iN 60

Design iGuzzini **iGuzzini**

Last information update: June 2018

Up / Down LED plate - DALI - Working UGR < 19 - Warm - L 3588

Product code
QC11

Technical description
LED module set up for housing in intermediate system profiles, ideal for particularly long light lines. High efficiency up + down emission for Working profiles (with a controlled luminance micro-prismatic lower screen). DALI dimmable control gear integrated in the luminaire. Extruded aluminium heat sink; high emission yield flux enhancer. Warm 3000K LED

Installation
Module insertion on profiles facilitated by a quick coupling system.

Colour
Indeterminate (00)

Weight (Kg)
4.8

Wiring
Quick coupling terminal block connection to simplify connections between the subsequent modules. Complete with integrated dimmable digital DALI control gear.

Notes
Important: the triple length intermediate luminous module can be used for both initial profiles - L 3594 - for stand-alone applications, and intermediate profiles - L 3594 - for continuous line applications.

Complies with EN60598-1 and pertinent regulations

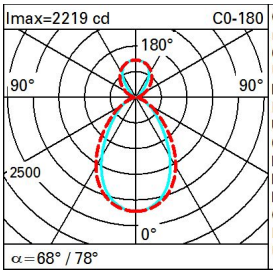
IP20

Product configuration: QC11

Product characteristics
Total lighting output [Lm]: 4992
Total power [W]: 45.4
Luminous efficacy [Lm/W]: 109.9
Life Time: > 50,000h - L90 - B10 (Ta 25°C)
Total luminous flux at or above an angle of 90° [Lm]: 1429
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1
Light Output Ratio (L.O.R.) [%]: 67
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 40
Nominal luminous [Lm]: 7450
Lamp maximum intensity [cd]: /
Beam angle [°]: /
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 5.4
Colour temperature [K]: 3000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 3

Polar



CIE
nL 0.67
67-91-98-71-67
UGR 15.2-15.9
DIN
B.53
UTE
0.48C+0.19T
F"1=667
F"1+F"2=907
F"1+F"2+F"3=984
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<16 I L<3000 cd/mq @65

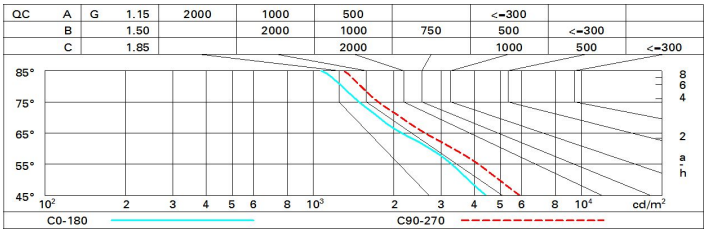
Lux

h	d1	d2	Em	Emax
2	2.7	3.2	388	555
4	5.4	6.5	97	139
6	8.1	9.7	43	62
8	10.8	13	24	35

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	44	38	35	32	36	33	31	26	54
1.0	48	43	39	36	40	37	34	29	61
1.5	54	49	46	44	46	43	40	34	72
2.0	57	53	51	48	49	47	44	38	79
2.5	59	56	54	52	52	50	46	40	83
3.0	60	58	56	54	53	52	48	41	86
4.0	62	60	58	57	55	54	50	43	90
5.0	62	61	60	58	56	55	51	44	92

Luminance curve limit



UGR diagram

Corrected UGR values (at 7450 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	13.7	14.4	14.4	15.1	15.9	14.9	15.6	15.6	16.3	17.1
	3H	14.3	14.9	15.0	15.6	16.4	15.0	15.7	15.7	16.4	17.2
	4H	14.4	15.0	15.2	15.7	16.6	15.0	15.6	15.7	16.3	17.2
	6H	14.5	15.1	15.3	15.8	16.7	14.9	15.5	15.7	16.2	17.1
	8H	14.6	15.1	15.3	15.8	16.7	14.9	15.4	15.7	16.2	17.1
	12H	14.6	15.1	15.3	15.8	16.7	14.9	15.4	15.6	16.1	17.0
4H	2H	14.0	14.6	14.7	15.3	16.2	15.6	16.2	16.3	16.9	17.7
	3H	14.7	15.2	15.5	15.9	16.8	15.8	16.3	16.6	17.1	18.0
	4H	14.9	15.4	15.7	16.2	17.1	15.9	16.3	16.7	17.1	18.1
	6H	15.1	15.5	15.9	16.3	17.3	15.9	16.3	16.7	17.1	18.1
	8H	15.2	15.5	16.0	16.4	17.3	15.9	16.3	16.7	17.1	18.0
	12H	15.2	15.5	16.0	16.3	17.3	15.9	16.2	16.7	17.0	18.0
8H	4H	15.0	15.3	15.8	16.2	17.1	16.1	16.5	17.0	17.3	18.3
	6H	15.3	15.6	16.1	16.4	17.4	16.2	16.5	17.1	17.4	18.4
	8H	15.4	15.6	16.2	16.5	17.5	16.3	16.5	17.1	17.3	18.4
	12H	15.5	15.7	16.3	16.5	17.6	16.3	16.5	17.1	17.3	18.4
12H	4H	15.0	15.3	15.8	16.1	17.1	16.2	16.5	17.0	17.3	18.3
	6H	15.3	15.5	16.1	16.4	17.4	16.3	16.5	17.1	17.4	18.4
	8H	15.4	15.6	16.3	16.5	17.5	16.3	16.5	17.2	17.4	18.5

Variations with the observer position at spacing:

S =			
	1.0H	0.5 / -0.5	0.3 / -0.5
	1.5H	0.6 / -1.2	0.8 / -1.2
	2.0H	1.2 / -1.9	1.8 / -1.8