iGuzzini

Last information update: May 2018

## Mini - Wall-/Ceiling-mounted - Neutral White LED - 48V dc DALI - L=512mm - 10° Spot Optic

### Product code BM69

#### Technical description

Direct light luminaire, designed to use monochrome LED lamps, 48V dc Dali dimmable. Ceiling- and wall-mounted. Consists of a body, a box for Dali driver and supports for installation (to be ordered separately). Extruded aluminium body and side box, with zamak die-cast end caps complete with silicone gaskets. Coated with liquid acrylic paint with a high level of weather and UV ray resistance. The top of the optical assembly is closed by a 3 mm thick transparent glass screen, fixed with silicone. Complete with multi-LED power plate in Neutral White, side box with 48V dc Dali electronic driver (ballast to be ordered separately). Side box with double PG13.5 cable gland and outlet cables for pass-through wiring. Fitted with satin-finish polycarbonate film and optics with plastic (methacrylate) lens for 10° SPOT lighting. All external screws used are made of A2 stainless steel. The luminaire technical characteristics conform to EN60598-2-18 standards and particular requirements.

### Installation

The following accessories are available for installation: adjustable wall-mounted arms in AISI304 stainless steel (L=115mm code BZQ9, L=200mm code BZJ9) and a plate for surface- or ceiling-mounting made of anodised aluminium (BZJ6).

000	O O Kinedal	30
	<u>'</u>	T

91

52

39

# Dimension (mm) 512x91x39

Colour Grey (15)

Weight (Kg)

1.47

## Mounting

wall surface|ceiling surface

# Wiring

The product is equipped with a nickel-plated brass PG13.5 double cable gland with H05RN-F 2x1.5mm2 + 2x0.35mm2 rubber outlet cables for pass-through wiring: each cable is set up both for the Dali signal and for 48V dc power supply. Available for electrical connection: IP68 5-pin linear connector (BZS6), cap for IP68 connectors (BZQ7), IP68 Y-connector (BZN7) for signal cable and power cable connection and 48V dc DIN bar electronic ballasts to be ordered separately: 120W (BZ14), 240W (BZ15) and 480W (BZ16).

#### Notes

Product complete with LED lamp



Complies with EN60598-1 and pertinent regulations

## Product configuration: BM69

Product characteristics

Total lighting output [Lm]: 419 Total power [W]: 6.8 Luminous efficacy [Lm/W]: 61.6 Life Time: 100,000h - L80 - B10 (Ta 25°C) Ambient temperature range: from -20°C to +35°C.

## Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 71 Lamp code: LED ZVEI Code: LED Nominal power [W]: 5.9 Nominal luminous [Lm]: 590 Lamp maximum intensity [cd]: / Beam angle [°]: 10° Total luminous flux at or above an angle of 90° [Lm]: 0 Emergency luminous flux [Lm]: / Voltage [V]: 48 Life Time: 84,000h - L80 - B10 (Ta 40°C) Number of optical assemblies: 1

Number of lamps for optical assembly: 1 Socket: / Ballast losses [W]: 0.9 Colour temperature [K]: 4000 CRI: 80 Wavelength [Nm]: / MacAdam Step: 3 Polar

Imax=6496 cd	CIE	Lux			
90° 180° 90°		h	d	Em	Emax
	UGR <10-<10 DIN A.61 UTE	2	0.3	1274	1624
$K \times X X$	0.71A+0.00T F"1=969	4	0.7	318	406
6000	F"1+F"2=993 F"1+F"2+F"3=999 CIBSE	6	1	142	180
α=10°	LG3 L<1500 cd/m² at 65° UGR<10   L<1500 cd/mq @	<sub>65°</sub> 8	1.4	80	102

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	63	60	57	55	59	57	56	54	76
1.0	66	63	61	59	62	60	60	57	81
1.5	70	67	65	64	66	65	64	62	87
2.0	72	70	69	68	69	68	67	65	92
2.5	73	72	71	70	71	70	69	67	95
3.0	74	73	72	72	72	71	71	69	97
4.0	75	74	74	73	73	73	72	70	99
5.0	76	75	75	74	74	74	72	71	100

# Luminance curve limit

2C	Α	G	1.15	2000		1000	500		<-300		
	в		1.50			2000	1000	750	500	<=300	
	С		1.85				2000		1000	500	<=300
<b>85°</b> ∩								~ /			
			~								- 8
75°			-		-		$+ \left\{ \left\{ \right\} \right\}$				4
								$\wedge + \sim$			_
35°											2
5°					_						
									$\times$		h
							10 <sup>3</sup>				

Rifler											
Riflect.: ceil/cav		0.70	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		0.20	0.20	viewed	0.20	0.20	0.10	0.20	viewed	0.20	0.20
x	У			crosswis	e				endwise		
2H	2H	5.6	7.5	6.0	7.8	8.1	5.6	7.5	6.0	7.8	8.1
	ЗН	5.7	6.9	6.1	7.2	7.6	5.7	6.9	6.0	7.2	7.5
	4H	5.7	6.7	6.1	7.0	7.3	5.7	6.6	6.0	6.9	7.2
	6H	5.7	6.4	6.1	6.8	7.1	5.6	6.3	6.0	6.7	7.0
	BH	5.7	6.5	6.0	6.8	7.2	5.5	6.4	5.9	6.7	7.1
	12H	<mark>5.6</mark>	6.5	6.0	6.9	7.2	5.5	6.4	5.9	6.7	7.1
4H	2H	5.7	6.6	6.0	6.9	7.2	5.7	6.7	6.1	7.0	7.3
	ЗH	5.7	6.6	6.1	7.0	7.4	5.7	6.6	6.1	7.0	7.4
	4H	5.6	6.8	6.0	7.2	7.6	5.6	6.8	6.0	7.2	7.6
	6H	5.4	7.0	5.8	7.5	7.9	5.3	7.0	5.8	7.4	7.9
	HS	5.3	7.1	5.8	7.5	0.8	5.2	7.0	5.7	7.5	0.8
	12H	5.2	7.0	5.7	7.5	0.8	5.2	7.0	5.7	7.4	7.9
вн	4H	5.2	7.0	5.7	7.5	0.8	5.3	7.1	5.8	7.5	0.8
	6H	5.3	6.8	5.8	7.3	7.8	5.3	6.8	5.8	7.3	7.8
	HS	5.3	6.6	5.9	7.1	7.6	5.3	6.6	5.9	7.1	7.6
	12H	5.5	6.2	6.0	6.7	7.3	5.5	6.2	6.0	6.7	7.3
12H	4H	5.2	7.0	5.7	7.4	7.9	5.2	7.0	5.7	7.5	8.0
	6H	5.3	6.5	5.8	7.0	7.5	5.3	6.6	5.9	7.1	7.6
	8H	5.5	6.2	6.0	6.7	7.3	5.5	6.2	6.0	6.7	7.3
Varia	tions wi	th the ol	bserver	osition a	at spacir	ng:					
5 =	1.0H		2	.8 / -2	8	2.8 / -2.8					
	1.5H		5	2 / -4	0		5	.2 / -4.	0		