

Product Highlights

- The BL313 Series is a group of versatile linear light sources capable of producing highly diffuse illumination for a wide range of applications.
- These uniform backlights can be used behind the object of interest for line scan applications or as non-directional bar light illuminators for more diffuse general-purpose machine vision lighting.



General Specifications

Part Number Key

Model	Emitting Length (in)	-	Peak Wavelength	Connector/ Control	Washdown Option	-	Alternative Connector
BL313	XX	-	XXX	XX	X	-	XXX
BL313	02" increments from 02" to 20"		455 (royal-blue)	C1	W (IP65)		M8 ¹
			470 (blue)	C5			M12 ¹
			530 (green)	IC			
			590 (amber)	I3			
			625 (red-orange)	I3S			
			850 (IR)	I4			
			940 (IR)	24			
			WHI (white)				

Example Part Numbers:
 BL31312-530IC-M12
 BL31308-WHIC1W

¹Available with IC, I3, I3S, I4 and 24 V

General Specifications

Category	Specification	Detail			
Optical	Available Wavelengths	White, 455 nm, 470 nm, 530 nm, 590 nm, 625 nm, 850 nm, 940 nm			
	Available Lensing	No Lenses			
	Available Light Conditioning	Collimation, Polarizer			
Electrical	Power Consumption Info	None			
	Cable Info	80" -0/+6" Long (2 m -0/+150 mm), 105 °C Rated, Foil Shield w/ Drain			
Mechanical	Sizing Info	Standard	Length	3.15" (80.1mm) to 21.15" (537.2mm)	Refer to Datasheet for Details
		Sealed	Width	1.27" (32.2mm)	
			Height	.85" (21.7mm)	
	Length		3.31" (84.1mm) to 21.31" (541.3mm)		
	Width		1.27" (32.2mm)		
	Height	.85" (21.7mm)			
	Weight Info (Standard)	~ 0.47 lbs (~213 g) per 4" Unit Length			
Mounting Info	M4 Mounting Nut Channel				
Material Info	Anodized Aluminum Housing, Acrylic Window, Nickel Plated Brass Strain Relief, PVC Cable Jacket, Steel Black Oxide, Optional: Silicone Sealant, Neoprene Gasket/ Buna-N Rubber O-Rings				
Thermal	Operating Case Temperatures	25 °C to 60 °C			
	Operating Ambient Temperatures	0 °C to 35 °C			
Certification	Compliance	CE, RoHS, IEC 62471			
	IP Rating	IP50 and IP65			
	Lumen Maintenance - White Only	L70 (50,000 Hours)			

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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