

View Opti Beam Lens quadrato

Design iGuzzini / Arup

iGuzzini

Last information update: June 2018



square small body spotlight - wide flood

Product code

Q324

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 CRI90 LEDs with OPTIBEAM LENS technology and a wide flood light beam. Dimmable 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

Dimension (mm)

126x126x163

Colour

Black (04) | Black/White (47)

Weight (Kg)

1.13

Mounting

dali track|three circuit track

Wiring

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

Complies with EN60598-1 and pertinent regulations



IP20



Product configuration: Q324

Product characteristics

Total lighting output [Lm]: 1575.5
Total power [W]: 21.3
Luminous efficacy [Lm/W]: 74
Life Time: > 50,000h - L80 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 83
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 18
Nominal luminous [Lm]: 1900
Lamp maximum intensity [cd]: /
Beam angle [°]: 46°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 3.3
Colour temperature [K]: 3000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 2

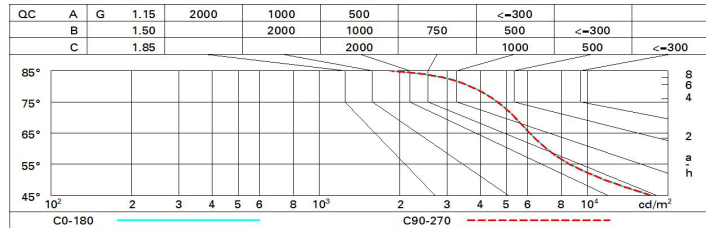
Polar

	CIE		Lux			
	nL	UGR	h	d	Em	Emax
I _{max} =2374 cd 90° 180° 90° 2500 0° α=46°	0.83	17.8-17.7	2	1.7	459	594
	91-98-100-100-83		4	3.4	115	148
	DIN A.61		6	5.1	51	66
	UTE 0.83A+0.00T		8	6.8	29	37

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	71	67	63	61	66	63	62	59	72
1.0	75	71	68	65	70	67	67	64	77
1.5	80	77	74	72	76	73	73	70	84
2.0	83	80	78	77	79	77	77	74	89
2.5	85	83	81	80	82	80	79	77	92
3.0	86	84	83	82	83	82	81	79	95
4.0	87	86	85	84	85	84	83	80	97
5.0	88	87	86	86	85	85	83	81	98

Luminance curve limit



UGR diagram

Corrected UGR values (at 1900 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	17.0	17.7	17.3	17.9	18.2	17.0	17.7	17.3	17.9	18.2
	3H	17.3	17.9	17.6	18.2	18.5	17.1	17.7	17.4	17.9	18.2
	4H	17.4	18.0	17.8	18.3	18.6	17.1	17.6	17.4	17.9	18.2
	6H	17.5	18.0	17.8	18.3	18.6	17.0	17.5	17.4	17.9	18.2
	8H	17.5	18.0	17.9	18.3	18.6	17.0	17.5	17.4	17.8	18.2
12H	17.5	17.9	17.8	18.3	18.6	17.0	17.4	17.3	17.8	18.1	
4H	2H	17.1	17.6	17.4	17.9	18.2	17.4	18.0	17.8	18.3	18.6
	3H	17.5	18.0	17.9	18.3	18.6	17.6	18.1	18.0	18.4	18.8
	4H	17.7	18.1	18.1	18.4	18.8	17.7	18.1	18.1	18.4	18.8
	6H	17.8	18.1	18.2	18.5	19.0	17.7	18.0	18.1	18.4	18.9
	8H	17.8	18.1	18.2	18.5	19.0	17.7	18.0	18.1	18.4	18.9
12H	17.8	18.1	18.2	18.5	19.0	17.6	17.9	18.1	18.4	18.8	
8H	4H	17.7	18.0	18.1	18.4	18.9	17.8	18.1	18.2	18.5	19.0
	6H	17.8	18.1	18.3	18.6	19.0	17.9	18.1	18.3	18.6	19.1
	8H	17.9	18.1	18.4	18.6	19.1	17.9	18.1	18.4	18.6	19.1
	12H	17.9	18.1	18.4	18.6	19.1	17.9	18.1	18.4	18.6	19.1
12H	4H	17.6	17.9	18.1	18.4	18.8	17.8	18.1	18.2	18.5	19.0
	6H	17.8	18.1	18.3	18.5	19.0	17.9	18.1	18.3	18.6	19.1
	8H	17.9	18.1	18.4	18.6	19.1	17.9	18.1	18.4	18.6	19.1
Variations with the observer position at spacing:											
S =	1.0H	2.3 / -1.9				2.3 / -1.9					
	1.5H	4.4 / -2.6				4.4 / -2.6					
	2.0H	6.2 / -3.0				6.2 / -3.0					