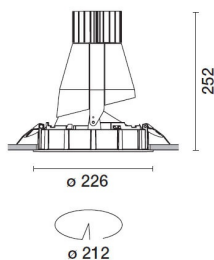


Last information update: May 2024

Product configuration: N103

N103: adjustable luminaire - Ø 212 mm - warm white - medium optic - frame

**Product code**N103: adjustable luminaire - Ø 212 mm - warm white - medium optic - frame **Attention! Code no longer in production****Technical description**

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

White / Aluminium (39)

Weight (Kg)

1.9

Mounting

ceiling recessed

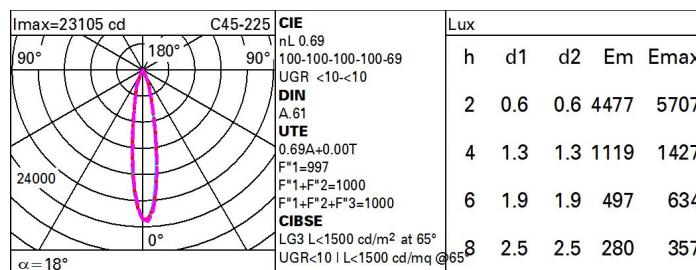
Wiring

Product complete with electronic components

Complies with EN60598-1 and pertinent regulations

**Technical data**

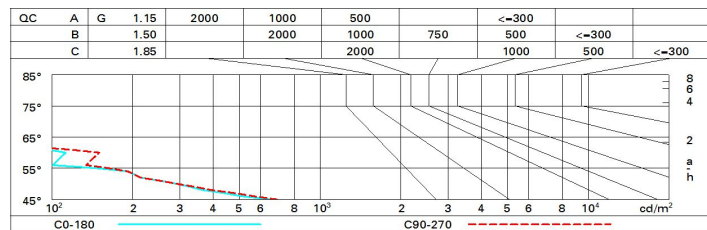
lm system:	3508	CRI (minimum):	80
W system:	36	Colour temperature [K]:	3000
lm source:	5100	MacAdam Step:	2
W source:	32	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	97.5	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	69	Number of optical assemblies:	1
Beam angle [°]:	18°		

Polar

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	62	59	57	55	58	56	56	54	78
1.0	65	62	60	58	61	59	59	57	83
1.5	68	66	64	63	65	64	63	61	89
2.0	70	69	67	66	68	66	66	64	93
2.5	71	70	69	69	69	68	68	66	96
3.0	72	71	71	70	70	70	69	67	98
4.0	73	72	72	72	71	71	70	68	99
5.0	74	73	73	73	72	72	71	69	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 5100 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	-4.4	-2.2	-4.0	-1.9	-1.6	-2.8	-0.6	-2.4	-0.3	0.0
	3H	-4.5	-2.9	-4.1	-2.6	-2.2	-2.9	-1.3	-2.5	-1.0	-0.6
	4H	-4.6	-3.3	-4.2	-2.9	-2.6	-2.9	-1.6	-2.6	-1.3	-1.0
	6H	-4.6	-3.6	-4.2	-3.3	-2.9	-3.0	-2.0	-2.6	-1.7	-1.3
	8H	-4.6	-3.7	-4.3	-3.3	-3.0	-3.0	-2.0	-2.6	-1.7	-1.3
	12H	-4.7	-3.7	-4.3	-3.3	-3.0	-3.1	-2.1	-2.7	-1.7	-1.4
4H	2H	-4.6	-3.3	-4.2	-2.9	-2.6	-2.9	-1.6	-2.6	-1.3	-1.0
	3H	-4.7	-3.7	-4.3	-3.3	-2.9	-3.1	-2.1	-2.7	-1.7	-1.3
	4H	-4.8	-3.8	-4.4	-3.4	-3.0	-3.2	-2.2	-2.8	-1.8	-1.4
	6H	-5.2	-3.5	-4.7	-3.0	-2.5	-3.6	-1.8	-3.1	-1.4	-0.9
	8H	-5.3	-3.4	-4.8	-2.9	-2.4	-3.7	-1.8	-3.2	-1.3	-0.8
	12H	-5.4	-3.4	-4.9	-3.0	-2.4	-3.8	-1.8	-3.3	-1.4	-0.8
8H	4H	-5.3	-3.4	-4.8	-2.9	-2.4	-3.7	-1.8	-3.2	-1.3	-0.8
	6H	-5.4	-3.6	-4.9	-3.1	-2.6	-3.8	-2.0	-3.3	-1.5	-1.0
	8H	-5.4	-3.9	-4.9	-3.4	-2.8	-3.8	-2.3	-3.3	-1.8	-1.2
	12H	-5.3	-4.3	-4.8	-3.8	-3.3	-3.7	-2.7	-3.2	-2.2	-1.7
12H	4H	-5.4	-3.4	-4.9	-3.0	-2.4	-3.8	-1.8	-3.3	-1.4	-0.8
	6H	-5.4	-3.9	-4.9	-3.4	-2.8	-3.8	-2.3	-3.3	-1.8	-1.2
	8H	-5.3	-4.3	-4.8	-3.8	-3.3	-3.7	-2.7	-3.2	-2.2	-1.7
Variations with the observer position at spacing:											
S =	1.0H	4.7 / -12.2					4.6 / -11.5				
	1.5H	7.5 / -15.8					7.4 / -15.9				
	2.0H	9.5 / -15.3					9.3 / -16.8				