

Last information update: April 2024

**Product configuration: N069**

N069: adjustable luminaire - Ø 75 mm - warm white - medium optic - frame

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**Technical description**

Round adjustable luminaire designed to use an LED lamp with C.O.B. technology in a warm white colour tone 2,700K. Version with rim for surface-mounting. Painted, die-cast aluminium body. Lower reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Anodised aluminium upper reflector. Black, zinc-plated sheet steel bracket. The luminaire can be rotated 30° relative to the horizontal plane and 358° about the vertical axis. The luminaire is fitted with mechanical locks for light beam aiming. Painted extruded aluminium dissipater.

**Installation**

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

**Weight (Kg)**

0.45

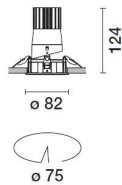
**Mounting**

ceiling recessed

**Wiring**

Product complete with DALI components

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	165	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	11.1	Lamp code:	LED
lm source:	1100	Number of lamps for optical assembly:	1
W source:	8.7	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	14.8	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:	16 A / 220 µs
Light Output Ratio (L.O.R.) [%]:	15	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 15 luminaires B16A: 24 luminaires C10A: 24 luminaires C16A: 40 luminaires
Beam angle [°]:	19° / 18°	Overvoltage protection:	2kV Common mode & 1kV Differential mode
CRI (minimum):	90	Dimming mode:	PWM
Colour temperature [K]:	2700	Control:	DALI
MacAdam Step:	2		

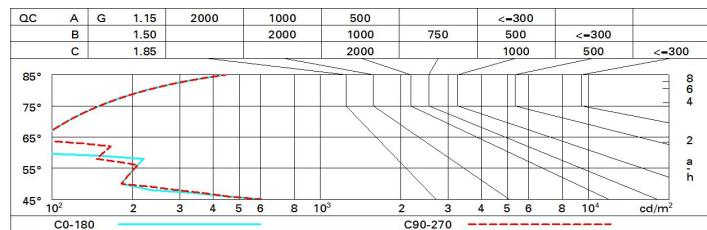
**Polar**

Imax=1315 cd		C0-180		CIE		Lux	
90°	180°	90°	180°	nL 0.15	99-100-100-100-15	h	d1 d2 Em Emax
				UGR <10-10		1	0.3 0.3 970 1312
				DIN A.61		2	0.7 0.6 243 328
				UTE 0.15A+0.00T		3	1 1 108 146
				F*1=992		4	1.3 1.3 61 82
				F*1+F*2=998			
				F*1+F*2+F*3=999			
				CIBSE LG3 L<1500 cd/m² at 65°			
				UGR<10   L<1500 cd/mq @65°			
α = 19° / 18°							

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	13	13	12	12	13	12	12	12	78
1.0	14	13	13	13	13	13	13	12	82
1.5	15	14	14	14	14	14	14	13	88
2.0	15	15	15	14	15	14	14	14	93
2.5	16	15	15	15	15	15	15	14	95
3.0	16	16	15	15	15	15	15	15	97
4.0	16	16	16	16	15	15	15	15	99
5.0	16	16	16	16	16	16	15	15	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 1100 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	-1.2	0.9	-0.8	1.2	1.5	4.7	6.7	5.0	7.0	7.4
	3H	-1.2	0.2	-0.9	0.5	0.8	4.6	6.0	4.9	6.3	6.6
	4H	-1.2	-0.1	-0.8	0.3	0.6	4.5	5.6	4.9	6.0	6.3
	6H	-1.0	-0.2	-0.6	0.1	0.5	4.5	5.3	4.9	5.6	6.0
	8H	-0.9	-0.1	-0.5	0.3	0.6	4.4	5.3	4.8	5.6	6.0
	12H	-0.7	0.2	-0.3	0.5	0.9	4.4	5.3	4.8	5.6	6.0
4H	2H	-1.3	-0.2	-0.9	0.1	0.5	4.5	5.7	4.9	6.0	6.3
	3H	-1.3	-0.4	-0.9	-0.1	0.3	4.4	5.3	4.8	5.7	6.0
	4H	-1.3	-0.3	-0.9	0.1	0.5	4.3	5.2	4.7	5.6	6.0
	6H	-1.3	0.3	-0.9	0.8	1.2	3.9	5.6	4.4	6.0	6.5
	8H	-1.2	0.7	-0.7	1.1	1.6	3.8	5.7	4.3	6.1	6.6
	12H	-0.9	1.0	-0.4	1.5	2.0	3.7	5.6	4.2	6.1	6.6
8H	4H	-1.7	0.2	-1.2	0.6	1.1	3.9	5.8	4.4	6.2	6.7
	6H	-1.3	0.4	-0.8	0.9	1.4	3.8	5.5	4.4	6.0	6.6
	8H	-0.9	0.5	-0.4	1.0	1.5	3.9	5.3	4.4	5.8	6.3
	12H	-0.2	0.8	0.3	1.3	1.8	4.0	5.0	4.6	5.5	6.1
12H	4H	-1.8	0.1	-1.3	0.6	1.1	3.9	5.8	4.4	6.3	6.8
	6H	-1.2	0.2	-0.7	0.7	1.2	4.0	5.4	4.5	5.9	6.4
	8H	-0.7	0.3	-0.1	0.8	1.4	4.2	5.2	4.7	5.7	6.2
Variations with the observer position at spacing:											
S =	1.0H	3.2 / -2.5					8.1 / -6.6				
	1.5H	5.6 / -2.8					10.8 / -6.8				
	2.0H	7.4 / -3.0					12.8 / -7.1				