WLA-2 LED Area Light

Quick Start Guide

Important: Read the following instructions before operating the light. Please download the complete WLA-2 Area Light 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 WLA-2 Area Light, 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 WLA-2 Area Light sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

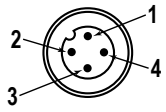
Models

Standard models shown. Contact factory for other options. Other colors are available by request.

Family	Color	Array Size	Window	Lensing *	Control	Connector
WLA-2	W	105x180	D			Q
	W = Daylight White WW = Warm White **	105x180 190x180 275x180 360x180	Blank = Clear D = Diffuse E = Encapsulated	Blank = No lenses L30 = ± 30 degree lenses	Blank = High/Low/Off PWM = Pulse Width Modulation	Q = Integral 4-pin M12 QD

* No lens option on encapsulated or diffuse window models
** No warm white option on encapsulated models

Wiring Diagram

Male	Pin	Wire Color	Connection
	1	Brown	12 V DC to 30 V DC
	3	Blue	DC common
	4	Black	High/Low/Off Models: Connect to 12 V DC to 30 V DC for 50% maximum intensity. For maximum intensity, leave the black wire floating or connected to common. PWM Models: Pulse width modulation (PWM) input. For maximum intensity, leave the black wire floating or connected to common. Connecting to 12 V DC to 30 V DC causes the LEDs to shut off.
	2	White	Not used

Specifications

Supply Voltage
12 V DC to 30 V DC
Use only with suitable Class 2 power supply (UL) or SELV power supply (CE).
See electrical characteristics on product label

Supply Current

Housing Length (mm)	Max Current (A)	Typical Current Draw (A)		
		12 V DC	24 V DC	30 V DC
105	0.875	0.830	0.325	0.260
190	1.750	1.660	0.650	0.520
275	2.625	2.490	0.975	0.780
360	3.500	3.320	1.300	1.040

Supply Protection Circuitry
Protected against reverse polarity and transient voltages

Light Characteristics
Color Temperature (CCT): 5000K, 3000K
Lumen output: 1025 per panel, typical at 25 ºC (77 ºF) ambient [1]
CRI: 80, minimum

Construction
Standard models: PBT housing, polycarbonate window, nickel-plated brass connector
Encapsulated models: PBT housing, nickel-plated brass connector, polyurethane encapsulated

Connections
Integral 4-pin M12 male quick-disconnect connector (4-pin connecting cordset required)

LED Lifetime
Lumen Maintenance - L_{70}
When operating within specifications, output will decrease less than 30% after 70,000 hours.

Dimming
High/Low/Off Models: 100/50/0% intensity, dependent on wiring
PWM Models: Compatible with PWM LED dimming, dimmable to 5% intensity
Pulse Width Modulation (PWM):
Frequency: Up to 1000 Hz
Voltage: 12 V DC to 30 V DC
Current: 4 mA max.

Vibration and Mechanical Shock
Vibration: Vibration: 10 Hz to 55 Hz, 1.0 mm peak-to-peak amplitude per IEC 60068-2-6
Shock: Shock: 15G 11 ms duration, half sine wave per IEC 60068-2-27
Impact: IK07 (IEC 60068-2-75)

Certifications

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

Turck Banner LTD Blenheim House, Blenheim Court, Wickford, Essex SS11 8YT, Great Britain

Operating Temperature
Clear and Diffuse Window Models:
–40 °C to +70 °C (–40 °F to +158 °F)
Light output begins to decrease above 50 °C (122 °F), and decreases to approximately 65% of max intensity
Encapsulated Models:
–20 °C to +50 °C (–4 °F to +122 °F)

Storage Temperature
–40 °C to +70 °C (–40 °F to +158 °F)

Mounting
(4) integrated M5 × 1 threads in housing. No hardware provided. Optional mounting brackets are available (see Accessories)

Note: When mounting the light to combustible or insulating surfaces, a minimum of 1 inch of clearance around all sides is suggested. Optional standoffs or an alternative mounting method to achieve spacing.

Environmental Rating
Suitable for wet locations per UL 2108
Clear and Diffuse Window Models:
Rated IP67 and IP69K per DIN 40050-9
Encapsulated Models:
Rated IP67, IP68, and IP69K per DIN 40050-9

Required Overcurrent Protection

WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

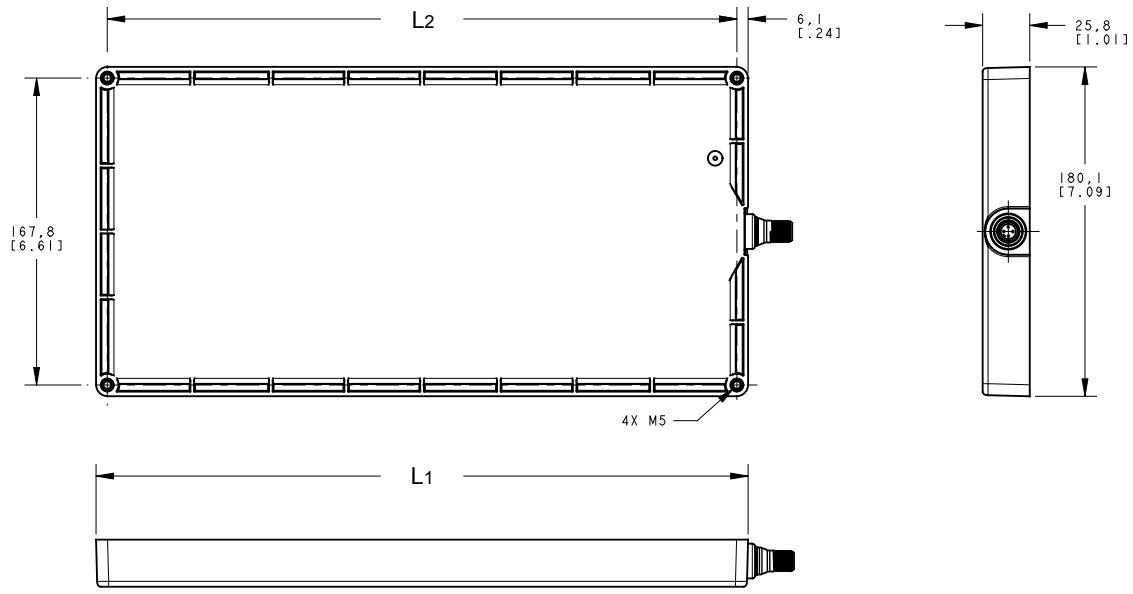
Overcurrent protection is required to be provided by end product application per the supplied table.
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.
Supply wiring leads < 24 AWG shall not be spliced.
For additional product support, go to www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

[1] Lumen values are reduced by 20% on diffused window models.

Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise.



Model	L1	L2
WLA-2..105X	105.1 mm (4.14 in)	92.8 mm (3.66 in)
WLA-2..190X	188.9 mm (7.44 in)	176.7 mm (6.96 in)
WLA-2..275X	272.7 mm (10.74 in)	260.3 mm (10.25 in)
WLA-2..360X	356.6 mm (14.04 in)	344.3 mm (13.55 in)

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

FCC Part 15 Class 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 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.

Industry Canada

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.

Mexican Importer

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