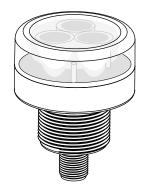
WL50S High-Intensity Work Spot Light



Datasheet

General-purpose LED work lighting

For the latest technical information about this product, including specifications, dimensions, and wiring, see *www.bannerengineering.com*.



- Three lens options, depending on model, to vary spot size
- Illuminates a large area with an even pattern of light and no shadows
- 12 to 30V dc operation
- Cabled and quick-disconnect models available
- 50 mm diameter with flat profile and 30 mm mounting base
- Rugged sealed housing rated to IP69K



WARNING: Not To Be Used for Personnel Protection

Never use this device as a sensing device for personnel protection. Doing so could lead to serious injury or death. This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition.

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Model ¹	LED Color	Lumens	Lux		Lens Angle	Connection
			0.5 m	1 m		
WL50SWL5Q	White, 5000-8300 K	295	13780	3445	±5° (smaller, more focused spot; see graph)	5 pin Euro integral QD connector (use with a 4-wire mating cordset; only 2 wires used for connection)
WL50SRL5Q	Red, 620-630 nm	110	8000	2000		
WL50SGL5Q	Green, 520-535 nm	210	13000	3250		
WL50SWL11Q	White, 5000-8300 K	285	5460	1365	±11° (larger spot; see graph)	
WL50SRL11Q	Red, 620-630 nm	105	2500	625		
WL50SGL11Q	Green, 520-535 nm	200	3900	975		
WL50SWL20Q	White, 5000-8300 K	270	2000	500		
WL50SRL20Q	Red, 620-630 nm	100	1040	260	±20° (largest spot; see graph)	
WL50SGL20Q	Green, 520-535 nm	190	1700	425		

Integral QD models only are listed. For integral 2 m (6.5') PVC cable, omit suffix Q from model number (example, WL50SWL5). A model with a QD requires a mating cordset (see 4-Pin Euro-Style Cordsets on page 3).



Specifications

Supply Voltage and Current Operating voltage: 12 to 30V dc

Current draw: 400 mA max.

- Supply Protection Circuitry Protected against reverse polarity and transient voltages
- Light Source

Three high-intensity LEDs; see models table for color temperature or wavelengths

Useful Life

When operating within specifications, output will decrease less than 30% after 50,000 hours.

Construction

Black anodized aluminum housing; polycarbonate window; nickel-plated QD connector or PVC-jacketed cable; black zinc-plated steel mounting nut

Mounting:

30x1.5 mm thread base mount

Connections

Integral 5-pin M12/Euro style QD or 2 m (6.5 ft) integral cable, depending on model; 4-pin connecting cordset required for QD models; only 2 wires used

Environmental Rating IEC IP67, IP69K per DIN 40050-9



NOTE: Do not spray the cable with a high-pressure sprayer or cable damage will result.

Operating Conditions

-20 °C to +50 °C (-4 °F to +122 °F)

95% maximum relative humidity (non-condensing)

Vibration and Mechanical Shock

All models meet Mil. Std. 202F requirements method 201A (vibration: 10 to 60 Hz max., double amplitude 0.06", maximum acceleration 10G). Also meets IEC 947-5-2; 30G 11 ms duration, half sine wave.

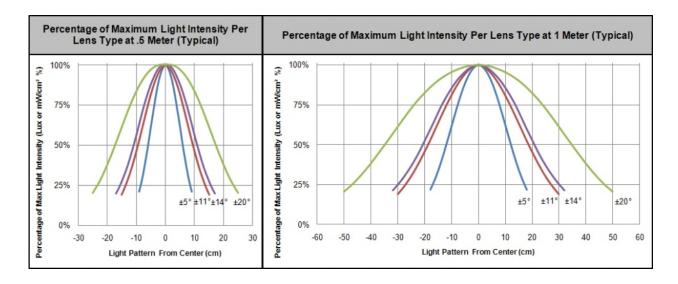
Storage Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

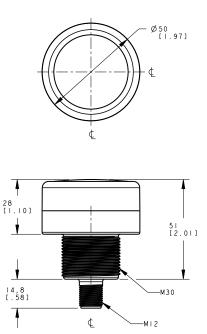
Certifications



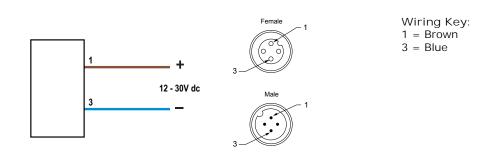
Beam Patterns



Dimensions



Wiring



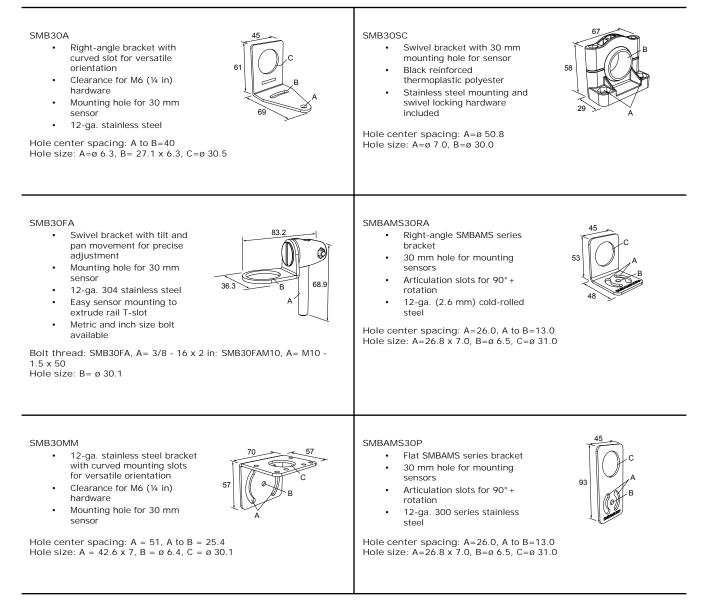
4-Pin Euro-Style Cordsets

4-Pin Threaded M12/Euro-Style Cordsets					
Model	Length	Style	Dimensions	Pinout	
MQDC-406	1.83 m (6 ft)		⊣ 44 Typ - -		
MQDC-415	4.57 m (15 ft)			$1 - \left(\begin{array}{c} c \\ c \\ c \end{array} \right)^2$	
MQDC-430	9.14 m (30 ft)				
MQDC-450	15.2 m (50 ft)	Straight	M12 x 1 → ø 14.5 →	4	
				1 = Brown 2 = White 3 = Blue 4 = Black	

4-Pin Threaded M12/Euro-Style Cordsets					
Model	Length	Style	Dimensions	Pinout	
MQDC-406RA	1.83 m (6 ft)		32 Тур.		
MQDC-415RA	4.57 m (15 ft)		[1.26"]		
MQDC-430RA	9.14 m (30 ft)				
MQDC-450RA	15.2 m (50 ft)	Right-Angle	M12 x 1		

Mounting Brackets

All measurements are in mm



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more sensors, more solutions