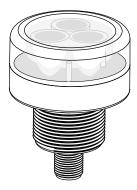
WL50S High-Intensity Work Spot Light



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.

Models

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	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	spot; see graph)	
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		

14 November 2013

P/N 158250 Rev. D

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.

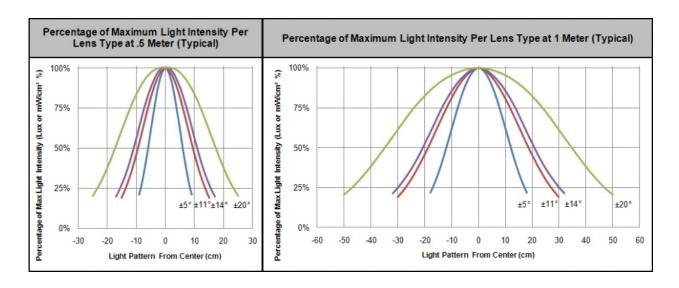
Storage Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

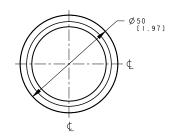
Certifications

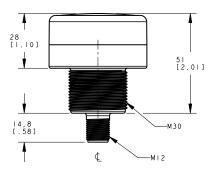


Beam Patterns

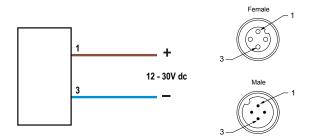


Dimensions





Wiring



Wiring Key: 1 = Brown 3 = Blue

4-Pin Euro-Style Cordsets

4-Pin Threaded M12/Euro-Style Cordsets							
Model	Length	Style	Dimensions	Pinout			
MQDC-406	1.83 m (6 ft)						
MQDC-415	4.57 m (15 ft)			2			
MQDC-430	9.14 m (30 ft)			1-(60)			
MQDC-450	15.2 m (50 ft)	Straight	M12 x 1 —	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 Typ. [1.26"] 30 Typ. [1.18"] M12 x 1 Ø 14.5 [0.57"]				
MQDC-415RA	4.57 m (15 ft)						
MQDC-430RA	9.14 m (30 ft)						
MQDC-450RA	15.2 m (50 ft)	Right-Angle					

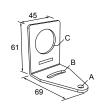
Mounting Brackets

All measurements are in mm

SMB30A

- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel

Hole center spacing: A to B=40 Hole size: A=Ø 6.3, B= 27.1 x 6.3, C=Ø 30.5



SMB30SC

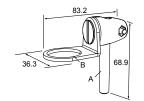
- Swivel bracket with 30 mm mounting hole for sensor
- Black reinforced
- thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included

Hole center spacing: A=Ø 50.8 Hole size: A=Ø 7.0, B=Ø 30.0



SMB30FA

- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available



Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50

Hole size: B= Ø 30.1

SMBAMS30RA

- Right-angle SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90° + rotation
- 12-ga. (2.6 mm) cold-rolled steel

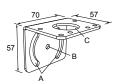
Hole center spacing: A=26.0, A to B=13.0 Hole size: A=26.8 x 7.0, B= \emptyset 6.5, C= \emptyset 31.0



SMB30MM

- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor

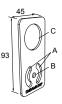
Hole center spacing: A = 51, A to B = 25.4 Hole size: A = 42.6 x 7, B = \emptyset 6.4, C = \emptyset 30.1



SMBAMS30P

- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90° + rotation
- 12-ga. 300 series stainless steel

Hole center spacing: A=26.0, A to B=13.0 Hole size: A=26.8 x 7.0, B= \emptyset 6.5, C= \emptyset 31.0



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