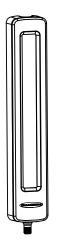
WLC60 Heavy Duty Stainless Steel LED Light



Datasheet



Banner's WLC60 Heavy Duty Stainless Steel LED 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 IEC IP67, JIS C IP68G, and IP69K per DIN 40050-9 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 V dc to 30 V dc
- Integral 4-pin M12 Euro-style quick disconnect connector; mating cable required
- · Models have four discrete intensity level settings



Important: Read the following instructions before operating the light. Please download the complete WLC60 Heavy Duty Stainless Steel LED 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 WLC60 Heavy Duty Stainless Steel LED Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

Models

Model	Window	Lighted Length (mm)	
WLC60XW340SSQ	Polycarbonate	340	
WLC60XW340GSSQ	Borosilicate Glass	340	

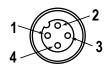
Spacing Criteria (SC)

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 = $SC \times Height$ to Illuminated Plane

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

Wiring Diagram



Key

Pin 1 Brown: 12-30 V dc Pin 3 Blue: dc Common

Pin 4 Black: Connect to 12-30V dc for 66% max. intensity Pin 2 White: Connect to 12-30 V dc for 33% max. intensity

Pins 4 and 2 Black and White: Connect to 12-30 V dc for 50% intensity



Original Document 178410 Rev. H 12 September 2019

For maximum intensity, leave the white and black wires floating or connected to common.

Specifications

Supply Voltage

Operating Voltage: 12 V dc to 30 V dc

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

See electrical characteristics on product label

Max. Current

1.53 A at 12 V dc 0.68 A at 24 V dc 0.55 A at 30 V dc

Max. Input Power: 18.4 Watts

Typical Current

1.38 A at 12 V dc 0.62 A at 24 V dc 0.49 A at 30 V dc

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Construction

316L stainless steel housing Polycarbonate or borosilicate glass window

Buna o-ring seals (consult factory for additional seal)

Integral 4-pin M12/Euro-style male quick disconnect Mating cordset required for quick disconnect models

Storage Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

Vibration and Mechanical Shock

Vibration: 10 Hz to 55 Hz, 1.0 mm peak-to-peak amplitude per IEC 60068-2-6

Shock: 15G 11 ms duration, half sine wave per IEC 60068-2-27

Operating Temperature

 $-40~^\circ\text{C}$ to $+50~^\circ\text{C}$ (–40 $^\circ\text{F}$ to $+122~^\circ\text{F})$ at the max. intensity setting –40 $^\circ\text{C}$ to $+70~^\circ\text{C}$ (–40 $^\circ\text{F}$ to +158 $^\circ\text{F})$ at any of the dim settings

Environmental Rating

IEC IP67, JIS C IP68G, IP69K per DIN 40050-9

Certifications





Light Characteristics

Color temperature (CCT): 6200K (+500, -550K)

Color: Cool white

Lumen Output

1300 lumens (typical at 25° C)

Luminous efficacy: 87 lumens/watts typical at 24 V dc at 25° C CRI: 80, minimum

LED Lifetime

Lumen Maintenance - L₇₀

When operating within specifications, output will decrease less than 30% after 60,000 hours

Spacing Criterion

0.86

Test Data

LM-79, LM-80, TM-21

Required Overcurrent Protection



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

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.

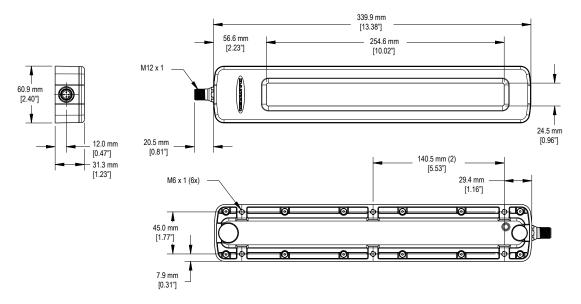
For additional product support, go to www.bannerengineering.com.

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		

Performance

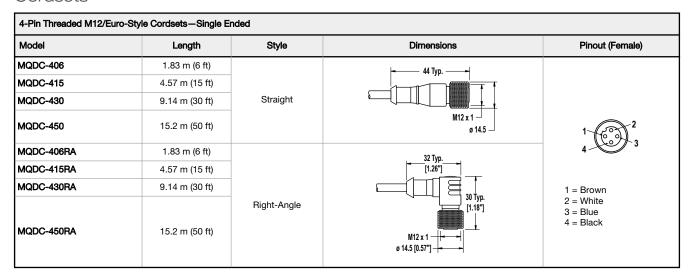
Polar Candela Distribution Isolux Pattern Illuminance at a Distance 0.5 m 0.5 m 180° 170° 160° 150° Center Beam (lux) 1500 5,759 lux 0.5 m 0.5 m 1250 140° 0.5 m 0.5 m 130 1.554 lux 1.0 m 1.0 m 1000 1.0 m 120 714 lux 1.5 m 1.5 m 750 1.5 m 110° 500 407 lux 1.9 m 2.0 m 2.0 m CD (candela) 100 250 Vert. 90° Vertical Spread: 50.3° 250 0 m 80° Horizontal Spread: 45.5° 500 70° 750 1000 Vertical Angle: 0° ■ 0° Vertical ## 90° Horizontal Mount height of 1 meter (1 m) 1300 lux 1100 lux 500 lux 100 lux 50% max. lux

Dimensions



Accessories

Cordsets



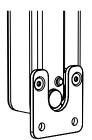
4-Pin Threaded M12/Euro-Style Cordsets – Washdown, Stainless Steel, Single Ended						
Model	Length	Style	Dimensions	Pinout (Female)		
MQDC-WDSS-0406	1.83 m (6 ft)	Straight				
MQDC-WDSS-0415	4.57 m (15 ft)			2		
MQDC-WDSS-0430 9	9.14 m (30 ft)		Ø15.5 mm	4 (60) 3		
	=======================================		43.5 mm —	1 = Brown 2 = White 3 = Blue 4 = Black		

Brackets

All measurements are listed in millimeters, unless noted otherwise.

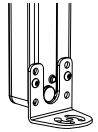
I MRWI C60F

- · Set of two flat brackets
- 300 series stainless steel
- Includes M6 flathead screws for mounting to light
- Clearance for M6 or 1/4-20 mounting hardware



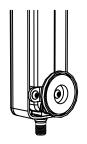
LMBWLC60RA

- · Set of two right-angle brackets
- · 300 series stainless steel
- Includes M6 button head screws for mounting to light
- Clearance for M6 or 1/4-20 mounting hardware



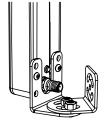
LMBWLC60MAG

- Magnetic mounting kit (set of two)
- · Two inch magnets
- Mounting hardware included



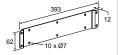
LMBWLC60RAS

- Pair of two swivel mount, right-angle brackets
- 300 series stainless steel
- Includes hardware for mounting to light



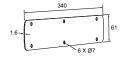
LMBWLC60B340

- Plate for sealing the cavity on the back of the 340 mm models
- 300 series stainless steel
- Includes hardware for mounting to the light



ACC-WLC60-340-GSK-FDA-1

- Blue FDA-approved silicone gasket
- Thickness: 1.6 mm



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Mexican Importer

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