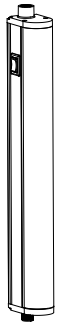


WLB32 Industrial LED Light Bar (DC)



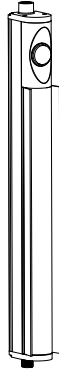
Datasheet



Model without Motion Detector



Model with Motion Detector



Model with Eye Shield and Motion Detector

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	Lighted Length (mm)	Connector	Lumens
WLB32C285PBQ	285	4-pin M12 Quick Disconnect	650
WLB32C570PBQ	570		1300
WLB32C850PBQ	850		1950
WLB32C1130PBQ	1130		2600
WLB32C285PB	285	2 m (6.5 ft) cable	650
WLB32C570PB	570		1300
WLB32C850PB	850		1950
WLB32C1130PB	1130		2600

- 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.

Specifications

Supply Voltage

12 to 30 V dc

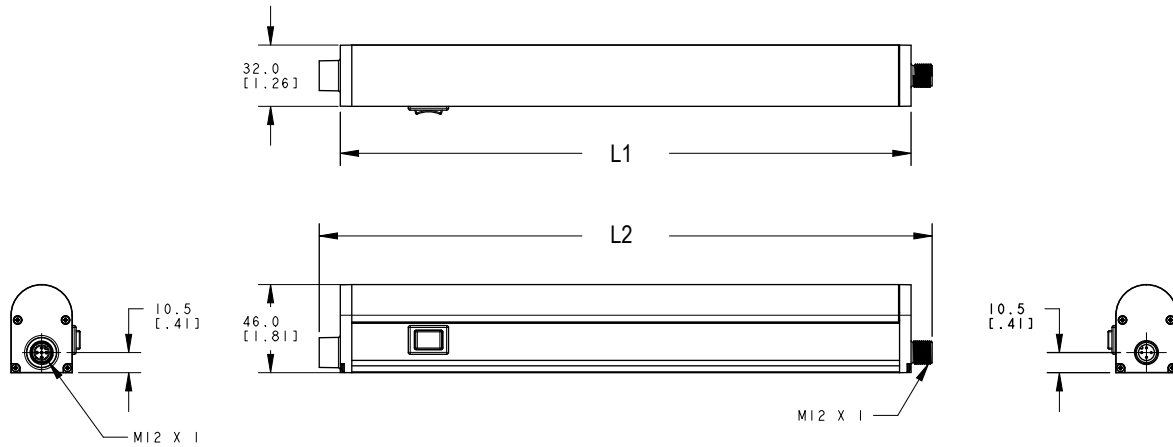
Use only with a suitable Class 2 power supply (UL) or SELV power supply (CE)

Supply Current

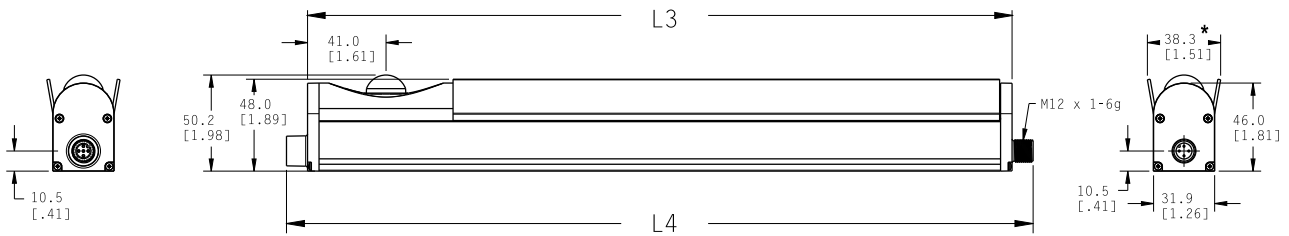
Light Length (mm)	Max Current Draw (A)	Typical Current Draw (A)		
		12 V dc	24 V dc	30 V dc
285	0.8	0.66	0.31	0.24
570	1.6	1.36	0.62	0.48
850	2.4	2.19	0.93	0.72
1130	3.2	3.02	1.24	0.96



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
WLB32C285..Q	298 mm (11.7 in)	320 mm (12.6 in)	368 mm (14.5 in)	390 mm (15.4 in)
WLB32C570..Q	580 mm (22.8 in)	602 mm (23.7 in)	650 mm (25.6 in)	672 mm (26.5 in)
WLB32C850..Q	862 mm (33.9 in)	884 mm (34.8 in)	932 mm (36.7 in)	954 mm (37.6 in)
WLB32C1130..Q	1144 mm (45.0 in)	1166 mm (45.9 in)	1214 mm (47.8 in)	1236 mm (48.7 in)
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)

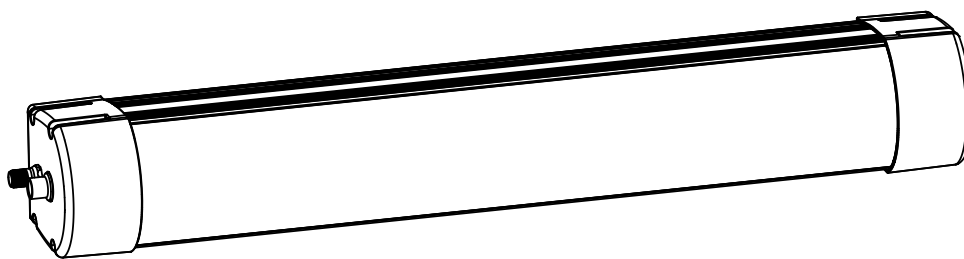
WLB92 Industrial LED Light Bar (DC)



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.



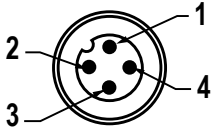
For PWM dimming, use with the LC65 Dimmer Module. For more information, refer to the LC65 LED Dimmer Module datasheet, p/n [177086](#).

Models

Family	Cascadable	LED Color	Lighted Length (mm)	Control	Connector
WLB92	X		550	PB	Q
	X = Non-Cascadable	Blank = Daylight White WW = Warm White G = Green R = Red Y = Yellow B = Blue	550 1100	PB = Switch, Dimming knob PWM = Dimmable via Pulse Width Modulation	Blank = 2 m Integral Cable Q = Integral 4-pin M12 Quick Disconnect (QD) fitting * * QD models require mating cordset



Wiring Diagram

	Pin	Wire Color	Connection
	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.

Specifications

Supply Voltage

- Operating Voltage: 24 V dc ($\pm 10\%$)
- 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 (± 300 K)
- 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

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)	3130	6500
Warm White	3000 K (+225 K, -125 K)	2715	5645
Green	525 nm	1430	2975
Red	625 nm	745	1545
Yellow	590 nm	620	1295
Blue	470 nm	405	840

LED Lifetime

- Lumen Maintenance - L₇₀
- When operating within specifications, output will decrease less than 30% after 50,000 hours.

Test Data

LM-79, LM-80, TM-21

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 V dc 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](#).

Construction

- 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 5)

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 Hz to 55 Hz 0.5 mm p-p amplitude per IEC 60068-2-6
- Shock 5G 11 ms duration, half sine wave per IEC 60068-2-27

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.

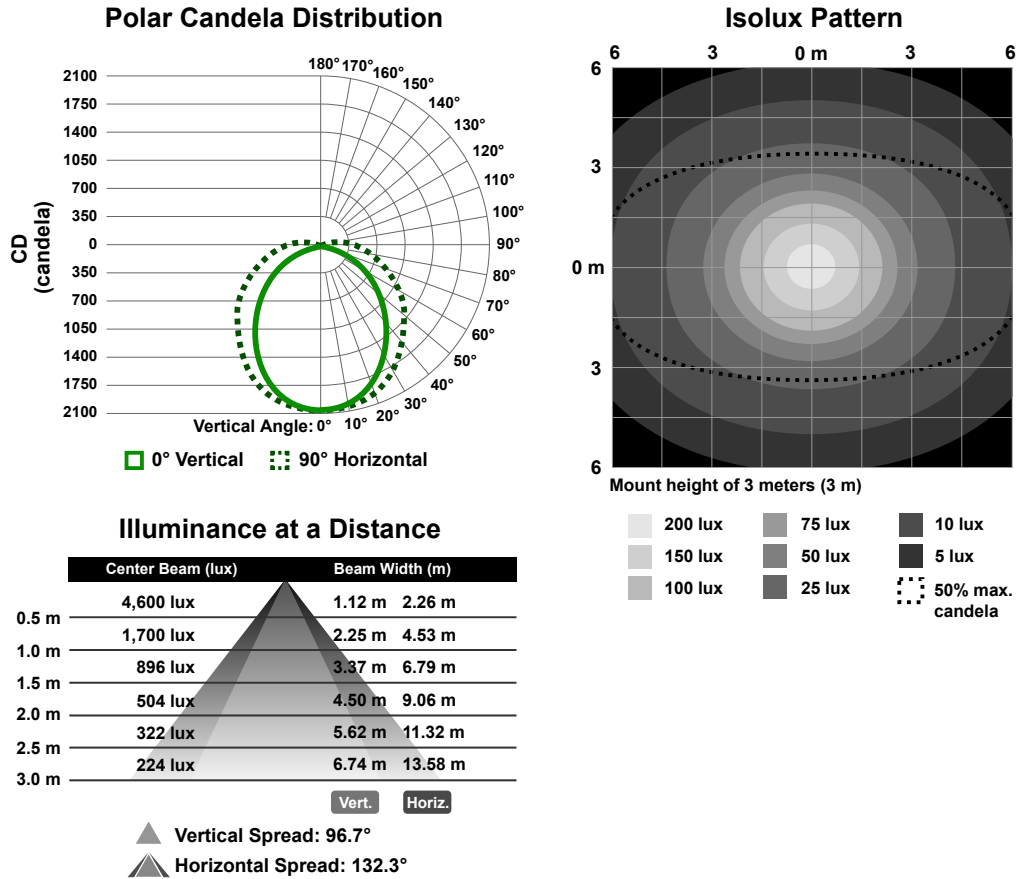
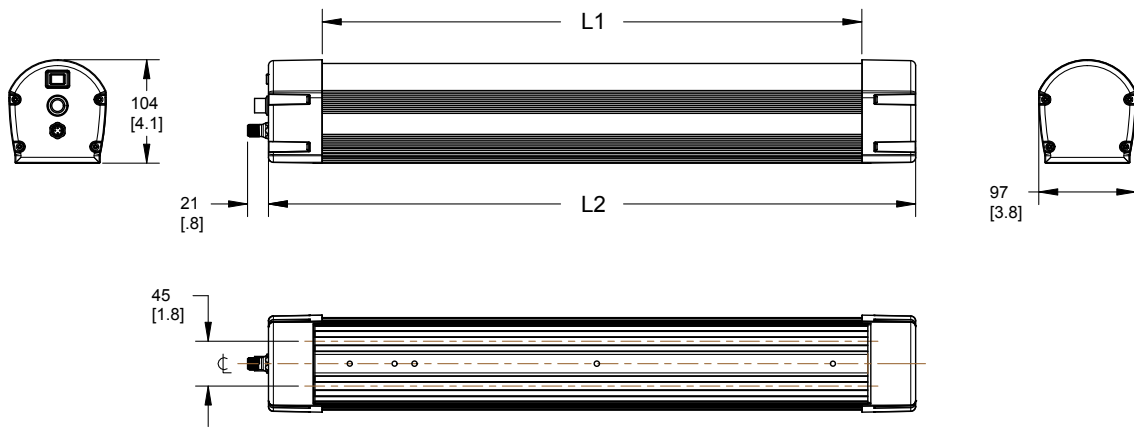


Figure 2. 1100 mm Models

Dimensions



Models	L1	L2
WLB92X...550..Q	542 mm (21.3 in)	650 mm (25.6 in)
WLB92X...1100..Q	1097 mm (43.2 in)	1205 mm (47.4 in)
WLB92X...550..	542 mm (21.3 in)	650 mm (25.6 in)
WLB92X...1100..	1097 mm (43.2 in)	1205 mm (47.4 in)

WLC60 Heavy Duty LED Light

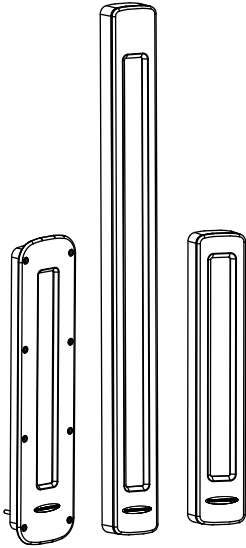


Datasheet

Banner's WLC60 Heavy Duty Lights are engineered to withstand harsh environments, making it the first choice for a machine lighting solution. A conservative mechanical design protects against liquid ingress and state-of-the-art LED technology delivers best of class brightness.

Choose between a durable polycarbonate window or a borosilicate glass (BSG) option featuring enhanced chemical and thermal resistance. This smart industrial lighting solution also features energy efficient eco-mode dimming states to tailor the lumen levels and power consumption to the application.

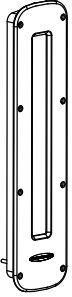
- Rugged and durable for harsh environments
- Oil, chemical, and water resistant with IP67, IP68g, and IP69K ratings
- High brightness paired with advanced glare-reducing optics
- Easy to install with a wide variety of mounting solutions
- Highly resistant to vibration and shock
- Input voltage of 12 to 30 V dc
- Integral 4-pin M12 Euro-style Quick Disconnect connector
- Models have four discrete intensity level settings



Base Mount Side Exit Connection Models				
	Models	Cascadable	Lighted Length (mm)	Window
	WLC60XW340AQ	No	340	Polycarbonate
	WLC60XW640AQ		640	
	WLC60CW340AQ	Yes	340	
	WLC60CW640AQ		640	
	WLC60XW340GAQ	No	340	Borosilicate Glass
	WLC60XW640GAQ		640	
	WLC60CW340GAQ	Yes	340	
	WLC60CW640GAQ		640	

Base Mount Rear Exit Connection Models				
	Models	Cascadable	Lighted Length (mm)	Window
	WLC60XW340ARQ	No	340	Polycarbonate
	WLC60XW640ARQ		640	
	WLC60CW340ARQ	Yes	340	
	WLC60CW640ARQ		640	
	WLC60XW340GARQ	No	340	Borosilicate Glass
	WLC60XW640GARQ		640	
	WLC60CW340GARQ	Yes	340	
	WLC60CW640GARQ		640	



Flush Mount Models				
	Models	Cascadable	Lighted Length (mm)	Window
	WLC60XW340FARQ	No	340	Polycarbonate
	WLC60CW340FARQ	Yes		
	WLC60XW340GFARQ	No		Borosilicate Glass
	WLC60CW340GFARQ	Yes		

The listed models have 4-pin integral QDs. To order the 2 m (6.5 ft) cable models, omit the suffix "Q" from the model number. For example, WLC60XW340FAR. Models with a quick disconnect (QD) connector require a mating cable.

Specifications

Supply Voltage

Operating Voltage: 12 to 30 V dc

Max. Current (340 mm Models)

1.4 A at 12 V dc
0.7 A at 24 V dc
0.56 A at 30 V dc
Max. Input Power: 16.8 Watts

Typical Current (340 mm Models)

1.3 A at 12 V dc
0.59 A at 24 V dc
0.47 A at 30 V dc

Max. Current (640 mm Models)

3.1 A at 12 V dc
1.53 A at 24 V dc
1.22 A at 30 V dc
Max. Input Power: 37.2 Watts

Typical Current (640 mm Models)

2.8 A at 12 V dc
1.17 A at 24 V dc
0.97 A at 30 V dc

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Construction

Nickel plated aluminum housing, polycarbonate or borosilicate glass window

Connections

Integral 4-pin M12 male quick disconnect (QD) (4-pin connecting cordset required); or 2 m (6.5 ft) integral cable

Vibration and Mechanical Shock

All models meet Mil. Std. 202F requirements method 201A (vibration: 10 to 60 Hz max., double amplitude 0.06", maximum acceleration 10G). Also meets IEC 947-5-2: 30G 11 ms duration, half sine wave.

Light Characteristics

Color temperature (CCT): 6000–7100K

Color: Cool white

Lumen output at 25 °C (77 °F) typical for 340 mm models: 1300 lumens

Lumen output at 25 °C (77 °F) typical for 640 mm models: 2600 lumens

Luminous efficacy at 25 °C (77 °F) typical: 92 lumens per watt at 24 V dc

Spacing Criterion

0.86

Operating Temperature

–40 to 50 °C (–40 to 122 °F) at the max. intensity setting

–40 °C to +70 °C (–40 °F to +158 °F) at any of the dim settings

Environmental Rating

IEC IP67/IP68g / IP69K per DIN 40050

Storage Temperature

–40 °C to +70 °C (–40 °F to +158 °F)

Application Notes

When connecting cascable lights in series, it is important not to exceed the maximum current limitation of 4 Amps.

Input Voltage	Max. Number of Units	
	340 mm Models	640 mm Models
12 V dc	3	1
24 V dc	6	3
30 V dc	8	4

Certifications



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).

Luinaire Spacing = SC × Height to Illuminated Plane

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