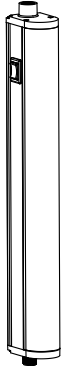


WLB32 Industrial LED Light Bar (DC)



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
- Daisy chain power to multiple lights
- 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	4-pin Euro-style	600
WLB32C570PBQ	570		1200
WLB32C850PBQ	850		1800
WLB32C1130PBQ	1130		2400
WLB32C285PB	285	2 m (6.5 ft) cable	600
WLB32C570PB	570		1200
WLB32C850PB	850		1800
WLB32C1130PB	1130		2400

Specifications

Operating Voltage

12 to 30 V dc

Use only with a suitable Class 2 power supply.

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

Protected against reverse polarity and transient voltages

Light Characteristics

Color: Daylight white

Color temperature (CCT): 5000K (±300K)

Lumen output: 600 (±5%) per foot, typical at 25 °C (77 °F)

Luminous efficacy: 80 lumens/Watt typical at 24 V dc at 25 °C (77 °F)

CRI: 85, typical

LED Lifetime

Lumen Maintenance - L70

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

Push Button

II = 100% light intensity

I = 50% light intensity

O = Off

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 Euro-style 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

-25 °C to 70 °C (-13 °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)

Storage Temperature

-40 °C to 70 °C (-40 °F to 158 °F)

Test Data

LM-79, LM-80, TM-21

Certifications

Approval pending

Application Note

When connecting cascable 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.

Light Characteristics

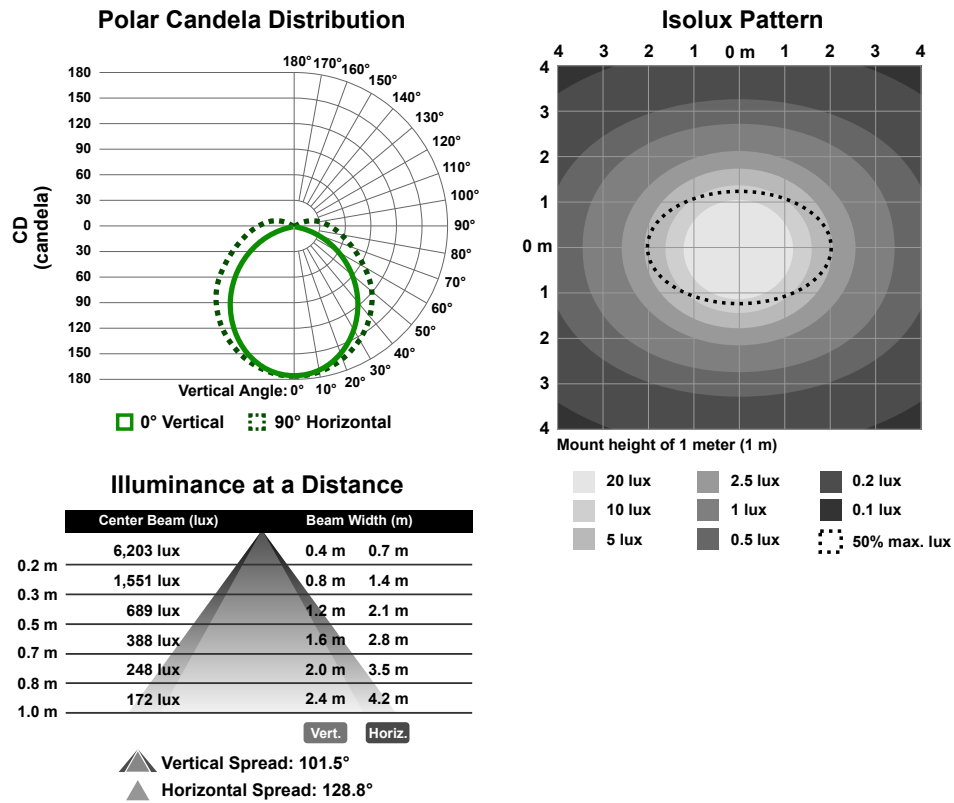


Figure 1. 285 mm Models

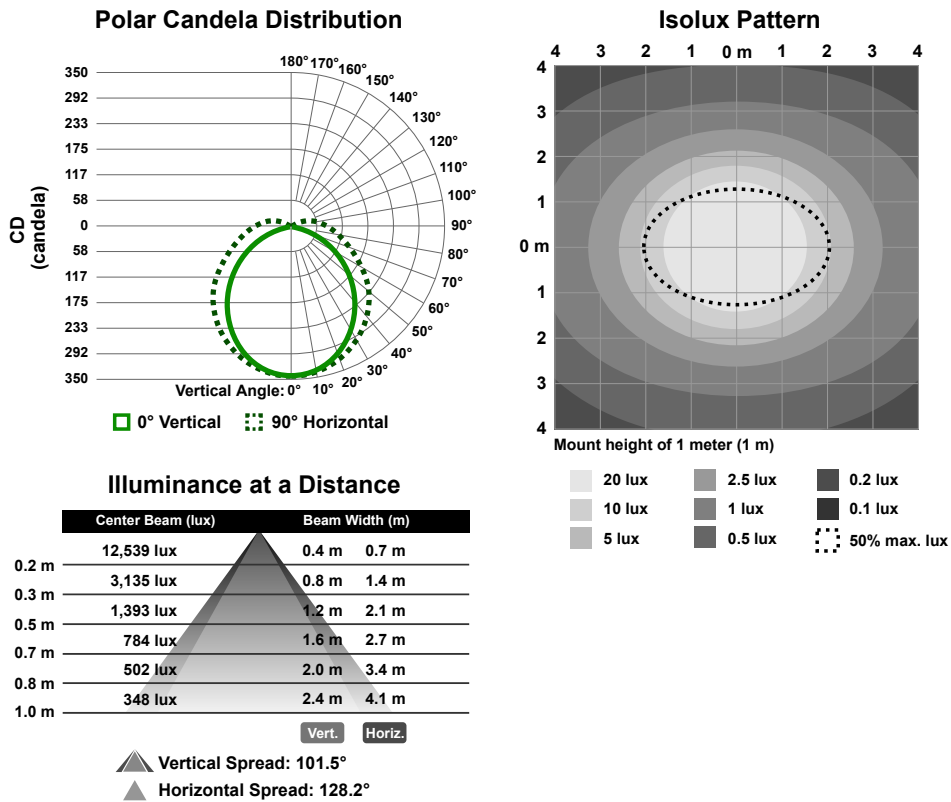


Figure 2. 570 mm Models

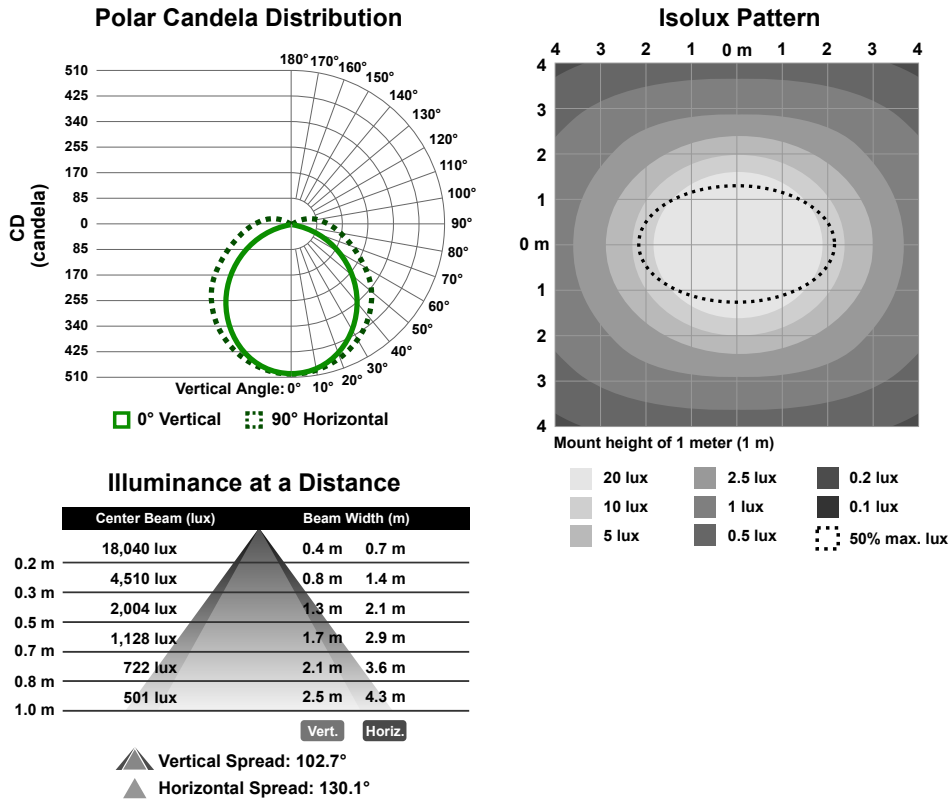


Figure 3. 850 mm Models

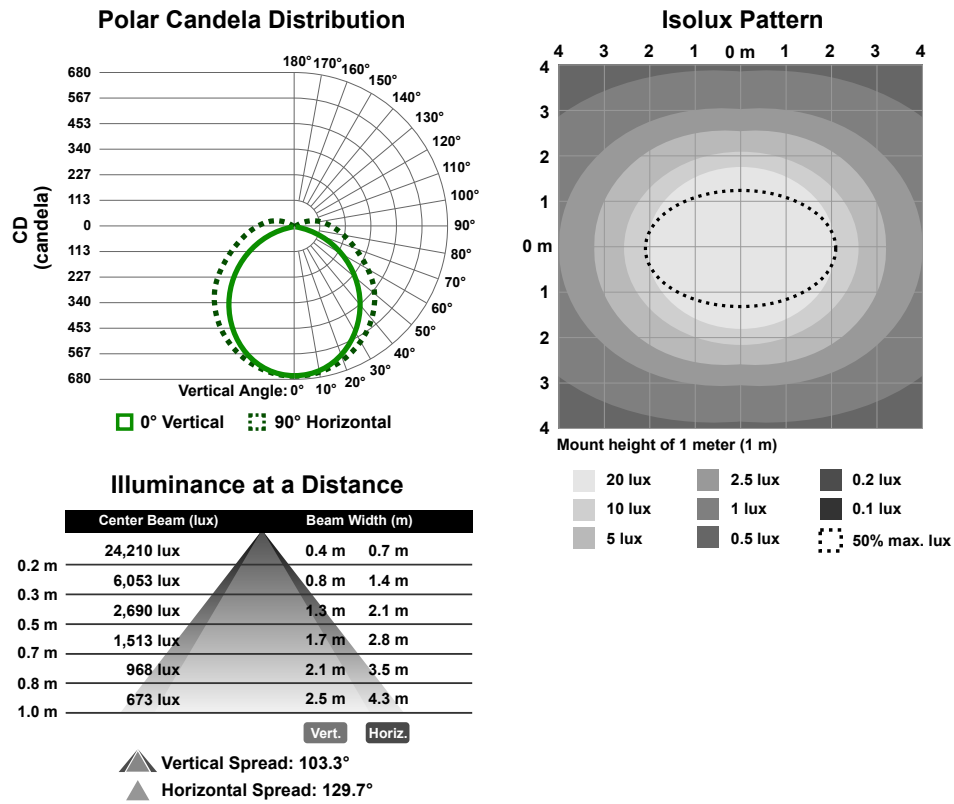
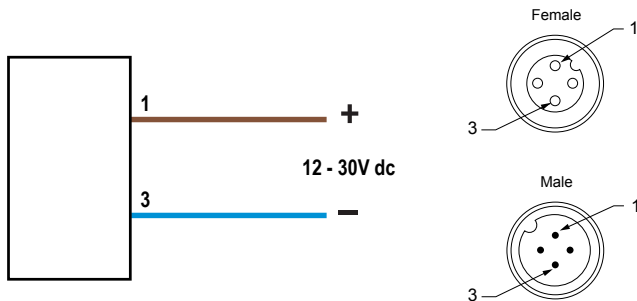


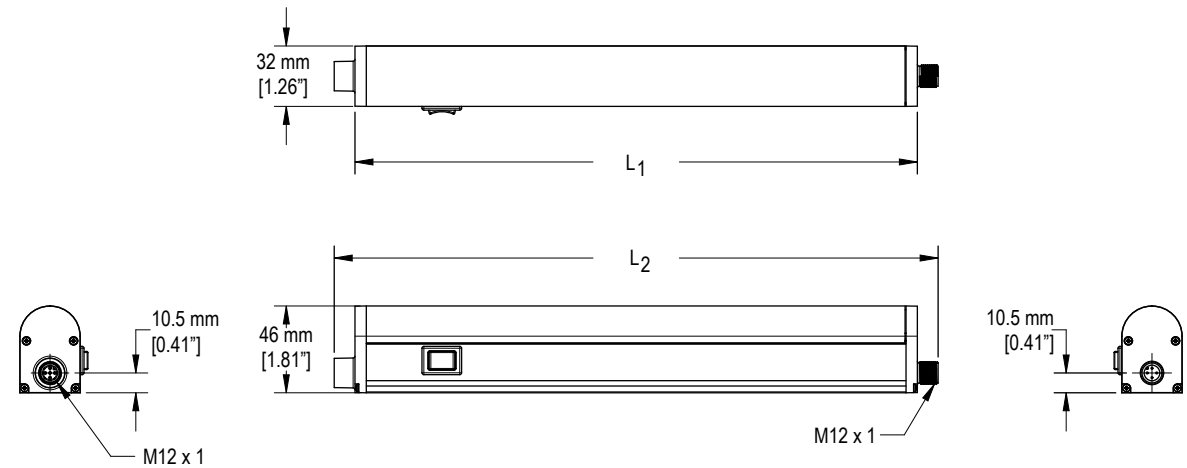
Figure 4. 1130 mm Models

Wiring



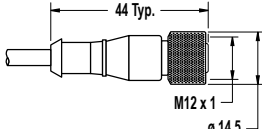
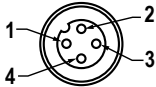
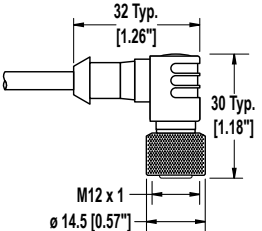
Wiring Key:
1 = Brown
3 = Blue

Dimensions



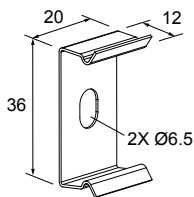
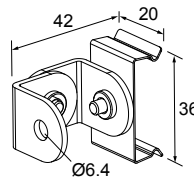
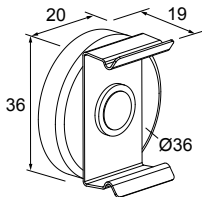
Model	L1	L2
WLB32C285PBQ	298 mm (11.7 in)	320 mm (12.6 in)
WLB32C570PBQ	580 mm (22.8 in)	602 mm (23.7 in)
WLB32C850PBQ	862 mm (33.9 in)	884 mm (34.8 in)
WLB32C1130PBQ	1144 mm (45.0 in)	1166 mm (45.9 in)
WLB32C285PB	298 mm (11.7 in)	313 mm (12.3 in)
WLB32C570PB	580 mm (22.8 in)	595 mm (23.4 in)
WLB32C850PB	862 mm (33.9 in)	877 mm (34.5 in)
WLB32C1130PB	1144 mm (45.0 in)	1159 mm (45.6 in)

Accessories

4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout
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)			
MQDC-406RA	1.83 m (6 ft)	Right-Angle		
MQDC-415RA	4.57 m (15 ft)			
MQDC-430RA	9.14 m (30 ft)			
MQDC-450RA	15.2 m (50 ft)			

4-Pin Threaded M12/Euro-Style Cordsets—Double Ended				
Model	Length	Style	Dimensions	Pinout
MQDEC-401SS	0.31 m (1 ft)	Male Straight/ Female Straight		
MQDEC-403SS	0.91 m (3 ft)			
MQDEC-406SS	1.83 m (6 ft)			
MQDEC-412SS	3.66 m (12 ft)			
MQDEC-420SS	6.10 m (20 ft)			
MQDEC-430SS	9.14 m (30 ft)			
MQDEC-450SS	15.2 m (50 ft)			
MQDEC-403RS	0.91 m (1 ft)	Male Right-Angle/ Female Straight		
MQDEC-406RS	1.83 m (3 ft)			
MQDEC-412RS	3.66 m (12 ft)			
MQDEC-420RS	6.10 m (20 ft)			
MQDEC-430RS	9.14 m (30 ft)			
MQDEC-450RS	15.2 m (50 ft)			

4-Pin Threaded M12/Euro-Style Splitter Cordsets — Flat Junction				
Model	Branches (Female)	Trunk (Male)	Dimensions	Pinout
CSB-M1240M1240	No branch	No trunk		
CSB-M1240M1241	2 x 0.30 m (1 ft)	No trunk		
CSB-M1241M1241		0.30 m (1 ft)		
CSB-M1248M1241		2.50 m (8 ft)		
CSB-M12415M1241		4.57 m (15 ft)		
CSB-M12425M1241		7.60 m (25 ft)		
CSB-UNT425M1241		7.60 m (25 ft) Unterminated		

Mounting Brackets	
<p>LMBWLB32</p> <ul style="list-style-type: none"> Replaces the bracket that ships with the WLB32 light Stainless steel Includes 4 snap clips, 4 screws, and 2 insulator caps 	<p>LMBWLB32-180S</p> <ul style="list-style-type: none"> Swivel bracket kit allows 180° of movement 
<p>LMBWLB32MAG</p> <ul style="list-style-type: none"> Magnetic mounting bracket for easy attachment to steel and iron surfaces 	

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.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp.