WLB92 Industrial LED Light Bar (AC Quick Disconnect)

Features

Banner's WLB92 is a very bright LED fixture/luminaire that features an even light output for a no glare 'glow'. The WLB92 series is designed for a wide variety of environments and applications, including but not limited to work stations, machine lighting, and low bay lighting. The WLB92 uses advanced LED lighting technology to provide a high-quality and maintenance free industrial lighting solution.

- Increase worker productivity and ergonomics with bright, high-quality, uniform light
- Exceptionally energy efficient for overall cost savings
- Durable light stands up to your environment with a rugged metal housing and shatter-resistant window
- Easy installation with snap clips
- Intensity can be controlled from 15% to 100% using the attached knob
- Rated for use at 120 V AC in North America
- Rated for use at 100 V AC to 277 V AC outside North America



These AC quick disconnect models can be used as continuous run models that can be cascaded or "daisy-chained" together for a continuous length of lighting using a double-ended accessory cordset (see "Accessories" on page 5). Each light bar can be turned on, off, or dimmed independently of the other lights, upstream or downstream, in the chain.

WLB92 Industrial LED Light Bars are available in several configurations, including different lengths and cord options. WLB92 (AC) Daylight White and Warm White models come with a five-year, limited warranty. To view or download the latest technical information about this product, including specifications, dimensions, accessories, and wiring, go to www.bannerengineering.com.

IMPORTANT: Read the following instructions before operating the light. Please download the complete WLB92 Industrial LED Light Bar (AC Quick Disconnect) 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 WLB92 Industrial LED Light Bar (AC Quick Disconnect), 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 WLB92 Industrial LED Light Bar (AC Quick Disconnect) sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

Original Instructions
23-Feb-26

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183984
p/n: 183984 Rev. I

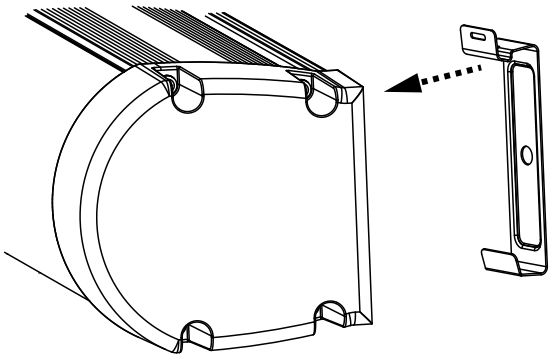
ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

Models

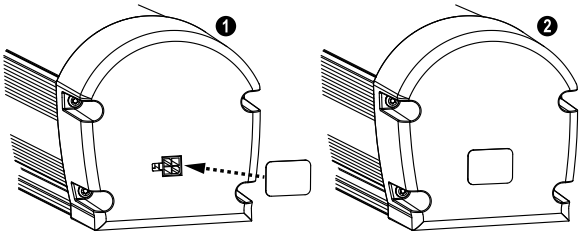
Family	Voltage	Cascadable	LED Color	Lighted Length (mm)	Control	Connector	Plug Type (1.8 m cable)
WLB92	**Z**	**C**		**550**	**PB**	**QM**	**B**
	Z = AC	C = Casacadable	Blank = Daylight White WW = Warm White G = Green R = Red Y = Yellow B = Blue	550 1100	PB = Switch, Dimming Knob	QM = Custom quick-disconnect (QD) connector[1]	B = North & Central America, Japan, Taiwan D = India, Sri Lanka, Nepal, Namibia EF = France, Belgium, Slovakia, Tunisia, Germany, Austria, Netherlands, Spain, S. Korea G = UK, Ireland, Cyprus, Malta, Malaysia, Singapore, Hong Kong, Vietnam I = Australia, New Zealand, Papua New Guinea, Argentina, China N = Brazil, South Africa C = AC connector with flying leads Blank = No power cord

Installing the WLB92 Industrial LED Light Bar (AC Quick Disconnect Models)

Attaching the snap brackets (step 6)



Installing the cascade cover (step 9)



1. Attach the snap brackets to the light.
2. Select a suitable horizontal or vertical dry mounting location. The maximum distance to the power receptacle cannot be farther than the length of the power cord used.
3. Place the light in the mounting location and mark the positions of the snap bracket mounting holes.
4. Remove the brackets from the light.
5. Drill the holes and use appropriate screws to secure the snap bracket to the mounting location.
6. Snap the light onto the brackets.
7. When installing cascading lights, repeat steps 1 through 6 to mount additional lights. See the application note in the *Specifications* section for the maximum cascaded lights and maximum allowed cable run when choosing mounting locations.
8. Connect the cascaded lights together using an applicable cordset (see "Accessories" on page 5).
9. Install the supplied cover over the output connector on the last light in the chain.
10. Plug the power cord from the first light into the wall outlet. A 3 m (10 ft) cord is available for applications requiring a longer cord for cabinet installations.

[1] QD models require a mating cordset.

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CAUTION: To reduce the risk of fire, electrical 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
- 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 cords 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.

CAUTION: To Reduce the Risk of Fire. Do not install the 550 mm models in a compartment smaller than 305 mm by 305 mm by 675 mm. Do not install the 1100 mm models in a compartment smaller than 305 mm by 305 mm by 1350 mm.

Specifications

Supply Voltage

Nominal voltage: 120 V AC, 60 Hz in North America

Nominal voltage: 100 V AC to 277 V AC, 50/60 Hz outside North America

Power factor: > 0.95 at 120 V AC and > 0.90 at 230 V AC

Total harmonic distortion (THD): < 20%

See electrical characteristics on product label

Supply Current

Lighted Length (mm)	Max. Current Draw (A) at 90 V AC	Typical Current Draw (A)	
		120 V AC	230 V AC
550	0.425	0.27	0.135
1100	0.85	0.54	0.25

Supply Protection Circuitry

Protected against transient voltages

Light Characteristics

Daylight White and Warm White Efficacy: 110 lumens/watt typical at 120 V Ac at 25 °C (77 °F)

CRI: 82, typical

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Lighted Length Lumens (Typical at 25 °C)	
		550 mm	1100 mm
Daylight White	5000 K (±300 K)	3510	7150
Warm White	3000 K (+225 K, -125 K)	3510	7150
Green	525 nm	1430	2975
Red	625 nm	745	1545
Yellow	590 nm	620	1295
Blue	470 nm	405	840

Test Data

LM-79, LM-80, TM-21

Environmental Rating

IP40

LED Lifetime

Lumen Maintenance - L_{70}

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

Switch/Dimming Knob

On/Off Switch and dimming knob, dimmable to 15% intensity

Construction

Anodized aluminum housing, polycarbonate window and end caps, and stainless steel mounting brackets

Spacing Criterion

Vertical: 1.20

Horizontal: 1.32

Connections

Integral custom quick-disconnect connector (connecting cordset required)

Mounting

Snap mount brackets included (two for the 550 mm model; three for the 1100 mm model)

Compatible with integral 45 mm aluminum framing mounting slots

Operating Temperature

550 Lighted Length: –35 °C to +50 °C (–31 °F to +122 °F) for 24 hours per day for 5 years of operation

1100 Lighted Length: –40 °C to +45 °C (–40 °F to +113 °F) for 16 hours per day for 5 years of operation; or –40 °C to +35 °C (–40 °F to +95 °F) for 24 hours per day for 5 years of operation

Storage Temperature

–40 °C to +70 °C (–40 °F to +158 °F)

Vibration and Mechanical Shock

Vibration: 10 Hz to 55 Hz, 0.5 mm peak-to-peak amplitude per IEC 60068-2-6

Shock: 5G 11 ms duration, half sine wave per IEC 60068-2-27

Application Notes

When connecting continuous run/cascadable lights in series, see table for maximum number of units. Do not exceed a maximum wiring distance of 100 m (328 ft) in the main power cable and any cascading cables.

Maximum Unit Limit (when using both model lengths)	
550 mm Lights	1100 mm Lights
10	0
8	1
6	2
4	3
2	4
0	5

For example, if you use four 550 mm lights, you may add up to three 1100 mm lights within the same continuous run.

Certifications

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

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	2.0	30	0.5

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

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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.

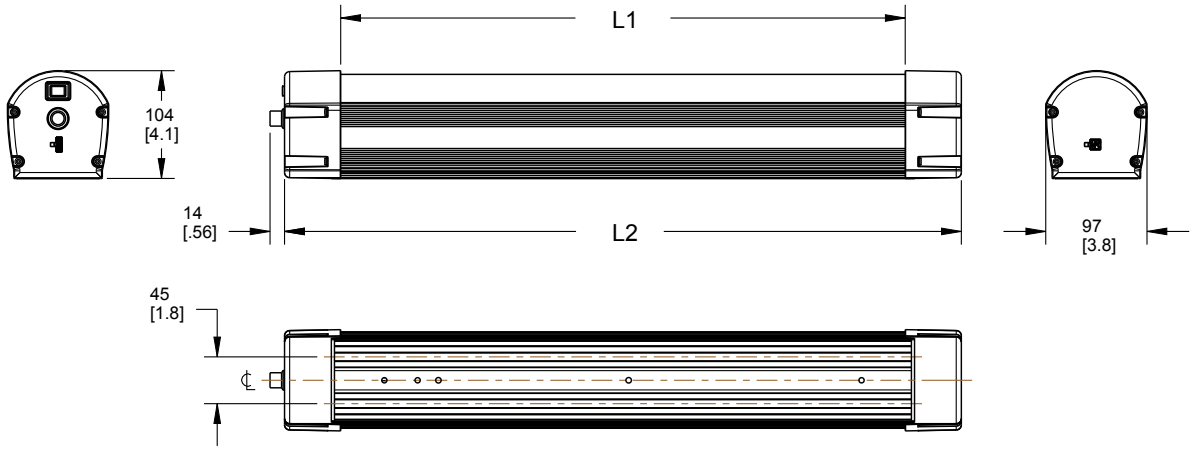
Industry Canada ICES-003(B)

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.

Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.



Model	L1	L2
WLB92ZC...550PBQM	543 mm (21.4 in)	651 mm (25.6 in)
WLB92ZC...1100PBQM	1098 mm (43.2 in)	1206 mm (47.5 in)

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).

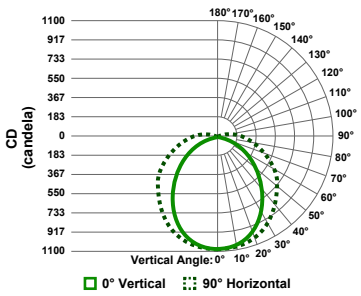
Luminaire Spacing = SC × Height to Illuminated Plane

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

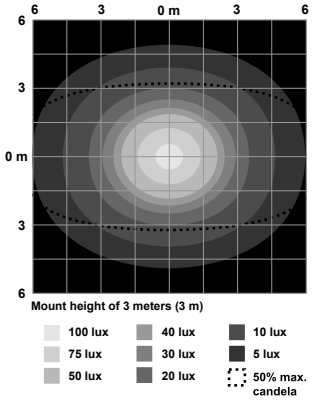
Optical Data

550 mm Models - Daylight White and Warm White

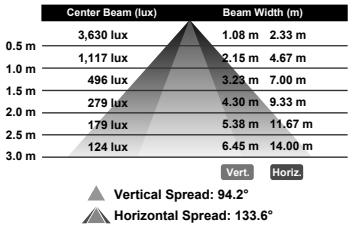
Polar Candela Distribution



Isolux Pattern



Illuminance at a Distance



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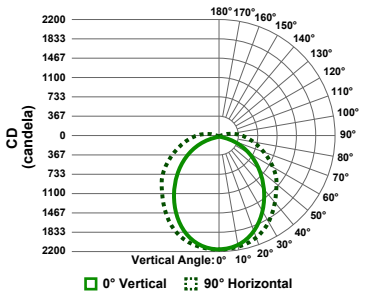
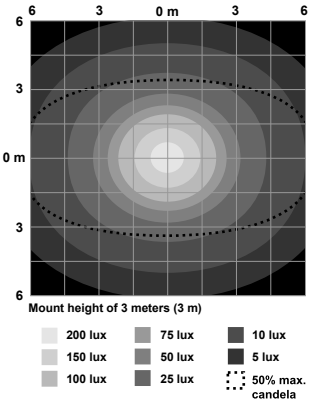
1100 mm Models - Daylight White and Warm White

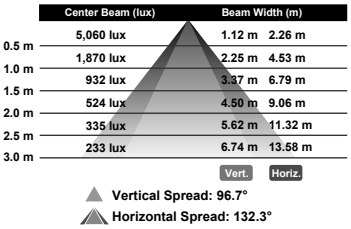
Polar Candela Distribution



Isolux Pattern

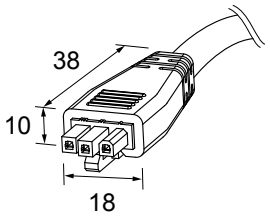


Illuminance at a Distance



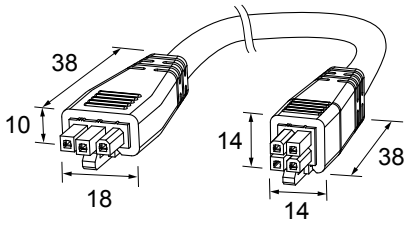
Accessories

Wall Plug Cordsets

Model	Plug Type	Countries	Wire Gauge	Length	Dimensions
LQMAC-306	Flying Leads		18 AWG	1.83 m (6 ft)	
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			
LQMAC-310B	NEMA 5-15 grounded (IEC Type B)	United States, Canada, Japan, Puerto Rico, Taiwan		3.05 m (10 ft)	

For other lengths of the LQMAC-306 cables, contact the factory. LQMAC-310B is available for applications requiring a 3 m (10 ft) cord for cabinet installation. For complete listing of countries and wall plug types, see the IEC World Plugs website.

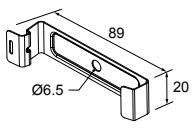
Continuous Run/Cascade Cordsets

Model	Length	Style	Wire Gauge	Dimensions
LQMAEC-3005SS	0.15 m (0.49 ft)	Male straight/Male straight	18 AWG	
LQMAEC-301SS	0.305 m (1.00 ft)			
LQMAEC-303SS	0.91 m (2.99 ft)			
LQMAEC-306SS	1.83 m (6.00 ft)			
LQMAEC-312SS	3.66 m (12.01 ft)			
LQMAEC-320SS	6.10 m (20.01 ft)			
LQMAEC-330SS	9.20 m (30.18 ft)			

Brackets

LMBWLB92CLIP

- Snap clip allows for tool-less installation
- Stainless steel
- Includes four snap clips, four screws, and two insulator caps
- CAD Files: DXF, PDF, IGS, STP



The LMBWLB92CLIP bracket replaces the bracket that ships with the WLB92 light.

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Banner Engineering Corp. Limited Five-Year Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for five years on daylight white and warm white models and one year on all other models 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.

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