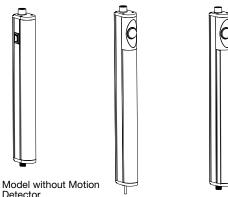


Datasheet



Model with Motion Detector

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.

12 to 30 V dc Models				
Models	Lighted Length (mm)	Connector	Lumens	
WLB32C285PBQ	285		750	
WLB32C570PBQ	570	4 min M10 Quiele Disconnect	1500	
WLB32C850PBQ	850	4-pin M12 Quick Disconnect	2250	
WLB32C1130PBQ	1130		3000	
WLB32C285PB	285		750	
WLB32C570PB	570		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.

Model with Eye Shield and Motion

Detector



Important: Read the following instructions before operating the light. Please download the complete WLB32 Industrial LED Light Bar (DC) 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 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

Supply Current

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



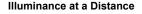
Supply Protection Circuitry Environmental Rating Protected against reverse polarity and transient voltages IEC IP50 Light Characteristics Vibration and Mechanical Shock Color: Daylight white Color temperature (CCT): 5000K (±300K) Lumen output: 750 (±5%) per foot, typical at 25 °C (77 °F) Luminous efficacy: 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 - L₇₀ 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 Light turns off after approximately 60 seconds without detecting motion. Range: 12 meters; $\pm 45^\circ$ field of view Standby current: 170 μA **US LISTED** UL Recognized for easy installation in control cabinets. Construction Anodized aluminum housing; polycarbonate window and end caps; stainless steel mounting brackets Spacing Criterion Vertical: 1.22 Horizontal: 1.32 Mounting Snap clips; optional magnetic mount or swivel bracket accessories available Application Note plication 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) 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)

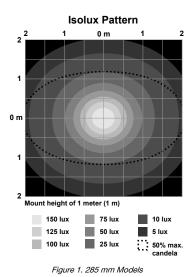
The spacing criteria is the fixture-spacing-to-mounting-height ratio and aids in laying out a pattern of fixtures. Multiply the spacing criteria by the mounting height to get the maximum fixture spacing that still provides even illumination (no shadowing between fixtures). Luminaire Spacing = SC × Height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

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

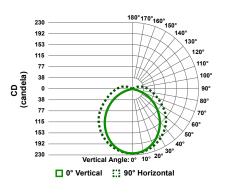
Light Characteristics

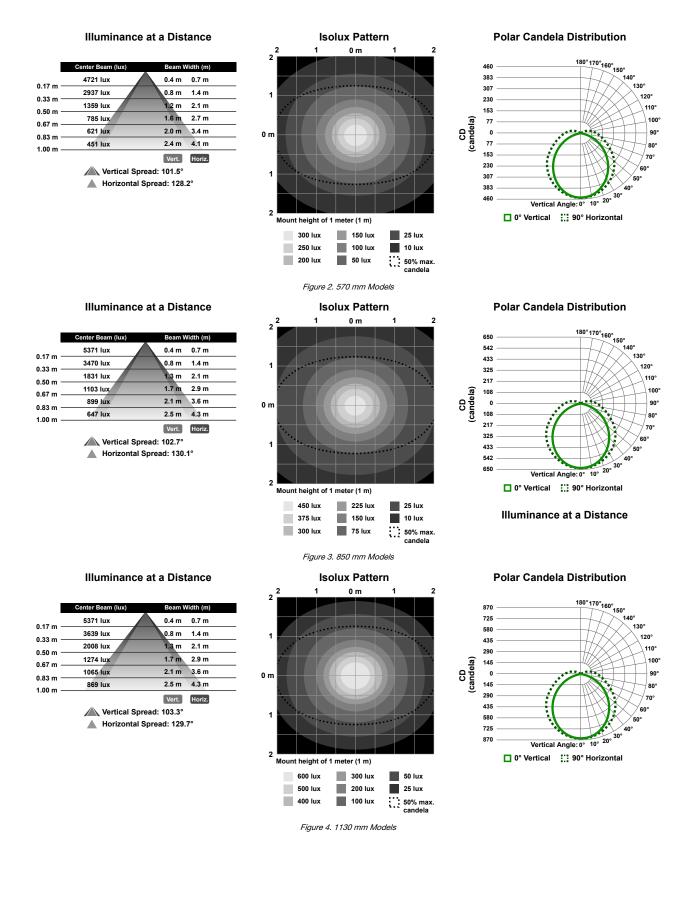


	Center Beam (lux)	Beam Width (m)
0.17 m —	3682 lux	0.4 m 0.7 m
	1979 lux	0.8 m 1.4 m
0.33 m —	825 lux	1.2 m 2.1 m
0.50 m — 0.67 m —	439 lux	1.6 m 2.8 m
0.83 m —	345 lux	2.0 m 3.5 m
0.83 m — 1.00 m —	223 lux	2.4 m 4.2 m
1.00 m –		Vert. Horiz.
	/ Vertical Spre	ead: 101.5°
	Horizontal S	pread: 128.8°

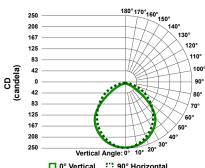


Polar Candela Distribution





Polar Candela Distribution



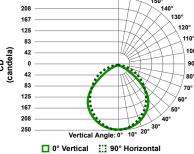


Figure 5. 285 mm Models with Eye Shields

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

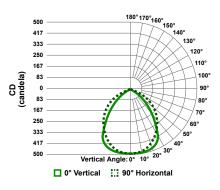
0.83 m

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.
	\land Vertical Spi	read: 83.5°
	A Horizontal	Spread: 97.0°

Isolux Pattern 2 2 1 0 m 2 1 0 m 1 2 Mount height of 1 meter (1 m) 150 lux 300 lux 25 lux 250 lux 10 lux 100 lux 50% max. candela 200 lux 50 lux





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.		
	\land Vertical Spr	ead: 81.4°		
	A Horizontal Spread: 114.2°			

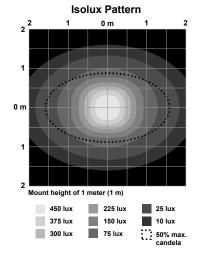
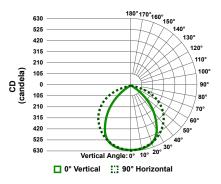


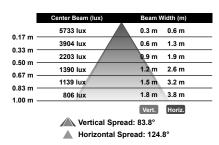
Figure 6. 570 mm Models with Eye Shields

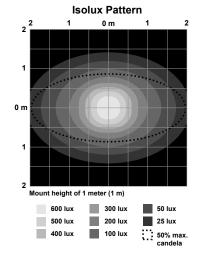
Figure 7. 850 mm Models with Eye Shields

Polar Candela Distribution



Illuminance at a Distance







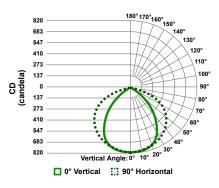
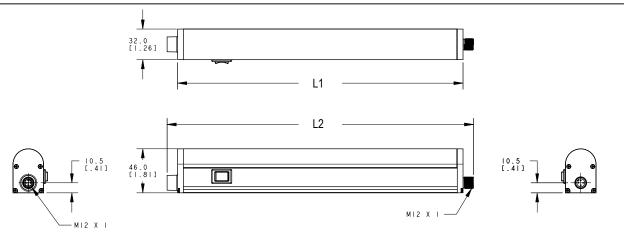


Figure 8. 1130 mm Models with Eye Shields

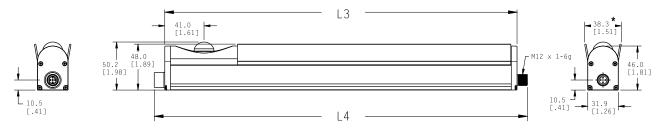
Wiring

	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

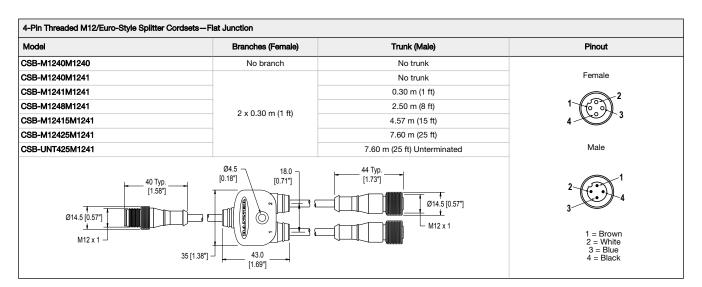
Models	Models without Motion Detector		Models with Motion Det	ector and/or Eye Shields
	L1	L2	L3	L4
WLB32C285Q	298 mm (11.7 in)	320 mm (12.6 in)	368 mm (14.5 in)	390 mm (15.4 in)
WLB32C570Q	580 mm (22.8 in)	602 mm (23.7 in)	650 mm (25.6 in)	672 mm (26.5 in)
WLB32C850Q	862 mm (33.9 in)	884 mm (34.8 in)	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)			
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)		44 Typ	1 600 2
MQDC-450	15.2 m (50 ft)	Straight	M12 x 1 0 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)		22 Tur		
MQDC-415RA	4.57 m (15 ft)		32 Typ [1.26"]		
MQDC-430RA	9.14 m (30 ft)				
MQDC-450RA	15.2 m (50 ft)	Right-Angle	30 Typ. [1.18"] μ φ 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 Тур	
MQDEC-406SS	1.83 m (6 ft)		[1.58"]	
MQDEC-412SS	3.66 m (12 ft)	-		
MQDEC-420SS	6.10 m (20 ft)		(M12 x 1	- ·
MQDEC-430SS	9.14 m (30 ft)	Mala Straight/Eamala	ø 14.5 [0.57"]	Female
MQDEC-450SS	15.2 m (50 ft)	– Male Straight/Female Straight	44 Typ. 11.73" M12 x 1 0 14.5 [0.57"]	1 Contraction 2 4 Male
MQDEC-403RS	0.91 m (1 ft)		12 Typ. 1.26" →	
MQDEC-406RS	1.83 m (3 ft)			-4
MQDEC-412RS	3.66 m (12 ft)			3-
MQDEC-420RS	6.10 m (20 ft)		30 Тур.	1 = Brown
MQDEC-430RS	9.14 m (30 ft)			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" M12 x 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		
 LMBWLB32 Replaces the bracket that ships with the WLB32 light Stainless steel Includes 4 snap clips, 4 screws, and 2 insulator caps 	20 36 2x Ø6.5	LMBWLB32-180S • Swivel bracket kit allows 180° of movement 42 42 42 42 42 42 42 42 42 42
LMBWLB32MAG • Magnetic mounting bracket for easy attachment to steel and iron surfaces		 LMBWLB32U Die cast bracket for rugged applications Secured to light with included thumb screw Clearance hole for 6 mm (1/4 in) button head screw
 LMBWLB32UT Die cast bracket for rugged applications Secured to light with included thumb screw Integral 1/4-20 stud for mounting 	41 18 20 27	

Banner Engineering Corp. Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

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For patent information, see www.bannerengineering.com/patents.

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 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)/NIB-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 or television reception, which can be determined by turning 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

