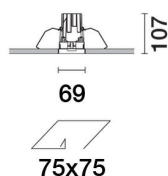
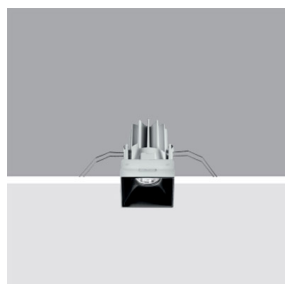


Last information update: May 2018

**Fixed, Recessed luminaire - Minimal - Warm LED - Incorporated DALI dimmable power supply - Flood optic Beam****Product code**

N145

**Technical description**

Fixed optic, recessed luminaire for a 2700K 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 a dimmable DALI 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 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 ( $32^\circ$ ) and yield (0.73).

Complies with EN60598-1 and pertinent regulations

**Product configuration: N145.01****Product characteristics**

Total lighting output [Lm]: 765.5  
Total power [W]: 11.6  
Luminous efficacy [Lm/W]: 66  
Life Time: 50,000h - L80 - B10 (Ta 25°C)

Total luminous flux at or above an angle of  $90^\circ$  [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]: 9.2  
Nominal luminous [Lm]: 1050  
Lamp maximum intensity [cd]: /  
Beam angle [ $^\circ$ ]:  $32^\circ$

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 2.4  
Colour temperature [K]: 2700  
CRI: 90  
Wavelength [nm]: /  
MacAdam Step: 3

<p> <math>I_{\max}=2340 \text{ cd}</math>  <math>\alpha=32^\circ</math> </p>	<b>CIE</b> nL 0.73 100-100-100-100-73 UGR <10<10		<b>Lux</b>			
	<b>DIN</b> A.61		h	d	Em	E <sub>max</sub>
	<b>UTE</b> 0.73A+0.00T F*1=997 F*1+F*2=999 F*1+F*2+F*3=1000		2	1.1	460	585
	<b>CIBSE</b> LG3 L<500 cd/m <sup>2</sup> at 65° BZ1		4	2.3	115	146
			6	3.4	51	65
			8	4.6	29	37

R	77	75	73	71	55	53	33	00	DDR
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

QC	A	G	1.15	2000	1000	500	<300		
	B		1.50		2000	1000	750	500	<300
	C		1.85			2000		1000	500
									<300

# UGR diagram

Corrected UGR values (at 1050 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
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		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	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						