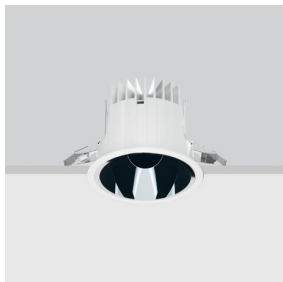


Last information update: April 2024

**Product configuration: N010**

N010: Fixed circular recessed luminaire - Ø153 mm - neutral white - medium optic - UGR&lt;19

**Product code**

N010: Fixed circular recessed luminaire - Ø153 mm - neutral white - medium optic - UGR&lt;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/m<sup>2</sup> α>65° medium 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)**

1.22

**Mounting**

ceiling recessed

**Wiring**

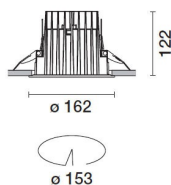
product complete with DALI components

Complies with EN60598-1 and pertinent regulations



IP20

IP54

On the visible part of  
the product once installed**Technical data**

lm system:	2776	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	23.7	Lamp code:	LED
lm source:	3200	Number of lamps for optical assembly:	1
W source:	21	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	117.1	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:	18 A / 250 µs
Light Output Ratio (L.O.R.) [%]:	87	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 [°]:	24°	Minimum dimming %:	1
CRI (minimum):	80	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	4000	Control:	DALI-2
MacAdam Step:	2		

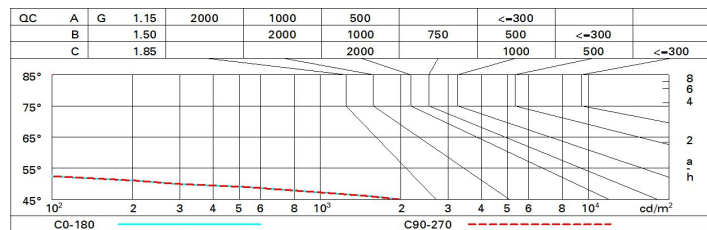
**Polar**

Imax=10792 cd		CIE		Lux			
90°	180°	nL 0.87	h	d	Em	Emax	
UGR 15.7-15.7		99-100-100-100-87	2	0.9	2056	2698	
DIN A.61		UTE	4	1.7	514	675	
0.87A+0.00T		F*1=993	6	2.6	228	300	
F*1+F*2=1000		F*1+F*2+F*3=1000	8	3.4	128	169	
CIBSE		LG3 L<1500 cd/m <sup>2</sup> at 65°					
UGR<16   L<1500 cd/m <sup>2</sup> @65°							
α=24°							

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	78	74	71	69	73	71	70	68	78
1.0	82	78	75	73	77	75	74	72	83
1.5	86	83	81	79	82	80	79	77	88
2.0	88	86	85	83	85	84	83	80	93
2.5	90	89	87	86	87	86	85	83	96
3.0	91	90	89	88	89	88	87	85	98
4.0	92	91	91	90	90	89	88	86	99
5.0	93	92	92	91	91	90	89	87	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 3200 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		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
2H	2H	16.6	18.3	16.9	18.6	18.9	16.6	18.3	16.9	18.6	18.9
	3H	16.4	17.7	16.8	18.0	18.3	16.4	17.7	16.8	18.0	18.3
	4H	16.3	17.5	16.7	17.8	18.1	16.3	17.5	16.7	17.8	18.1
	6H	16.2	17.3	16.6	17.7	18.0	16.2	17.3	16.6	17.7	18.0
	8H	16.2	17.3	16.6	17.6	18.0	16.2	17.3	16.6	17.6	18.0
	12H	16.2	17.2	16.6	17.6	17.9	16.2	17.2	16.6	17.6	17.9
4H	2H	16.3	17.5	16.7	17.8	18.1	16.3	17.5	16.7	17.8	18.1
	3H	16.2	17.2	16.6	17.6	17.9	16.2	17.2	16.6	17.6	17.9
	4H	16.0	17.0	16.5	17.4	17.8	16.0	17.0	16.5	17.4	17.8
	6H	15.8	17.1	16.3	17.5	18.0	15.8	17.1	16.3	17.5	18.0
	8H	15.7	17.2	16.2	17.6	18.1	15.7	17.2	16.2	17.6	18.1
	12H	15.5	17.2	16.0	17.7	18.2	15.5	17.2	16.0	17.7	18.2
8H	4H	15.7	17.2	16.2	17.6	18.1	15.7	17.2	16.2	17.6	18.1
	6H	15.5	17.0	16.0	17.5	18.0	15.5	17.0	16.0	17.5	18.0
	8H	15.5	16.8	16.0	17.3	17.8	15.5	16.8	16.0	17.3	17.8
	12H	15.6	16.5	16.1	17.0	17.6	15.6	16.5	16.1	17.0	17.6
12H	4H	15.5	17.2	16.0	17.7	18.2	15.5	17.2	16.0	17.7	18.2
	6H	15.5	16.8	16.0	17.3	17.8	15.5	16.8	16.0	17.3	17.8
	8H	15.6	16.5	16.1	17.0	17.6	15.6	16.5	16.1	17.0	17.6
Variations with the observer position at spacing:											
S =	1.0H	5.1 / -31.3					5.1 / -31.3				
	1.5H	7.9 / -31.6					7.9 / -31.6				
	2.0H	9.9 / -31.8					9.9 / -31.8				