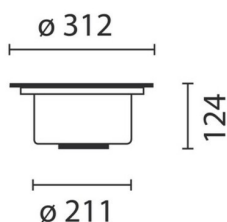
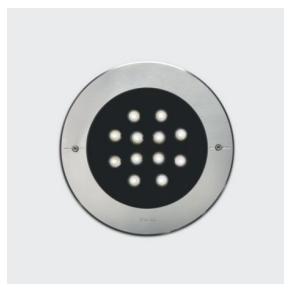


Last information update: May 2018

**Pavement-recessed - 12 RGB LEDs - electronic 48÷52Vdc - DMX512-RDM - ±15 adjustable flood optic****Product code**

BV72

**Technical description**

Ground-recessed luminaire (pavement) designed to use LED lamps. RGB version with 12 multicolour LED circuit,  $\pm 15^\circ$  adjustable double optic, FLOOD version plastic lenses, and DMX512-RDM electronic control card with search and self-addressing function (48÷52V dc). Consists of a round body, low outer casing and frame. The body and outer casing are made of cast aluminium, and the frame of AISI 304 stainless steel. The outer casing for installation, which can be ordered separately from the optical assembly. The optical assembly is closed at the top by 15mm thick tempered glass with a silicone seal, compressed by the AISI 304 stainless steel frame. The lower part contains a decompression box for the wiring, a 7 pole terminal block and a double M24x1.5 stainless steel cable gland, suitable for cables with a 7-16mm diameter. Each cable is set up for both the DMX signal and a 48-52V dc power feed. The wiring assembly is connected to the lamp assembly with an M15x1 nickel-plated brass cable clamp. This device makes it easy to open the upper glass, eliminating the vacuum effect in the optical assembly and the pump effect on the power cable. The body-optical assembly has a locking system with 2 stainless steel captive screws on which two extruded aluminium supports slide. The locking system guarantees positioning of the assembly and anchoring to the outer casing. The optical assembly and body and the outer casing are subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The painting stage consists of a primer and a liquid acrylic paint, cured at 150 °C, with a high level of weather and UV ray resistance. The frame, glass, optical assembly and outer casing together guarantee a maximum static load of 5,000 kg. All external screws used are made of A2 stainless steel.

**Installation**

Ground-recessed using outer casing. The upper edge of the outer casing must not project above ground level (max. 1 mm allowed). Outer casing upper diameter =289mm lower diameter=397mm h=125mm.

**Dimension (mm)**

Ø312x124

**Colour**

Steel (13)

**Weight (Kg)**

6.4

**Mounting**

ground recessed

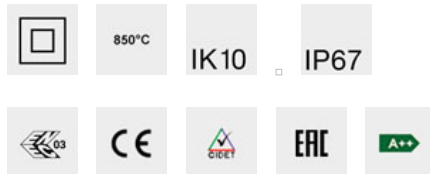
**Wiring**

DMX-RDM electronic driver from 48÷52Vdc. DIN 48V dc bar electronic ballasts to be ordered separately: 120W (BZ14), 240W (BZ15) and 480W (BZ16). For the connection between the DMX signal cable and the power supply cable a Y IP68 connector is available code no. BZN7.

**Notes**

Complete with lamp. Outer casing code no. B901 to be ordered separately. DMX specifications require the insertion of a 120 Ohm resistor to be placed between the DATA+ and DATA- terminals of the last product in the line (BZQ7). If there is no DMX signal the product runs the dynamic colour sequence by default. DALI versions and DMX512 versions with self-addressing are available on request.

Complies with EN60598-1 and pertinent regulations

**Product configuration: BV72****Product characteristics**

Total lighting output [Lm]: 195  
 Total power [W]: 14  
 Luminous efficacy [Lm/W]: 13.9  
 Life Time: 50,000h - L80 - B20 (Ta 25°C)  
 Number of optical assemblies: 2

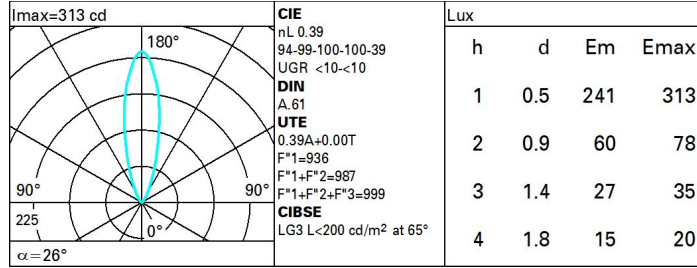
Total luminous flux at or above an angle of 90° [Lm]: 195  
 Emergency luminous flux [Lm]: /  
 Voltage [V]: 48  
 Ambient temperature range: from -20°C to +35°C.

**Optical assembly Characteristics Type 1**

Light Output Ratio (L.O.R.) [%]: 39  
 Lamp code: LED  
 ZVEI Code: LED  
 Nominal power [W]: 5.9  
 Nominal luminous [Lm]: 250  
 Lamp maximum intensity [cd]: /  
 Beam angle [°]: 26°

Number of lamps for optical assembly: 1  
 Socket: /  
 Ballast losses [W]: 1.1  
 Colour temperature [K]: /  
 CRI: /  
 Wavelength [Nm]: /  
 MacAdam Step: /

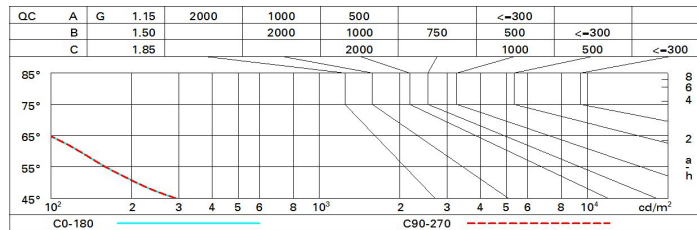
**Polar**



**Utilisation factors**

R	77	75	73	71	55	53	33	00	DRR
K0.8	34	32	31	29	32	30	30	29	74
1.0	36	34	33	32	34	32	32	31	79
1.5	38	36	35	34	36	35	35	33	86
2.0	39	38	37	37	38	37	36	35	90
2.5	40	39	39	38	39	38	38	36	94
3.0	41	40	39	39	39	39	38	37	96
4.0	41	41	40	40	40	40	39	38	98
5.0	41	41	41	41	40	40	40	39	99

**Luminance curve limit**



**UGR diagram**

Corrected UGR values (at 250 lm bare lamp luminous flux)											
Reflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
ceiling/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	1.5	3.3	1.9	3.6	4.0	1.5	3.3	1.9	3.6	4.0
	3H	1.7	3.1	2.1	3.4	3.7	1.6	3.0	1.9	3.3	3.6
	4H	1.7	2.9	2.0	3.3	3.6	1.5	2.8	1.9	3.1	3.5
	6H	1.6	2.7	2.0	3.1	3.4	1.5	2.6	1.9	2.9	3.3
	8H	1.6	2.7	2.0	3.0	3.4	1.4	2.5	1.8	2.9	3.3
	12H	1.5	2.6	1.9	3.0	3.3	1.4	2.5	1.8	2.8	3.2
4H	2H	1.5	2.8	1.9	3.1	3.5	1.7	2.9	2.0	3.3	3.6
	3H	1.8	2.8	2.2	3.2	3.6	1.8	2.8	2.2	3.2	3.6
	4H	1.7	2.8	2.2	3.1	3.6	1.7	2.8	2.2	3.1	3.6
	6H	1.5	3.0	2.0	3.4	3.9	1.5	3.0	2.0	3.4	3.9
	8H	1.4	3.0	1.9	3.5	3.9	1.4	3.0	1.9	3.5	4.0
	12H	1.3	3.0	1.8	3.5	4.0	1.3	3.0	1.8	3.5	4.0
8H	4H	1.4	3.0	1.9	3.5	4.0	1.4	3.0	1.9	3.5	3.9
	6H	1.3	2.9	1.8	3.4	3.9	1.3	2.9	1.8	3.4	3.9
	8H	1.3	2.7	1.8	3.2	3.7	1.3	2.7	1.8	3.2	3.7
	12H	1.4	2.4	1.9	2.9	3.4	1.4	2.4	1.9	2.9	3.4
12H	4H	1.3	3.0	1.8	3.5	4.0	1.3	3.0	1.8	3.5	4.0
	6H	1.3	2.7	1.8	3.2	3.7	1.3	2.7	1.8	3.2	3.7
	8H	1.4	2.4	1.9	2.9	3.4	1.4	2.4	1.9	2.9	3.4
Variations with the observer position at spacing:											
S =	1.0H	2.8 / -2.4					2.8 / -2.4				
	1.5H	5.1 / -3.7					5.1 / -3.7				
	2.0H	6.9 / -4.7					6.9 / -4.7				