

Last information update: April 2024

Product configuration: N227

N227: Fixed circular recessed luminaire - Ø212 mm - warm white - flood optic - UGR<19

**Product code**

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Technical description

Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone (3000K). General light emission, with controlled luminance UGR<19 1500 cd/m² α>65° flood optic.

Installation

Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 25 mm.

Colour

White / Aluminium (39)

Weight (Kg)

1.95

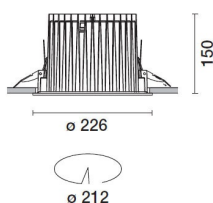
Mounting

ceiling recessed

Wiring

product complete with DALI components

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	4505	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	36.2	Lamp code:	LED
Im source:	5300	Number of lamps for optical assembly:	1
W source:	32	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	124.4	Number of optical assemblies:	1
Im in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	0	Inrush current:	18 A / 250 µs
Light Output Ratio (L.O.R.) [%]:	85	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 21 luminaires B16A: 34 luminaires C10A: 35 luminaires C16A: 57 luminaires
Beam angle [°]:	26°	Minimum dimming %:	1
CRI (minimum):	80	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	3000	Control:	DALI-2
MacAdam Step:	2		

Polar

	CIE nL 0.85 100-100-100-100-85 UGR 11.8-11.8 DIN A.61 UTE 0.85A+0.00T F*1=999 F*1+F*2=1000 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m ² at 65° UGR<16 L<1500 cd/mq @65°			
	h	d	Em	Emax
	2	0.9	3641	4352
	4	1.8	910	1088
	6	2.8	405	484
α = 26°	8	3.7	228	272

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	77	73	70	68	72	70	69	67	78
1.0	80	77	74	72	76	74	73	71	83
1.5	84	81	79	78	80	79	78	75	89
2.0	87	85	83	82	84	82	81	79	93
2.5	88	87	86	85	86	85	84	81	96
3.0	89	88	87	87	87	86	85	83	98
4.0	90	90	89	89	88	88	87	84	99
5.0	91	90	90	90	89	89	87	85	100

UGR diagram

Corrected UGR values (at 5300 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
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											
x	y										
2H	2H	12.7	14.7	13.1	15.0	15.3	12.7	14.7	13.1	15.0	15.3
	3H	12.6	14.0	13.0	14.3	14.7	12.6	14.0	13.0	14.3	14.7
	4H	12.5	13.8	12.9	14.1	14.4	12.5	13.8	12.9	14.1	14.4
	6H	12.5	13.5	12.8	13.9	14.2	12.5	13.5	12.8	13.9	14.2
	8H	12.4	13.5	12.8	13.8	14.2	12.4	13.5	12.8	13.8	14.2
	12H	12.4	13.4	12.8	13.8	14.1	12.4	13.4	12.8	13.8	14.1
4H	2H	12.5	13.8	12.9	14.1	14.4	12.5	13.8	12.9	14.1	14.4
	3H	12.4	13.4	12.8	13.8	14.1	12.4	13.4	12.8	13.8	14.1
	4H	12.2	13.2	12.7	13.6	14.0	12.2	13.2	12.7	13.6	14.0
	6H	12.0	13.4	12.4	13.8	14.3	12.0	13.4	12.4	13.8	14.3
	8H	11.8	13.5	12.3	13.9	14.4	11.8	13.5	12.3	13.9	14.4
	12H	11.7	13.5	12.2	14.0	14.5	11.7	13.5	12.2	14.0	14.5
8H	4H	11.8	13.5	12.3	13.9	14.4	11.8	13.5	12.3	13.9	14.4
	6H	11.7	13.3	12.2	13.8	14.3	11.7	13.3	12.2	13.8	14.3
	8H	11.7	13.1	12.2	13.6	14.1	11.7	13.1	12.2	13.6	14.1
	12H	11.8	12.8	12.3	13.3	13.8	11.8	12.8	12.3	13.3	13.8
12H	4H	11.7	13.5	12.2	14.0	14.5	11.7	13.5	12.2	14.0	14.5
	6H	11.7	13.1	12.2	13.6	14.1	11.7	13.1	12.2	13.6	14.1
	8H	11.8	12.8	12.3	13.3	13.8	11.8	12.8	12.3	13.3	13.8
Variations with the observer position at spacing:											
S =		1.0H	6.7 / -31.5				6.7 / -31.5				
		1.5H	9.5 / -31.8				9.5 / -31.8				
		2.0H	11.5 / -32.1				11.5 / -32.1				