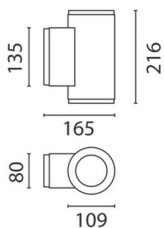


Last information update: February 2024

**Product configuration: BC20**

BC20: Up/down light wall-mounting LED warm white - spot/spot optic

**Product code**BC20: Up/down light wall-mounting LED warm white - spot/spot optic **Attention! Code no longer in production****Technical description**

Lighting system with up-down emission designed to use monochromatic Warm White (3100K) LEDs with spot adjustable optic ( $\pm 15^\circ$  around vertical axis and  $180^\circ$  around horizontal plane). Optical assembly, ceiling base, arm and frame made of diecast aluminium alloy, with acrylic liquid paint treatment with high resistance to atmospheric agents and UV rays; double tempered transparent sodium calcium closing glass, 4 mm thick, siliconed to frame. Provided with fast-coupling closing system between frame, optical assembly and wall base, without the use of tools. Internal silicone watertight gaskets. Complete with circuit with 6+6 monochromatic Warm White (3100K) power LEDs, Spot (S) optics with plastic lens, and built-in electronic ballast. Double black polyamide PG11 cable clamp for through wiring (suitable for cables with  $6.5 \div 11$  mm diameter). Three-pole terminal board designed for through earth wire. Connection between terminal board and control gear via cables with fast-coupling connectors. Various accessories available: refractor for elliptical distribution and chromatic filters. All external screws are made of stainless steel A2.

**Installation**

Wall installation with down-light luminous emission.

**Colour**

White (01) | Black (04) | Grey (15) | Rust Brown (F5)

**Weight (Kg)**

2.35

**Mounting**

wall arm/wall surface

**Wiring**

Control gear with 220÷240Vac 50/60Hz electronic ballast.

**Notes**

Insulation class II, available with Insulation Class I (on demand). Spare parts for LED circuit and electronic control gear available for extraordinary maintenance. Anti-theft fastening system with torx screws between wall arm and optical assembly on demand.

Complies with EN60598-1 and pertinent regulations

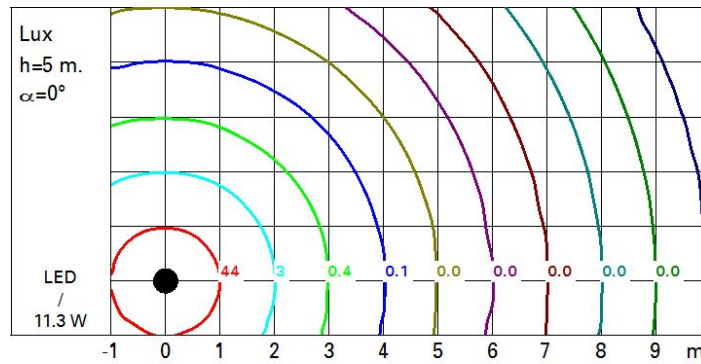
**Technical data**

Im system:	900	MacAdam Step:	3
W system:	11.3	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
Im source:	1200	Ballast losses [W]:	3.2
W source:	8.1	Lamp code:	LED
Luminous efficiency (Im/W, real value):	79.6	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of $90^\circ$ [Lm]:	450	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	75	Intervallo temperatura ambiente:	from $-30^\circ\text{C}$ to $35^\circ\text{C}$ .
Beam angle $[\circ]$ :	$14^\circ$	Power factor:	See installation instructions
CRI (minimum):	80	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	3000		

**Polar**

Imax=4582 cd		Lux			
		h	d	Em	Emax
	$180^\circ$	2	-	74	1146
	$90^\circ$	4	-	18	286
	$0^\circ$	6	-	8	127
		8	-	5	72

### Isolux



### UGR diagram

Corrected UGR values (at 1200 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
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	-5.6	-4.6	-4.7	-3.7	-2.4	-5.6	-4.6	-4.7	-3.7	-2.4
	3H	-5.3	-4.5	-4.4	-3.6	-2.4	-5.6	-4.9	-4.7	-3.9	-2.7
	4H	-5.0	-4.4	-4.1	-3.5	-2.3	-5.6	-5.0	-4.7	-4.1	-2.9
	6H	-4.8	-4.3	-3.9	-3.4	-2.3	-5.7	-5.2	-4.8	-4.3	-3.1
	8H	-4.7	-4.2	-3.8	-3.3	-2.1	-5.7	-5.3	-4.8	-4.3	-3.1
	12H	-4.6	-4.1	-3.7	-3.2	-2.0	-5.8	-5.3	-4.9	-4.4	-3.2
4H	2H	-5.6	-5.0	-4.7	-4.1	-2.9	-5.0	-4.4	-4.1	-3.5	-2.3
	3H	-5.1	-4.6	-4.2	-3.7	-2.5	-4.9	-4.4	-3.9	-3.4	-2.2
	4H	-4.8	-4.3	-3.9	-3.3	-2.1	-4.8	-4.3	-3.9	-3.3	-2.1
	6H	-4.5	-3.8	-3.6	-2.8	-1.5	-4.9	-4.2	-3.9	-3.1	-1.8
	8H	-4.4	-3.6	-3.4	-2.6	-1.2	-4.9	-4.1	-3.9	-3.1	-1.7
	12H	-4.2	-3.5	-3.3	-2.4	-1.0	-4.9	-4.2	-4.0	-3.1	-1.7
8H	4H	-4.9	-4.1	-3.9	-3.1	-1.7	-4.4	-3.6	-3.4	-2.6	-1.2
	6H	-4.4	-3.7	-3.4	-2.6	-1.3	-4.2	-3.5	-3.2	-2.5	-1.1
	8H	-4.1	-3.5	-3.1	-2.5	-1.1	-4.1	-3.5	-3.1	-2.5	-1.1
	12H	-3.7	-3.3	-2.7	-2.3	-0.9	-3.9	-3.5	-2.9	-2.5	-1.1
12H	4H	-4.9	-4.2	-4.0	-3.1	-1.7	-4.2	-3.5	-3.3	-2.4	-1.0
	6H	-4.3	-3.8	-3.3	-2.7	-1.3	-3.9	-3.4	-2.9	-2.3	-1.0
	8H	-3.9	-3.5	-2.9	-2.5	-1.1	-3.7	-3.3	-2.7	-2.3	-0.9
Variations with the observer position at spacing:											
S =		1.0H	1.4	/ -0.9			1.4	/ -0.9			
		1.5H	2.9	/ -1.3			2.9	/ -1.3			
		2.0H	4.3	/ -1.6			4.3	/ -1.6			