

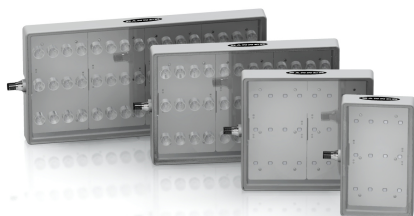
WLA Series Work Light



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.



- High power solid state LED array in white and color models
- Illuminates a large area with an even pattern of light and no shadows
- Designed for area and machine lighting
- Rugged thermoplastic housing rated to IP69K
- Lensed models provide a concentrated, more intense, beam pattern
- Available in four sizes
- Cabled and quick-disconnect models available

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



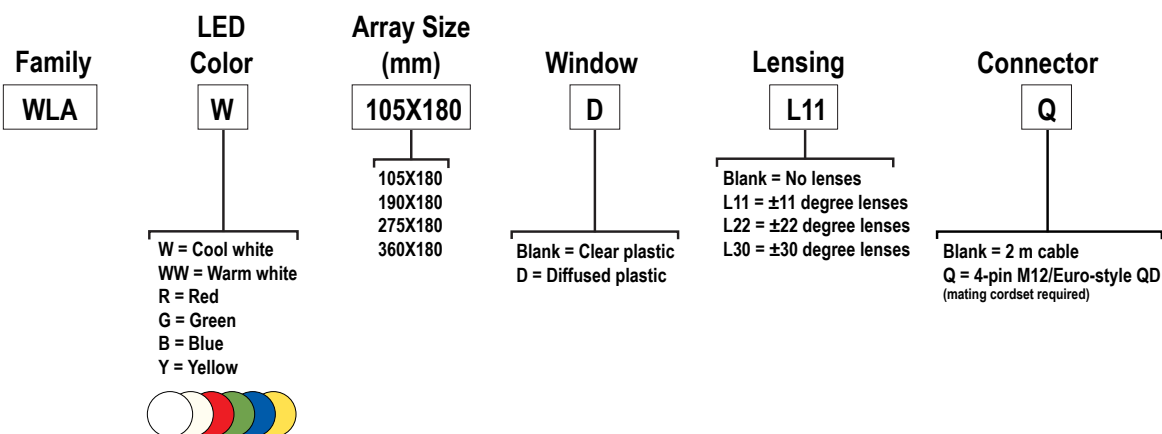
Important: Read the following instructions before operating the light. Please download the complete WLA Series Work Light technical documentation, available in multiple languages, from www.bannerengineering.com for details on the proper use, applications, Warnings, and installation instructions of this device.



Important: Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los WLA Series Work Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

Models

Non-Lensed Models ¹	Lensed Models (xx) ¹ • 11 = ± 11° lenses • 22 = ± 22° lenses • 30 = ± 30° lenses	Housing Length "L1" ²	Connection ³	LED Color	Environmental Rating	Input Voltage
WLAW105X180Q	WLAW105X180LxxQ	105 mm	4-pin M12/Euro-style integral QD connector	Cool white	IP69K	12 C dc to 30 V dc
WLAW190X180Q	WLAW190X180LxxQ	190 mm				
WLAW275X180Q	WLAW275X180LxxQ	275 mm				
WLAW360X180Q	WLAW360X180LxxQ	360 mm				



¹ Additional color and window options listed in the model key.

² See [Dimensions](#) (p. 3).

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 [Accessories](#) (p. 4)).



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).
See electrical characteristics on product label

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 [‡]					
	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 [‡] at 1m						L11 Lensed Models Max Lux [‡] 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 [‡] at 1m						L30 Lensed Models Max Lux [‡] at 1m					
	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

Connections

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

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

Operating Temperature

–20 °C to +50 °C (–4 °F to +122 °F)

Storage Temperature

–40 °C to +70 °C (–40 °F to +158 °F)

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.

Certifications



Required Overcurrent Protection



WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5



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

[‡] Lumen and lux values are typical when operating at 25 °C ambient. Values lowered by 35% on diffused windows models.

Beam Pattern

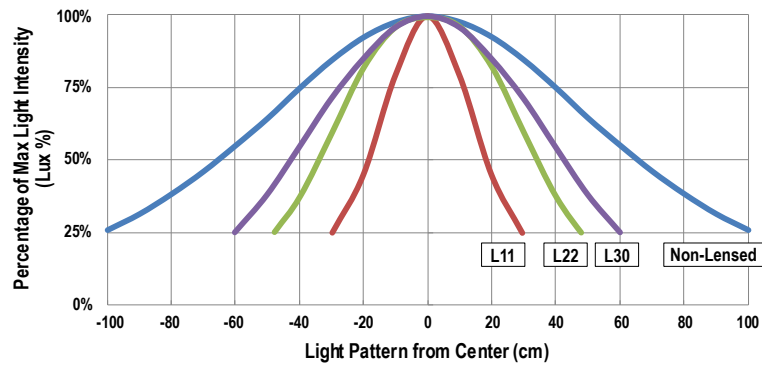
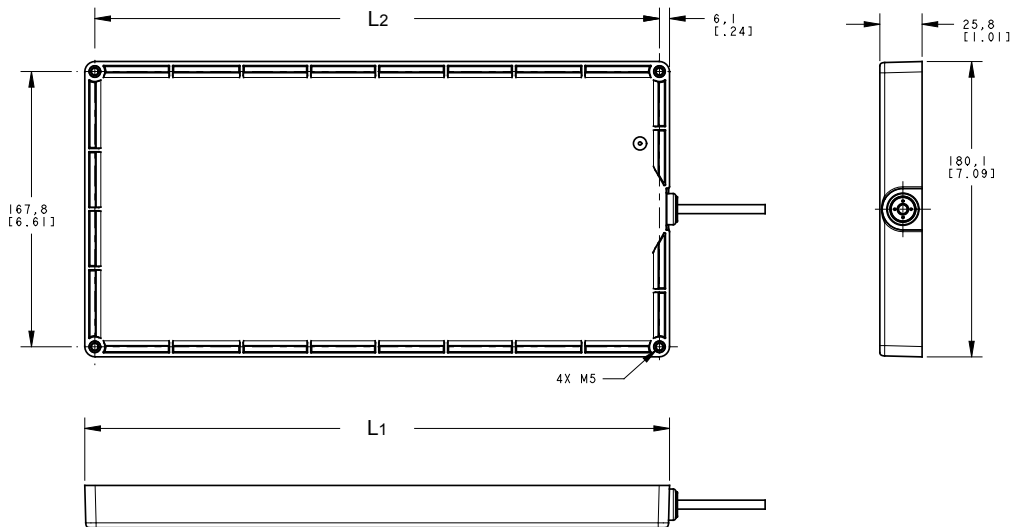


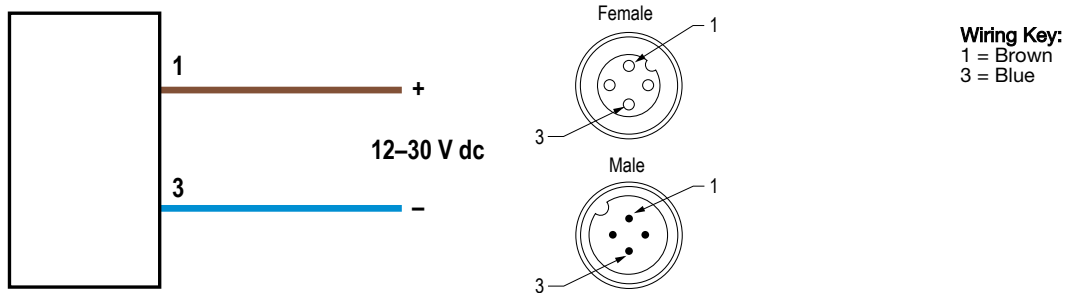
Figure 1. Percentage of Maximum Light Intensity for Lensed and Nonlensed Models at 1 Meter (Typical)

Dimensions



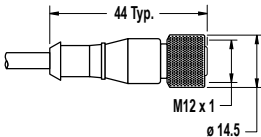
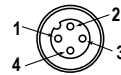
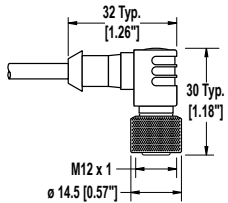
Model	L1	L2
WLAW105X..	105.1 mm (4.14 in)	92.8 mm (3.66 in)
WLAW190X..	188.9 mm (7.44 in)	176.7 mm (6.96 in)
WLAW275X..	272.7 mm (10.74 in)	260.3 mm (10.25 in)
WLAW360X..	356.6 mm (14.04 in)	344.3 mm (13.55 in)

Wiring



Accessories

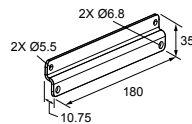
Cordsets

4-Pin Threaded M12/Euro-Style Cordsets—Single Ended				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)	Right-Angle		
MQDC-406RA	1.83 m (6 ft)			
MQDC-415RA	4.57 m (15 ft)			
MQDC-430RA	9.14 m (30 ft)			
MQDC-450RA	15.2 m (50 ft)			

Brackets

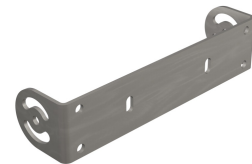
SMBBSSM

- 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

- Kit includes two magnets, two M5 phillips head screws, and two M5 nuts with lock rings
- ø = 51.8 mm (2.04 in)

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