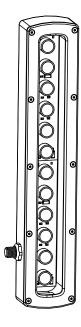
Sealed Linear Array Lights



IP68 Lighting for use with Vision Systems in Washdown Environments

For the latest technical information about this product, including specifications, dimensions, and wiring, see www.bannerengineering.com/lineararraylights



- Four high-intensity, visible wavelengths, plus IR and UV
- · Rugged, waterproof housing, rated IEC IP68
- The following array lengths are available:

290 mm (11.4") 435 mm (17.7")

580 mm (22.8")

- High-power, solid-state LED array; continuous or strobed operation is selectable via sensor software (P4 models) or via hookup
- · Optically isolated strobe signal
- · Selectable Active High or Active Low strobe
- Available with 316 stainless steel or nickel-plated aluminum housing
- · LEDs directly illuminate target
- Lens angle of $\pm 6.5^{\circ}$ on visible and IR models, lens angle of $\pm 5^{\circ}$ on UV 395 nm models, reflector cup angle of $\pm 15^{\circ}$ on UV 365 nm models
- Three window materials from which to choose: clear acrylic, clear glass, and clear diffusing acrylic
- Maintenance-free, rugged construction
- · Built-in constant current regulation
- Very even light pattern (as close as 76.2 mm or 3 inches)

Model Key

Light Source	LED Color	Linear Array	Array Length	Housing	Window*	Relative Intensity	Intensity Control	Connector
LED	R	LA	290	Α	Р	6 —	X	Q
	R = Red W = White B = Blue G = Green I = IR UV365 = U	/365 nm†	290 mm 435 mm 580 mm	A = Aluminum SS = Stainless Steel	P = Clear Plastic G = Glass D = Diffuse Plastic		X = Not Adjustable	Q = QD
	UV395 = U'	•			* UV365 Only avail	able with glas	s window	

† Risk Group 1:

NOTICE: UV Emitted from this product.

Minimize exposure to eyes or skin. Use appropriate shielding and eye protection. Risk Group 1 (RG 1) products are safe for most use applications, except for very prolonged exposures where direct ocular exposures may be expected.

- IEC 62471

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‡ Risk Group 2:

CAUTION: UV Emitted from this product.

Eye or skin irritation may result from exposure. Use appropriate shielding and eye protection. Risk Group 2 (RG 2) products generally do not pose a realistic optical hazard if aversion responses limit the exposure duration or where lengthy exposures are unrealistic.

- IEC 62471

Specifications

Light Source

LED Color	Wavelength	Optional Filter *
Infrared	850 nm	FLTI
Red	620-630 nm	FTLR
Blue	465-485 nm	FLTB
Green	520-535 nm	FLTG
White	5000-8300 K	FLTB or FLTG
UV	365 nm	FLTB
	395 nm	

^{*}Recommended Ambient Light filter kit for use with *Presence*PLUS Cameras.

Connections

5-pin Euro-style (M12) male connector; accessory cordset required for operation

Construction

Housing: nickel-plated aluminum or 100% 316 stainless steel, depending on model

Window: acrylic or glass, depending on model

Supply Voltage and Current

290 mm Models: 24V dc ± 10% @ 1 A max. 435 mm Models: 24V dc ± 10% @ 1.5 A max. 580 mm Models: 24V dc ± 10% @ 2 A max.

Strobe Voltage: 5-24V dc

Built-in constant current regulator for LEDs

Useful Life

When operated within specifications, output will decrease less than 30% after 50,000 hours for visible and IR models; 20,000 hours for UV models

Operating Conditions

Temperature: 0° to $+50^{\circ}$ C ($+32^{\circ}$ to 122° F)

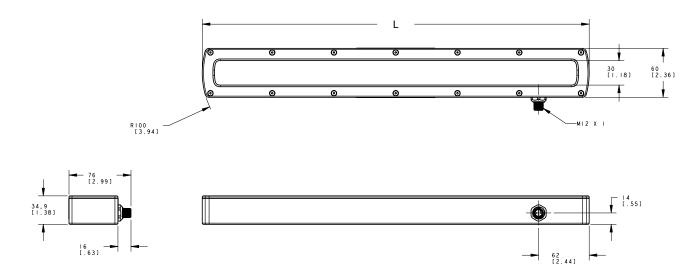
Mounting

(4) 1/4"-20 threaded holes in back; brackets available

Environmental Rating

IP68

Dimensions



Array Length	Length "L"		
290 mm	328 mm (12.91")		
435 mm	474 mm (18.66")		
580 mm	621 mm (24.45")		

Wiring Table

Wire Purpose	Vire Purpose Cable Wire Continuous On Mode		Strobed Mode	PresencePlus Pro Controller Terminal Block	
Power Wires	Brown (1)	+24V dc	+24V dc	Pin 01**	
	Blue (3)	common	common	Pin 02	
Strobe Polarity	Gray (5)	onon	Active Low: open	Pin 02	
Control	Gray (5)	open	Active High: connect to common (Blue wire)		
	White (2)	open	0V dc = ON (Active Low) +5 to 24V dc = OFF (Active Low)	Pin 04	
Strobe Voltage Wires	vvilite (2)	орен	0V dc = OFF (Active High) +5 to 24V dc = ON (Active High)	1 1104	
	Black (4)	open	Strobe common	Pin 02	
			(2) Strobe (+/0)		

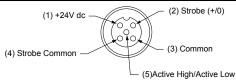


Figure 1. Pinouts for Mating Cable

^{**} When connecting the light to a *Presence*PLUS Pro controller terminal block, the controller supply must be 24V dc ± 10%.



NOTE: Connection to earth ground recommended.

Accessory Cordsets

For use with nickel-plated aluminum housing:	For use with stainless steel housing:		
5-Pin Quick-Disconnect (QD) Cordsets	5-Pin Quick-Disconnect (QD) Cordsets		
5-wire cable, straight female Euro-style (M12) connector (nickel-plated brass coupling nut) at one end, with flying leads at opposite end.	5-wire cable, straight female Euro-style (M12) connector (stainless steel coupling nut) at one end, with flying leads at opposite end.		
MQDC20-506, 2 m (6')	MQDC20SS-506, 2 m (6')		
MQDC20-515, 5 m (15')	MQDC20SS-515, 5 m (15')		
MQDC20-530, 9 m (30')	MQDC20SS-530, 9 m (30')		

^{*} For Banner-supplied wire.

Accessory Brackets

SMBLASRA Single Bracket Double Bracket

- · Right-angle metal bracket
- May be used individually or two used in combination to provide swivel adjustment
- · Brackets and hardware are 316 stainless steel



NOTE: If double-bracket mounting will be used, order 2 sets of brackets per light.





Includes:

- · 2 Brackets
- Four 1/4-20 stainless steel screws (socket drive, button head)
- 2 stainless steel lock nuts (used only with double brackets)
- 2 stainless steel washers (used only with double brackets)

Replacement Windows

Array Length	Clear Glass	Clear Acrylic	Diffuse Acrylic	White Diffuse Acrylic
290 mm	LEDLA290SW-G	LEDLA290SW-P	LEDLA290SCDW-P	LEDLA290SWDW-P
435 mm	LEDLA435SW-G	LEDLA435SW-P	LEDLA435SCDW-P	LEDLA435SWDW-P
580 mm	LEDLA580SW-G	LEDLA580SW-P	LEDLA580SCDW-P	LEDLA580SWDW-P

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