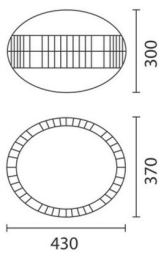


Last information update: May 2024

Product configuration: N311

N311: up/down emission - warm white - DALI

**Product code**N311: up/down emission - warm white - DALI **Attention! Code no longer in production****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. Double reflector in microperforated aluminium for up/down emission complete with microprismatic glass covers. Product with 2 x warm white 3000K colour tone C.o.B. LEDs, one positioned at the top of the plate for up emission (30%) and the other at the bottom for down emission (70%)

Installation

Ceiling-mounted with suspension cables to be ordered separately.

Colour

Nitric (65)

Weight (Kg)

5.44

Mounting

ceiling surface

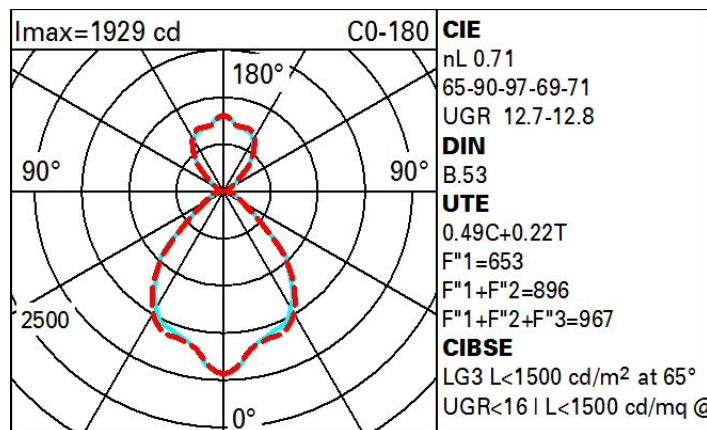
Wiring

Product complete with DALI components

Complies with EN60598-1 and pertinent regulations

**Technical data**

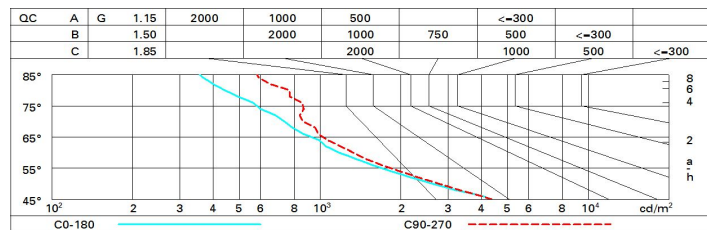
lm system:	4969	Colour temperature [K]:	3000
W system:	51.8	MacAdam Step:	2
lm source:	7000	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W source:	46	Lamp code:	LED
Luminous efficiency (lm/W, real value):	95.9	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	1524	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	71	Control:	DALI
CRI:	80		

Polar

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	46	40	36	33	37	33	31	26	52
1.0	50	44	40	37	41	38	35	29	59
1.5	56	51	48	45	47	44	41	35	70
2.0	59	56	53	50	51	49	45	38	77
2.5	61	58	56	54	53	51	47	40	82
3.0	63	60	58	56	55	53	49	42	85
4.0	64	62	60	59	57	56	51	43	88
5.0	65	64	62	61	58	57	52	44	90

Luminance curve limit



UGR diagram

Corrected UGR values (at 7000 lm bare lamp luminous flux)											
Riflect.: ceil/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
		0.50	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
		viewed crosswise					viewed endwise				
2H	2H	12.0	12.7	12.7	13.4	14.2	12.2	12.9	12.9	13.6	14.4
	3H	12.3	12.9	13.0	13.6	14.5	12.2	12.8	13.0	13.6	14.4
	4H	12.4	12.9	13.1	13.7	14.6	12.2	12.7	12.9	13.5	14.4
	6H	12.4	13.0	13.2	13.7	14.6	12.1	12.6	12.9	13.4	14.3
	8H	12.4	13.0	13.2	13.7	14.7	12.0	12.6	12.8	13.3	14.2
	12H	12.5	12.9	13.3	13.7	14.7	12.0	12.5	12.8	13.3	14.2
4H	2H	12.0	12.6	12.7	13.3	14.2	12.7	13.3	13.5	14.1	14.9
	3H	12.4	12.8	13.1	13.6	14.6	12.9	13.3	13.6	14.1	15.1
	4H	12.5	13.0	13.3	13.7	14.7	12.9	13.3	13.7	14.1	15.1
	6H	12.7	13.0	13.5	13.9	14.9	12.9	13.2	13.7	14.1	15.1
	8H	12.7	13.1	13.6	13.9	14.9	12.8	13.2	13.7	14.0	15.0
	12H	12.8	13.1	13.6	13.9	14.9	12.8	13.1	13.7	14.0	15.0
8H	4H	12.5	12.9	13.4	13.7	14.7	13.4	13.7	14.2	14.5	15.5
	6H	12.7	13.0	13.6	13.9	14.9	13.5	13.7	14.3	14.6	15.6
	8H	12.8	13.1	13.7	14.0	15.0	13.5	13.7	14.4	14.6	15.7
	12H	12.9	13.2	13.8	14.0	15.1	13.5	13.7	14.4	14.6	15.7
12H	4H	12.5	12.8	13.3	13.6	14.7	13.5	13.8	14.3	14.6	15.7
	6H	12.7	13.0	13.6	13.8	14.9	13.6	13.9	14.5	14.7	15.8
	8H	12.9	13.1	13.8	14.0	15.0	13.7	13.9	14.6	14.8	15.9
Variations with the observer position at spacing:											
S =	1.0H	0.8 / -1.2					0.7 / -1.0				
	1.5H	2.0 / -2.0					1.8 / -1.6				
	2.0H	3.5 / -2.4					3.1 / -1.9				