SL112

Medium Intensity Spot/Coaxial Light

Product Highlights

- The SL112 is characterized as a Medium Intensity Spot/Coaxial Light and is designed primarily to replace fiber optic light sources in coaxial lensing applications.
- Optional couplers are available for use with Dolan-Jenner, Fostec, and Moritex fiber bundles.



General Specifications

Electrical Specifications	Color	24V Current	All Other Controls
	625	N/A	0.11 A Max
	WHI, 470, 530, 590	N/A	0.28 A Max
Normal Operating Temperature	0 - 60°C		
Weight	39.7g (1.4oz)		
Standard Cable Information	2 m long -0/+150 mm (80" -0/+6") - 105°C rated PVC jacket, foil shield with drain.		
Photobiological Risk Factor	Group 1 (Low-Risk) Applicable Wavelengths: WHI, 470, 530, 590, 625		
Compliance	CE, RoHS, IEC 62471		
IP Rating	IP50		
Lumen Maintenance	L70 = 50,000 Hours		

Part Number Key

Model	–	Peak Wavelength	Connector/ Control	–	Alternative Connector
SL112	–	XXX	XX	–	XXX
SL112		470 (blue)	C1		M8[1]
		530 (green)	C5		M12[1]
		590 (amber)	IC		
		625 (red orange)	I3		
		WHI (white)	I3S		

EX:
SL112-470C1
SL112-625I3-M12

[1] Available with IC, I3, and I3S options only

See website product page for in-stock product numbers.

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

Change Notice

PCN No: 172

Date Issued: 7/14/25
Notice Type: Product Revision Change
Product Type: SL073 & SL112

Change Notification Summary

In an effort to improve our products, Advanced illumination (Ai) will update the LEDs used in the SL073 & SL112 design. This change will result in a brighter, more uniform light at the same price*. Customers may still buy the current revision of this model until October 14, 2025. After that time, orders for these products will be converted to their respective SL073 & SL112 Revison A models.

This LED change will result in additional wavelengths being available: 455nm, 505nm, 660nm, 730nm, and 940nm.

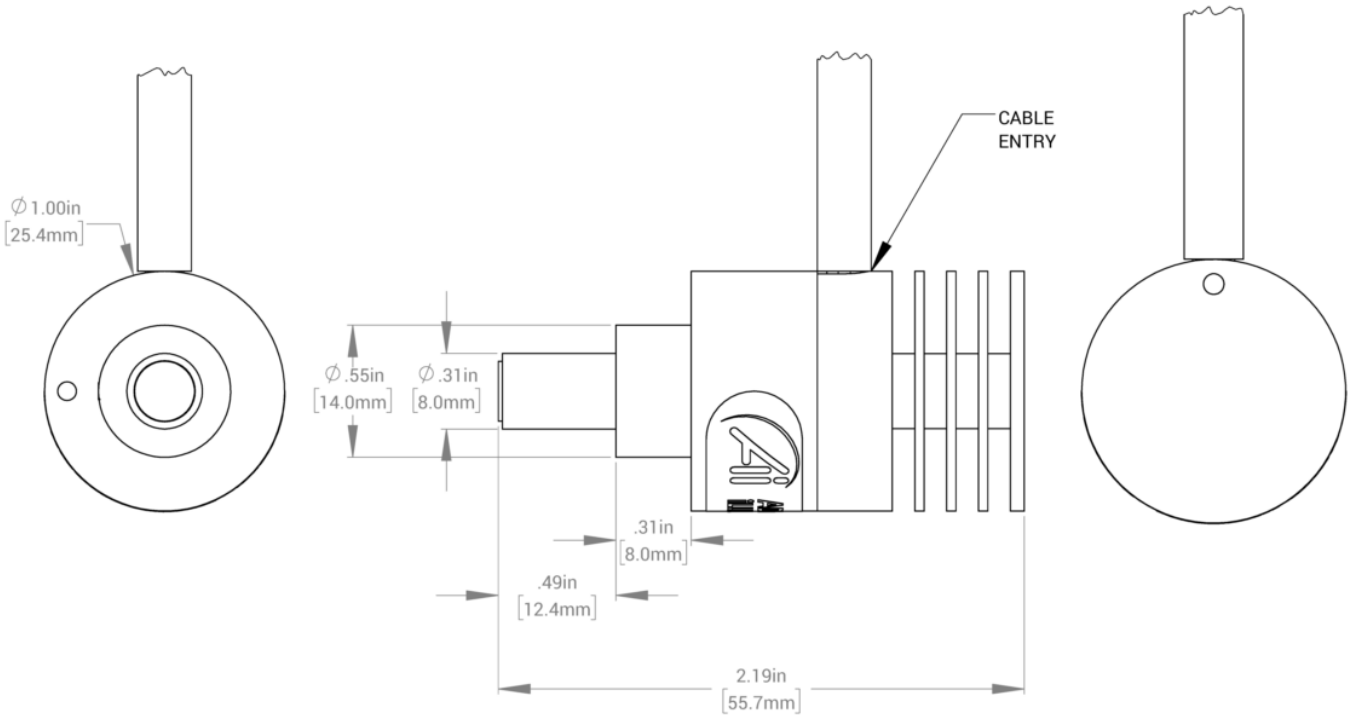
*Visable and IR wavelengths that did not exist will prior will be sold at the same list price as similar wavelengths.

Orders for customized (dash numbers) versions of SL073 & SL112 will be honored until January 14, 2026. 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.

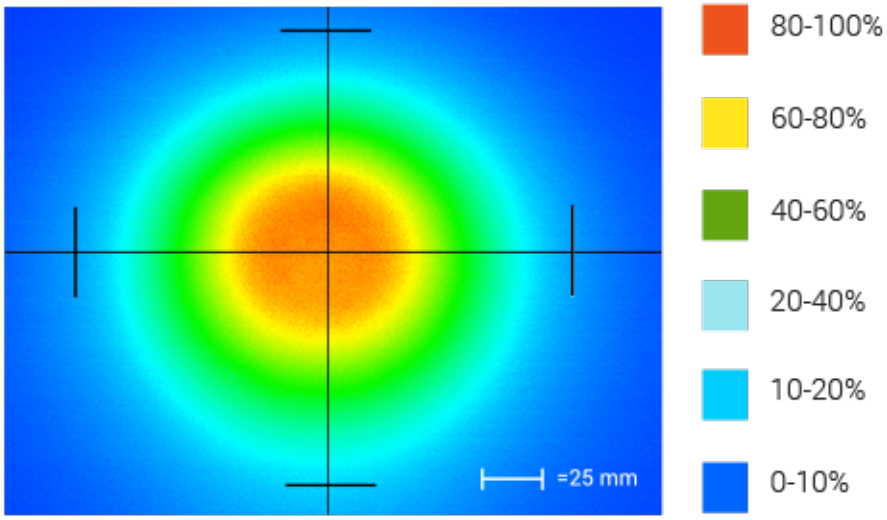
PCN 172

Mechanical Specs



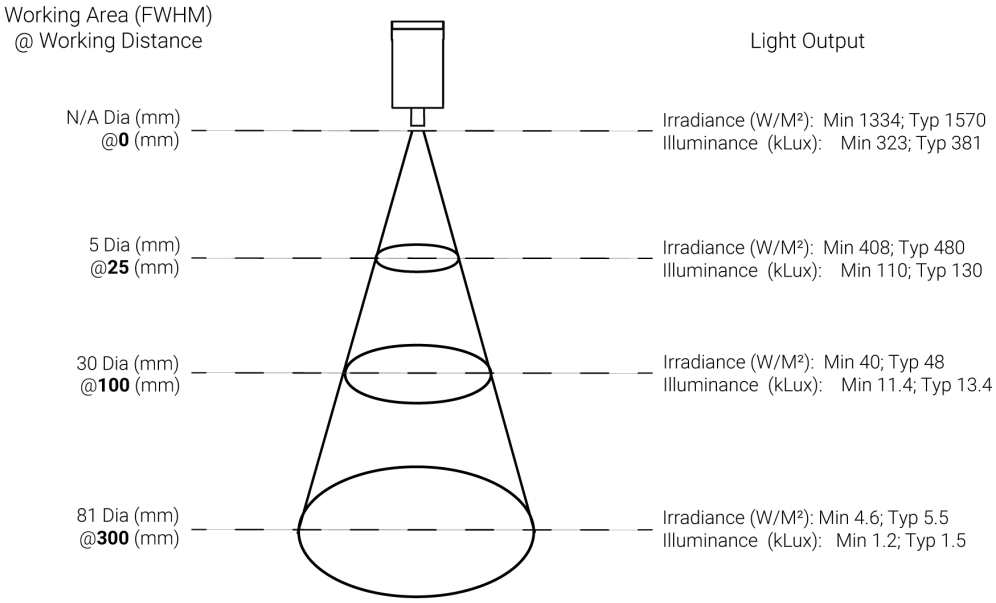
Optical Specs

Intensity Distribution



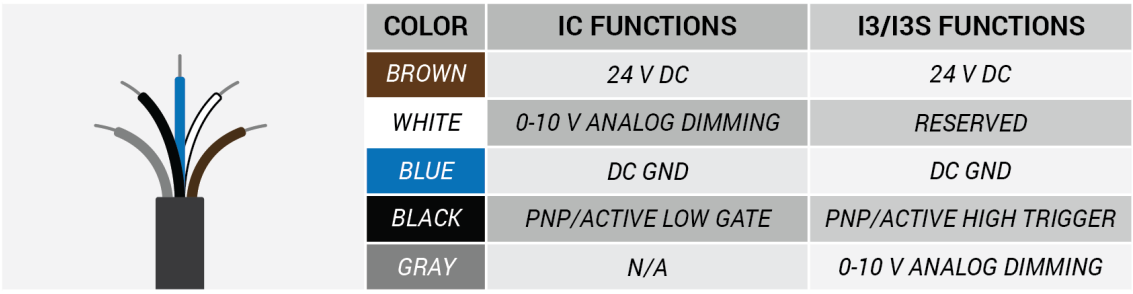
Optical measurement taken using SL112-WHIIC @ 300 mm

Area of Illuminance & Intensity



Electrical Specs

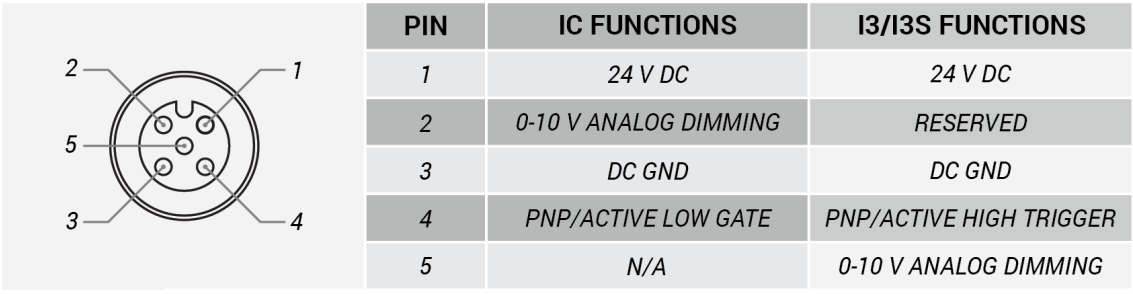
Standard Flying Lead Functions for IC, I3 and I3S Control Options



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

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

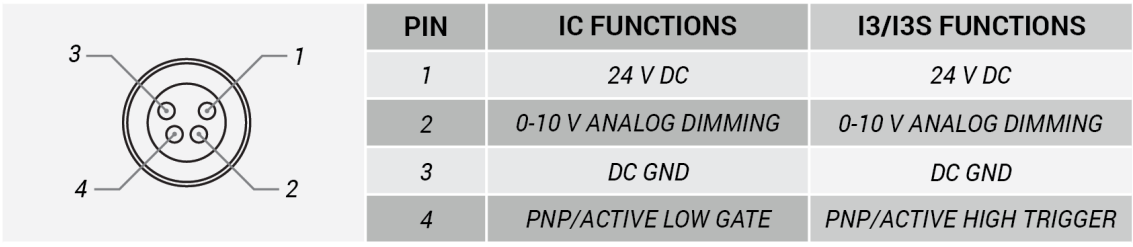
M12 Connector Pinout Functions for IC, I3 and I3S Control Options



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

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

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



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

*The functions listed above are only applicable when this product is configured with built-in 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	C5 Connector	ICS 2 (IC)	ICS 3 (I3)	ICS 3S (I3S)
For use with: **DCS Series Controllers**	*For use with:* **Pulsar 320 Strobe Controller.**	Continous in-line controller *Powered with:* **24V power supply**	Combination strobe/continous in-line controller *Powered with:* **24V power supply**	Default-OFF strobe/continous in-line controller *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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