

BL313 Series

Medium Intensity Linear Backlight

Product Highlights

- Pre-Engineered Scalability Enables
 Customized Emitting Lengths in 2"
 Increments to 20"
- Intense, Diffuse Lighting with 226 kLux at Emitting Surface
- Multiple Available Wavelengths, Including Visible Monochromatics, Infrared, and White
- Available Washdown Option for Difficult Environments



General Specifications

	Color	24V Current	All Other Controls		
	455, 470, 530, WHI 0.12A per 2"		0.16A per 2"		
Electrical Specifications	590, 625 0.06A per 2"		0.20A per 2"		
	850, 940 0.12A per 2"		0.20A per 2"		
Max Case Temperature	60°C @ 25°C Ambient				
Ambient Temperature Range	0-50°C				
Weight	.482 lbs for 12" model (BL31312)				
Standard Cable Information	2 M long -0/+150 mm (80" -0/+6") - 105°C rated PVC jacket, foil shield with drain.				
Photobiological Risk Factor	Exempt Applicable Wavelengths: 850, 940				
	Group 1 (Low-Risk) Applicable Wavelengths: 455, 470, 530, 590, 625, 660, 730, WHI				
Compliance	CE, RoHS, IEC 62471				
IP Rating	P65 Sealed, IP50 Unsealed				
Lumen Maintenance	L70 = 50,000 Hours				

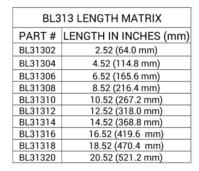
Part Number Key

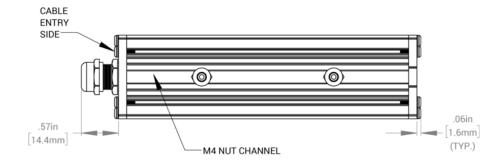
BL31312-530IC-M12	Model	Emitting Length (in)	-	Peak Wavelength	Connector/ Control	Washdown Option	-	Alternative Connector
Fix: 1 Available with IC, 13, 13S, and 24 V 1500 (green) C5 M121 M12	BL313	XX	-	XXX	XX	Х	-	XXX
BL31312-530IC-M12	BL313			470 (blue) 530 (green) 590 (green) 625 (red) 850 (IR) 940 (IR)	C5 Q4 IC I3 I3S	W		
	EX: 1 Available with IC, I3, I3S, and 24 V BL31312-530IC-M12 BL31308-WHIC1W							

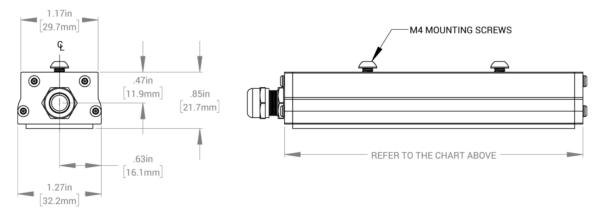
See website product page for in-stock product numbers.

Shipping: Stock Products: within three days Build-to-Order Products: within one to three weeks

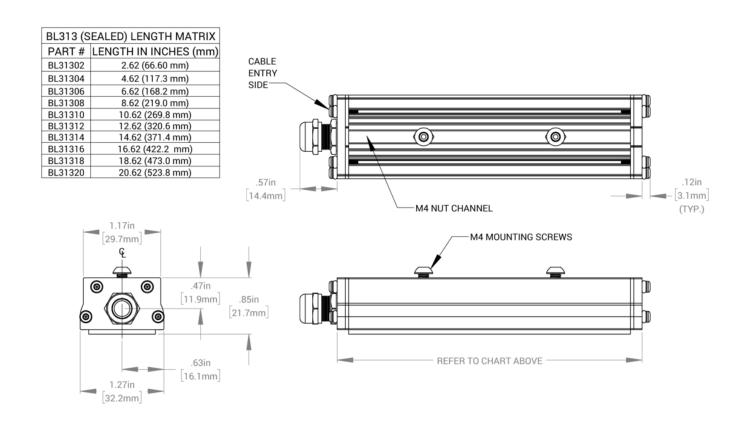
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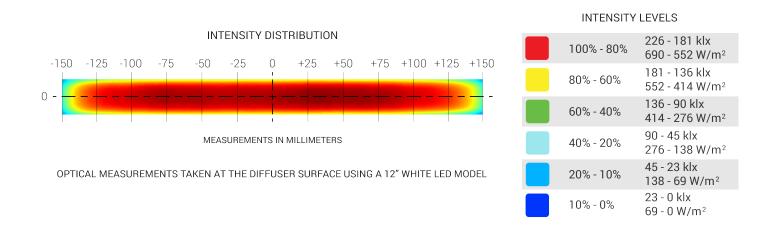




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Optical Specs

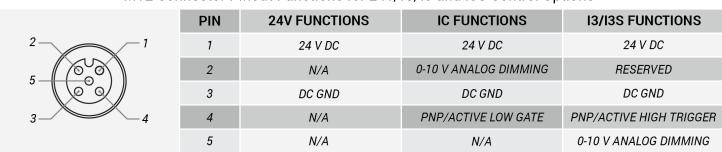


Standard Flying Lead Functions for 24V, IC, I3 and I3S Control Options

	COLOR	24V FUNCTIONS	IC FUNCTIONS	13/13S FUNCTIONS
	BROWN	24 V DC	24 V DC	24 V DC
	WHITE	N/A	0-10 V ANALOG DIMMING	RESERVED
	BLUE	DC GND	DC GND	DC GND
	BLACK	N/A	PNP/ACTIVE LOW GATE	PNP/ACTIVE HIGH TRIGGER
	GRAY	N/A	N/A	0-10 V ANALOG DIMMING
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The functions listed above are applicable when this product is configured with built-in 24V, IC, I3, or I3S control, without the optional A-coded 5-position Male M12 or A-coded 4-position Male M8 connector.

M12 Connector Pinout Functions for 24V, IC, I3 and I3S Control Options



The functions listed above are only applicable when this product is configured with built-in 24V, IC, I3, or I3S control, with an A-coded 5-position Male M12 connector.

M8 Connector Pinout Functions for 24V, IC, I3 and I3S Control Options

3 1	PIN	24V FUNCTIONS	IC FUNCTIONS	13/13S FUNCTIONS
	1	24 V DC	24 V DC	24 V DC
	2	N/A	0-10 V ANALOG DIMMING	0-10 V ANALOG DIMMING
	3	DC GND	DC GND	DC GND
	4	N/A	PNP/ACTIVE LOW GATE	PNP/ACTIVE HIGH TRIGGER

The functions listed above are only applicable when this product is configured with built-in 24V, IC, I3, or I3S control, with an A-coded 4-position Male M8 connector.

For details on operating configurations without built-in control (C1, C5, Q1, and Q4 control, when available), please refer to Advanced illumination's controller manuals.

Control Specs

C1 CONNECTOR

For use with: DCS Series Controllers

Strobe/Continous Controllers

C5 CONNECTOR

For use with:
Pulsar 320
High Power
Strobe Only
Controller

ICS 2 (IC)

In-line Continous Controller

Powered with: **24V Power Supply**

ICS 3

In-line Strobe/ Continous Controller Default On Powered with: 24V Power Supply

ICS 3S (I3S)

In-line Strobe/ Continous Controller Default Off Powered with: 24V Power Supply

24 VOLT

Flying/Tinned Leads

Powered with: **24V Power Supply**

Warranty Information

Every Advanced illumination, Inc. (Ai) product is thoroughly inspected and tested before leaving the factory. Products are warranted to be free of defects in workmanship and materials for a period of FIVE YEARS from the original date of purchase. Should a defect develop during this period, customers may return the complete product, freight prepaid, to one of Ai's distributors or to the Ai factory. All product warranty returns require a Return Merchandise Authorization (RMA) number which is obtained from Customer Service. The RMA number must be clearly marked on the outside of the package. Ai will inspect the unit, and if a defect is found will, at our option, repair or replace the product without charge. Ai disclaims liability for any implied warranties, including implied warranties of "merchantability" and "fitness for a specific purpose." For products under warranty that have since been discontinued, Ai will make an effort to replace with equivalent parts; for circumstances that do not allow for equivalent replacement, Ai reserves the right to repair or replace these products with an updated version. Ai cannot be held responsible for the unauthorized or inappropriate use of its products. Any unauthorized repair or modifications will result in a voided warranty.

No Liability for Consequential Damages: In no event shall Ai be liable for any consequential, special, incidental, or indirect damages of any kind arising from the sale or use of the products.

Electromagnetic Compatibility

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC) as stated in the product specifications. These requirements and limits are designed to provide reasonable protection against harmful interference only when the product is operated in its intended industrial electromagnetic environment. To minimize the potential for electromagnetic interference or unacceptable performance degradation, install and use this product in strict accordance with the instructions in the product documentation.

Customer Service

For information on existing orders, or to make an order adjustment, contact us Monday through Friday 8:00 am to 5:00 pm ET or send an email to orders@advancedillumination.com.

Company Information

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