# WLA Series Work Light



High power solid state LED array in white and color models

Designed for area and machine lighting

Available in four sizes

Rugged thermoplastic housing rated to IP69K

Cabled and quick-disconnect models available

Illuminates a large area with an even pattern of light and no shadows

Lensed models provide a concentrated, more intense, beam pattern

# Datasheet

### General-purpose LED work light

To view or download the latest technical information about this product, including specifications, dimensions, accessories, and wiring, see www.bannerengineering.com.

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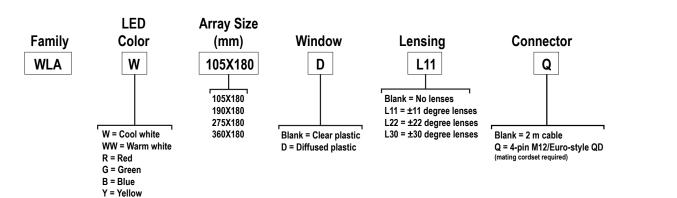
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Lensed models shown at left; non-lensed models shown at right

## Models

Non-Lensed Models <sup>1</sup>	Lensed Models $(\infty)^1$ $\cdot 11 = \pm 11^\circ$ lenses $\cdot 22 = \pm 22^\circ$ lenses $\cdot 30 = \pm 30^\circ$ lenses	Housing Length "L1" <sup>2</sup>	Connection <sup>3</sup>	LED Color	Environmental Rating	Input Voltage	
WLAW105X180Q	WLAW105X180LxxQ	105 mm			IP69K	12 C dc to 30 V dc	
WLAW190X180Q	WLAW190X180LxxQ	190 mm	4-pin M12/Euro-style	Cool white			
WLAW275X180Q	WLAW275X180LxxQ	275 mm	integral QD connector	COOI WHILE			
WLAW360X180Q	WLAW360X180LxxQ	360 mm					



See *Dimensions* on page 3. Integral QD models only are listed. For integral 2 m (6.5' ft PVC cable, omit suffix **Q** from model number (example, **WLAW105X180**). A model with a QD requires a mating cordset (see *GUID-61755D4E-A4A7-4DEF-89F4-63ECA4037B06*).



Additional color and window options listed in the model key.

<sup>2</sup> 3

## Specifications

Supply Voltage and Current 12 V dc to 30 V dc (10% maximum ripple) Use only with suitable Class 2 power supply (UL) or SELV power supply (CE).

Light Length	Maximum Current per Length							
	12 V dc	24 V dc	30 V dc	Watts				
105 mm	0.8 A	0.4 A	0.32 A	9.6				
190 mm	1.6 A	0.8 A	0.64 A	19.2				
275 mm	2.4 A	1.2 A	0.96 A	28.8				
360 mm	3.2 A	1.6 A	1.28 A	38.4				

### Lumens and Lux

Light Length	Lumens <sup>4</sup>									
	Cool White	Warm White	Green	Red	Yellow	Blue				
105 mm	550	435	325	125	275	95				
190 mm	1100	870	650	250	550	190				
275 mm	1650	1305	975	375	825	285				
360 mm	2200	1740	1300	500	1100	380				

Light Length	Non Lensed Models Max Lux <sup>4</sup> at 1m						L11 Lensed Models Max Lux $^4$ at 1m					
	Cool White	Warm White	Green	Red	Yellow	Blue	Cool White	Warm White	Green	Red	Yellow	Blue
105 mm	215	170	115	55	110	30	2865	2290	2910	1375	1795	815
190 mm	430	340	230	110	220	60	5140	4110	4990	2605	3360	1385
275 mm	645	510	345	165	330	90	7565	6050	6400	3345	4705	1760
360 mm	860	680	460	220	440	120	8875	7100	7405	3730	5605	2030

Light Length	L22 Lensed Models Max Lux <sup>4</sup> at 1m						L30 Lensed Models Max Lux <sup>4</sup> at 1m					
Longui	Cool White	Warm White	Green	Red	Yellow	Blue	Cool White	Warm White	Green	Red	Yellow	Blue
105 mm	1110	880	1125	530	695	315	760	600	770	365	475	215
190 mm	2155	1705	2090	1090	1410	580	1500	1185	1450	760	980	405
275 mm	3160	2500	2675	1400	1965	735	2210	1745	1870	975	1375	515
360 mm	4160	3290	3470	1750	2625	950	2890	2285	2410	1215	1825	660

Light Characteristics Cool White: 5300-7000K Warm White: 2600-4300K Green: 520-535 nm Red: 620-630 nm Yellow: 585-595 nm Blue: 460-475 nm

Construction PBT housing; acrylic window; nickel-plated brass connector or PVC-jacketed cable

### Mounting

When mounting light to combustible or insulating surfaces, a minimum of 1 inch of clearance around all sides is required. Use supplied standoffs or alternative mounting method to achieve spacing. Accessory bracket available.

# Environmental Rating Rated IEC IP67 and IP69K, per DIN 40050

Connections

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Integral 4-pin M12 male quick disconnect (QD) (4-pin connecting cordset required); or 2 m (6.5 ft) integral cable

Operating Temperature -20 °C to +50 °C (-4 °F to +122 °F)

Storage Temperature -40 °C to +70 °C (-40 °F to +158 °F)

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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. Certifications

Note: Do not spray cable with high-pressure sprayer, or cable damage will result.

<sup>📱</sup> Lumen and lux values are typical when operating at 25 °C ambient. Values lowered by 35% on diffused windows models.

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# Beam Pattern

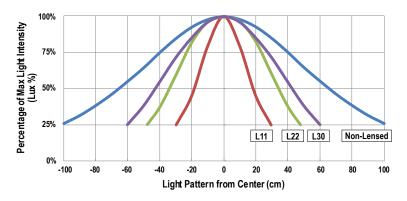
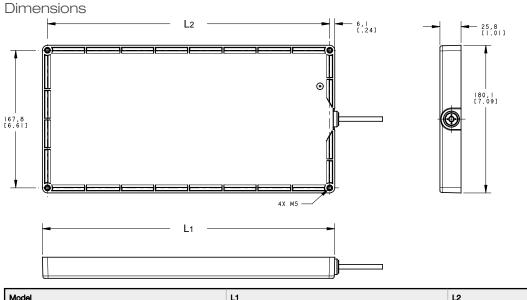
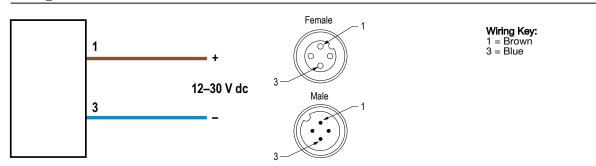


Figure 1. Percentage of Maximum Light Intensity for Lensed and Nonlensed Models at 1 Meter (Typical)



Model	L1	12
WLAW105X	105.1 mm (4.14 in)	92.8 mm (3.66 in)
WLAW190X	188.9 mm (7.44 in)	176.7 mm (6.96 in)
WLAW275X	272.7 mm (10.74 in)	260.3 mm (10.25 in)
WLAW360X	356.6 mm (14.04 in)	344.3 mm (13.55 in)

Wiring



### Accessories

### Cordsets

4-Pin Threaded M12/Euro-Style Cordsets—Single Ended								
Model	Length	Style	Dimensions	Pinout (Female)				
MQDC-406	1.83 m (6 ft)		<b>→</b> 44 Typ. ———					
MQDC-415	4.57 m (15 ft)		M12 x 1 J ø14.5 J					
MQDC-430	9.14 m (30 ft)	Straight						
MQDC-450	15.2 m (50 ft)							
MQDC-406RA	1.83 m (6 ft)		20 Т					
MQDC-415RA	4.57 m (15 ft)		32 Typ [1.26"]	Ť				
MQDC-430RA	9.14 m (30 ft)			1 = Brown				
MQDC-450RA	15.2 m (50 ft)	Right-Angle	≤ 14.5 [0.57"] + - +	2 = White 3 = Blue 4 = Black				

## Accessory Brackets

### SMBBSSM

- 316 stainless steel bracket and hardware
- Includes 2 brackets; four M5 socket drive, button head screws to attach to light



### SMBBSRA

- 316 stainless steel bracket and hardware
- Right-angle swivel bracket for versatile orientation



### SMBWLAMAG

- Magnetic mounting bracket for easy attachment to steel surfaces
- SMBWLAMAGR protective cover also available to prevent scratches to painted surfaces



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