

View Opti Beam Lens round

Design iGuzzini /
Arup

iGuzzini

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Product configuration: 453B

453B: round large body spotlight - wide flood



Product code

453B: round large body spotlight - wide flood

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 Warm White tone 3000K CRI97 LEDs with OPTIBEAM LENS technology and a wide flood 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)

1640

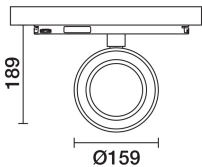
Mounting

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:	2263	MacAdam Step:	2
W system:	28.3	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Im source:	2760	Lamp code:	LED
W source:	24	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	80	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.) [%]:	82	Inrush current:	5 A / 50 µs
Beam angle [°]:	46°	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]:	3000	Control:	DALI-2

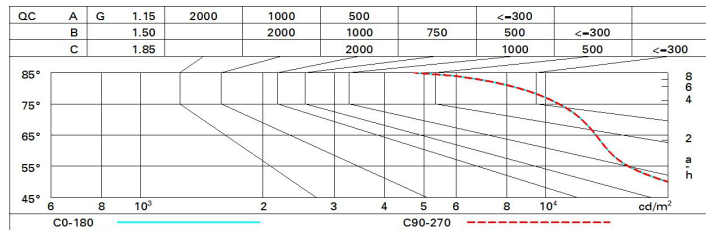
Polar

Imax=3352 cd	CIE nL 0.82 89-97-99-100-82 UGR 20.7-20.5 DIN A.61 UTE 0.82A+0.00T F*1=892 F*1+F*2=968 F*1+F*2+F*3=995	Lux			
		h	d	Em	E _{max}
		2	1.7	639	838
		4	3.4	160	210
		6	5.1	71	93
		8	6.8	40	52

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	70	65	62	59	64	61	61	58	70
1.0	74	69	66	64	68	66	65	62	76
1.5	79	75	73	70	74	72	71	68	83
2.0	82	79	77	75	78	76	75	72	88
2.5	83	81	80	78	80	79	78	75	92
3.0	85	83	82	81	82	81	80	77	94
4.0	86	85	84	83	83	83	81	79	96
5.0	87	86	85	84	84	84	82	80	98

Luminance curve limit



UGR diagram

Corrected UGR values (at 2760 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling/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 crosswise					viewed endwise				
x	y										
2H	2H	19.2	19.8	19.4	20.1	20.3	19.2	19.8	19.4	20.1	20.3
	3H	19.7	20.3	20.0	20.6	20.9	19.3	19.9	19.6	20.2	20.5
	4H	19.9	20.5	20.3	20.8	21.1	19.3	19.9	19.7	20.2	20.5
	6H	20.1	20.6	20.5	21.0	21.3	19.3	19.8	19.7	20.2	20.5
	8H	20.1	20.6	20.5	21.0	21.3	19.3	19.8	19.7	20.1	20.5
	12H	20.1	20.6	20.5	21.0	21.3	19.3	19.7	19.6	20.1	20.4
4H	2H	19.3	19.9	19.7	20.2	20.5	19.9	20.5	20.3	20.8	21.1
	3H	20.1	20.6	20.4	20.9	21.3	20.3	20.8	20.6	21.1	21.4
	4H	20.4	20.8	20.8	21.2	21.6	20.4	20.8	20.8	21.2	21.6
	6H	20.6	21.0	21.1	21.4	21.8	20.5	20.9	20.9	21.3	21.7
	8H	20.7	21.0	21.1	21.4	21.9	20.5	20.8	20.9	21.2	21.7
	12H	20.7	21.0	21.1	21.4	21.9	20.5	20.8	20.9	21.2	21.7
8H	4H	20.5	20.8	20.9	21.2	21.7	20.7	21.0	21.1	21.4	21.9
	6H	20.8	21.1	21.3	21.5	22.0	20.8	21.1	21.3	21.6	22.0
	8H	20.9	21.1	21.4	21.6	22.1	20.9	21.1	21.4	21.6	22.1
	12H	20.9	21.1	21.4	21.6	22.1	20.9	21.1	21.4	21.6	22.1
12H	4H	20.5	20.8	20.9	21.2	21.7	20.7	21.0	21.1	21.4	21.9
	6H	20.8	21.0	21.3	21.5	22.0	20.8	21.1	21.3	21.6	22.1
	8H	20.9	21.1	21.4	21.6	22.1	20.9	21.1	21.4	21.6	22.1
Variations with the observer position at spacing:											
S =	1.0H	1.7 / -1.2					1.7 / -1.2				
	1.5H	3.5 / -1.6					3.5 / -1.6				
	2.0H	5.1 / -1.9					5.1 / -1.9				