



WL50S LED Spot Work Lights

Banner's high-intensity LED Spot Lights emit light in a controlled beam, providing extremely bright illumination directly at a target with optimal energy efficiency. These lights are rugged and water-resistant, making them a good choice for machine lighting, food and beverage applications and mobile applications.

- Three lens options to suit many application needs
- Rugged, sealed housing rated to IP69K
- 50 mm diameter with flat profile and 30 mm mounting base
- Stainless steel version with FDA-grade silicone gasket and Viton® O-Ring seal
- Many bracket options for simple mounting and alignment
- Dimmable models available (see page 536)

WL50S, 12-30 V DC Example Model Number WL50SWL11Q

Family	LED Color	Lens Angle	Connector
WL50S	W	L11	Q
	W = White R = Red G = Green	L5 = ±5° (small) L11 = ±11° (large) L20 = ±20° (largest)	Blank = 2 m Integral Cable Q = Integral 4-Pin Euro QD (mating cordset required)*

Stainless Steel WL50S, 12-30 V DC Example Model Number WL50SWSSL11Q

Family	LED Color	Housing	Window Material	Lens Angle	Connector
WL50S	W	SS		L11	Q
	W = White R = Red G = Green	SS = Stainless Steel	Blank = Polycarbonate G = Glass	L5 = ±5° (small) L11 = ±11° (large) L20 = ±20° (largest)	Q = Integral 4-Pin Euro QD (mating cordset required)*







* Models require a mating cordset (see page 533).




Cordsets

Euro QD (for Q models)



See page 906

Length	Threaded 4-Pin	
	Straight	Right-Angle
1.83 m	 MQDC-406	 MQDC-406RA
4.57 m	 MQDC-415	 MQDC-415RA
9.14 m	 MQDC-430	 MQDC-430RA

 Additional cordset information available. See page 902.

Euro QD (for Q models)

See page 920

Length	Threaded 5-Pin
	Straight
1.83 m	 MQDCWD-506
9.14 m	 MQDCWD-530

These models are stainless steel


Brackets

WL50S

See page 872

See page 873

SMB30A	SMB30SC
	

 Additional bracket information available. See page 852.

Flex Arm

WL50S

See page 538



WL50S Specifications

Supply Voltage and Current	12 to 30 V dc, 400 mA max.																																																								
Light Characteristics	<table border="1"> <thead> <tr> <th>Lens Angle</th> <th>Model</th> <th>LED Color</th> <th>Window Material</th> <th>Lumens* (Typical @ 25° C)</th> </tr> </thead> <tbody> <tr> <td rowspan="5">±5° (smaller, more focused spot)</td> <td>WL50SWL5Q</td> <td>White</td> <td rowspan="3">Polycarbonate</td> <td>295</td> </tr> <tr> <td>WL50SRL5Q</td> <td>Red</td> <td>110</td> </tr> <tr> <td>WL50SGL5Q</td> <td>Green</td> <td>210</td> </tr> <tr> <td>WL50SWSSL5Q</td> <td rowspan="2">White</td> <td>Polycarbonate</td> <td rowspan="2">295</td> </tr> <tr> <td>WL50SWSSGL5Q</td> <td>Glass</td> </tr> <tr> <td rowspan="5">±11° (larger spot)</td> <td>WL50SWL11Q</td> <td>White</td> <td rowspan="3">Polycarbonate</td> <td>285</td> </tr> <tr> <td>WL50SRL11Q</td> <td>Red</td> <td>105</td> </tr> <tr> <td>WL50SGL11Q</td> <td>Green</td> <td>200</td> </tr> <tr> <td>WL50SWSSL11Q</td> <td rowspan="2">White</td> <td>Polycarbonate</td> <td rowspan="2">285</td> </tr> <tr> <td>WL50SWSSGL11Q</td> <td>Glass</td> </tr> <tr> <td rowspan="5">±20° (largest spot)</td> <td>WL50SWL20Q</td> <td>White</td> <td rowspan="3">Polycarbonate</td> <td>270</td> </tr> <tr> <td>WL50SRL20Q</td> <td>Red</td> <td>100</td> </tr> <tr> <td>WL50SGL20Q</td> <td>Green</td> <td>190</td> </tr> <tr> <td>WL50SWSSL20Q</td> <td rowspan="2">White</td> <td>Polycarbonate</td> <td rowspan="2">270</td> </tr> <tr> <td>WL50SWSSGL20Q</td> <td>Glass</td> </tr> </tbody> </table> <p>Color Temperature (CCT): White: 5,000-8,300 K, Red: 620-630 nm, Green: 520-535 nm</p>	Lens Angle	Model	LED Color	Window Material	Lumens* (Typical @ 25° C)	±5° (smaller, more focused spot)	WL50SWL5Q	White	Polycarbonate	295	WL50SRL5Q	Red	110	WL50SGL5Q	Green	210	WL50SWSSL5Q	White	Polycarbonate	295	WL50SWSSGL5Q	Glass	±11° (larger spot)	WL50SWL11Q	White	Polycarbonate	285	WL50SRL11Q	Red	105	WL50SGL11Q	Green	200	WL50SWSSL11Q	White	Polycarbonate	285	WL50SWSSGL11Q	Glass	±20° (largest spot)	WL50SWL20Q	White	Polycarbonate	270	WL50SRL20Q	Red	100	WL50SGL20Q	Green	190	WL50SWSSL20Q	White	Polycarbonate	270	WL50SWSSGL20Q	Glass
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Supply Protection Circuitry	Protected against reverse polarity and transient voltages																																																								
Construction	WL50S... : Black anodized aluminum housing; polycarbonate window; nickel-plated QD connector or PVC-jacketed cable; black zinc-plated steel mounting nut WL50SS... : 316 stainless steel housing, polycarbonate or glass window with Viton seal, 316 stainless steel M30 mounting nut, FDA grade silicon base gasket																																																								
Useful Life	When operating within specifications, output will decrease less than 30% after 50,000 hours																																																								
Connections	Integral 5-pin M12/Euro style QD or 2 m (6.5') 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																																																								
Operating Conditions	Temperature: -20° to +50° C Relative Humidity: 95% (non-condensing) Storage Temperature: -40° to +70° C																																																								
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.																																																								
Certification	