View Opti Beam Lens quadrato

Design iGuzzini / Arup   **iGuzzini**

Last information update: June 2018

square small body spotlight - wide flood

Product code
Q329

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

Dimension (mm)
126x126x163

Colour
Black (04) | Black/White (47)

Weight (Kg)
1.13

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

Product configuration: Q329

Product characteristics

Total lighting output [Lm]: 1990.1	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 21.3	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 93.4	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 83	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 3.3
Nominal power [W]: 18	Colour temperature [K]: 4000
Nominal luminous [Lm]: 2400	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 46°	MacAdam Step: 2

Polar

Imax=2999 cd

CIE
nL 0.83
91-98-100-100-83
UGR 18.6-18.5
DIN
A.61
UTE
0.83A+0.00T
F"1=907
F"1+F"2=977
F"1+F"2+F"3=996
CIBSE
BZ1

$\alpha=46°$

Lux			
h	d	Em	Emax
2	1.7	579	750
4	3.4	145	187
6	5.1	64	83
8	6.8	36	47
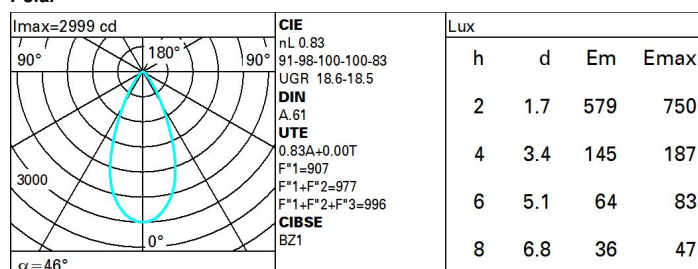
Utilisation factors

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

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

C0-180   C90-270
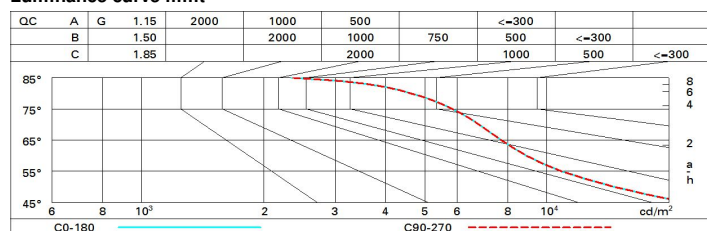
UGR diagram

Corrected UGR values (at 2 400 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					viewed		
x	y			crosswise					endwise		
2H	2H	17.8	18.5	18.1	18.7	19.0	17.8	18.5	18.1	18.7	19.0
	3H	18.1	18.7	18.4	19.0	19.3	17.9	18.5	18.2	18.8	19.0
	4H	18.2	18.8	18.6	19.1	19.4	17.9	18.4	18.2	18.7	19.0
	6H	18.3	18.8	18.6	19.1	19.5	17.8	18.4	18.2	18.7	19.0
	8H	18.3	18.8	18.7	19.1	19.5	17.8	18.3	18.2	18.6	19.0
	12H	18.3	18.8	18.7	19.1	19.4	17.8	18.3	18.2	18.6	18.9
4H	2H	17.9	18.4	18.2	18.7	19.0	18.2	18.8	18.6	19.1	19.4
	3H	18.3	18.8	18.7	19.1	19.5	18.4	18.9	18.8	19.2	19.6
	4H	18.5	18.9	18.9	19.3	19.6	18.5	18.9	18.9	19.3	19.6
	6H	18.6	19.0	19.0	19.3	19.8	18.5	18.9	18.9	19.3	19.7
	8H	18.6	18.9	19.0	19.4	19.8	18.5	18.8	18.9	19.2	19.7
	12H	18.6	18.9	19.0	19.3	19.8	18.4	18.7	18.9	19.2	19.6
8H	4H	18.5	18.8	18.9	19.2	19.7	18.6	18.9	19.0	19.4	19.8
	6H	18.7	18.9	19.1	19.4	19.9	18.7	19.0	19.1	19.4	19.9
	8H	18.7	18.9	19.2	19.4	19.9	18.7	18.9	19.2	19.4	19.9
	12H	18.7	18.9	19.2	19.4	19.9	18.7	18.9	19.2	19.4	19.9
12H	4H	18.4	18.7	18.9	19.2	19.6	18.6	18.9	19.0	19.3	19.8
	6H	18.6	18.9	19.1	19.3	19.8	18.7	18.9	19.2	19.4	19.9
	8H	18.7	18.9	19.2	19.4	19.9	18.7	18.9	19.2	19.4	19.9

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