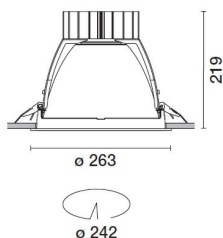


Last information update: April 2024

Product configuration: N023

N023: Fixed circular recessed luminaire - Ø242 mm - warm white - flood optic - UGR<19

**Product code**

N023: Fixed circular recessed luminaire - Ø242 mm - warm white - flood optic - UGR<19

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. Structure with die-cast aluminium perimeter frame, black, zinc-plated sheet steel brackets and extruded aluminium dissipater painted black. 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)

2.46

Mounting

ceiling recessed

Wiring

product complete with DALI components

Complies with EN60598-1 and pertinent regulations



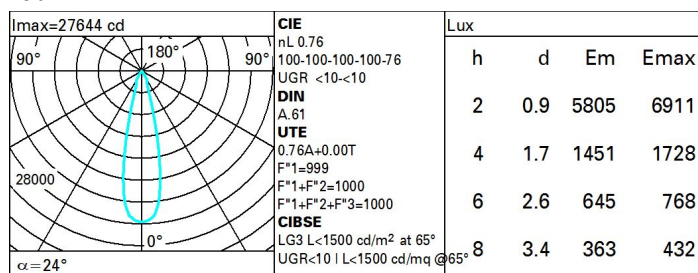
IP20

IP23

On the visible part of the product once installed

**Technical data**

lm system:	6328	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W system:	58.2	Lamp code:	LED
lm source:	8350	Number of lamps for optical assembly:	1
W source:	51	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	108.7	Number of optical assemblies:	1
lm in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	0	Inrush current:	30 A / 200 µs
Light Output Ratio (L.O.R.) [%]:	76	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 12 luminaires B16A: 20 luminaires C10A: 20 luminaires C16A: 34 luminaires
Beam angle [°]:	24°	Minimum dimming %:	1
CRI (minimum):	80	Overvoltage protection:	2kV Common mode & 2kV Differential mode
Colour temperature [K]:	3000	Control:	DALI-2
MacAdam Step:	2		

Polar

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	71	68	66	64	68	66	65	63	83
1.5	75	73	71	69	72	70	69	67	89
2.0	77	76	74	73	75	73	73	70	93
2.5	79	77	76	76	76	75	75	73	96
3.0	80	79	78	77	78	77	76	74	98
4.0	81	80	79	79	79	78	77	75	99
5.0	81	81	80	80	79	79	78	76	100

UGR diagram

Corrected UGR values (at 8350 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling		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	9.8	11.8	10.1	12.1	12.4	9.8	11.8	10.1	12.1	12.4
	3H	9.6	11.1	10.0	11.4	11.8	9.6	11.1	10.0	11.4	11.8
	4H	9.6	10.8	9.9	11.1	11.5	9.6	10.8	9.9	11.1	11.5
	6H	9.5	10.5	9.9	10.9	11.2	9.5	10.5	9.9	10.9	11.2
	8H	9.5	10.5	9.8	10.8	11.2	9.5	10.5	9.8	10.8	11.2
	12H	9.4	10.4	9.8	10.8	11.2	9.4	10.4	9.8	10.8	11.2
4H	2H	9.6	10.8	9.9	11.1	11.5	9.6	10.8	9.9	11.1	11.5
	3H	9.4	10.4	9.8	10.8	11.2	9.4	10.4	9.8	10.8	11.2
	4H	9.3	10.3	9.7	10.7	11.1	9.3	10.3	9.7	10.7	11.1
	6H	9.0	10.5	9.4	10.9	11.4	9.0	10.5	9.4	10.9	11.4
	8H	8.8	10.6	9.3	11.0	11.5	8.8	10.6	9.3	11.0	11.5
	12H	8.7	10.6	9.2	11.0	11.6	8.7	10.6	9.2	11.0	11.6
8H	4H	8.8	10.6	9.3	11.0	11.5	8.8	10.6	9.3	11.0	11.5
	6H	8.7	10.4	9.2	10.9	11.4	8.7	10.4	9.2	10.9	11.4
	8H	8.7	10.2	9.2	10.6	11.2	8.7	10.2	9.2	10.6	11.2
	12H	8.8	9.8	9.3	10.3	10.8	8.8	9.8	9.3	10.3	10.8
12H	4H	8.7	10.6	9.2	11.0	11.6	8.7	10.6	9.2	11.0	11.6
	6H	8.7	10.2	9.2	10.6	11.2	8.7	10.2	9.2	10.6	11.2
	8H	8.8	9.8	9.3	10.3	10.8	8.8	9.8	9.3	10.3	10.8
Variations with the observer position at spacing:											
S =		1.0H	6.7 / -29.8				6.7 / -29.8				
		1.5H	9.5 / -30.3				9.5 / -30.3				
		2.0H	11.5 / -30.5				11.5 / -30.5				