Reflex

Last information update: April 2025

Product configuration: N110.39

N110.39: adjustable luminaire - Ø 212 mm - warm white - flood optic - frame - 43W 3472.7lm - 3000K - CRI 90 - White / Aluminium

Product code

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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 3000K (CRI 90). Version with rim for surface-mounting. 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

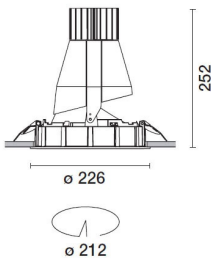Installation flush with the ceiling is for false ceilings 12.5 mm thick

Colour	Weight (Kg)
White / Aluminium (39)	1.9

Mounting
ceiling recessed

Wiring
Product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP20   IP23   CE   ⟨03⟩   ⟨S⟩   EHC   QCERT   NOM   ⟨⟩   ⟨S⟩

ø 226 | 252 | ø 212

Technical data

lm system:	3473	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	43	Lamp code:	LED
lm source:	5350	Number of lamps for optical assembly:	1
W source:	39		
Luminous efficiency (lm/W, real value):	80.8	ZVEI Code:	LED
		Number of optical assemblies:	1
lm in emergency mode:	-		
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
		Inrush current:	30 A / 200 µs
Light Output Ratio (L.O.R.) [%]:	65	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 12 luminaires
Beam angle [°]:	32° / 31°		B16A: 20 luminaires
CRI (minimum):	90		C10A: 20 luminaires
Colour temperature [K]:	3000		C16A: 34 luminaires
MacAdam Step:	2	Minimum dimming %:	1
		Overvoltage protection:	2kV Common mode & 2kV Differential mode
		Control:	DALI-2

Polar

Imax=10930 cd   C145-325

CIE
nL 0.65
99-100-100-100-65
UGR <10-<10
DIN
A.61
UTE
0.65A+0.00T
F"1=991
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

α=31°

Lux				
h	d1	d2	Em	Emax
2	1.1	1.1	2091	2721
4	2.2	2.2	523	680
6	3.4	3.3	232	302
8	4.5	4.4	131	170
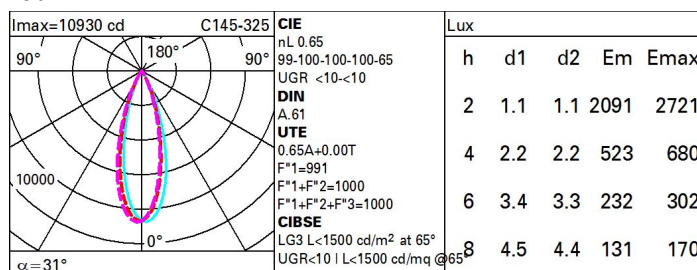
Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	58	55	53	52	55	53	53	50	78
1.0	61	58	56	55	58	56	56	53	82
1.5	64	62	60	59	61	60	59	57	88
2.0	66	65	63	62	64	63	62	60	93
2.5	67	66	65	65	65	64	64	62	96
3.0	68	67	67	66	66	66	65	63	98
4.0	69	68	68	67	67	67	66	64	99
5.0	69	69	69	68	68	68	67	65	100

Luminance curve limit

QC	A	G	1.15	2000	1000	500		<=300		
	B		1.50		2000	1000	750	500	<=300	
	C		1.85			2000		1000	500	<=300

C0-180 ———— C90-270 - - - - - - -
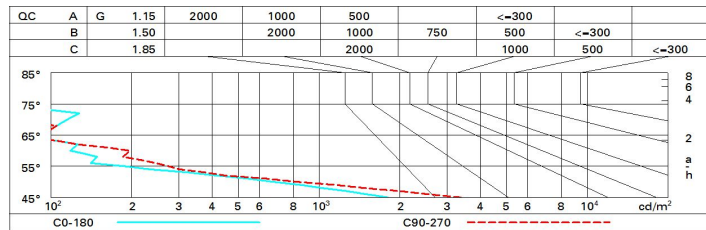
UGR diagram

Corrected UGR values (at 5350 lm bare lamp luminous flux)

Riflect.:											
ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed					viewed		
x	y			crosswise					endwise		
2H	2H	7.4	7.9	7.7	8.2	8.4	5.9	6.5	6.2	6.7	6.9
	3H	7.3	7.8	7.6	8.0	8.3	5.8	6.3	6.1	6.5	6.8
	4H	7.2	7.7	7.5	7.9	8.2	5.7	6.2	6.0	6.5	6.7
	6H	7.1	7.5	7.5	7.8	8.2	5.6	6.0	6.0	6.4	6.7
	8H	7.1	7.5	7.4	7.8	8.1	5.6	6.0	5.9	6.3	6.7
	12H	7.0	7.4	7.4	7.8	8.1	5.6	5.9	5.9	6.3	6.6
4H	2H	7.2	7.6	7.5	7.9	8.2	5.7	6.2	6.0	6.4	6.7
	3H	7.0	7.4	7.4	7.8	8.1	5.6	5.9	5.9	6.3	6.6
	4H	7.0	7.3	7.3	7.7	8.0	5.5	5.8	5.9	6.2	6.6
	6H	6.9	7.2	7.3	7.6	8.0	5.4	5.7	5.8	6.1	6.5
	8H	6.8	7.1	7.3	7.5	7.9	5.3	5.6	5.8	6.0	6.5
	12H	6.8	7.0	7.2	7.4	7.9	5.3	5.5	5.7	6.0	6.4
8H	4H	6.8	7.1	7.3	7.5	7.9	5.3	5.6	5.8	6.0	6.5
	6H	6.7	7.0	7.2	7.4	7.9	5.2	5.5	5.7	5.9	6.4
	8H	6.7	6.9	7.2	7.3	7.8	5.2	5.4	5.7	5.8	6.3
	12H	6.6	6.8	7.1	7.3	7.8	5.1	5.3	5.6	5.8	6.3
12H	4H	6.8	7.0	7.2	7.4	7.9	5.3	5.5	5.7	6.0	6.4
	6H	6.7	6.9	7.2	7.3	7.8	5.2	5.4	5.7	5.8	6.3
	8H	6.6	6.8	7.1	7.3	7.8	5.1	5.3	5.6	5.8	6.3

Variations with the observer position at spacing:

S =				
	1.0H	6.3 / -17.3		4.4 / -14.5
	1.5H	9.1 / -18.8		7.2 / -18.5
	2.0H	11.1 / -20.7		9.2 / -22.0