

BL-S050075 EuroBrite™ Small Backlight

Product Highlights

• This small EuroBrite[™] backlight provides high-intensity illumination at a competitive price point.



General Specifications

	Color	Current	All Other Controls
Electrical Specifications	455, 470, 505, 530, 590, 625, 660, 730, 850, 940, WHI	~0.27A	N/A
Input Voltage Range	24V nom. (min 22/max 28)		
Maximum Input Current	0.42-0.49A		
Strobe/On-Off Control	Up to 5X overdrive, active high		
Analog Intensity Control	Analog 0.7-10V; 0.7V=10% 10V=100%		
Trigger-to-Pulse Latency	10µsec		
Normal Operating Temperature	0 - 60°C		
Weight	92.53g (3.27oz)		
Standard Cable Information	No cable included; see part r M12.	number LC2-M12-5-FX or use	e standard coded 5-pin

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	Exempt Applicable Wavelengths: 850, 940	
Photobiological Risk Factor	Group 1 (Low-Risk) Applicable Wavelengths: 455, 470, 505, 530, 590, 625, 660, 730,	
	WHI	
Compliance	CE, RoHS, IEC 62471	
IP Rating	IP67	
Lumen Maintenance	L70 = 50,000 Hours	

Part Number Key

Model	-	Control	Emitting Width (in)	Emitting Length (Cable Side) (in)	-	Peak Wavelength
BL	-	X	XXX	XXX	-	XXX
BL		S (strobe)	050	075		455 (royal blue) 470 (blue) 505 (cyan) 530 (green) 590 (amber) 625 (red orange) 660 (red) 730 (IR) 850 (IR) 940 (IR) WHI (white)
EX: BL-S050075-WHI BL-S050075-470						

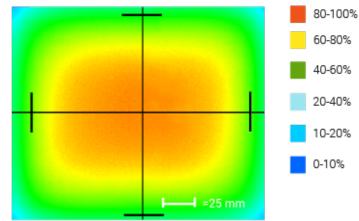
See website product page for in-stock product numbers.

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

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Optical Specs

Intensity Distribution



Optical measurement taken using BL-S050075-WHI

Electrical Specs

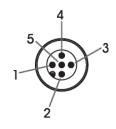
Modes of Operation

Continuous	Strobe	Thermal Foldback	Factory Reset
To enable output: Tie Trigger+ (black) HIGH to >0.5V. The light remains ON as long as Trigger+ is high Analog dimming is available during continuous mode operation: pin 5, gray	EuroBrite [®] S-version uses Adaptive Overdrive [®] to produce overdrive pulses while the Trigger+ is HIGH. Overdrive period occurs for all trigger pulses, but only during the first 5 mSec for those pulse widths longer than 5 mSec; light output can be increased by as much as 5x. Overdriving does not occur when pulses exceed 5 mSec. Analog dimming is available during strobe mode operation: pin 5, gray	To engage Thermal Foldback: Before turning the light on, tie pin 2 (white) to pin 3 (GND, blue). Onboard thermistor is sampled for 5 minutes. Light intensity will automatically adjust based on the case tempurature during the training period. The beginning of training is signified by a series of rapid flashes. While training, the light will blink every two seconds. A few slower blinks signal the end of the training period	To engage Factory Reset: Before turning the light on, tie pin2 (white) to pin 3 (blue). For factory reset to occur, the light must be trained for thermal foldback first. Light will appear dim for 3-5 seconds then brightness will be set to factory default. After factory reset is complete disconnect white wire from blue wire for normal operation (before turning light back on). Tying pin 2 (white) to pin 3 (blue) will alternate between factory reset and thermal foldback modes.

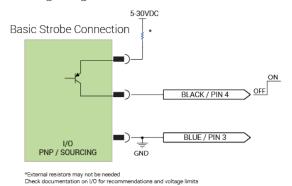
Standard Wiring Information

Pin	Function	Wire Color	Туре
1	24VDC	Brown	Power
2	Thermal Foldback	White	Input
3	GND	Blue	Power
4	Trigger +	Black	Input
5	Analog	Gray	Input

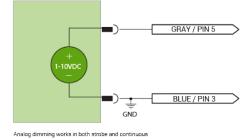
Male 5-Position



Wiring Diagrams



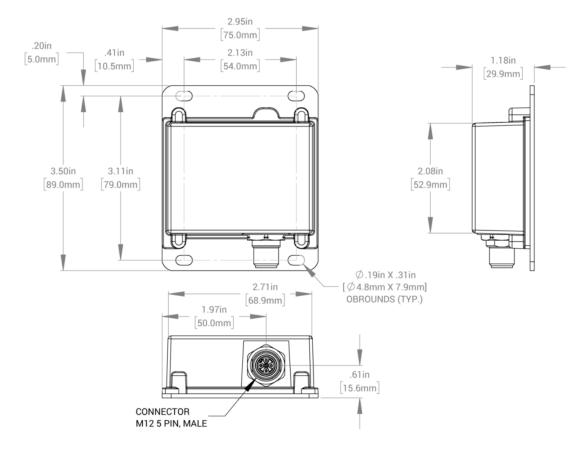
Analog Dimming



Control Specs

On-board controller: See Operation/Wiring

Mechanical Specs



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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. 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

Advanced Illumination

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