

### 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

Electrical Specifications	Color	24V Current	All Other Controls
	455, 470, 530, WHI	0.12A per 2"	0.16A per 2"
	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

Model	Emitting Length	—	Peak Wavelength (nm)	Connector/Control	Washdown Option	—	Alternative Connector <sup>1</sup>
BL313	XX	—	XXX	XX	XXX	—	XXX
BL313	2" increments from 2" to 20"		455 (Blue) 470 (Blue) 530 (Green) 590 (Green) 625 (Red) 850 (IR) 940 (IR) WHI (white)	C1 C5 Q4 IC I3 I3S 24	W		M12 M8
Ex: BL31312-530IC-M12 BL31308-WHIC1W				<sup>1</sup> Available with IC, I3, I3S, and 24 options only			

## Mechanical Specs

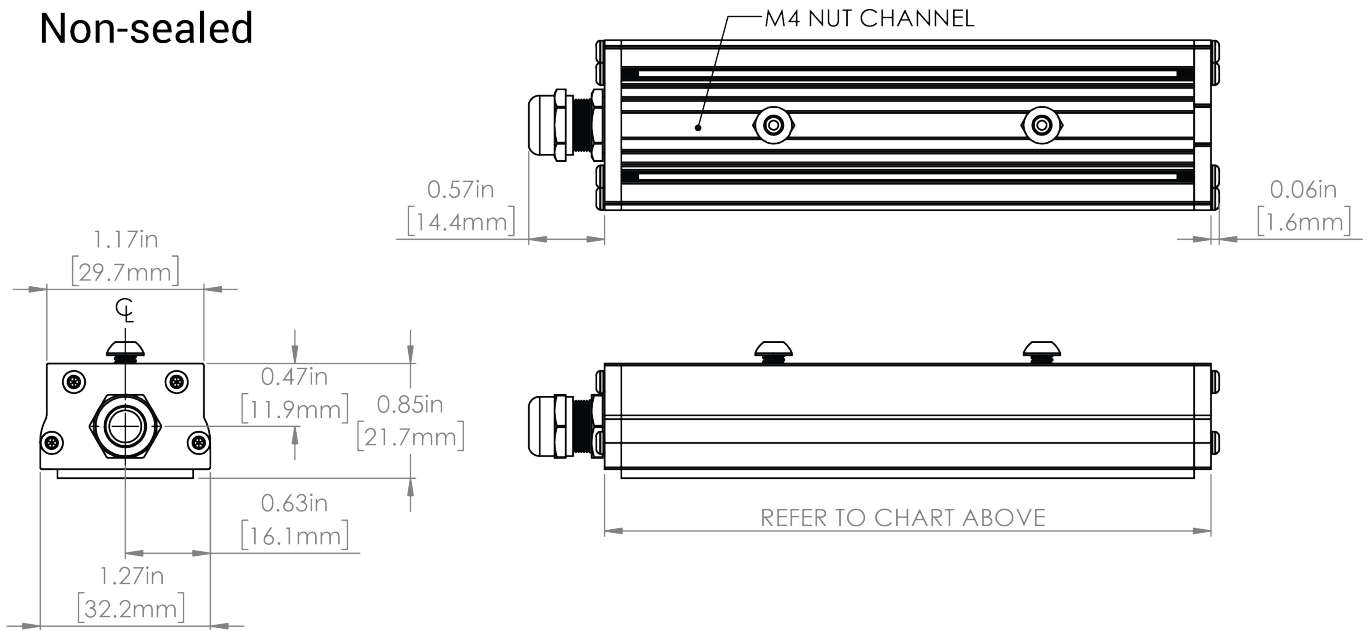
## Non-sealed

Part #	Length in mm (inches)	
BL31302	64.0	(2.52)
BL31304	114.8	(4.52)
BL31306	165.6	(6.52)
BL31308	216.4	(8.52)
BL31310	267.2	(10.52)
BL31312	318.0	(12.52)
BL31314	368.8	(14.52)
BL31316	419.6	(16.52)
BL31318	470.4	(18.52)
BL31320	521.2	(20.52)

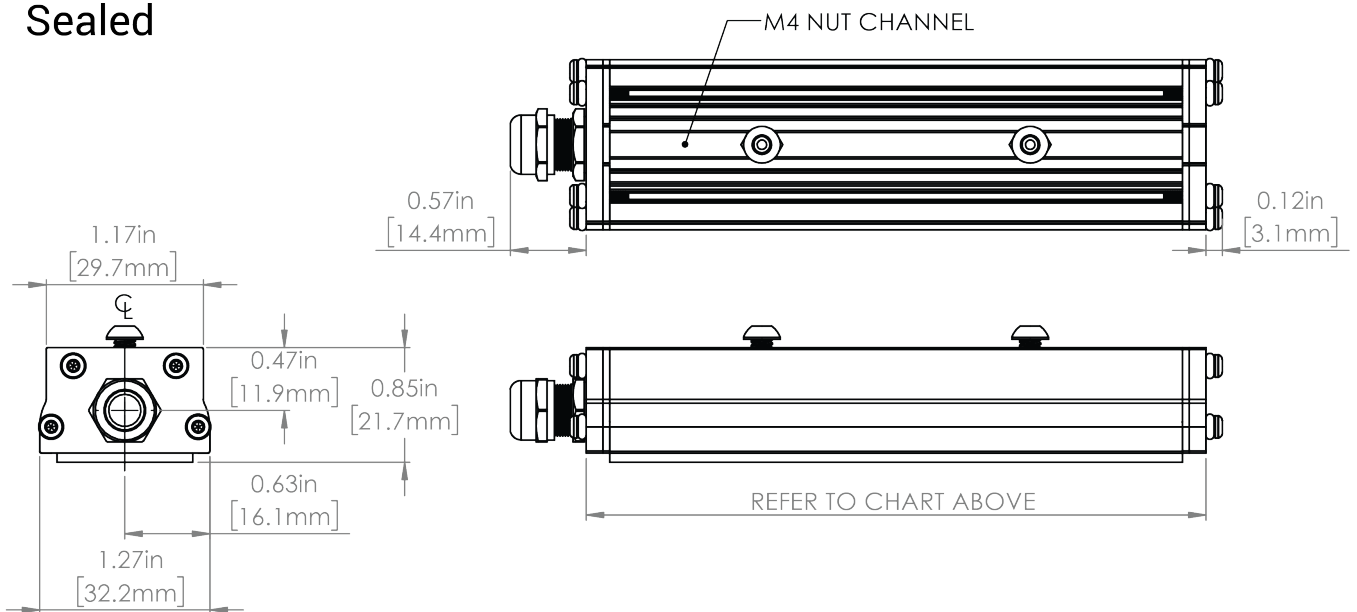
## Sealed

Part #	Length in mm (inches)	
BL31302	66.6	(2.62)
BL31304	117.4	(4.62)
BL31306	168.2	(6.62)
BL31308	219.0	(8.62)
BL31310	269.8	(10.62)
BL31312	320.6	(12.62)
BL31314	371.4	(14.62)
BL31316	422.2	(16.62)
BL31318	473.0	(18.62)
BL31320	523.8	(20.62)

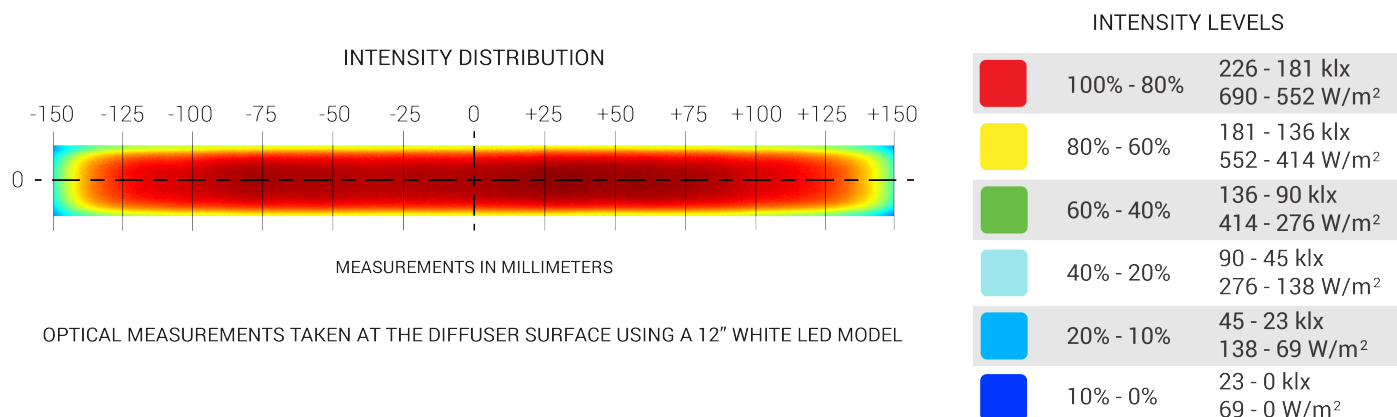
## Non-sealed



## Sealed



## Optical Specs



## Electrical Specs

**ICS 2 (IC)**

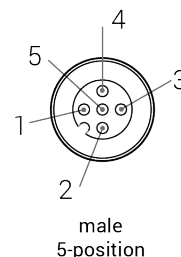
Pin (M12)	Function	Wire Color
1	+24 VDC	Brown
2	0-10 VDC Analog Control	White
3	GND	Blue
4	GLO	Black
5	N/A	Gray

**ICS 3 (I3 and I3S)**

Pin (M12)	Function	Wire Color
1	+24 VDC	Brown
2	GND	White
3	GND	Blue
4	PNP/Active High Trigger	Black
5	0-10 VDC Analog Control	Gray

**24 Volt**

Pin (M12)	Function	Wire Color
1	+24 VDC	Brown
2	N/A	White
3	-24 VDC	Blue
4	N/A	Black
5	N/A	Gray

**Optional M12 Pinout**

## Control Specs

**C1 CONNECTOR**

For use with:  
**DCS Series  
Controllers**  
Strobe/Continuous  
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](mailto:orders@advancedillumination.com).

## Company Information

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