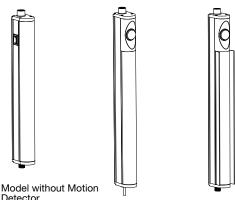
# WLB32 Industrial LED Light Bar (DC)



Datasheet



Banner's WLB32 is an ultra-bright LED fixture that features an even light output for a no glare 'glow'. Suitable for a variety of environments and applications, including work stations, machine lighting, control cabinets, and manufacturing lines, the WLB32 uses advanced LED lighting technology to provide a high-quality and maintenance free industrial lighting solution for years.

- Highly energy efficient for overall cost savings
- High/Low/Off switch
- Models with eye shield block side glare
- Daisy chain power to multiple lights •
- Motion detection models available Metal housing, shatterproof window
- Easy installation with snap clips, or a choice of magnetic or angle • brackets

WLB32 Industrial LED Light Bars are available as cascadable models that can be "daisy-chained" together for a continuous length of lighting, with a minimum of wiring. Each light bar can be turned to high, low, or off independently of the other lights, upstream or downstream, in the chain. A double-ended accessory cordset must be used between each pair of cascading lights.

Detector

Model with Motion Detector

Model with Eye Shield and Motion Detector

12 to 30 V dc Models					
Models	Connector	Lumens			
WLB32C285PBQ	285		750		
WLB32C570PBQ	570	4-pin M12 Quick Disconnect	1500		
WLB32C850PBQ	850	4-pin M12 Quick Disconnect	2250		
WLB32C1130PBQ	1130		3000		
WLB32C285PB	285		750		
WLB32C570PB	570	0 m (0 5 ft) askla	1500		
WLB32C850PB	850	2 m (6.5 ft) cable	2250		
WLB32C1130PB	1130		3000		

To order the light without the integral switch, omit the "PB" from the model number. For example, WLB32C285Q.

- To order the light with the integral motion detector, replace the 'PB' from the model number with 'M'. For example, WLB32C285MQ. To order the light with the eye shield, add an 'E' after the length. For example, WLB32C285EPBQ.



**Important:** Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los WLB32 Industrial LED Light Bar (DC), disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

Important: Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des WLB32 Industrial LED Light Bar (DC) sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

#### Specifications

Supply Voltage 12 to 30 V dc Use only with a suitable Class 2 power supply (UL) or SELV power supply (CE) See electrical characteristics on product label

Light Length (mm)	Max Current Draw (A)	Typical Current Draw (A)		
		12 V dc	24 V dc	30 V dc
285	0.8	0.66	0.31	0.24
570	1.6	1.36	0.62	0.48
850	2.4	2.19	0.93	0.72
1130	3.2	3.02	1.24	0.96



#### Supply Protection Circuitry Protected against reverse polarity and transient voltages Environmental Rating IEC IP50 Light Characteristics Vibration and Mechanical Shock Color: Daylight white Color temperature (CCT): 5000K (±300K) Lumen output: 750 (±5%) per foot, typical at 25 °C (77 °F) Luminous efficacy: 100 lumens/Watt typical at 24 V dc at 25 °C (77 °F) CRI: 85, typical Eye shield reduces lumens by about 25% Vibration 10-55 Hz 1.0 mm p-p amplitude per IEC60068-2-6 Shock 15G 11 ms duration, half sine wave per IEC60068-2-27 Operating Temperature Jerating Temperature -40 °C to +70 °C (-40 °F to +158 °F) Light output begins to decrease above 50 °C (122 °F) and will be approximately 65% of max intensity at 60 °C (140 °F) and 30% of max intensity at 70 °C (158 °F) Models with motion detection: -20 °C to +60 °C (-4 °F to +140 °F) LED Lifetime Lumen Maintenance - L<sub>70</sub> When operating within specifications, output will decrease less than 30% after 50,000 Storage Temperature -40 °C to +70 °C (-40 °F to +158 °F) hours Test Data Push Button II = 100% light intensity I = 50% light intensity O = Off LM-79, LM-80, TM-21 Certifications Models with Motion Detection E VL)US LISTED Light turns off after approximately 60 seconds without detecting motion. Range: 12 meters; $\pm 45^\circ$ field of view Standby current: 170 $\mu A$ UL Recognized for easy Construction nstallation in control cabinets Anodized aluminum housing; polycarbonate window and end caps; stainless steel mounting brackets Spacing Criterion Vertical: 1.22 Horizontal: 1.32 Application Note When connecting cascadable lights in series it is important not to exceed the maximum current limitation of 4 Amps Maximum length of light at 12 V dc: 1.4 m (4.6 ft) Maximum length of light at 24 V dc: 3.0 m (9.8 ft) Maximum length of light at 30 V dc: 3.1 m (10.2 ft) Mounting Snap clips; optional magnetic mount or swivel bracket accessories available Connections Integral 4-pin Euro-style QD (4-pin connecting cordset required for QD models); or 2 m (6.5 ft) integral cable

# Spacing Criteria (SC)

The spacing criteria is the fixture-spacing-to-mounting-height ratio and aids in laying out a pattern of fixtures. Multiply the spacing criteria by the mounting height to get the maximum fixture spacing that still provides even illumination (no shadowing between fixtures). Luminaire Spacing = SC × Height to Illuminated Plane

The mounting height is the distance from the fixture to the surface you are lighting.

2.8 m

2.0 m 3.5 m

2.4 m 4.2 m

### Light Characteristics

439 lux

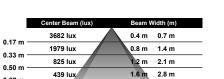
345 lux

223 lux

0.67 m

0.83 m

1.00 m



Illuminance at a Distance

Vert. Horiz. Vertical Spread: 101.5° A Horizontal Spread: 128.8°

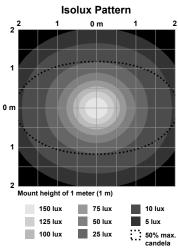
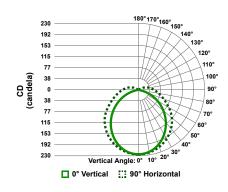
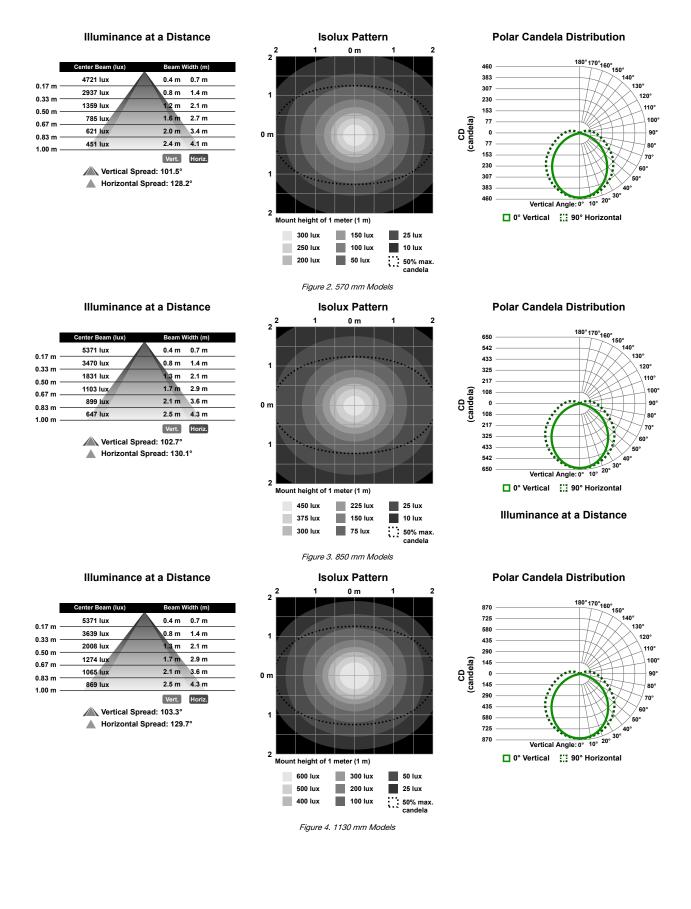


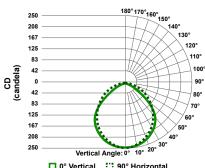
Figure 1. 285 mm Models

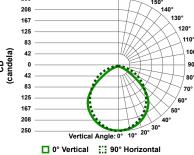
#### **Polar Candela Distribution**





#### **Polar Candela Distribution**







75 lux

50 lux

25 lux

10 lux 5 lux

50% max. candela

Mount height of 1 meter (1 m) 150 lux

125 lux

100 lux

Isolux Pattern

0 m

2

2 루

1

0 m

1

2

Illuminance at a Distance

Illuminance at a Distance

Beam Width (m)

0.4 m 0.4 m

0.8 m 0.8 m

1.6 m 1.7 m

2.0 m 2.1 m

2.3 m 2.5 m

.2 m 1.3 m

Vert. Horiz.

Center Beam (lux)

3654 lux

2024 lux

813 lux

442 lux

345 lux

250 lux

/ Vertical Spread: 98.7°

A Horizontal Spread: 102.8°

0.17 m

0.33 m

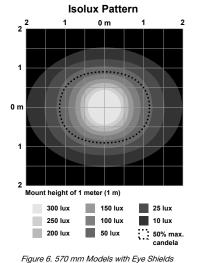
0 50 m

0.67 m

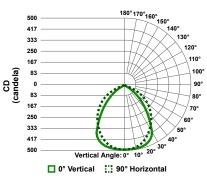
0.83 m

1.00 m

_			
	Center Beam (lux)	Beam Width (m)	
0.17 m —	5334 lux	0.3 m 0.4 m	
0.33 m -	3313 lux	0.6 m 0.8 m	
0.50 m -	1595 lux	0.9 m 1.1 m	
0.67 m —	884 lux	1.2 m 1.5 m	
0.83 m —	706 lux	1.5 m 1.9 m	
1.00 m —	484 lux	1.8 m 2.3 m	
1.00 111 -		Vert. Horiz.	
	/ Vertical Sp	read: 83.5°	
Horizontal Spread: 97.0°			



**Polar Candela Distribution** 



#### Illuminance at a Distance

1	Center Beam (lux)	Beam Width (m)		
0.17 m	5533 lux	0.3 m 0.5 m		
0.33 m	3460 lux	0.6 m 1.0 m		
0.50 m	1815 lux	0.9 m 1.6 m		
0.67 m	1096 lux	1.2 m 2.1 m		
0.83 m	896 lux	1.4 m 2.6 m		
1.00 m	623 lux	1.7 m 3.1 m		
		Vert. Horiz.		
Vertical Spread: 81.4°				
Horizontal Spread: 114.2°				

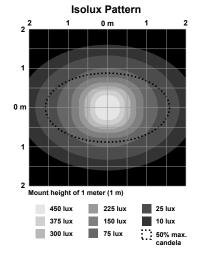
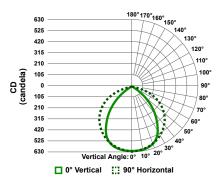
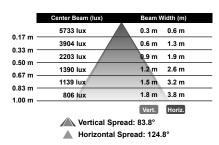


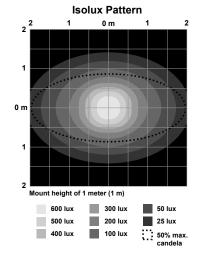
Figure 7. 850 mm Models with Eye Shields

**Polar Candela Distribution** 



#### Illuminance at a Distance





#### Polar Candela Distribution

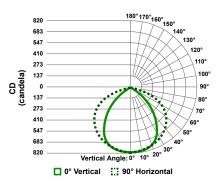
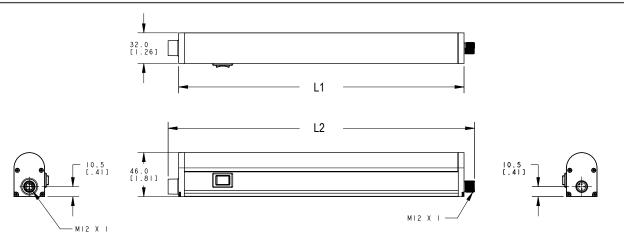


Figure 8. 1130 mm Models with Eye Shields

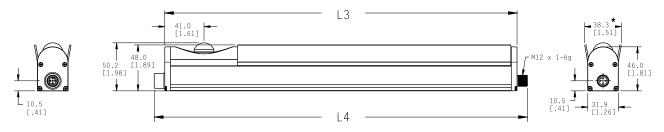
### Wiring

	Wiring	Pinouts (Female and Male)	Wiring Key
Switch Models	1 + 12-30 V dc 3 -	Female	1 = Brown 3 = Blue
Non-Switch and Motion Detector Models		Male 2 3	1 = Brown, connect for 100% intensity 3 = Blue 4 = Black* * For models without motion detection, connect the black wire to 12 to 30 V dc for 50% maximum intensity. For models with motion detection, connect the black wire to 12 to 30 V dc to bypass the motion detector switch.

# Dimensions



# Motion Detector and/or Eye Shield Models



# \* Specific to models with shield

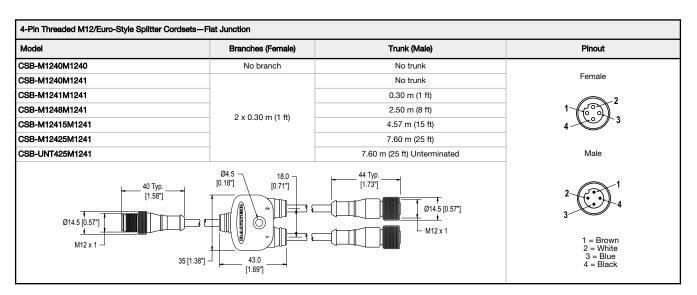
Models	Models without Motion Detector		Models with Motion Detector and/or Eye Shields		
	L1	L2	L3	L4	
WLB32C285Q	298 mm (11.7 in)	320 mm (12.6 in)	368 mm (14.5 in)	390 mm (15.4 in)	
WLB32C570Q	580 mm (22.8 in)	602 mm (23.7 in)	650 mm (25.6 in)	672 mm (26.5 in)	
WLB32C850Q	862 mm (33.9 in)	884 mm (34.8 in)	932 mm (36.7 in)	954 mm (37.6 in)	
WLB32C1130Q	1144 mm (45.0 in)	1166 mm (45.9 in)	1214 mm (47.8 in)	1236 mm (48.7 in)	
WLB32C285	298 mm (11.7 in)	313 mm (12.3 in)	368 mm (14.5 in)	383 mm (15.1 in)	
WLB32C570	580 mm (22.8 in)	595 mm (23.4 in)	650 mm (25.6 in)	665 mm (26.2 in)	
WLB32C850	862 mm (33.9 in)	877 mm (34.5 in)	932 mm (36.7 in)	947 mm (37.3 in)	
WLB32C1130	1144 mm (45.0 in)	1159 mm (45.6 in)	1214 mm (47.8 in)	1229 mm (48.4 in)	

### Accessories

4-Pin Threaded M12/Euro-Style Cordsets—Single Ended					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC-406	1.83 m (6 ft)	ĺ			
MQDC-415	4.57 m (15 ft)				
MQDC-430	9.14 m (30 ft)		44 Typ	1 605 4	
MQDC-450	15.2 m (50 ft)	Straight	M12 x 1 ø 14.5	4 3 1 = Brown 2 = White 3 = Blue 4 = Black	

4-Pin Threaded M12/Euro-Style Cordsets—Single Ended					
Model	Length	Style	Dimensions	Pinout (Female)	
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	6 14.5 [0.57"] + - +		

4-Pin Threaded M12/Euro-Style Cordsets — Double Ended					
Model	Length	Style	Dimensions	Pinout	
MQDEC-401SS	0.31 m (1 ft)				
MQDEC-403SS	0.91 m (3 ft)		40 Typ		
MQDEC-406SS	1.83 m (6 ft)				
MQDEC-412SS	3.66 m (12 ft)				
MQDEC-420SS	6.10 m (20 ft)		M12 x 1	Female	
MQDEC-430SS	9.14 m (30 ft)	Male Straight/Female	ø 14.5 [0.57"]	Ternale	
MQDEC-450SS	15.2 m (50 ft)	Straight	44 Typ. [1.73] M12 x 1 g 14.5 [0.57"]	Male	
MQDEC-403RS	0.91 m (1 ft)		32 Typ. [1.26]	2 2	
MQDEC-406RS	1.83 m (3 ft)			4	
MQDEC-412RS	3.66 m (12 ft)			3	
MQDEC-420RS	6.10 m (20 ft)		30 Typ. [1.18"]		
MQDEC-430RS	9.14 m (30 ft)	Mala Dialet Anala (		1 = Brown 2 = White	
MQDEC-450RS	15.2 m (50 ft)	Male Right-Angle/ Female Straight	M12 x 1 0 14.5 [0.57"] 44 Typ. [1.73"] 0 14.5 [0.57"] 0 1	3 = Blue 4 = Black	



# Enclosure Accessories LMBEDS Switch Bracket with plunger switch to power lights when the enclosure is opened Refer to datasheet 160672 for more information

Mounting Brackets			
<ul> <li>LMBWLB32</li> <li>Replaces the bracket that ships with the WLB32 light</li> <li>Stainless steel</li> <li>Includes 4 snap clips, 4 screws, and 2 insulator caps</li> </ul>	20 36 2X Ø6.5	LMBWLB32-180S • Swivel bracket kit allows 180° of movement	42 20 36 06.4
LMBWLB32MAG • Magnetic mounting bracket for easy attachment to steel and iron surfaces	36	<ul> <li>LMBWLB32U</li> <li>Die cast bracket for rugged applications</li> <li>Secured to light with included thumb screw</li> <li>Clearance hole for 6 mm (1/4 in) button head screw</li> </ul>	41 18 20
<ul> <li>LMEWLB32UT</li> <li>Die cast bracket for rugged applications</li> <li>Secured to light with included thumb screw</li> <li>Integral 1/4-20 stud for mounting</li> </ul>	41 18 20 27		

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## FCC Part 15 and CAN ICES-3 (B)/NMB-3(B)

This device complies with part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
   This device must accept any interference received, including interference that may cause undesired operation.

This device must accept any menteries received, including menerate util may cause understed optration.
 This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to evolve the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 Reorient or relocate the receiving antenna.
 Increase the separation between the equipment and receiver.
 Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 Consult the manufacturer.

Mexican Importer

Banner Engineering de Mèxico, S. de R.L. de C.V. David Alfaro Siqueiros 103 Piso 2 Valle oriente San Pedro Garza Garcia Nuevo Leòn, C. P. 66269 81 8363.2714

