

View Opti Beam Lens round

Design iGuzzini /
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iGuzzini

Last information update: May 2025

Product configuration: 443B

443B: round small body spotlight - medium



Product code

443B: round small body spotlight - medium

Technical description

Indoor adjustable spotlight with adapter for installation on a three-phase/DALI track. Device made of die-cast aluminium and a front part made of a thermoplastic material. Spotlight double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Optical assembly consisting of Neutral White tone 4000K LEDs with OPTIBEAM LENS technology and a medium light beam. Dimmable DALI driver built-in to box with a semi-hidden system on track. Option of installing a range of flat accessories including an OPTIBEAM REFRACTOR for varying light distribution, an elliptical distribution refractor, a louvre, a soft lens and an outdoor accessory like an asymmetric visor for eliminating stray light dispersion on the ceiling.

Installation

On a three-phase/DALI electrified track

Colour

Black (04) | Black / White (47)

Weight (Kg)

1.02

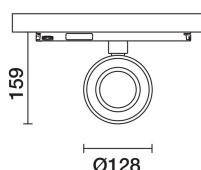
Mounting

dali track|three circuit track

Wiring

Product complete with DALI dimmable components, housed in a semi-hidden box on the track.

Complies with EN60598-1 and pertinent regulations



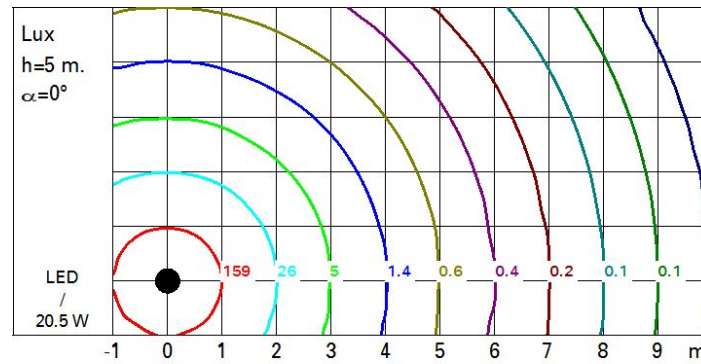
Technical data

Im system:	1692	MacAdam Step:	2
W system:	20.5	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Im source:	2020	Lamp code:	LED
W source:	18	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	82.5	ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	84	Inrush current:	5 A / 50 µs
Beam angle [°]:	26°	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 31 luminaires B16A: 50 luminaires C10A: 52 luminaires C16A: 85 luminaires
CRI (minimum):	97	Overvoltage protection:	4kV Common mode & 2kV Differential mode
Colour temperature [K]:	4000	Control:	DALI-2

Polar

Imax=6675 cd		Lux			
90°	180°	h	d	Em	E _{max}
		2	1	1343	1669
		4	1.9	336	417
		6	2.9	149	185
		8	3.8	84	104
α = 27°					

Isolux



UGR diagram

Corrected UGR values (at 2020 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling		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 crosswise					viewed endwise				
x	y										
2H	2H	13.9	15.9	14.3	10.2	10.5	13.9	15.9	14.3	10.2	10.5
	3H	14.7	16.2	15.0	10.5	10.8	14.1	15.7	14.5	10.0	10.3
	4H	14.9	16.2	15.3	10.5	10.9	14.2	15.5	14.6	15.8	10.2
	6H	15.1	16.1	15.5	10.5	10.8	14.3	15.3	14.6	15.6	10.0
	8H	15.1	16.1	15.5	10.5	10.9	14.2	15.2	14.6	15.6	10.0
	12H	15.1	16.1	15.5	10.5	10.8	14.2	15.2	14.6	15.5	15.9
4H	2H	14.2	15.5	14.6	15.8	10.2	14.9	16.2	15.3	10.5	10.9
	3H	15.2	16.2	15.6	10.5	10.9	15.4	16.3	15.8	10.7	17.1
	4H	15.5	16.4	15.9	10.8	17.2	15.5	16.4	15.9	10.8	17.2
	6H	15.5	17.0	15.9	17.5	18.0	15.3	16.9	15.8	17.3	17.8
	8H	15.4	17.2	15.9	17.7	18.2	15.2	17.0	15.7	17.5	18.0
	12H	15.4	17.2	15.9	17.7	18.2	15.2	17.0	15.7	17.5	18.0
8H	4H	15.2	17.0	15.7	17.5	18.0	15.4	17.2	15.9	17.7	18.2
	6H	15.5	17.2	16.0	17.7	18.2	15.5	17.3	16.1	17.7	18.3
	8H	15.6	17.1	16.1	17.6	18.2	15.6	17.1	16.1	17.6	18.2
	12H	15.8	16.8	16.3	17.3	17.9	15.8	16.8	16.3	17.3	17.9
12H	4H	15.2	17.0	15.7	17.5	18.0	15.4	17.2	15.9	17.7	18.2
	6H	15.5	17.1	16.1	17.5	18.1	15.6	17.1	16.1	17.6	18.1
	8H	15.8	16.8	16.3	17.3	17.9	15.8	16.8	16.3	17.3	17.9
Variations with the observer position at spacing:											
S =		1.0H	1.1 / -0.7				1.1 / -0.7				
		1.5H	2.4 / -1.2				2.4 / -1.2				
		2.0H	3.7 / -1.6				3.7 / -1.6				