Design iGuzzini

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### Down LED plate - ON-OFF - Working UGR < 19 - Neutral Warm - L 1196

#### Product code

**QB90** 

#### 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). Electronic 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 ON-OFF - non-dimmable control gear.

Complies with EN60598-1 and pertinent regulations













### Product configuration: QB90

### **Product characteristics**

Total lighting output [Lm]: 1243
Total power [W]: 11.2
Luminous efficacy [Lm/W]: 111.2

Life Time: > 50,000h - L90 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0

Emergency luminous flux [Lm]: /

Voltage [V]: -

Number of optical assemblies: 1

## 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 [°]: /

Number of lamps for optical assembly: 1

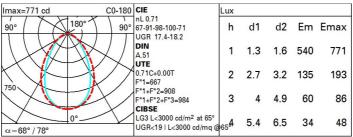
Socket: /

Ballast losses [W]: 2.3 Colour temperature [K]: 4000

CRI: 80

Wavelength [Nm]: / MacAdam Step: 3

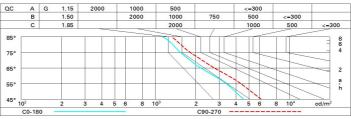
### Polar



### 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



## UGR diagram

Rifled	ct.:											
ceil/cav walls work pl. Room dim		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	
		0.50 0.20	0.30	0.50	0.30	0.30	0.50 0.20	0.30	0.50	0.30	0.30	
												20010000
		x	У	crosswise						endwise		
2H	2H	15.7	16.6	16.0	16.9	17.1	17.0	17.9	17.3	18.2	18.4	
	ЗН	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	18.6	
	бН	16.6	17.4	17.0	17.7	18.0	17.1	17.9	17.5	18.2	18.6	
	HS	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	19.2	
	ЗН	16.8	17.5	17.2	17.8	18.2	18.1	18.8	18.5	19.1	19.5	
	4H	17.1	17.7	17.5	18.1	18.5	18.2	18.8	18.6	19.2	19.6	
	6H	17.3	17.9	17.8	18.3	18.7	18.2	18.8	18.7	19.2	19.6	
	HS	17.4	17.9	17.9	18.3	18.8	18.2	18.7	18.7	19.1	19.6	
	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	
	HS	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	
	бН	17.6	17.9	18.0	18.4	18.9	18.6	19.0	19.1	19.5	20.0	
	H8	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 ob	serverp	osition	at spacin	g:						
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					