iGuzzini

Last information update: June 2018

#### Down LED plate - DALI - Working UGR < 19 - Neutral - L 1196

Product code QB94

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Design iGuzzini

#### 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. Neutral 4000K LED

#### Installation

Module insertion on profiles facilitated by a quick coupling system.

#### Colour

Indeterminate (00)

Weight (Kg)

## 1.28

#### Wiring

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



#### Product configuration: QB94

#### Product characteristics

Total lighting output [Lm]: 1243 Total power [W]: 10.5 Luminous efficacy [Lm/W]: 118.6 Life Time: > 50,000h - L90 - B10 (Ta 25°C)

#### Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 71 Lamp code: LED ZVEI Code: LED Nominal power [W]: 8.9 Nominal luminous [Lm]: 1750 Lamp maximum intensity [cd]: / Beam angle [°]: / Total luminous flux at or above an angle of 90  $^{\circ}$  [Lm]: 0 Emergency luminous flux [Lm]: / Voltage [V]: - Number of optical assemblies: 1

Number of lamps for optical assembly: 1 Socket: / Ballast losses [W]: 1.6 Colour temperature [K]: 4000 CRI: 80 Wavelength [Nm]: / MacAdam Step: 3

### Polar

Imax=771 cd	C0-180		Lux				
90° 18	0° 1 90°	nL 0.71 67-91-98-100-71	h	d1	d2	Em	Emax
		UGR 17.4-18.2 DIN A.51	1	1.3	1.6	540	771
	$\times$	UTE 0.71C+0.00T F"1=667	2	2.7	3.2	135	193
750	$2 \vee$	F"1+F"2=908 F"1+F"2+F"3=984 CIBSE	3	4	4.9	60	86
$\alpha = 68^{\circ} / 78^{\circ}$		LG3 L<3000 cd/m² at 65° UGR<19   L<3000 cd/mq @	65 <sup>4</sup>	5.4	6.5	34	48

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	20	000		10	00		500				<=30	0				
	в		1.50				20	00		1000	75	0		500		<-	300		
	С		1.85							2000				1000	)	5	00	<-	300
85° 75° 65°																	$\mathbb{N}$		8 6 4 2
55°									-					1		//			a h
45° 1	0 <sup>2</sup>		2	3	4	5	6	8	10	3	2	3	4	5 (	3 8	3 1	04	cd/m	2
	C0-180	<b>)</b> –					-				C90-27	70							

# UGR diagram

ce il/c	Riflect.: ceil/cav		0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls work pl.		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim		10000		viewed		viewed					
x	У		c	rosswis	e	endwise					
2H	2H	15.7	16.6	16.0	16.9	17.1	17.0	17.9	17.3	18.2	18.4
	ЗH	16.3	17.1	16.6	17.4	17.7	17.2	18.0	17.5	18.3	18.6
	4H	16.5	17.3	16.8	17.6	17.9	17.2	18.0	17.5	18.3	18.0
	6H	16.6	17.4	17.0	17.7	18.0	17.1	17.9	17.5	18.2	18.6
	BH	16.7	17.4	17.1	17.7	18.1	17.1	17.8	17.5	18.2	18.5
	12H	16.7	17.4	17.1	17.7	18.1	17.1	17.8	17.5	18.1	18.5
4H	2H	16.1	16.9	16.4	17.2	17.5	17.7	18.6	18.1	18.9	19.3
	3H	16.8	17.5	17.2	17.8	18.2	18.1	18.8	18.5	19.1	19.5
	<b>4H</b>	17.1	17.7	17.5	18.1	18.5	18.2	18.8	18.6	19.2	19.0
	6H	17.3	17.9	17.8	18.3	18.7	18.2	18.8	18.7	19.2	19.0
	HS	17.4	17.9	17.9	18.3	18.8	18.2	18.7	18.7	19.1	19.0
	12H	17.5	17.9	17.9	18.3	18.8	18.2	18.6	18.7	19.1	19.5
вн	4H	17.2	17.7	17.6	18.1	18.5	18.5	18.9	18.9	19.4	19.8
	6H	17.5	17.9	18.0	18.4	18.9	18.6	19.0	19.1	19.4	19.9
	BH	17.7	18.0	18.2	18.5	19.0	18.6	19.0	19.1	19.4	19.9
	12H	17.8	18.1	18.3	18.6	19.1	18.6	18.9	19.1	19.4	19.9
12H	4H	17.2	17.6	17.6	18.1	18.5	18.5	18.9	19.0	19.4	19.8
	6H	17.6	17.9	18.0	18.4	18.9	18.6	19.0	19.1	19.5	20.0
	8H	17.7	18.0	18.2	18.5	19.0	18.7	19.0	19.2	19.5	20.0
Varia	tions wi	th the ot	pserverp	osition	at spacin	ig:	0.0				
5 =	1.0H		0	.5 / -0.	5	0.3 / -0.5					
	1.5H		0	.6 / -1.	3	0.8 / -1.2					