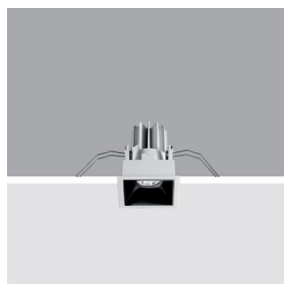


Last information update: May 2018



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

**Product code**

N159

**Technical description**

Fixed optic, recessed luminaire for high efficiency, neutral 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: N159.01**

**Product characteristics**

Total lighting output [Lm]: 776.5  
 Total power [W]: 8.8  
 Luminous efficacy [Lm/W]: 88.2  
 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]: 1050  
 Lamp maximum intensity [cd]: /  
 Beam angle [°]: 52°

Number of lamps for optical assembly: 1  
 Socket: /  
 Ballast losses [W]: 2.1  
 Colour temperature [K]: 4000  
 CRI: 80  
 Wavelength [Nm]: /  
 MacAdam Step: 3

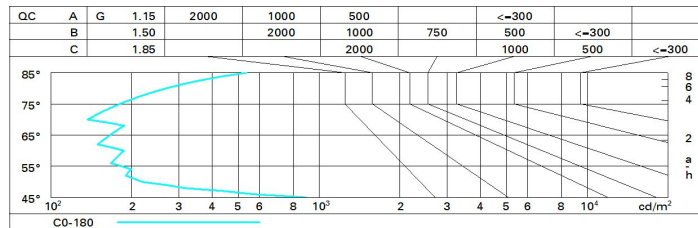
**Polar**

	<b>Imax=1162 cd</b> 90° 180° 90° 1000 0° α=52°	<b>CIE</b> nL 0.74 100-100-100-100-74 UGR 10.4-10.4 <b>DIN</b> A.61 <b>UTE</b> 0.74A+0.00T F*1=996 F*1+F*2=999 F*1+F*2+F*3=1000 <b>CIBSE</b> LG3 L<1000 cd/m² at 65° BZ1	<b>Lux</b> h d Em Emax 1 1 936 1162 2 2 234 291 3 2.9 104 129 4 3.9 58 73
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**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 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	11.0	11.6	11.3	11.8	12.0	11.0	11.6	11.3	11.8	12.0
	3H	10.9	11.4	11.2	11.6	11.9	10.9	11.4	11.2	11.6	11.9
	4H	10.8	11.3	11.1	11.6	11.9	10.8	11.3	11.1	11.6	11.9
	6H	10.7	11.2	11.1	11.5	11.8	10.7	11.2	11.1	11.5	11.8
	8H	10.7	11.1	11.1	11.4	11.8	10.7	11.1	11.1	11.4	11.8
	12H	10.7	11.1	11.0	11.4	11.7	10.7	11.0	11.0	11.4	11.7
4H	2H	10.8	11.3	11.1	11.6	11.9	10.8	11.3	11.1	11.6	11.9
	3H	10.7	11.1	11.0	11.4	11.7	10.7	11.1	11.0	11.4	11.7
	4H	10.6	10.9	11.0	11.3	11.7	10.6	10.9	11.0	11.3	11.7
	6H	10.5	10.8	10.9	11.2	11.6	10.5	10.8	10.9	11.2	11.6
	8H	10.4	10.7	10.9	11.1	11.6	10.4	10.7	10.9	11.1	11.6
	12H	10.4	10.7	10.9	11.1	11.5	10.4	10.6	10.8	11.1	11.5
8H	4H	10.4	10.7	10.9	11.1	11.6	10.4	10.7	10.9	11.1	11.6
	6H	10.4	10.6	10.8	11.0	11.5	10.4	10.6	10.8	11.0	11.5
	8H	10.3	10.5	10.8	11.0	11.5	10.3	10.5	10.8	11.0	11.5
	12H	10.3	10.4	10.8	10.9	11.4	10.3	10.4	10.8	10.9	11.4
12H	4H	10.4	10.6	10.8	11.1	11.5	10.4	10.7	10.9	11.1	11.5
	6H	10.3	10.5	10.8	11.0	11.5	10.3	10.5	10.8	11.0	11.5
	8H	10.3	10.4	10.8	10.9	11.4	10.3	10.4	10.8	10.9	11.4
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				