

WLB72 Industrial LED Light Bar (AC Quick Disconnect)



Datasheet

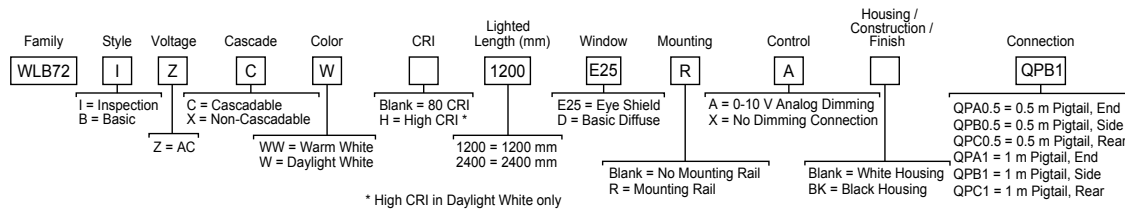
This guide is designed to help you set up and install the WLB72 Industrial LED Light Bar. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at www.bannerengineering.com. Search for part number 229098 to view the Instruction Manual. Use of this document assumes familiarity with pertinent industry standards and practices.

IMPORTANT: Read the following instructions before operating the light. Please download the complete WLB72 Industrial LED Light Bar 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 WLB72 Industrial LED Light Bar, 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 WLB72 Industrial LED Light Bar sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

Models



Wiring Diagram

Diagram	Wire	Connection	Pinout (Male)	Pinout (Female)
	L - Black	Line/Hot		
	N - White	Neutral		
	⊕ - Green/Yellow	Earth ground		
	Dim (+) - Purple	0-10 V DC analog dimming		
	Dim (-) - Gray	Return analog dimming		

3-pin 7/8 in-16UNF Pinout Description		4-pin M12 Pinout Description	
1	Ground	1	Not connected
2	Neutral	2	Not connected
3	Line/Hot	3	Dim (-)
—	—	4	Dim (+)

Specifications

Supply Voltage

Nominal voltage: 120 V AC to 277 V AC, 60 Hz in North America
 Nominal voltage: 120 V AC to 277 V AC, 50/60 Hz outside North America
 Power factor: > 0.95 at 120 V AC and > 0.90 at 277 V AC
 Total harmonic distortion (THD): < 20%
 See electrical characteristics on product label

Supply Protection Circuitry

Protected against transient voltages

LED Lifetime

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

Connections

PVC cable with a 3-pin 7/8 in-16UNF quick disconnect for power
 PVC cable with a 4-pin M12 quick disconnect for dimming

Weight

1200 model: 2.8 kg (6.2 lbs)
 2400 model: 5.6 kg (12.3 lbs)

Environmental Rating

IP20

Dimming

Compatible with 0-10 V analog LED dimming, dimmable to 5% intensity

Construction

Galvanized steel with corrosion resistant polyester powder coat, polycarbonate window and end caps

Mounting

Pre-installed mounting rail bracket option. Housing includes six mounting holes for surface mounting. Several optional mounting brackets are available

Light Characteristics

Daylight White Efficacy (basic window): 130 lumens/watt typical at 120 V AC at 25 °C (77 °F)
 CRI: 82, typical
 High CRI: 90, minimum

Length	Color	Color Temperature Window (CCT)		Lumens (Typical at 25 °C)
1200	Daylight White	5000 K (±300 K)	Eye Shield	3800
	Warm White	3000 K (±300 K)		
	Daylight White	5000 K (±300 K)	Basic	6800
	Warm White	3000 K (±300 K)		
2400	Daylight White	5000 K (±300 K)	Eye Shield	7600
	Warm White	3000 K (±300 K)		
	Daylight White	5000 K (±300 K)	Basic	13600
	Warm White	3000 K (±300 K)		

Operating Temperature

Surface Mount Installation: -20 °C to +45 °C (-4 °F to +113 °F)
 85% at +50 °C maximum relative humidity (non-condensing)

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 (5 minute sweep, 30 minute dwell)
 Shock: 5G 11 ms duration, half sine wave per IEC 60068-2-27
 Impact: IK07 (IEC 60068-2-75)

Application Notes

When connecting continuous run/cascadable lights in series, it is important not to exceed maximum current limitations of 14 AWG, 75 °C wire, in accordance with the National Electrical Code (NEC) and any applicable local code requirements. Two or more lights installed in parallel must maintain a 150 mm (6 in) spacing to maintain a 50 °C operation temperature.

Operating Voltage	Maximum Unit Limit		
	1200 mm	2400 mm	Total Length of combined Lights
120	34	17	136
230	68	34	272
277	83	41	332

For example, if you use (34) 1200 mm lights at 120V, you cannot add any 2400 mm lights within the same continuous run.

Supply Current

Lighted Length (mm)	Typical Current Draw (A)		
	120 V AC	230 V AC	277 V AC
1200	0.45	0.22	0.21
2400	0.86	0.44	0.36

Certifications and Approvals



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 Blenheim Court
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 GREAT BRITAIN



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For patent information, see www.bannerengineering.com/patents.

Mexican Importer

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