View Opti Beam Lens round

Design iGuzzini / Arup **iGuzzini**

Last information update: March 2025

Product configuration: 421B
421B: round large body spotlight - wide flood

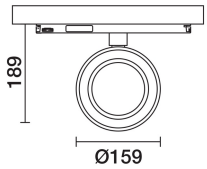
Product code
421B: round large body spotlight - wide flood

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 Neutral White tone 4000K 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 louver, 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)
1.57



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

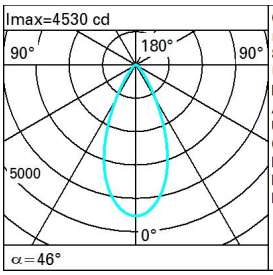
IP20 pending pending pending

Technical data

lm system:	3059
W system:	28.3
lm source:	3730
W source:	24
Luminous efficiency (lm/W, real value):	108.1
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	82
Beam angle [°]:	46°
CRI (minimum):	80
Colour temperature [K]:	4000

MacAdam Step:	2
Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Power factor:	See installation instructions
Inrush current:	5 A / 50 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 31 luminaires B16A: 50 luminaires C10A: 52 luminaires C16A: 85 luminaires
Overvoltage protection:	4kV Common mode & 2kV Differential mode
Control:	DALI-2

Polar



CIE
nL 0.82
89-97-99-100-82
UGR 21.7-21.5
DIN
A.61
UTE
0.82A+0.00T
F"1=892
F"1+F"2=968
F"1+F"2+F"3=995

Lux

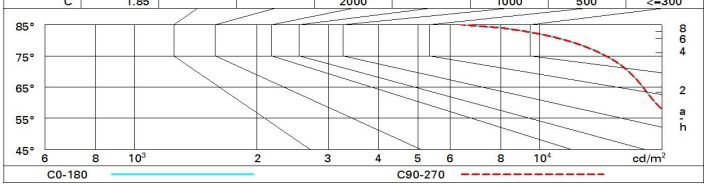
h	d	Em	Emax
2	1.7	864	1133
4	3.4	216	283
6	5.1	96	126
8	6.8	54	71

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

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



UGR diagram

Corrected UGR values (at 3730 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 crosswise					viewed endwise		
x	y										
2H	2H	20.2	20.9	20.5	21.1	21.4	20.2	20.9	20.5	21.1	21.4
	3H	20.8	21.4	21.1	21.7	21.9	20.3	21.0	20.7	21.2	21.5
	4H	21.0	21.6	21.3	21.9	22.2	20.4	20.9	20.7	21.2	21.5
	6H	21.1	21.7	21.5	22.0	22.3	20.4	20.9	20.7	21.2	21.5
	8H	21.2	21.7	21.5	22.0	22.4	20.3	20.9	20.7	21.2	21.5
	12H	21.2	21.7	21.5	22.0	22.4	20.3	20.8	20.7	21.1	21.5
4H	2H	20.4	20.9	20.7	21.2	21.5	21.0	21.6	21.3	21.9	22.2
	3H	21.1	21.6	21.5	21.9	22.3	21.3	21.8	21.7	22.1	22.5
	4H	21.4	21.9	21.8	22.2	22.6	21.4	21.9	21.8	22.2	22.6
	6H	21.7	22.1	22.1	22.5	22.9	21.5	21.9	21.9	22.3	22.7
	8H	21.7	22.1	22.2	22.5	22.9	21.5	21.9	22.0	22.3	22.7
	12H	21.7	22.0	22.2	22.5	22.9	21.5	21.8	22.0	22.3	22.7
8H	4H	21.5	21.9	22.0	22.3	22.7	21.7	22.1	22.2	22.5	22.9
	6H	21.8	22.1	22.3	22.6	23.0	21.9	22.2	22.3	22.6	23.1
	8H	21.9	22.2	22.4	22.6	23.1	21.9	22.2	22.4	22.6	23.1
	12H	21.9	22.2	22.4	22.6	23.2	21.9	22.1	22.4	22.6	23.2
12H	4H	21.5	21.8	22.0	22.3	22.7	21.7	22.0	22.2	22.5	22.9
	6H	21.8	22.1	22.3	22.5	23.0	21.9	22.1	22.4	22.6	23.1
	8H	21.9	22.1	22.4	22.6	23.2	21.9	22.2	22.4	22.6	23.2

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