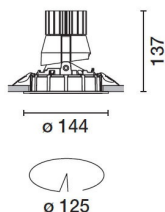


Last information update: April 2024

**Product configuration: N089.Y**

N089.Y: adjustable luminaire - Ø 125 mm - warm white - medium optic - frame

**Product code**

N089.Y: adjustable luminaire - Ø 125 mm - warm white - medium optic - frame

**Technical description**

Round adjustable luminaire designed to use an LED lamp with C.O.B. technology in a warm white colour tone 3000K (CRI 90). 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.

**Colour**

White / Aluminium (39)

**Weight (Kg)**

0.8

**Mounting**

ceiling recessed

**Wiring**

Product complete with DALI components

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	1239	CRI (minimum):	90
W system:	24.5	Colour temperature [K]:	3000
lm source:	2700	MacAdam Step:	2
W source:	21	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	50.6	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.) [%]:	46	Number of optical assemblies:	1
Beam angle [°]:	20° / 22°	Control:	DALI-2

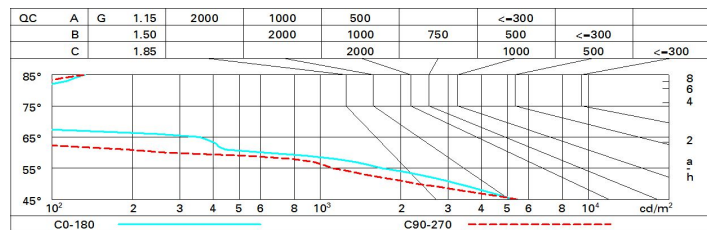
**Polar**

		<b>CIE</b> nL 0.46 98-100-100-100-46 UGR <10-10 <b>DIN</b> A.61 <b>UTE</b> 0.46A+0.00T F*1=980 F*1+F*2=999 F*1+F*2+F*3=1000 <b>CIBSE</b> LG3 L<1500 cd/m² at 65° UGR<10   L<1500 cd/mq @65°		<b>Lux</b>	
h	d1	d2	Em	Emax	
2	0.7	0.8	919	1209	
4	1.4	1.6	230	302	
6	2.1	2.3	102	134	
8	2.8	3.1	57	76	

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	41	39	37	36	38	37	37	35	77
1.0	43	41	40	38	40	39	39	37	82
1.5	45	44	43	42	43	42	42	40	88
2.0	47	46	45	44	45	44	44	42	92
2.5	47	47	46	45	46	45	45	44	95
3.0	48	48	47	47	47	46	46	45	97
4.0	49	48	48	48	47	47	46	45	99
5.0	49	49	48	48	48	48	47	46	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 2700 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	3.6	4.2	3.9	4.4	4.7	7.9	8.4	8.1	8.7	8.9
	3H	3.5	4.0	3.8	4.3	4.6	7.7	8.3	8.1	8.5	8.8
	4H	3.5	3.9	3.8	4.2	4.5	7.7	8.1	8.0	8.4	8.7
	6H	3.4	3.8	3.7	4.1	4.5	7.6	8.0	7.9	8.3	8.7
	8H	3.4	3.8	3.7	4.1	4.4	7.6	8.0	7.9	8.3	8.6
	12H	3.3	3.7	3.7	4.1	4.4	7.5	7.9	7.9	8.3	8.6
4H	2H	3.5	3.9	3.8	4.2	4.5	7.7	8.1	8.0	8.4	8.7
	3H	3.4	3.8	3.7	4.1	4.5	7.5	7.9	7.9	8.3	8.6
	4H	3.3	3.6	3.7	4.0	4.4	7.4	7.8	7.8	8.2	8.5
	6H	3.2	3.5	3.6	3.9	4.3	7.3	7.7	7.8	8.1	8.5
	8H	3.2	3.4	3.6	3.9	4.3	7.3	7.6	7.7	8.0	8.4
	12H	3.1	3.4	3.6	3.8	4.3	7.2	7.5	7.7	7.9	8.4
8H	4H	3.2	3.4	3.6	3.9	4.3	7.3	7.6	7.7	8.0	8.4
	6H	3.1	3.3	3.5	3.8	4.2	7.2	7.4	7.7	7.9	8.4
	8H	3.0	3.2	3.5	3.7	4.2	7.2	7.4	7.6	7.8	8.3
	12H	3.0	3.1	3.5	3.6	4.2	7.1	7.3	7.6	7.8	8.3
12H	4H	3.1	3.4	3.6	3.8	4.3	7.2	7.5	7.7	7.9	8.4
	6H	3.0	3.2	3.5	3.7	4.2	7.2	7.4	7.6	7.8	8.3
	8H	3.0	3.1	3.5	3.6	4.1	7.1	7.3	7.6	7.8	8.3
Variations with the observer position at spacing:											
S =	1.0H	3.0 / -7.9					3.9 / -9.4				
	1.5H	4.7 / -8.8					6.6 / -18.6				
	2.0H	6.6 / -13.5					8.6 / -19.7				