

Last information update: April 2024

Product configuration: N233.Y

N233.Y: Fixed circular recessed luminaire - Ø125 mm - neutral white - flood optic - UGR<19

**Product code**

N233.Y: Fixed circular recessed luminaire - Ø125 mm - neutral 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. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in neutral white colour tone (4,000K). 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 20 mm.

Colour

White / Aluminium (39)

Weight (Kg)

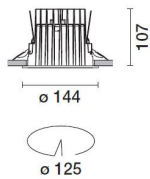
1.02

Mounting

ceiling recessed

Wiring

product complete with DALI components



Complies with EN60598-1 and pertinent regulations



IP20

IP54

On the visible part of the product once installed

**Technical data**

lm system:	3426	CRI (minimum):	80
W system:	30.4	Colour temperature [K]:	4000
lm source:	3900	MacAdam Step:	2
W source:	27	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	112.7	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	88	Number of optical assemblies:	1
Beam angle [°]:	24°	Control:	DALI-2

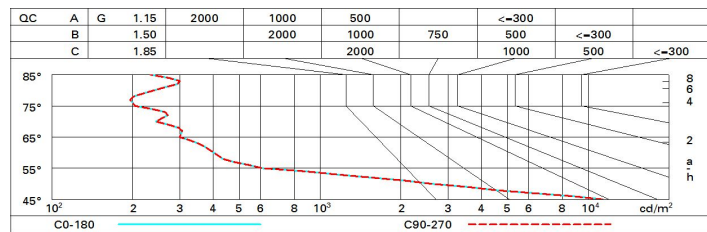
Polar

<p>imax=9275 cd</p> <p>90° 180° 90°</p> <p>10500</p> <p>0°</p> <p>α = 24°</p>	CIE nL 0.88 98-100-100-100-88 UGR 19.2-19.2 DIN A.61 UTE 0.88A+0.00T F*1=978 F*1+F*2=999 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65°				Lux			
	h		d		Em		Emax	
	2		0.9		1752		2319	
	4		1.7		438		580	
	6		2.6		195		258	
	8		3.4		110		145	

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	79	74	71	69	74	71	70	68	77
1.0	82	78	76	73	77	75	75	72	82
1.5	86	84	81	79	83	81	80	77	88
2.0	89	87	85	84	86	84	83	81	92
2.5	91	89	88	87	88	87	86	84	95
3.0	92	91	90	89	89	89	88	85	97
4.0	93	92	92	91	91	90	89	87	99
5.0	94	93	93	92	92	91	90	88	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3900 lm bare lamp luminous flux)											
Reflect.: ceiling walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	19.8	20.4	20.1	20.7	20.9	19.8	20.4	20.1	20.7	20.9
	3H	19.7	20.2	20.0	20.5	20.8	19.7	20.2	20.0	20.5	20.8
	4H	19.6	20.1	19.9	20.4	20.7	19.6	20.1	19.9	20.4	20.7
	6H	19.5	20.0	19.9	20.3	20.6	19.5	20.0	19.9	20.3	20.6
	8H	19.5	19.9	19.8	20.3	20.6	19.5	19.9	19.8	20.3	20.6
	12H	19.4	19.9	19.8	20.2	20.6	19.4	19.9	19.8	20.2	20.6
4H	2H	19.6	20.1	19.9	20.4	20.7	19.6	20.1	19.9	20.4	20.7
	3H	19.4	19.9	19.8	20.2	20.6	19.4	19.9	19.8	20.2	20.6
	4H	19.3	19.7	19.7	20.1	20.5	19.3	19.7	19.7	20.1	20.5
	6H	19.2	19.6	19.7	20.0	20.4	19.2	19.6	19.7	20.0	20.4
	8H	19.2	19.5	19.6	19.9	20.4	19.2	19.5	19.6	19.9	20.4
	12H	19.2	19.4	19.6	19.9	20.3	19.2	19.4	19.6	19.9	20.3
8H	4H	19.2	19.5	19.6	19.9	20.4	19.2	19.5	19.6	19.9	20.4
	6H	19.1	19.4	19.6	19.8	20.3	19.1	19.4	19.6	19.8	20.3
	8H	19.1	19.3	19.5	19.8	20.3	19.1	19.3	19.5	19.8	20.3
	12H	19.0	19.2	19.5	19.7	20.2	19.0	19.2	19.5	19.7	20.2
12H	4H	19.2	19.4	19.6	19.9	20.3	19.2	19.4	19.6	19.9	20.3
	6H	19.1	19.3	19.5	19.8	20.3	19.1	19.3	19.5	19.8	20.3
	8H	19.0	19.2	19.5	19.7	20.2	19.0	19.2	19.5	19.7	20.2
Variations with the observer position at spacing:											
S =		1.0H					4.4 / -24.6				
		1.5H					7.2 / -25.8				
		2.0H					9.2 / -26.2				