iN 60

Design iGuzzini	iGuzzini

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Down LED plate - DALI - Working UGR < 19 - Warm - L 598

Product code
QC00

Technical description
LED module set up for housing in initial or intermediate system profiles. High efficiency down emission for Working profiles (with a controlled luminance micro-prismatic 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)
0.82

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

Complies with EN60598-1 and pertinent regulations

IP20

CE | CIDET | EAC | A++ | pending

Product configuration: QC00

Product characteristics

Total lighting output [Lm]: 589	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 4.4	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 132.7	Voltage [V]: -
Life Time: > 50,000h - L90 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 71	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 0.0
Nominal power [W]: 4.4	Colour temperature [K]: 3000
Nominal luminous [Lm]: 830	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: /	MacAdam Step: 3

Polar

Imax=366 cd   C0-180

90° / 180° / 90°

375

90° / 0°

α=68° / 78°

CIE
nL 0.71
67-91-98-100-71
UGR 17.2-18.0
DIN
A.51
UTE
0.71C+0.00T
F"1=667
F"1+F"2=908
F"1+F"2+F"3=984
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<19 I L<3000 cd/mq @65°

Lux				
h	d1	d2	Em	Emax
1	1.3	1.6	256	366
2	2.7	3.2	64	91
3	4	4.9	28	41
4	5.4	6.5	16	23
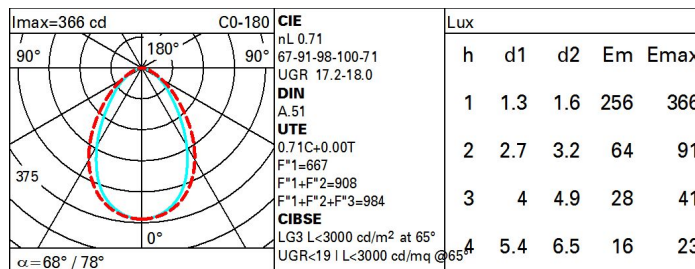
Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	53	47	43	40	46	42	42	38	54
1.0	57	52	48	45	51	47	47	43	61
1.5	64	59	56	53	58	55	54	51	72
2.0	67	64	61	59	62	60	59	56	79
2.5	69	66	64	62	65	63	62	59	83
3.0	71	68	66	65	67	65	64	61	86
4.0	72	70	69	67	69	68	66	64	90
5.0	73	72	70	69	70	69	68	65	92

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
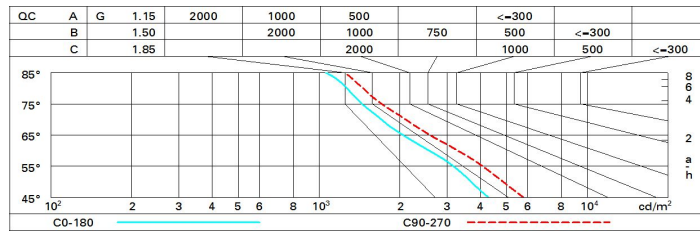
UGR diagram

Corrected UGR values (at 830 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 x	y		viewed crosswise					viewed endwise			
2H	2H	15.4	16.4	15.7	16.7	16.9	16.7	17.7	17.0	18.0	18.2
	3H	16.0	16.9	16.4	17.2	17.5	16.9	17.8	17.3	18.1	18.4
	4H	16.3	17.1	16.6	17.4	17.7	17.0	17.8	17.3	18.1	18.4
	6H	16.4	17.2	16.8	17.5	17.8	16.9	17.7	17.3	18.0	18.3
	8H	16.5	17.2	16.8	17.5	17.9	16.9	17.6	17.3	18.0	18.3
	12H	16.5	17.2	16.9	17.5	17.9	16.9	17.6	17.3	17.9	18.3
4H	2H	15.8	16.6	16.2	17.0	17.3	17.5	18.3	17.9	18.6	19.0
	3H	16.6	17.3	17.0	17.6	18.0	17.9	18.5	18.2	18.9	19.3
	4H	16.9	17.5	17.3	17.8	18.2	18.0	18.6	18.4	18.9	19.3
	6H	17.1	17.6	17.5	18.0	18.5	18.0	18.5	18.4	18.9	19.4
	8H	17.2	17.7	17.6	18.1	18.5	18.0	18.5	18.4	18.9	19.3
	12H	17.2	17.7	17.7	18.1	18.6	18.0	18.4	18.4	18.9	19.3
8H	4H	17.0	17.5	17.4	17.9	18.3	18.2	18.7	18.7	19.1	19.6
	6H	17.3	17.7	17.8	18.2	18.7	18.4	18.8	18.8	19.2	19.7
	8H	17.5	17.8	17.9	18.3	18.8	18.4	18.7	18.9	19.2	19.7
	12H	17.5	17.8	18.1	18.3	18.9	18.4	18.7	18.9	19.2	19.7
12H	4H	17.0	17.4	17.4	17.8	18.3	18.3	18.7	18.7	19.1	19.6
	6H	17.3	17.7	17.8	18.2	18.7	18.4	18.8	18.9	19.2	19.7
	8H	17.5	17.8	18.0	18.3	18.8	18.5	18.8	19.0	19.3	19.8

Variations with the observer position at spacing:

S =				
1.0H		0.5 / -0.5		0.3 / -0.5
1.5H		0.6 / -1.3		0.8 / -1.2
2.0H		1.2 / -1.9		1.8 / -1.8