Design iGuzzini

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Last information update: April 2024

Product configuration: N109

N109: adjustable luminaire - Ø 212 mm - warm white - medium optic - frame



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 White / Aluminium (39)

lite / Aluminium (39)



ceiling recessed

Wiring

Product complete with DALI components

Complies with EN60598-1 and pertinent regulations











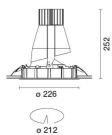


Weight (Kg)

1.9







Technical data					
Im system:	3680	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)		
W system:	43	Lamp code:	LED		
Im source:	5350	Number of lamps for optical	1		
W source:	39	assembly:			
Luminous efficiency (lm/W,	85.6	ZVEI Code:	LED		
real value):		Number of optical	1		
Im in emergency mode:	-	assemblies:			
Total light flux at or above	0	Power factor:	See installation instructions		
an angle of 90° [Lm]:		Inrush current:	30 A / 200 μs		
Light Output Ratio (L.O.R.)	69	Maximum number of	B10A: 12 luminaires B16A: 20 luminaires C10A: 20 luminaires C16A: 34 luminaires		
[%]:	100	luminaires of this type per miniature circuit breaker:			
Beam angle [°]:	18°	miniature circuit breaker.			
CRI (minimum):	90				
Colour temperature [K]:	3000	Minimum dimming %:	1		
MacAdam Step:	2	· ·	1		
		Overvoltage protection:	2kV Common mode & 2kV Differential mode		
		Control:	DALI-2		

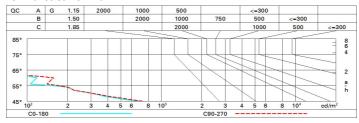
Polar

Imax=24238 cd	C45-225		Lux				
90°	90°	nL 0.69 100-100-100-100-69	h	d1	d2	Em	Emax
	\mathcal{L}	UGR <10-<10 DIN A.61	2	0.6	0.6	4697	5986
	$\langle \rangle \rangle$	UTE 0.69A+0.00T F"1=997	4	1.3	1.3	1174	1497
24000	\mathcal{N}	F"1+F"2=1000 F"1+F"2+F"3=1000 CIBSE	6	1.9	1.9	522	665
α=18°		LG3 L<1500 cd/m² at 65° UGR<10 L<1500 cd/mq @	9 ₆₅ 8	2.5	2.5	294	374

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



Corre	ected UC	R value:	s (at 535	0 Im bar	e lamp lu	eu oni mu	flux)						
Rifle	ct.:												
ce il/c	av	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	0.2		
Roon	n dim	viewed						viewed					
x	У		(crosswis	e	endwise							
2H	2H	-4.2	-2.1	-3.8	-1.8	-1.4	-2.6	-0.5	-2.2	-0.1	0.:		
	ЗН	-4.3	-2.7	-4.0	-2.4	-2.1	-2.7	-1.1	-2.4	-0.8	-0.		
	4H	-4.4	-3.1	-4.0	-2.8	-2.4	-2.8	-1.5	-2.4	-1.2	-0.		
	бН	-4.4	-3.5	-4.0	-3.1	-2.8	-2.8	-1.8	-2.4	-1.5	-1.		
	нв	-4.5	-3.5	-4.1	-3.2	-2.8	-2.9	-1.9	-2.5	-1.5	-13		
	12H	-4.5	-3.5	-4.1	-3.2	-2.8	-2.9	-1.9	-2.5	-1.6	-1.		
4H	2H	-4.4	-3.1	-4.0	-2.8	-2.4	-2.8	-1.5	-2.4	-1.2	-0.		
	ЗН	-4.5	-3.5	-4.1	-3.2	-2.8	-2.9	-1.9	-2.5	-1.6	-1.		
	4H	-4.7	-3.6	-4.2	-3.2	-2.8	-3.1	-2.0	-2.6	-1.6	-1.		
	бН	-5.0	-3.3	-4.5	-2.8	-2.4	-3.4	-1.7	-2.9	-1.2	-0.8		
	HS	-5.2	-3.2	-4.7	-2.8	-2.3	-3.5	-1.6	-3.1	-1.1	-0.		
	12H	-5.3	-3.3	-4.7	-2.8	-2.3	-3.6	-1.7	-3.1	-1.2	-0.		
вн	4H	-5.2	-3.2	-4.7	-2.8	-2.3	-3.6	-1.6	-3.1	-1.2	-0.		
	6H	-5.3	-3.5	-4.7	-3.0	-2.4	-3.7	-1.9	-3.1	-1.4	-0.		
	ВН	-5.3	-3.7	-4.7	-3.2	-2.7	-3.7	-2.1	-3.1	-1.6	-1.		
	12H	-5.1	-4.1	-4.6	-3.6	-3.1	-3.5	-2.5	-3.0	-2.0	-1.5		
12H	4H	-5.3	-3.3	-4.7	-2.8	-2.3	-3.6	-1.7	-3.1	-1.2	-0.		
	6H	-5.3	-3.7	-4.7	-3.2	-2.7	-3.7	-2.1	-3.1	-1.6	-1.		
	HS	-5.1	-4.1	-4.6	-3.6	-3.1	-3.5	-2.5	-3.0	-2.0	-13		
Varia	tions wi	th the ol	oserver	osition	at spacin	ıg:							
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							