Laser

Last information update: March 2025

Product configuration: QI48.01
QI48.01: Ø59 Tech - Phase-Cut Dim - Flood Beam - 15W 1031.8lm - 3000K - CRI 90 - White

Ø59
250
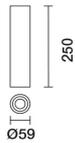
Product code
QI48.01: Ø59 Tech - Phase-Cut Dim - Flood Beam - 15W 1031.8lm - 3000K - CRI 90 - White

Technical description
Cylindrical lighting body for ceiling or pendant-mounted applications. Fixed optic lighting system with a high definition reflector made of metallised thermoplastic. The LEDs are set back to minimize glare and guarantee a high level of visual comfort. Structural cylinder made of painted extruded aluminium with an inner ring made of thermoplastic available in different painted or metallised finishes. Glass cover Using specific accessory kits, ceiling or pendant-mounted installations can be made with minimum intervention and simplified by a practical bayonet coupling system. Dimmable driver - phase cut - integrated in luminaire.

Installation
Ceiling or pendant-mounted - use the appropriate assembly kits available with a separate item code.

Colour	Weight (Kg)
White (01)	0.47

Mounting
ceiling surface|ceiling pendant

Wiring
The lighting body is fitted with an internal terminal board for connectinf it to the power line or pendant cable.

Notes
A wide range of decorative accessories and diffusers is available.

Complies with EN60598-1 and pertinent regulations

CE   03   CCC S&E   S   EAC   QCERT   NOM

Technical data

|			
lm system:	1032	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	15	Voltage [Vin]:	230
lm source:	1340	Lamp code:	LED
W source:	13	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	68.8	ZVEI Code:	LED
lm 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.) [%]:	77	Inrush current:	1.87 A / 48 µs
Beam angle [°]:	44°	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 97 luminaires B16A: 155 luminaires C10A: 161 luminaires C16A: 263 luminaires
CRI (minimum):	90		
Colour temperature [K]:	3000	Minimum dimming %:	5
MacAdam Step:	2	Overvoltage protection:	2kV Common mode & 1kV Differential mode
		Control:	Phase-cut

Polar

Imax=2234 cd

CIE
nL 0.77
100-100-100-100-77
UGR <10-<10
DIN
A.61
UTE
0.77A+0.00T
F"1=997
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 l L<1500 cd/mq @65°

α=44°

Lux			
h	d	Em	Emax
2	1.6	444	559
4	3.2	111	140
6	4.8	49	62
8	6.4	28	35

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	70	66	63	62	65	63	63	60	78
1.0	73	69	67	65	69	67	66	64	83
1.5	76	74	72	70	73	71	70	68	89
2.0	78	77	75	74	76	74	74	72	93
2.5	80	79	78	77	78	77	76	74	96
3.0	81	80	79	79	79	78	77	75	98
4.0	82	81	81	80	80	79	78	76	99
5.0	82	82	81	81	81	80	79	77	100

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
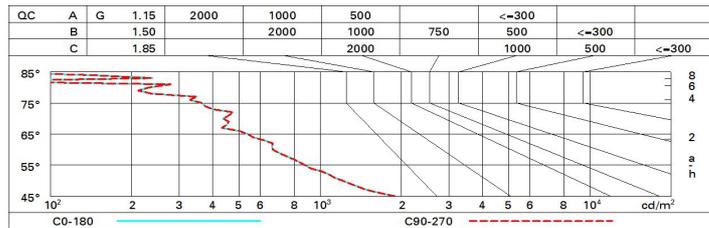
UGR diagram

Corrected UGR values (at 1340 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	8.2	8.8	8.5	9.0	9.2	8.2	8.8	8.5	9.0	9.2
	3H	8.1	8.6	8.4	8.9	9.1	8.1	8.6	8.4	8.8	9.1
	4H	8.0	8.5	8.3	8.8	9.1	8.0	8.5	8.3	8.8	9.1
	6H	7.9	8.4	8.3	8.7	9.0	7.9	8.4	8.3	8.7	9.0
	8H	7.9	8.3	8.3	8.6	9.0	7.9	8.3	8.2	8.6	9.0
	12H	7.9	8.3	8.2	8.6	9.0	7.8	8.3	8.2	8.6	8.9
4H	2H	8.0	8.5	8.3	8.8	9.1	8.0	8.5	8.3	8.8	9.1
	3H	7.9	8.3	8.2	8.6	9.0	7.9	8.3	8.2	8.6	9.0
	4H	7.8	8.1	8.2	8.5	8.9	7.8	8.1	8.2	8.5	8.9
	6H	7.7	8.0	8.1	8.4	8.8	7.7	8.0	8.1	8.4	8.8
	8H	7.7	7.9	8.1	8.4	8.8	7.7	7.9	8.1	8.3	8.8
	12H	7.6	7.9	8.1	8.3	8.7	7.6	7.9	8.1	8.3	8.7
8H	4H	7.7	7.9	8.1	8.3	8.8	7.7	7.9	8.1	8.4	8.8
	6H	7.6	7.8	8.0	8.2	8.7	7.6	7.8	8.0	8.2	8.7
	8H	7.5	7.7	8.0	8.2	8.7	7.5	7.7	8.0	8.2	8.7
	12H	7.5	7.6	8.0	8.1	8.6	7.5	7.6	8.0	8.1	8.6
12H	4H	7.6	7.9	8.1	8.3	8.7	7.6	7.9	8.1	8.3	8.7
	6H	7.5	7.7	8.0	8.2	8.7	7.5	7.7	8.0	8.2	8.7
	8H	7.5	7.6	8.0	8.1	8.6	7.5	7.6	8.0	8.1	8.6

Variations with the observer position at spacing:

S =	1.0H	6.5 / -13.0	6.5 / -13.0
	1.5H	9.4 / -13.8	9.4 / -13.8
	2.0H	11.4 / -14.9	11.4 / -14.9