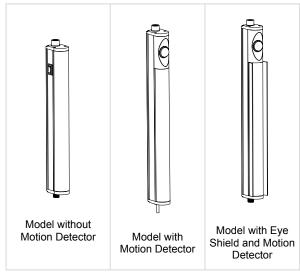


Features and Models



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	Connector	Lumens		
WLB32C285PBQ	285		750	
WLB32C570PBQ	570	4 nin M42 Oviek Disconnect	1500	
WLB32C850PBQ	850	4-pin M12 Quick Disconnect	2250	
WLB32C1130PBQ	1130		3000	
WLB32C285PB	285		750	
WLB32C570PB	570	2 m (6.5 ft) cable	1500	
WLB32C850PB	850		2250	
WLB32C1130PB	1130		3000	

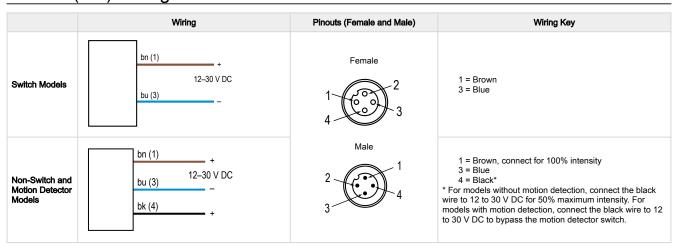
- · To order the light without the integral switch, omit the "PB" from the model number. For example, WLB32C285Q.
- To order the light with the integral motion detector, replace the 'PB' from the model number with 'M'. For example, WLB32C285MQ.
- To order the light with the eye shield, add an 'E' after the length. For example, WLB32C285EPBQ.

IMPORTANT: Read the following instructions before operating the light. Please download the complete WLB32 Industrial 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 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 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.

WLB32 (DC) Wiring



WLB32 (DC) 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 Protection Circuitry

Protected against reverse polarity and transient voltages

LED Lifetime

Lumen Maintenance - L₇₀

When operating within specifications, output will decrease less than 30% after 50,000 hours.

Supply Current

Light Length	Maximum	Typical Current Draw (A)			
(mm)	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	

Light Characteristics

Color: Davlight 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%

Push Button

II = 100% light intensity I = 50% light intensity

O = Off

Models with Motion Detection

Light turns off after approximately 60 seconds without

detecting motion.

Range: 12 meters; ±45° field of view

Standby current: 170 µA

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

Connections

Integral 4-pin M12 QD (4-pin connecting cordset required for QD models); or 2 m (6.5 ft) integral cable

Environmental Rating

IEC IP50

Vibration and Mechanical Shock

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

-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)

Storage Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

Test Data

LM-79, LM-80, TM-21

Certifications



Banner Engineering BV Park Lane, Culliganlaan 2F bus 3 1831 Diegem, BELGIUM



Turck Banner LTD Blenheim House Blenheim Court Wickford, Essex SS11 8YT GREAT BRITAIN





UL Recognized for easy installation in control cabinets.



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

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)

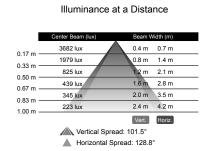
Spacing Criteria (SC)

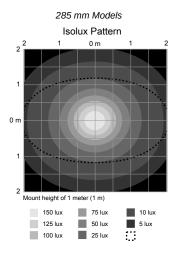
The spacing criteria is the fixture-spacing-to-mounting-height ratio and aids in laying out a pattern of fixtures. Multiply the spacing criteria by the mounting height to get the maximum fixture spacing that still provides even illumination (no shadowing between fixtures).

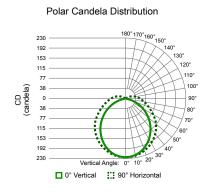
Luminaire Spacing = SC × Height to Illuminated Plane

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

WLB Light Characteristics







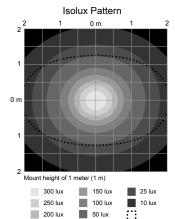
Illuminance at a Distance



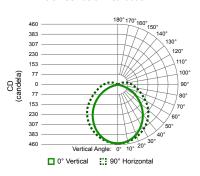
Vertical Spread: 101.5°

Horizontal Spread: 128.2°

570 mm Models



Polar Candela Distribution



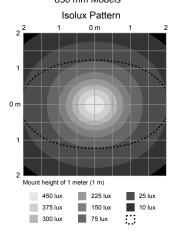
Illuminance at a Distance



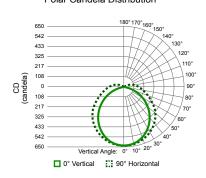
Vertical Spread: 102.7°

A Horizontal Spread: 130.1°

850 mm Models



Polar Candela Distribution



Illuminance at a Distance

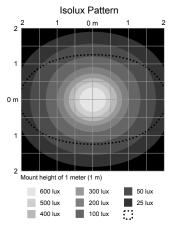
Illuminance at a Distance



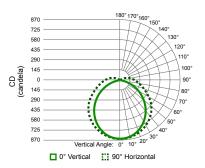
Vertical Spread: 103.3°

Horizontal Spread: 129.7°

1130 mm Models



Polar Candela Distribution



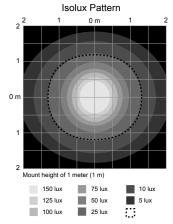
Illuminance at a Distance

	Center Beam (lux)	Beam Width (m)
0.17 m -	3654 lux	0.4 m 0.4 m
0.17 m =	2024 lux	0.8 m 0.8 m
0.50 m =	813 lux	1.2 m 1.3 m
0.50 m =	442 lux	1.6 m 1.7 m
0.83 m =	345 lux	2.0 m 2.1 m
1.00 m =	250 lux	2.3 m 2.5 m
		Vert. Horiz.

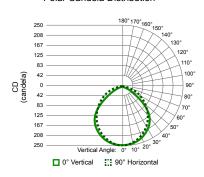
Vertical Spread: 98.7°

Horizontal Spread: 102.8°

285 mm Models with Eye Shields



Polar Candela Distribution



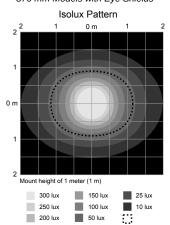
Illuminance at a Distance



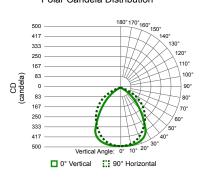
Vertical Spread: 83.5°

A Horizontal Spread: 97.0°

570 mm Models with Eye Shields



Polar Candela Distribution



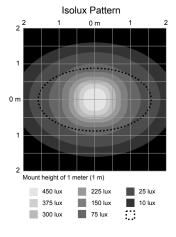
Illuminance at a Distance



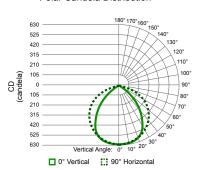
Vertical Spread: 81.4°

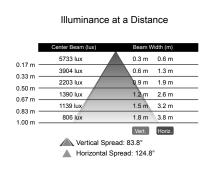
Horizontal Spread: 114.2°

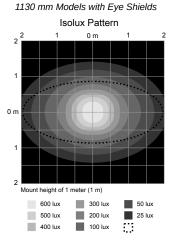
850 mm Models with Eye Shields

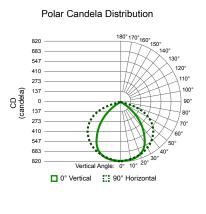


Polar Candela Distribution

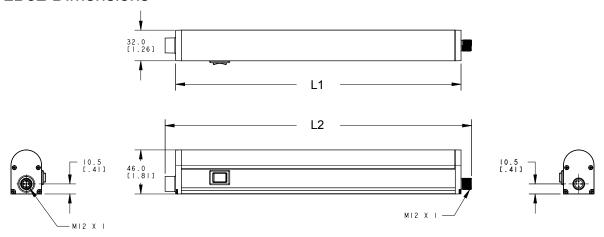




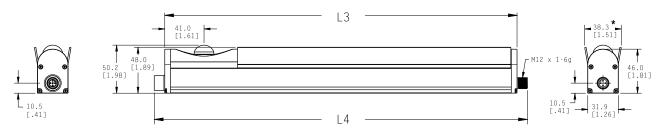




WLB32 Dimensions



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)	

Continued on page 7

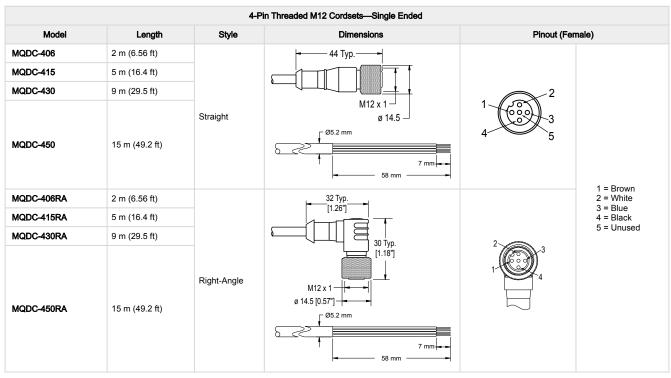
Continued from page 6

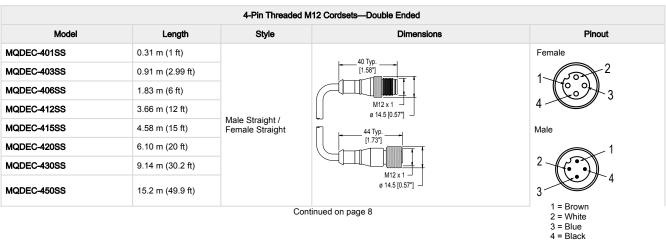
Models	Models without Motion Detector		Models with Motion Detector and/or Eye Shields	
	L1	L2	L3	L4
WLB32C285	298 mm (11.7 in)	313 mm (12.3 in)	368 mm (14.5 in)	383 mm (15.1 in)
WLB32C570	580 mm (22.8 in)	595 mm (23.4 in)	650 mm (25.6 in)	665 mm (26.2 in)
WLB32C850	862 mm (33.9 in)	877 mm (34.5 in)	932 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)

WLB32 Accessories

All measurements are listed in millimeters, unless noted otherwise.

Cordsets





Continued from page 7

4-Pin Threaded M12 Cordsets—Double Ended				
Model	Length	Style	Dimensions	Pinout
MQDEC-403RS	0.91 m (2.99 ft)		32 Typ. [1.26] 30 Typ. [1.18] M12 x 1 0 14.5 [0.57] 44 Typ. M12 x 1	
MQDEC-406RS	1.83 m (6 ft)			
MQDEC-412RS	3.66 m (12 ft)			
MQDEC-420RS	6.10 m (20 ft)	Male Right-Angle /		
MQDEC-430RS	9.14 m (30.2 ft)	Female Straight		
MQDEC-450RS	15.2 m (49.9 ft)			
MQDEC-403RR	0.9 m (2.9 ft)		32 Typ. 30 Typ. 30 Typ. 11.8°] 31 Typ.	
MQDEC-406RR	1.8 m (5.9 ft)			
MQDEC-412RR	3.6 m (11.8 ft)	Male Right-Angle / Female Right-Angle		
MQDEC-420RR	6.1 m (20 ft)			

4-Pin Threaded M12 Splitter Cordsets—Flat Junction				
Model	Branches (Female)	Trunk (Male)	Pinout	
CSB-M1240M1240	No branch	No trunk		
CSB-M1240M1241		No trunk	Female	
CSB-M1241M1241		0.31 m (1 ft)	- Terridic	
CSB-M1248M1241	2 × 0.3 m (1 ft)	2.44 m (8 ft)	1 2	
CSB-M12415M1241	2 ^ 0.3 III (1 IL)	4.57 m (15 ft)	$\frac{1}{3}$	
CSB-M12425M1241		7.60 m (25 ft)	4	
CSB-UNT425M1241		7.60 m (25 ft) Unterminated		
CSB-M1243M1243	2 × 1 m (3.28 ft)	1 m (3.28 ft)	Male 1	
014.5 [0.57"]	2 3 1 = Brown 2 = White 3 = Blue 4 = Black			

Enclosure Accessories

LMBEDS Switch

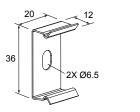
Refer to datasheet 160672 for more information



Brackets

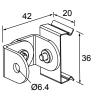
LMBWLB32

- · Replaces the bracket that ships with the WLB32 light
- Stainless steel
- Includes 4 snap clips, 4 screws, and 2 insulator caps



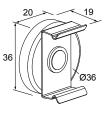
LMBWLB32-180S

· Swivel bracket kit allows 180° of movement



LMBWLB32MAG

· Magnetic mounting bracket for easy attachment to steel and iron surfaces



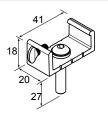
LMBWLB32U

- · 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



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 Class B for Unintentional Radiators

(Part 15.105(b)) 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. 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 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 dealer or an experienced radio/TV technician for help.

(Part 15.21) Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Industry Canada ICES-003(B)

This device complies with CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions: 1) This device may not cause harmful interference; and 2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la norme NMB-3(B). Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas occasionner d'interférences, et (2) il doit tolérer toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité du dispositif.

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

Document title: WLB32 Industrial Light Bar (DC) Part number: 176313 Revision: K Original Instructions © Banner Engineering Corp. All rights reserved.

