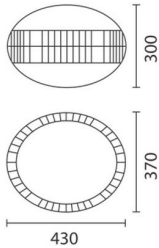


Last information update: June 2018

**downlight emission - warm white - DALI****Product code**

N309

Technical description

Luminaire consisting of two polycarbonate shells with a photoengraved surface for optimal light diffusion. The shells are closed with specific supports that the suspension cables (accessories) are connected to. The coupling between the shells is made watertight by a silicone gasket located around the edge and a M24 nickel-plated brass cable gland for the power supply cable outlet. The superpure microporous aluminium surface of the reflector is protected by a microprismatic glass cover. Product complete with warm white 3000K colour tone C.o.B. LEDs positioned on the support plate of the two shells.

Installation

Ceiling-mounted with suspension cables to be ordered separately.

Dimension (mm)

430x370x300

Colour

Nitric (65)

Weight (Kg)

5.44

Mounting

ceiling surface

Wiring

Product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP66

**Product configuration: N309****Product characteristics**

Total lighting output [Lm]: 3799
Total power [W]: 35.4
Luminous efficacy [Lm/W]: 107.3
Life Time: > 50,000h - L80 - B10 (Ta 25°C)

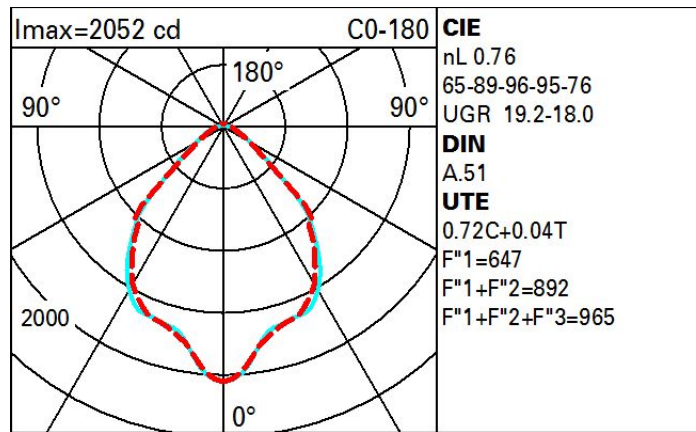
Total luminous flux at or above an angle of 90° [Lm]: 196
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 76
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 32
Nominal luminous [Lm]: 5000
Lamp maximum intensity [cd]: /
Beam angle [°]: /

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 3.4
Colour temperature [K]: 3000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 2

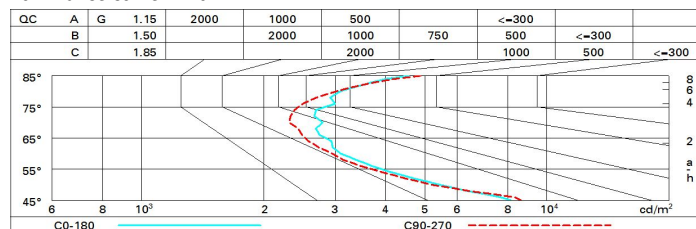
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	55	48	44	40	47	43	42	37	52
1.0	59	53	49	46	52	48	47	42	59
1.5	66	61	57	54	59	56	55	50	70
2.0	70	66	63	60	64	61	60	55	77
2.5	72	69	66	64	67	64	63	59	81
3.0	73	71	68	66	69	67	65	61	85
4.0	75	73	71	69	71	69	67	63	88
5.0	76	74	73	71	72	71	69	65	90

Luminance curve limit



UGR diagram

Corrected UGR values (at 5000 lm bare lamp luminous flux)												
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise					
2H	2H	16.6	17.5	17.0	17.8	18.2	16.4	17.3	16.8	17.7	18.0	18.0
	3H	17.2	18.0	17.6	18.4	18.8	16.6	17.4	17.0	17.7	18.1	18.1
	4H	17.6	18.3	18.0	18.7	19.2	16.6	17.3	17.0	17.7	18.2	18.2
	6H	18.0	18.7	18.4	19.1	19.6	16.6	17.3	17.0	17.7	18.2	18.2
	8H	18.2	18.9	18.7	19.3	19.8	16.6	17.3	17.0	17.7	18.1	18.1
	12H	18.5	19.1	18.9	19.6	20.0	16.6	17.2	17.0	17.6	18.1	18.1
4H	2H	16.7	17.5	17.2	17.9	18.3	17.2	18.0	17.7	18.4	18.8	18.8
	3H	17.6	18.3	18.1	18.7	19.2	17.6	18.3	18.1	18.7	19.2	19.2
	4H	18.2	18.8	18.7	19.3	19.8	17.8	18.4	18.3	18.8	19.3	19.3
	6H	18.8	19.3	19.4	19.8	20.4	18.0	18.5	18.5	19.0	19.5	19.5
	8H	19.2	19.6	19.7	20.1	20.7	18.0	18.5	18.6	19.0	19.6	19.6
	12H	19.5	20.0	20.1	20.5	21.1	18.1	18.5	18.6	19.0	19.6	19.6
8H	4H	18.5	18.9	19.0	19.4	20.0	18.7	19.2	19.3	19.7	20.3	20.3
	6H	19.3	19.7	19.9	20.3	20.9	19.1	19.5	19.7	20.0	20.6	20.6
	8H	19.9	20.2	20.4	20.8	21.4	19.3	19.7	19.9	20.2	20.8	20.8
	12H	20.4	20.7	21.0	21.3	21.9	19.6	19.9	20.2	20.4	21.1	21.1
12H	4H	18.5	18.9	19.0	19.4	20.0	19.2	19.6	19.7	20.1	20.7	20.7
	6H	19.5	19.8	20.0	20.3	21.0	19.7	20.0	20.2	20.6	21.2	21.2
	8H	20.1	20.4	20.7	21.0	21.6	20.0	20.3	20.6	20.8	21.5	21.5
Variations with the observer position at spacing:												
S =		1.0H	0.4 / -0.4		0.5 / -0.5							
		1.5H	0.8 / -0.7		0.9 / -0.9							
		2.0H	1.5 / -1.0		1.6 / -1.1							