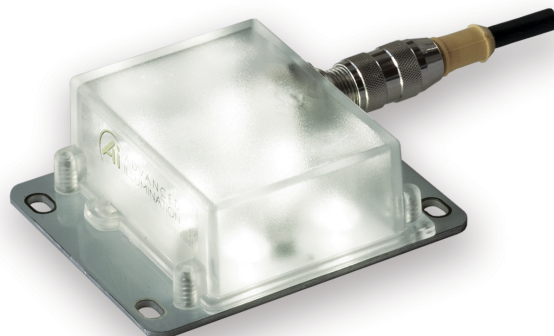


### Product Highlights

- This small EuroBrite™ spot light provides high-intensity illumination at a competitive price point.
- Refer to the full description for more detail.



### General Specifications

|                              | Color                                                                            | Current | All Other Controls |
|------------------------------|----------------------------------------------------------------------------------|---------|--------------------|
| Electrical Specifications    | 455, 470, 505, 530, 590, 625, 660, 730, 850, 940, WHI                            | ~0.27 A | N/A                |
| Input Voltage Range          | 24V nom. (min 22/max 28)                                                         |         |                    |
| Maximum Input Current        | 0.42A - 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 number LC2-M12-5-FX or use standard coded 5-pin M12. |         |                    |

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                                     | — | Mode          | Emitting Width<br>(Cable Side) (mm) | Emitting Length<br>(Cable Side) (mm) | Lens Type                        | —                                                | Peak<br>Wavelength                                                                                                                                             |
|-------------------------------------------|---|---------------|-------------------------------------|--------------------------------------|----------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SL                                        | — | X             | XX                                  | XX                                   | XXX                              | —                                                | XXX                                                                                                                                                            |
| SL                                        |   | S<br>(Strobe) | 050                                 | 075                                  | M<br>(Medium)<br><br>W<br>(Wide) |                                                  | 455 (royal blue)<br>470 (blue)<br>505 (cyan)<br>530 (green)<br>590 (amber)<br>625 (red orange)<br>660 (red)<br>730 (IR)<br>850 (IR)<br>940 (IR)<br>WHI (white) |
| EX:<br>SL-S050075M-WHI<br>SL-S050075W-470 |   |               |                                     |                                      |                                  | Beam Angle (FWHM):<br>Medium = 21°<br>Wide = 32° |                                                                                                                                                                |

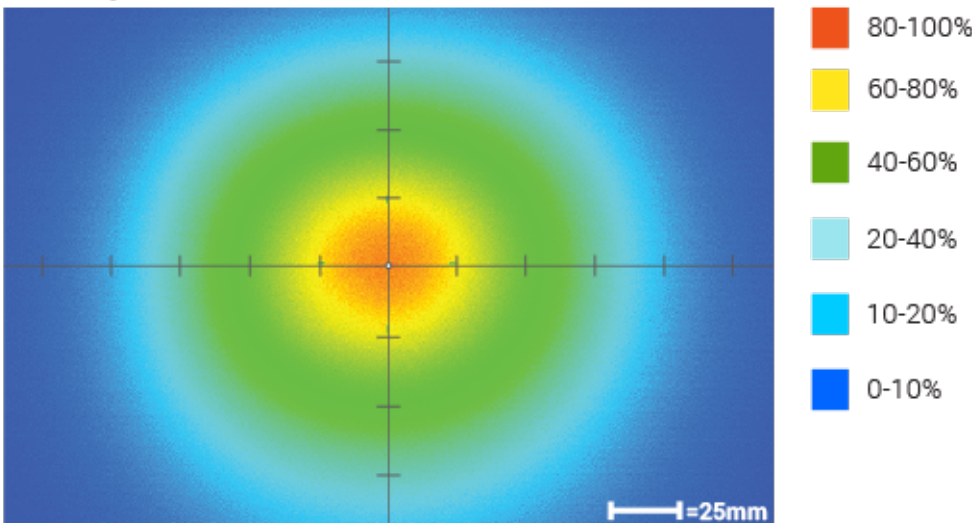
See website product page for in-stock product numbers.

## Shipping:

Stock Products: within three days

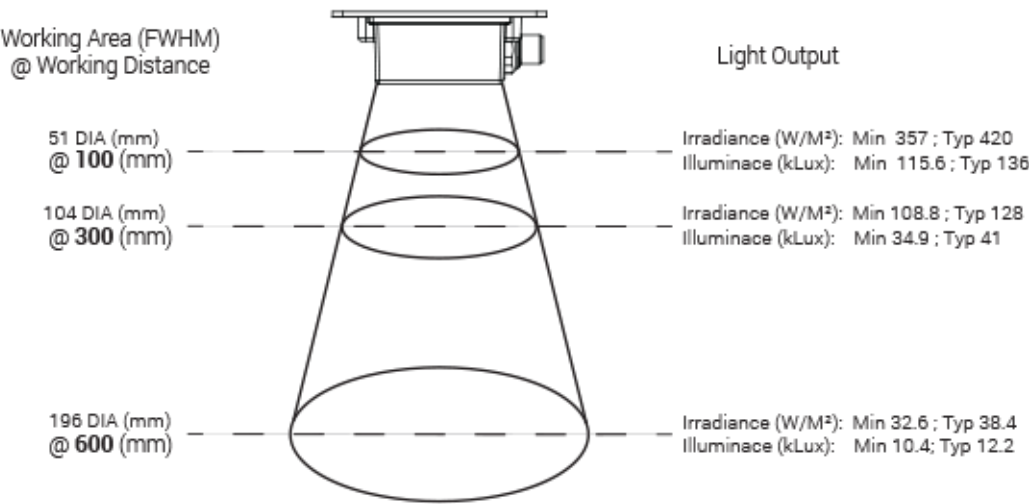
Build-to-Order Products: within one to three weeks

Intensity Distribution



Optical measurement taken using SL-S050075M-WHI @ 300 mm

Area of Illuminance & Intensity



Electrical Specs

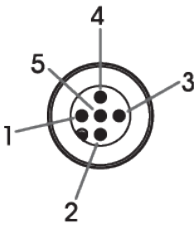
Modes of Operation

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

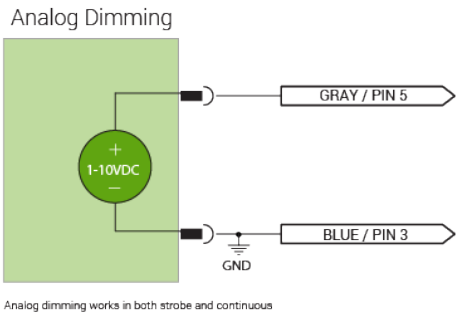
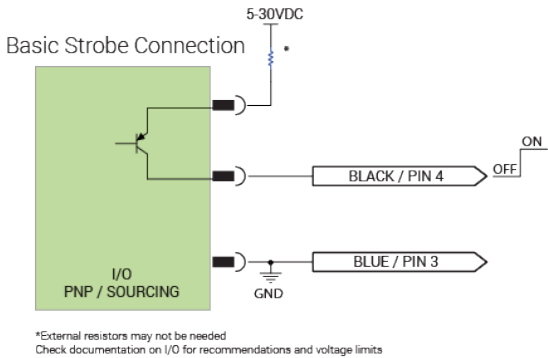
Standard Wiring Information

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

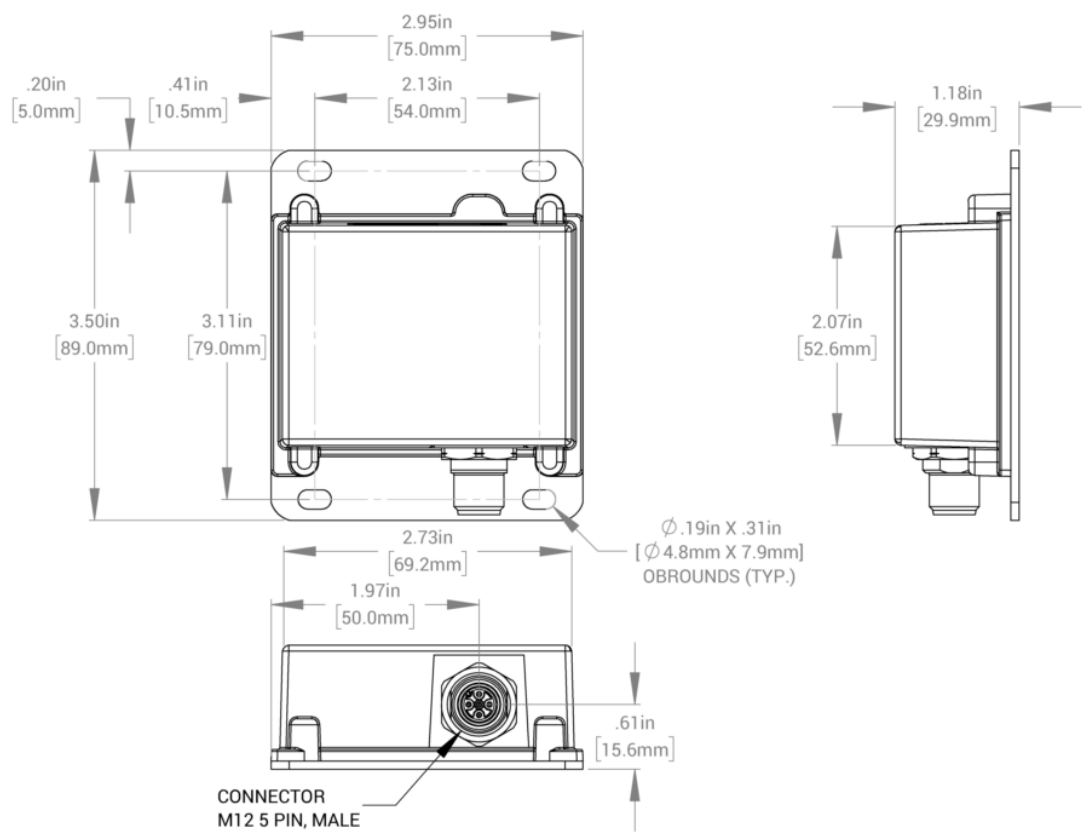
Male 5-Position



Wiring Diagrams



Mechanical Specs



## 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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