.0	10.9	11.3	11.6	10.6	11.0	10.9	11.3	11.6	
	8H	10.5	10.9	10.9	11.3	11.6	10.5	10.9	10.9	11.3	11.6	
	12H	10.5	10.9	10.9	11.2	11.6	10.5	10.9	10.9	11.2	11.6	
4H	2H	10.6	11.1	11.0	11.4	11.7	10.6	11.1	11.0	11.4	11.7	
	3H	10.5	10.9	10.9	11.2	11.6	10.5	10.9	10.9	11.2	11.6	
	4H	10.4	10.7	10.8	11.1	11.5	10.4	10.7	10.8	11.1	11.5	
	6H	10.3	10.6	10.7	11.0	11.4	10.3	10.6	10.7	11.0	11.4	
	8H	10.3	10.6	10.7	11.0	11.4	10.3	10.5	10.7	11.0	11.4	
	12H	10.2	10.5	10.7	10.9	11.4	10.2	10.5	10.7	10.9	11.4	
8H	4H	10.3	10.5	10.7	11.0	11.4	10.3	10.6	10.7	11.0	11.4	
	6H	10.2	10.4	10.6	10.9	11.3	10.2	10.4	10.7	10.9	11.3	
	8H	10.1	10.3	10.6	10.8	11.3	10.1	10.3	10.6	10.8	11.3	
	12H	10.1	10.3	10.6	10.8	11.3	10.1	10.3	10.6	10.7	11.3	
12H	4H	10.2	10.5	10.7	10.9	11.4	10.2	10.5	10.7	10.9	11.4	
	6H	10.1	10.3	10.6	10.8	11.3	10.1	10.3	10.6	10.8	11.3	
	8H	10.1	10.3	10.6	10.7	11.3	10.1	10.3	10.6	10.8	11.3	
Variations with the observer position at spacing:												
S =		1.0H	6.5 / -14.3					6.5 / -14.3				
		1.5H	9.3 / -14.5					9.3 / -14.5				
		2.0H	11.3 / -14.6					11.3 / -14.6				