WLB92 Industrial LED Light Bar (DC)



Datasheet

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 surface mount brackets or a choice of snap, swivel, or hanging brackets
- Intensity can be controlled from 0 to 100% using Pulse Width Modulation (PWM) dimming
- · Rated for use at 24 V dc



WLB92 Industrial LED Light Bars are available in several configurations including different lengths, switches, dimming capabilities, and cord options. See *Accessories* on page 5.



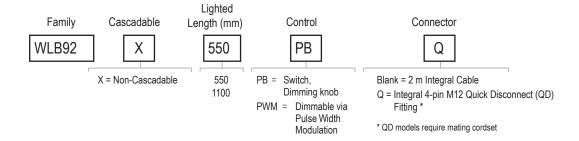
For PWM dimming, use with the LC65 Dimmer Module. For more information, refer to the LC65 LED Dimmer Module datasheet, p/n 177086.

Models	Lighted Length (mm)	Lighting Control	Connector	Lumens
WLB92X550PBQ	550	On/Off Switch, Dimming Knob	4-pin M12 Quick Disconnect (QD) Fitting ¹	3130
WLB92X1100PBQ	1100	On/On Switch, Dimining Knob		6500
WLB92X550PWMQ	550	No Curitale DWM Disease in a		3130
WLB92X1100PWMQ	1100	No Switch, PWM Dimming		6500
WLB92X550PB	550	On/Off Switch, Dimming Knob	2 m (6.5 ft) Cable	3130
WLB92X1100PB	1100	On/On Switch, Dimining Knob		6500
WLB92X550PWM	550	No Switch, PWM Dimming		3130
WLB92X1100PWM	1100	NO SWITCH, PWW DIFFIFFING		6500



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¹ Models with a quick disconnect fitting require a mating cordset.



Specifications

Supply Voltage

Operating Voltage: 24 V dc (± 10%)

Use only with a suitable Class 2 power supply. (North America) Use only with a suitable Class III SELV power supply. (Europe)

Supply Current

Lighted Length (mm)	Max Current Draw (A)	Typical Current Draw at 24 V dc (A)	
550	1.75	1.45	
1100	3.50	2.90	

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Light Characteristics

Color: Daylight White

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

Lumen Output: 550 mm - 3130 lumens, 1100 mm - 6500 lumens Luminous Efficacy: 92 lumens/watt typical at 24 V dc at 25 °C (77 °F)

CRI: 82, typical

LED Lifetime

Lumen Maintenance - L₇₀

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

LM-79, LM-80, TM-21

Certifications







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.

Switch/Dimming Knob (some models)

On/Off Switch and dimming knob, dimmable to 0% intensity

Pulse Width Modulation (PWM) Dimming (some models)

Frequency: Up to 1000 Hz Voltage: 12 to 24 V dc Current: 4 mA maximum

Compatible with the LC65 Dimmer Module. For more information, refer

to the LC65 LED Dimmer Module datasheet, p/n 177086

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

Spacing Criterion Vertical: 1.20 Horizontal: 1.32

Mounting

Surface mount brackets included (2)

Compatible with integral 45 mm aluminum framing mounting slots Several optional mounting brackets available (see Accessories on page

Connections

Integral 4-pin M12/Euro-style quick disconnect connector (4-pin connecting cordset required for QD models); or 2 m (6.5 ft) integral cable

Environmental Rating

IEC IP40

Operating Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

550 Lighted Length Models: Light output begins to decrease above 65 °C (149 °F); light output is approximately 90% of maximum intensity at 70 °C (158 °F)

1100 Lighted Length Models: Light output begins to decrease above 45 °C (113 °F); light output is approximately 75% of maximum intensity at 60 °C (140 °F) and 65% of maximum intensity at 70 °C (158 °F).

Storage Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

Vibration and Mechanical Shock

Vibration 10 to 55 Hz 0.5 mm p-p amplitude per IEC60068-2-6 Shock 5G 11 ms duration, half sine wave per IEC60068-2-27

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

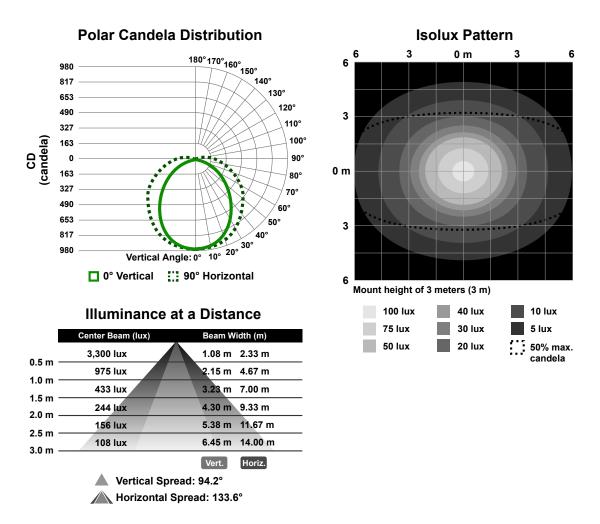


Figure 1. 550 mm Models

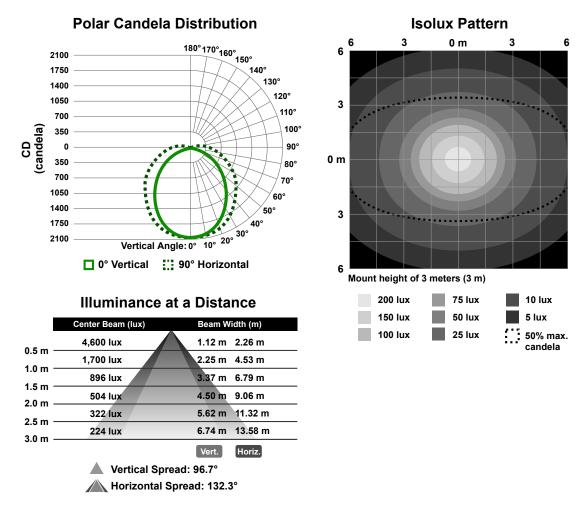
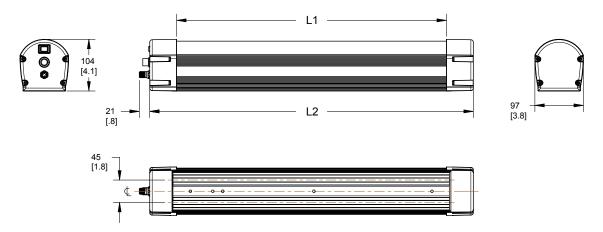


Figure 2. 1100 mm Models

Dimensions



Model	L1	L2	
WLB92X550Q	542 mm (21.3 in)	650 mm (25.6 in)	
WLB92X1100Q	1097 mm (43.2 in)	1205 mm (47.4 in)	
WLB92X550	542 mm (21.3 in)	650 mm (25.6 in)	

Model	L1	L2	
WLB92X1100	1097 mm (43.2 in)	1205 mm (47.4 in)	

Wiring Diagram

	Pin	Wire Color	Connection
2 4	1	brown	24 V dc
	3	blue	dc common
	4	black	Pulse width modulation (PWM) input (PWM models only)
	2	white	Not used

For maximum intensity, leave the black wire floating or connected to common. There is no black wire present in the models with a dimming knob.

Accessories

4-Pin Threaded M12/Euro-Style Cordsets (15 ft and Shorter)				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)			
MQDC-415	4.57 m (15 ft)	Straight	M12x1 — 614.5 —	1-60-2
MQDC-406RA	1.83 m (6 ft)		, 32 Тур.	4-3
MQDC-415RA	4.57 m (15 ft)	Right-Angle	[1.26"] 30 Typ. [1.18"] 0 14.5 [0.57"]	1 = Brown 2 = White 3 = Blue 4 = Black

Brackets	
Standard bracket that ships with the WLB92 light Stainless steel Includes two surface mount brackets, four screws, and four t-nuts	Snap clip allows for toolless installation Stainless steel Includes four snap clips, four screws, and two insulator caps

Brackets LMBWLB92HK5 LMBWLB92RAS Hanging bracket kit Swivel brackets allow for allows for suspended 180° of movement in 1524 installation seven fixed positions Includes two hanging Stainless steel bracket assemblies, four Includes two swivel screws, four t-nuts, and bracket assemblies. two 15-24 mm cables eight screws, and four tnuts 2X M6 BHCS LMBWLB92S Surface mount brackets allow for mounting at the end of the light Stainless steel Includes two end brackets, four screws, and four t-nuts

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
- 2. 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)/NMB-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 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 manufacturer.

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