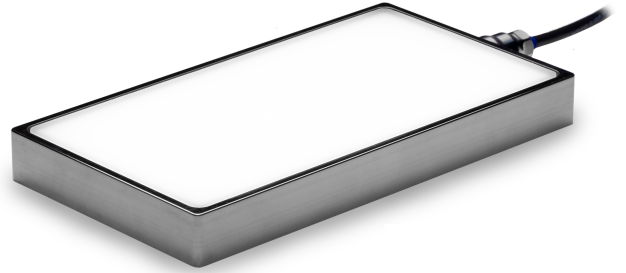


### Product Highlights

- Built for extreme environments, our IP69K certified lights are specifically engineered to withstand everything from prolonged liquid immersion to high-pressure steam cleaning and corrosive washdown solutions.



*\* Patent Pending*

### General Specifications

Electrical Specifications	Color	24V Current	All Other Controls
	470, 520, 660, 880, WHI	0.03A per sq. inch	0.018A Max per sq. inch
Normal Operating Temperature	0-60°C		
Weight	4" x 8" unit - 635g (22.4oz)		
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: 880 Group 1 (Low Risk) Applicable Wavelengths: 470, 520, 660, WHI		
Compliance	CE, RoHS, IEC 62471		
IP Rating	IP69K Certified		
Lumen Maintenance	L70 = 50,000 Hours		

## Part Number Key

Model	-	Emitting Length (in)	Emitting Width (in)	Peak Wavelength	Connector/ Control	Light Conditioning Options	-	Alternative Connector
BL2	-	XX	YY	XXX	XX	X	-	XXX
BL2		1" Increments from 1" to 46"	1" Increments from 1" to 46"	470 (blue)	C1	P (Polarization) <sup>2,3</sup>		M12 <sup>1</sup>
				530 (green)	C5	C (Collimation) <sup>2</sup>		M8 <sup>1</sup>
				625 (red-orange)	IC			
				850 (IR)	I3			
				WHI (white)	I3S			
					I4			
					24			

**Example Part Numbers:**

BL2-1203635I3C-M12

BL2-0808WHI24

<sup>1</sup> Only available with IC, I3, I3S, I4 configurations<sup>2</sup> Only available up to 16" x 16"<sup>3</sup> 470nm will reduce the life of the polarizer if selected

## Change Notice

PCN No: 152

Date Issued: June 15, 2020

Notice Type: Product Revision Change

Product Type: BLXXYY, CBXXYY, FDXXYY, BL128, BL193, BL245

## Change Notification Summary

In an effort to improve our products, Advanced illumination (Ai) will be updating the internal drivers and white LEDs used in the BLXXYY, CBXXYY, FDXXYY, BL128, BL193, and BL245. This change will result in white lights seeing a brightness increase of roughly 70% while maintaining equal pricing for small configurations and reduced pricing for large configurations. Excluding the BL128, 24V configured units will experience a current draw shift from 20mA to 30mA per sq. inch for 470nm, 520nm and white units while controller configured units will see a current draw shift from 15mA to 18mA per sq. inch for the same color configurations. Color temperatures will remain unchanged.

The LED upgrade and internal driver update for white color configurations will take place September 15th. The internal driver updates will occur November 9th for 470nm and January 7th for 520nm.

Please contact your Ai Sales Representative if you have any questions.

PCN 152

PCN No: 169

Date Issued: March 16, 2023

Notice Type: LED Update & New Housing Options

Product Type: BL245

## Change Notification Summary

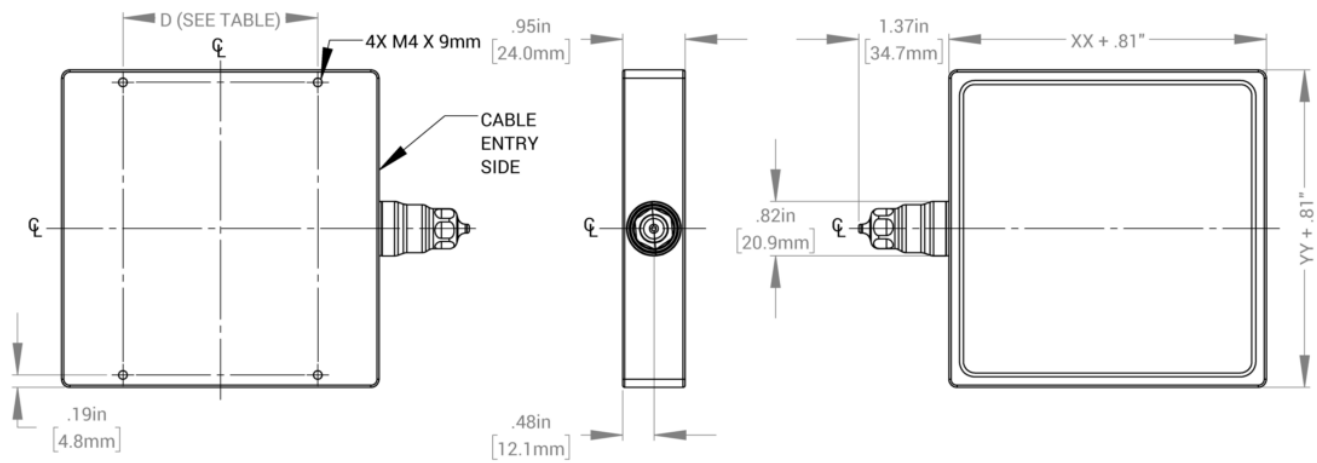
In an effort to improve our products, Advanced illumination (Ai) will update the LEDs used in the BL245 design. This change will result in a light 2-3x brighter at the same price. The conversion will begin on May 1st, 2023. In addition Ai will be adding stainless steel as a housing material choice for those applications that require it. This material will be stocked initially in the following sizes, 4x4, 6x6 and 8x4. Other sizes will be made to order with a 6-8 wks lead time. All part numbers moving forward with include the housing material in the PN. This LED change will result in slightly different wavelengths being available: 470nm, 530nm, 625nm, 850nm and White. Orders for customized (dash numbers) versions of BL245 will be honored until August 1st of 2023. Ai will be actively working with customers for those products to simplify the transition.

Please contact your Ai Sales Representative if you have any questions.

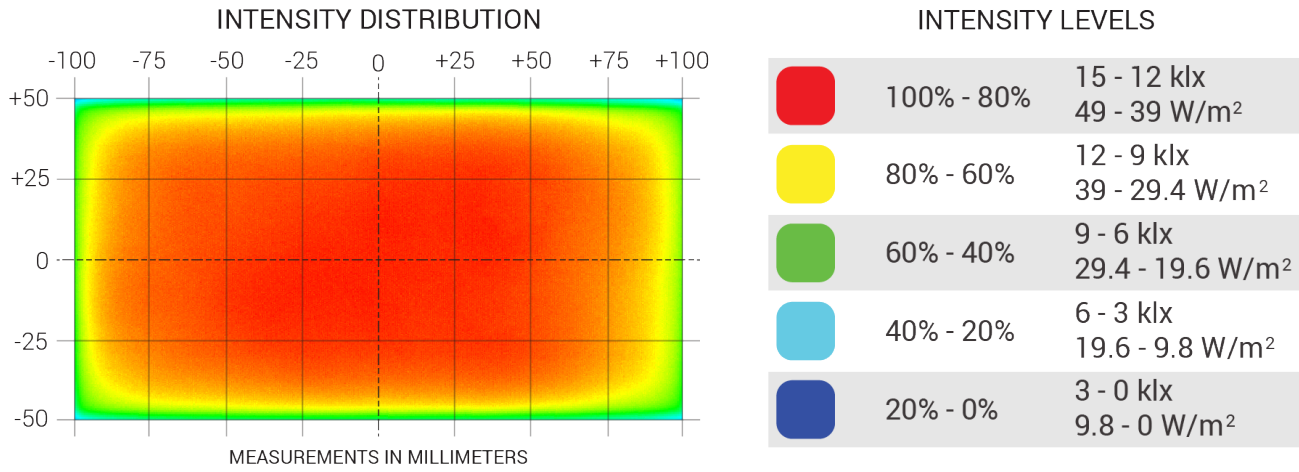
PCN 169

## Mechanical Specs

BL245 LENGTH MATRIX	
CONFIG. (BL245-XXYY)	MOUNTING HOLE DISTANCE CENTER TO CENTER IN INCHES [mm] (D)
02YY, 03YY	1.97 [50 mm]
04YY, 05YY	2.95 [75 mm]
06YY, 07YY	3.94 [100mm]
08YY, 09YY	4.92 [125 mm]
10YY, 11YY	5.90 [150 mm]
12YY	6.89 [175mm]

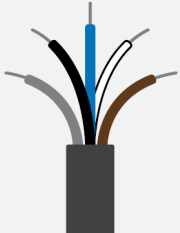


Optical Specs



OPTICAL MEASUREMENTS TAKEN AT THE DIFFUSER SURFACE USING 4" x 8" WHITE LED MODEL

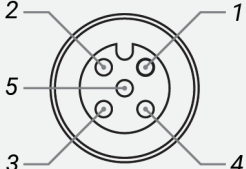
### Standard Flying Lead Functions for 24V, IC, I3, I3S, and I4 Control Options



COLOR	24V FUNCTIONS	IC FUNCTIONS	I3/I3S FUNCTIONS	I4 FUNCTIONS
BROWN	24 V DC	24 V DC	24 V DC	24 V DC
WHITE	N/A	0-10 V ANALOG DIMMING	RESERVED	NPN/ACTIVE LOW TRIGGER
BLUE	DC GND	DC GND	DC GND	DC GND
BLACK	N/A	PNP/ACTIVE LOW GATE	PNP/ACTIVE HIGH TRIGGER	PNP/ACTIVE HIGH TRIGGER
GRAY	N/A	N/A	0-10 V ANALOG DIMMING	0-10 V ANALOG DIMMING

The functions listed above are applicable when this product is configured with built-in 24V, IC, I3, I3S, or I4 control, without the optional A-coded 5-position Male M12 or A-coded 4-position Male M8 connector.

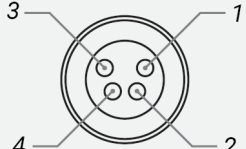
### M12 Connector Pinout Functions for 24V, IC, I3, I3S, and I4 Control Options



PIN	24V FUNCTIONS	IC FUNCTIONS	I3/I3S FUNCTIONS	I4 FUNCTIONS
1	24 V DC	24 V DC	24 V DC	24 V DC
2	N/A	0-10 V ANALOG DIMMING	RESERVED	NPN/ACTIVE LOW TRIGGER
3	DC GND	DC GND	DC GND	DC GND
4	N/A	PNP/ACTIVE LOW GATE	PNP/ACTIVE HIGH TRIGGER	PNP/ACTIVE HIGH TRIGGER
5	N/A	N/A	0-10 V ANALOG DIMMING	0-10 V ANALOG DIMMING

The functions listed above are only applicable when this product is configured with built-in 24V, IC, I3, I3S, or I4 control, with an A-coded 5-position Male M12 connector.

### M8 Connector Pinout Functions for 24V, IC, I3, I3S, and I4 Control Options



PIN	24V FUNCTIONS	IC FUNCTIONS	I3/I3S FUNCTIONS	I4 FUNCTIONS
1	24 V DC	24 V DC	24 V DC	24 V DC
2	N/A	0-10 V ANALOG DIMMING	0-10 V ANALOG DIMMING	0-10 V ANALOG DIMMING
3	DC GND	DC GND	DC GND	DC GND
4	N/A	PNP/ACTIVE LOW GATE	PNP/ACTIVE HIGH TRIGGER	PNP/ACTIVE HIGH TRIGGER

The functions listed above are only applicable when this product is configured with built-in 24V, IC, I3, I3S, or I4 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

<p><b>C1 CONNECTOR</b></p> <p>For use with: <b>DCS Series Controllers</b></p> <p>Strobe/Continuous Controllers</p>	<p><b>C5 CONNECTOR</b></p> <p>For use with: <b>Pulsar 320</b></p> <p>High Power Strobe only Controller</p>	<p><b>ICS 2 (IC)</b></p> <p>In-line Continuous Controller</p> <p>Powered with: <b>24V Power Supply</b></p>	<p><b>ICS 3</b></p> <p>In-line Strobe/ Continuous Controller</p> <p>Default On</p> <p>Powered with: <b>24V Power Supply</b></p>
<p><b>ICS 3S (I3S)</b></p> <p>In-line Strobe/ Continuous Controller</p> <p>Default Off</p> <p>Powered with: <b>24V Power Supply</b></p>	<p><b>I4</b></p> <p>In-line Strobe/ Continuous Controller</p> <p>Powered with: <b>24V Power Supply</b></p>	<p><b>24 VOLT</b></p> <p>Flying/Tinned Leads</p> <p>Powered with: <b>24V Power Supply</b></p>	

## 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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