

WLB32 Industrial LED Light Bar (AC)



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.

90 to 264 V ac Models			
Models ¹	Lighted Length (mm)	Connector	Lumens
WLB32ZC285PBQMB	285	Custom Quick Disconnect	600
WLB32ZC570PBQMB	570		1200
WLB32ZC850PBQMB	850		1800
WLB32ZC1130PBQMB	1130		2400

Installing the WLB32 AC Series Lights

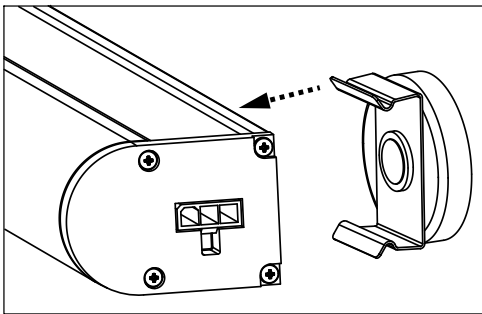


Figure 1. Attaching the Snap Brackets (Step 1)

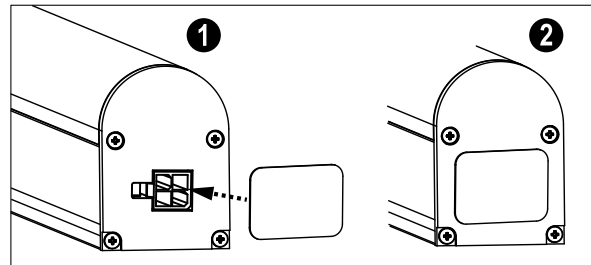


Figure 2. Installing the Cascade Cover (Step 8)

1. Attach the snap brackets to the light.
2. Select a suitable horizontal or vertical dry mounting location.
3. Place the light in the mounting location and mark the positions of the snap bracket mounting holes.
4. Drill the holes and use appropriate screws to secure the snap bracket to the mounting location.
5. Snap the light onto the brackets.

¹ The listed models include a U.S. power cable. To order model with no power cable, omit the suffix "B" from the model number. For example, WLB32ZC285PBQM. For a list of other countries' wall plug cables, refer to the Accessories list.



6. When daisy chaining multiple lights, follow steps 1 through 5 to mount additional lights. See the application note in the *Specifications* for the maximum allowed lights daisy chained together and maximum allowed cable run when choosing mounting locations.
7. Connect the daisy chained units together using cascade cordsets (see *Accessories*).
8. Install the supplied cascade cover over the output connector on the last light in the chain.
9. Plug the power cord from the first light into the wall outlet.



CAUTION: To reduce the risk of fire, electric shock, or injury to personnel:

- Use only insulated staples or plastic ties to secure cords;
- Route and secure cords so that they will not be pinched or damaged when the cabinet is pushed to the wall;
- Position the portable cabinet light with respect to the cabinet so the lamp replacement markings are able to be read during relamping;
- Do not recess into ceilings or soffits; and
- Do not conceal the cords. The National Electrical Code (NEC) does not permit cords to be concealed where damage to insulation may go unnoticed. To prevent fire danger, do not run cord behind walls, ceilings, soffits, or cabinets where it may be inaccessible for examination. Cords should be visually examined periodically and immediately replaced when any damage is noted.

Specifications

Operating Voltage

90 to 264 V ac (50 or 60 Hz)

Power factor > 0.95 on high setting at 120 V ac

Supply Current

Light Length (mm)	Max Current Draw (A) at 90 V ac	Typical Current Draw (A)	
		120 V ac	230 V ac
285	0.125	0.075	0.045
570	0.250	0.150	0.080
850	0.375	0.225	0.115
1130	0.500	0.300	0.150

Supply Protection Circuitry

Protected against transient voltages

Light Characteristics

Color: Daylight white

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

Lumen output: 600 ($\pm 5\%$) per foot, typical 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 = Standby

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 custom QD (connecting cordset required)

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 45 °C (-13 °F to 113 °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 cascading lights in series, do not exceed the maximum unit limit of 10, regardless of light size, and do not exceed a maximum wiring distance of 100 m (328 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).

$$\text{Luminaire Spacing} = \text{SC} \times \text{Height to Illuminated Plane}$$

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

Light Characteristics

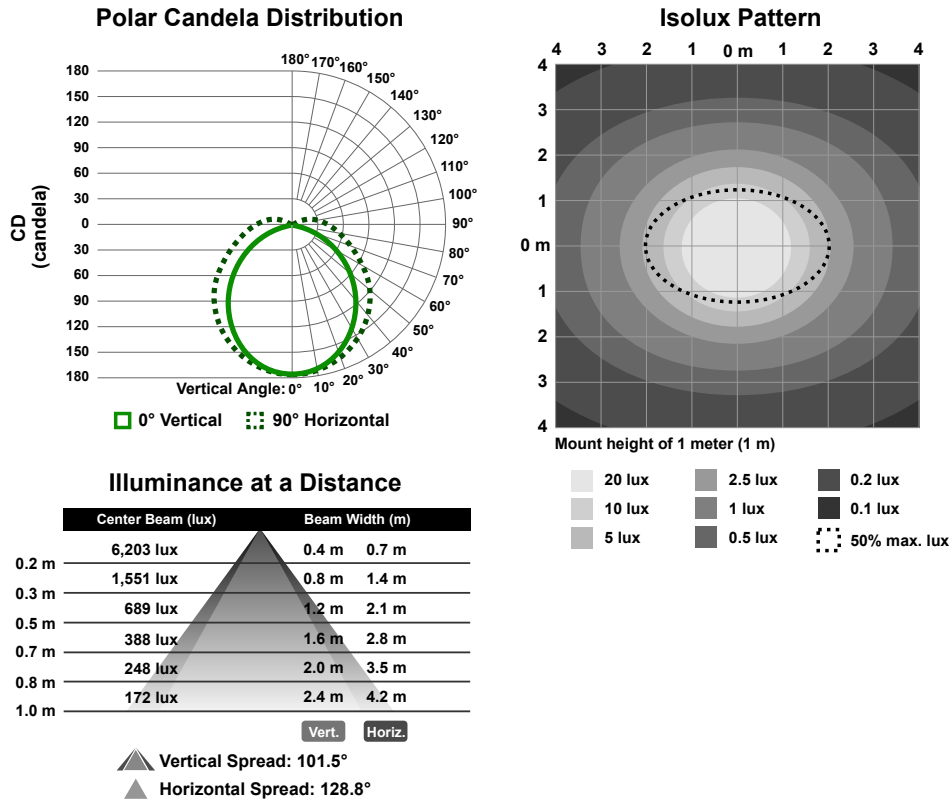


Figure 3. 285 mm Models

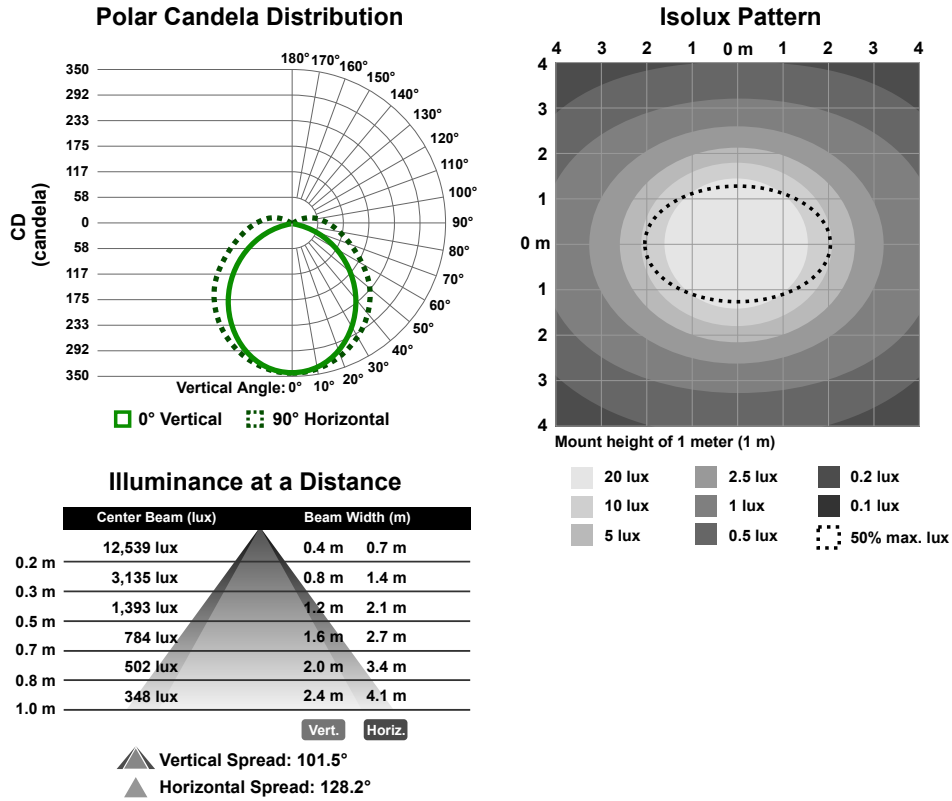


Figure 4. 570 mm Models

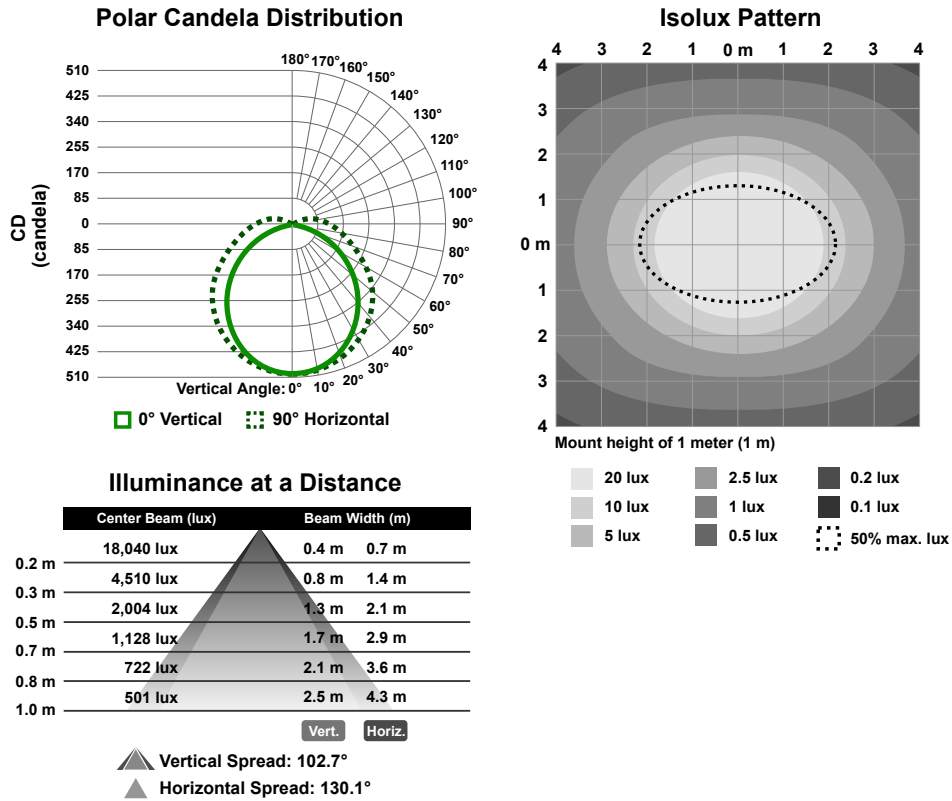


Figure 5. 850 mm Models

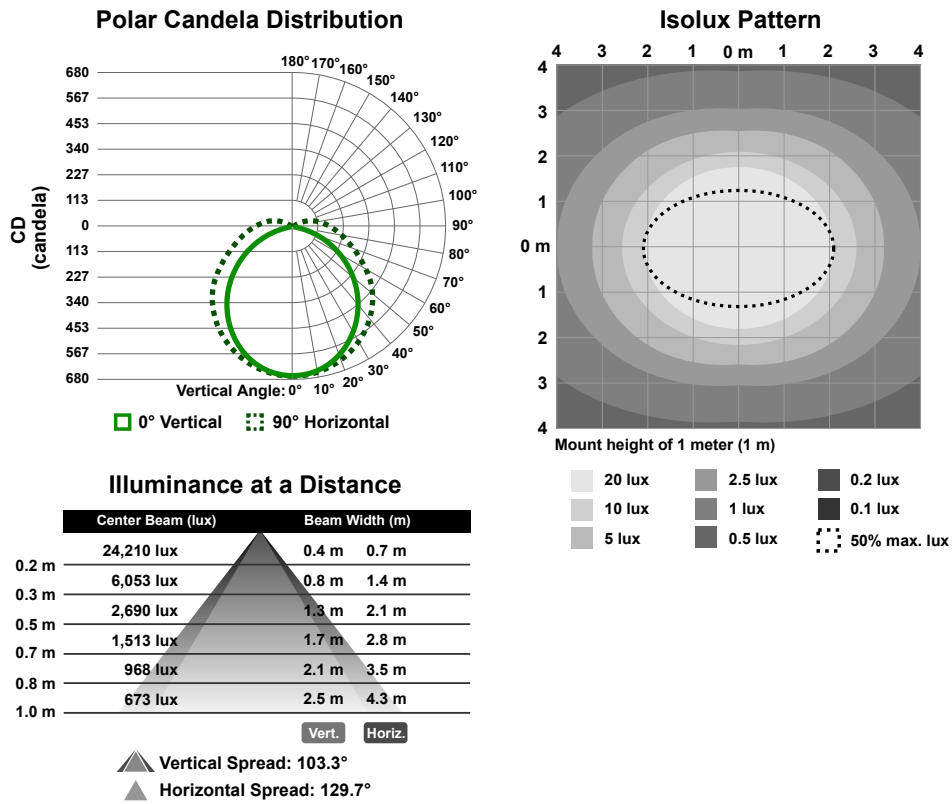
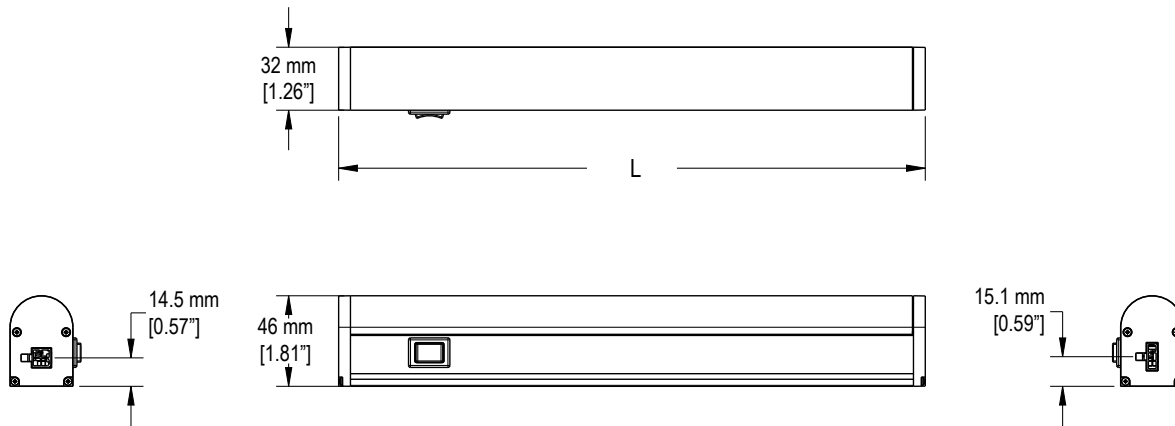


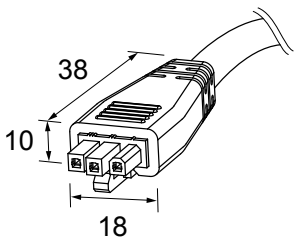
Figure 6. 1130 mm Models

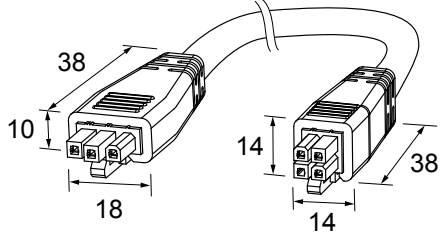
Dimensions



Model	L
WLB32ZC285PBQM	298 mm (11.7 in)
WLB32ZC570PBQM	580 mm (22.8 in)
WLB32ZC850PBMQ	862 mm (33.9 in)
WLB32ZC1130PBQM	1144 mm (45.0 in)

Accessories

Wall Plug Cordsets				
Model	Length	Dimensions	Plug Type	Countries
LQMAC-306	1.8 m (6 ft)		Flying Leads	
LQMAC-306B			NEMA 5-15 grounded (IEC Type B)	United States, Canada, Japan, Puerto Rico, Taiwan
LQMAC-306D			BS 546 (IEC Type D)	India
LQMAC-306EF			CEE 7/7 (IEC Type E or F)	Germany, France, South Korea, The Netherlands, Poland, Spain, Turkey
LQMAC-306G			BS 1363 (IEC Type G)	United Kingdom, Ireland, Singapore, Vietnam
LQMAC-306I			AS/NZS 3112 (IEC Type I)	China, Australia, New Zealand
LQMAC-306N			NBR 14136 (IEC Type N)	Brazil

Cascade Cordsets			
Model	Length	Style	Dimensions
LQMAEC-3005SS	0.15 m (0.5 ft)	Male straight/Male straight	
LQMAEC-301SS	0.31 m (1 ft)		
LQMAEC-303SS	0.91 m (3 ft)		
LQMAEC-306SS	1.83 m (6 ft)		
LQMAEC-312SS	3.66 m (12 ft)		
LQMAEC-320SS	6.1 m (20 ft)		
LQMAEC-330SS	9.14 m (30 ft)		

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 and 2 screws 	<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 	

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