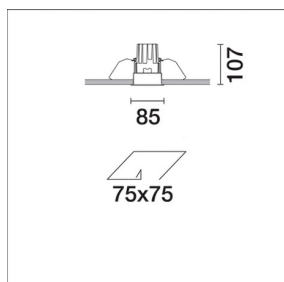
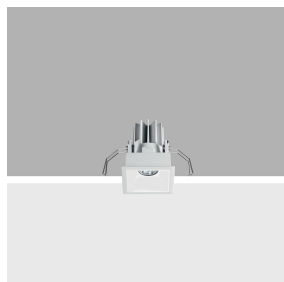


Last information update: June 2024

**Product configuration: N164.01**

N164.01: Fixed, Recessed luminaire - Warm LED - Incorporated DALI dimmable power supply - WideFlood optic Beam - White

**Product code**

N164.01: Fixed, Recessed luminaire - Warm LED - Incorporated DALI dimmable power supply - WideFlood optic Beam - White

**Technical description**

Fixed optic, recessed luminaire for a 2700K 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 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.

**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 ( $52^\circ$ ) and yield (0.74).

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	874	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	11.4	Voltage [Vin]:	230
lm source:	1150	Lamp code:	LED
W source:	9	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	76.6	ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of $90^\circ$ [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	76	Inrush current:	16 A / 220 $\mu$ s
Beam angle $[\alpha]$ :	$52^\circ$	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 15 luminaires B16A: 24 luminaires C10A: 24 luminaires C16A: 40 luminaires
CRI (minimum):	90	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	2700	Dimming mode:	PWM
MacAdam Step:	2	Control:	DALI

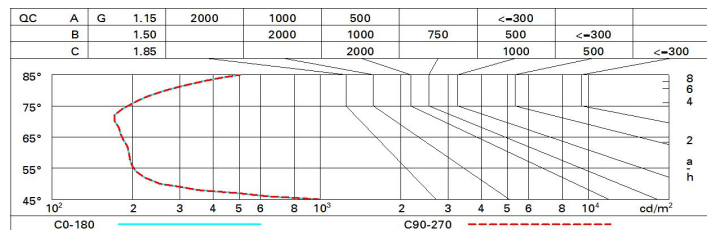
**Polar**

		CIE nL 0.76 100-100-100-100-76 UGR 10.9-10.8 DIN A.61 UTE 0.76A+0.00T F*1=996 F*1+F*2=999 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65° UGR<16   L<1500 cd/mq @65°				Lux			
Imax=1308 cd						h	d	Em	Emax
						1	1	1053	1308
						2	2	263	327
						3	2.9	117	145
						4	3.9	66	82

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	69	65	63	61	64	62	62	59	78
1.0	72	68	66	64	68	66	65	63	83
1.5	75	73	71	69	72	70	69	67	88
2.0	77	76	74	73	75	73	73	71	93
2.5	79	78	77	76	76	76	75	73	96
3.0	80	79	78	77	78	77	76	74	98
4.0	81	80	80	79	79	78	77	75	99
5.0	81	81	80	80	79	79	78	76	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 1150 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	11.4	12.0	11.7	12.2	12.4	11.4	12.0	11.7	12.2	12.4
	3H	11.3	11.8	11.6	12.1	12.3	11.3	11.8	11.6	12.1	12.3
	4H	11.2	11.7	11.5	12.0	12.3	11.2	11.7	11.5	12.0	12.3
	6H	11.1	11.6	11.5	11.9	12.2	11.1	11.6	11.5	11.9	12.2
	8H	11.1	11.5	11.5	11.8	12.2	11.1	11.5	11.5	11.8	12.2
	12H	11.1	11.5	11.4	11.8	12.2	11.1	11.5	11.4	11.8	12.1
4H	2H	11.2	11.7	11.5	12.0	12.3	11.2	11.7	11.5	12.0	12.3
	3H	11.1	11.5	11.4	11.8	12.1	11.1	11.5	11.4	11.8	12.1
	4H	11.0	11.3	11.4	11.7	12.1	11.0	11.3	11.4	11.7	12.1
	6H	10.9	11.2	11.3	11.6	12.0	10.9	11.2	11.3	11.6	12.0
	8H	10.9	11.1	11.3	11.5	12.0	10.8	11.1	11.3	11.5	12.0
	12H	10.8	11.1	11.3	11.5	11.9	10.8	11.0	11.2	11.5	11.9
8H	4H	10.8	11.1	11.3	11.5	12.0	10.9	11.1	11.3	11.5	12.0
	6H	10.8	11.0	11.2	11.4	11.9	10.8	11.0	11.2	11.4	11.9
	8H	10.7	10.9	11.2	11.4	11.9	10.7	10.9	11.2	11.4	11.9
	12H	10.7	10.8	11.2	11.3	11.8	10.7	10.8	11.2	11.3	11.8
12H	4H	10.8	11.0	11.2	11.5	11.9	10.8	11.1	11.3	11.5	11.9
	6H	10.7	10.9	11.2	11.4	11.9	10.7	10.9	11.2	11.4	11.9
	8H	10.7	10.8	11.2	11.3	11.8	10.7	10.8	11.2	11.3	11.8
Variations with the observer position at spacing:											
S =		1.0H	6.5 / -15.1				6.5 / -15.1				
		1.5H	9.3 / -15.3				9.3 / -15.3				
		2.0H	11.3 / -15.5				11.3 / -15.5				