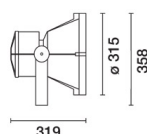


Last information update: May 2018


**Spotlight with bracket - Warm White COB LED - Integrated electronic control gear - Wide Flood Optic (WF)**
**Product code**  
E986

**Technical description**

Spotlight designed to use Warm White COB LED lamps and a wide flood optic. Can be installed at ground level, on walls (using screw anchors) and on pole mounting systems. Consists of an optical assembly, a component box, a glass-holding frame and bracket. The optical assembly component box and glass-holding frame are made of EN1706AC 46100LF aluminium alloy and 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 following 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 4 mm thick, tempered, sodium-calcium, closing glass is colourless, transparent and comes complete with a seal. The black 60 Shore A silicone seal has been subject to a post-curing treatment, in an oven, for 4 hours at 220 °C. The glass unit and seal is fixed to the frame with silicone. The product comes complete with a warm white colour, monochrome COB LED circuit, an optic with a 99.93% super-pure aluminium OPTIBEAM reflector with a polished, anodized surface and built-in electronic ballast. Galvanized steel ballast holding plate; extraordinary maintenance is simplified thanks to quick-coupling connectors between the control gear and the LEDs and between the control gear and the wiring terminal block. The box and rear cover are made of painted aluminium alloy and come complete with spacers and captive screws. The spotlight can be adjusted by  $\pm 115^\circ$  in the vertical plane using a painted steel bracket, with a graduated scale showing 10° steps and mechanical stops to guarantee stable aiming of the light beam. Horizontal aiming is performed using the holes and slots in the bracket. Access to the optical assembly is simple thanks to a nickel-plated brass decompression valve which eliminates the product's internal vacuum. Set up for pass-through wiring using a double M24x1.5 nickel-plated brass cable gland (suitable for cables with 7÷16mm diameter). All external screws used are made of A2 stainless steel and are of the captive type. The luminaire technical characteristics conform to EN60598-1 standards and particular requirements.

**Installation**

The luminaire can be floor, ceiling or wall-mounted using a support bracket that can be secured with screw anchors (Fisher type or similar) for concrete, cement and solid brick or various other available accessories. MultiWoody, Citywoody and FrameWoody luminaires with a square structure can also be installed on poles.

**Dimension (mm)**

Ø315x358

**Colour**

Grey (15)

**Weight (Kg)**

7.6

**Mounting**

wall arm|pole arm|ground surface|wall surface|ground anchored|wall bracket|ceiling surface|u-bracket|pole-top

**Wiring**

Control gear complete with electronic ballast (220÷240Vac 50/60Hz) and a wiring terminal block.

Complies with EN60598-1 and pertinent regulations



IK08

IP67


**Product configuration: E986**
**Product characteristics**

Total lighting output [Lm]: 10403.6  
Total power [W]: 91.9  
Luminous efficacy [Lm/W]: 113.2  
Life Time: 100,000h - 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 °C. (\*)

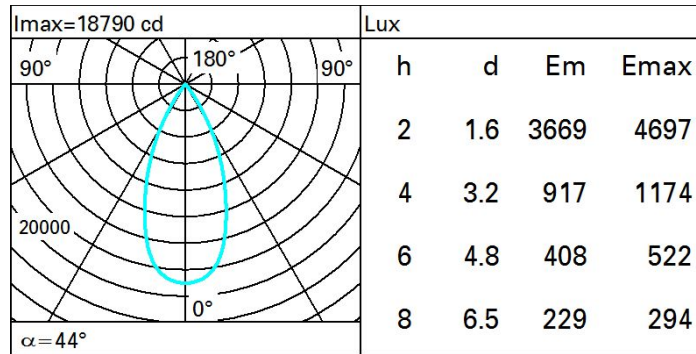
\* Preliminary data

**Optical assembly Characteristics Type 1**

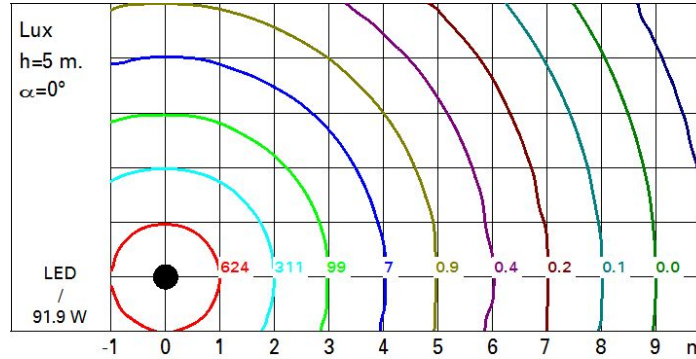
Light Output Ratio (L.O.R.) [%]: 84  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 84  
Nominal luminous [Lm]: 12400  
Lamp maximum intensity [cd]: /  
Beam angle [°]: 44°

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 7.9  
Colour temperature [K]: 3000  
CRI: 80  
Wavelength [Nm]: /  
MacAdam Step: 2

# Polar



# Isolux



# UGR diagram

Corrected UGR values (at 12400 lm bare lamp luminous flux)											
Reflect.:											
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					viewed				
x	y	crosswise					endwise				
2H	2H	14.1	14.6	14.4	14.9	15.1	14.1	14.6	14.4	14.9	15.1
	3H	14.0	14.5	14.3	14.7	15.0	14.0	14.5	14.3	14.7	15.0
	4H	13.9	14.4	14.2	14.6	14.9	13.9	14.4	14.2	14.6	14.9
	6H	13.8	14.2	14.2	14.6	14.9	13.8	14.2	14.2	14.6	14.9
	8H	13.8	14.2	14.1	14.5	14.9	13.8	14.2	14.1	14.5	14.9
	12H	13.8	14.1	14.1	14.5	14.8	13.8	14.1	14.1	14.5	14.8
4H	2H	13.9	14.4	14.2	14.6	14.9	13.9	14.4	14.2	14.6	14.9
	3H	13.8	14.1	14.1	14.5	14.8	13.8	14.1	14.1	14.5	14.8
	4H	13.7	14.0	14.1	14.4	14.8	13.7	14.0	14.1	14.4	14.8
	6H	13.6	13.9	14.0	14.3	14.7	13.6	13.9	14.0	14.3	14.7
	8H	13.5	13.8	14.0	14.2	14.7	13.5	13.8	14.0	14.2	14.7
	12H	13.5	13.7	13.9	14.2	14.6	13.5	13.7	13.9	14.2	14.6
8H	4H	13.5	13.8	14.0	14.2	14.7	13.5	13.8	14.0	14.2	14.7
	6H	13.4	13.7	13.9	14.1	14.6	13.4	13.7	13.9	14.1	14.6
	8H	13.4	13.6	13.9	14.0	14.5	13.4	13.6	13.9	14.0	14.5
	12H	13.3	13.5	13.8	14.0	14.5	13.3	13.5	13.8	14.0	14.5
12H	4H	13.5	13.7	13.9	14.2	14.6	13.5	13.7	13.9	14.2	14.6
	6H	13.4	13.6	13.9	14.0	14.5	13.4	13.6	13.9	14.0	14.5
	8H	13.3	13.5	13.8	14.0	14.5	13.3	13.5	13.8	14.0	14.5
Variations with the observer position at spacing:											
S =	1.0H	6.5 / -17.3					6.5 / -17.3				
	1.5H	9.3 / -19.2					9.3 / -19.2				
	2.0H	11.3 / -20.3					11.3 / -20.3				