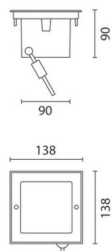


Last information update: May 2018

**large body with swivel optic $\pm 10^\circ$ - 3100K****Product code**

BB50

Technical description

Luminaire designed to use white LEDs for illumination purposes that can be recessed, wall-mounted, applied to the floor or into a garden. It is made up of main body, closing glass, frame and outer casing (upon request). The large square body is made of high-resistance plastic material. The AISI 304-stainless-steel frame is 2.5 mm thick. It has two AISI 304-stainless-steel captive screws (used to anchor the body to the outer casing) and welded stud bolts. The outer casing used for installation must be ordered separately from the optical assembly. It is made of either painted cast aluminium (wall or floor application) or plastic material (garden installation). The optical assembly is closed at the top by a transparent hardened sodium-lime glass 10 mm thick. Black silicone rubber gaskets ensure perfect tightness. The body is fixed to the frame/glass unit by means of turned elements in stainless steel AISI 304. The product comes complete with antiglare spill rings in thermoplastic material and plastic lenses with 10° cones. A stainless-steel cable clamp PG11 is used on the wiring system. The product comes complete with power supply cable L = 300 mm type H05RN-F 2x1 mm². The power supply cable includes an anti-transpiration device. The product can be inclined around the horizontal axis by $\pm 10^\circ$ and can rotate around the vertical axis by 355° . The unit made up of frame, glass, optical assembly and outer casing ensures resistance to 1000-kg static load (500 Kg in the version with plastic outer casing) in compliance with Standard EN60598-2-13. The LEDs are controlled by means of Effect Equalizer. Maximum glass surface temperature is lower than 40°C . All external screws are made of stainless steel AISI 304.

Installation

Recessed application by means of an outer casing for embedding (to be ordered separately). The outer casing is available in the 100-mm painted cast-aluminium version complete with end cap (application to the wall or into the ground) or in the 150-mm plastic version (garden installation).

Dimension (mm)

138x138x90

Colour

Steel (13)

Weight (Kg)

0.92

Mounting

wall recessed/ground recessed

Notes

Fitting complete with lamp and electronic power supply. Cool white (6700K), green, red and amber colours available upon request.

Complies with EN60598-1 and pertinent regulations

**Product configuration: BB50****Product characteristics**

Total lighting output [Lm]: 104
Total power [W]: 4.7
Luminous efficacy [Lm/W]: 22.2
Life Time: 66,000h - L80 - B10 (Ta 25°C)
Number of optical assemblies: 1

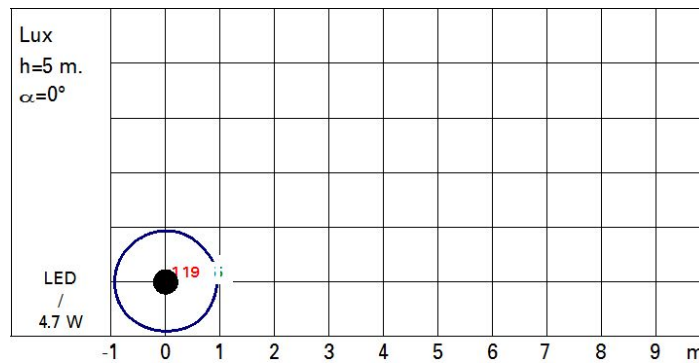
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Ambient temperature range: from -20°C to $+35^\circ\text{C}$.

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 43
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 3
Nominal luminous [Lm]: 240
Lamp maximum intensity [cd]: /
Beam angle [$^\circ$]: 8°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 1.7
Colour temperature [K]: 3000
CRI: 80
Wavelength [nm]: /
MacAdam Step: 3

$I_{\max}=3299 \text{ cd}$	Lux			
	h	d	Em	E _{max}
	2	0.3	602	825
	4	0.6	150	206
	6	0.8	67	92
$\alpha=8^\circ$	8	1.1	38	52



Corrected UGR values (at 252 lm bare lamp luminous flux)											
Reflect.: ceil/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
viewed crosswise						viewed endwise					
2H	2H	-0.3	-4.3	-0.0	-4.0	-3.7	-0.3	-4.3	-0.0	-4.0	-3.7
	3H	-0.4	-5.2	-0.1	-4.9	-4.6	-0.3	-5.2	-0.0	-4.9	-4.6
	4H	-0.4	-5.6	-0.1	-5.3	-5.0	-0.4	-5.5	-0.0	-5.2	-4.9
	0H	-0.4	-5.9	-0.1	-5.6	-5.3	-0.4	-5.9	-0.0	-5.6	-5.2
	8H	-0.5	-5.9	-0.2	-5.5	-5.2	-0.5	-5.8	-0.1	-5.5	-5.1
	12H	-0.7	-5.8	-0.3	-5.5	-5.1	-0.6	-5.8	-0.2	-5.4	-5.0
4H	2H	-0.4	-5.5	-0.0	-5.2	-4.9	-0.4	-5.6	-0.1	-5.3	-5.0
	3H	-0.6	-5.8	-0.2	-5.4	-5.0	-0.6	-5.8	-0.2	-5.4	-5.0
	4H	-0.9	-5.6	-0.4	-5.2	-4.8	-0.9	-5.6	-0.4	-5.2	-4.8
	0H	-7.2	-5.3	-0.7	-4.9	-4.4	-7.2	-5.3	-0.7	-4.9	-4.4
	8H	-7.3	-5.3	-0.8	-4.9	-4.4	-7.3	-5.3	-0.8	-4.9	-4.4
	12H	-7.3	-5.5	-0.8	-5.0	-4.5	-7.3	-5.5	-0.8	-5.0	-4.5
8H	4H	-7.3	-5.3	-0.8	-4.9	-4.4	-7.3	-5.3	-0.8	-4.9	-4.4
	0H	-7.3	-5.7	-0.8	-5.3	-4.7	-7.3	-5.7	-0.8	-5.3	-4.7
	8H	-7.2	-6.1	-0.7	-5.6	-5.1	-7.2	-6.1	-0.7	-5.6	-5.1
	12H	-7.1	-6.5	-0.6	-6.0	-5.4	-7.1	-6.5	-0.6	-6.0	-5.4
12H	4H	-7.3	-5.5	-0.8	-5.0	-4.5	-7.3	-5.5	-0.8	-5.0	-4.5
	0H	-7.2	-6.1	-0.7	-5.6	-5.1	-7.2	-6.1	-0.7	-5.6	-5.1
	8H	-7.1	-6.5	-0.6	-6.0	-5.4	-7.1	-6.5	-0.6	-6.0	-5.4

Variations with the observer position at spacing:

S =	1.0H	2.0 / -7.9	2.0 / -7.9
	1.5H	2.0 / -6.5	2.0 / -6.5
	2.0H	2.8 / -7.6	2.8 / -7.6