

### Product Highlights

- This High Intensity Spot Light is engineered for long throw and high brightness illumination.
- Designed to replace our previous SL185 with 3X the brightness (110Klux @ 300mm).



### General Specifications

|                              | Color   | 24V Current | All Other Controls |
|------------------------------|---|-------------|--------------------|
| Electrical Specifications    | 455   | 0.32A       | 0.37A              |
|                              | WHI, 475, 505, 530  | 0.32A       | 0.55A              |
|                              | 590, 625, 660, 730  | 0.32A       | 0.51A              |
|                              | 850, 940  | 0.32A       | 0.40A              |
| Normal Operating Temperature | 0 - 60°C  |             |                    |
| Weight                       | 567g (20 oz.)   |             |                    |
| 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: 850, 940<br>Group 1 (Low-Risk) Applicable Wavelengths: 455, 470, 505, 530, 590, 625, 660, 730, WHI |             |                    |
| Compliance                   | CE, RoHS, IEC 62471   |             |                    |
| IP Rating                    | Not Rated   |             |                    |
| Lumen Maintenance            | L70 = 50,000  |             |                    |

## Part Number Key

| Model  | —        | Spectral Wavelength | Connector/Control  | —        | Alternative Connector |
|--|----------|---------------------|--|----------|-----------------------|
| <b>SL246</b>                                     | <b>—</b> | <b>XXX</b>          | <b>XX</b>  | <b>—</b> | <b>XXX</b>            |
| SL246  |          | WHI (white)         | C1   |          | M12 <sup>1</sup>      |
|  |          | 455 (royal blue)    | C5   |          |                       |
|  |          | 470 (blue)          | IC   |          |                       |
|  |          | 505 (cyan)          | I3   |          |                       |
|  |          | 530 (green)         | I3S  |          |                       |
|  |          | 590 (amber)         | 24   |          |                       |
|  |          | 625 (red orange)    |  |          |                       |
|  |          | 660 (red)           |  |          |                       |
|  |          | 730 (IR)            |  |          |                       |
|  |          | 850 (IR)            |  |          |                       |
|  |          | 940 (IR)            |  |          |                       |
| Ex: <b>SL246-WHIC1</b><br><b>SL246-660I3-M12</b> |          |                     | <sup>1</sup> Available with IC, I3, and I3S options only |          |                       |

**Stock Product:** *shipped within three days*  
SL246-WHIIC

**Build to Order:** *shipped within two weeks*

## Electrical Specs

### ICS 2 (IC)

| Pin (M12) | Function                   | Wire Color |
|-----------|----------------------------|------------|
| 1         | +24 VDC                    | Brown      |
| 2         | 0-10 VDC<br>Analog Control | White      |
| 3         | GND                        | Blue       |
| 4         | GLO                        | Black      |
| 5         | N/A                        | Gray       |

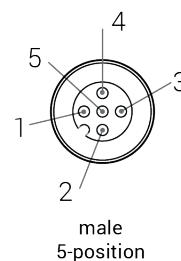
### ICS 3 (I3 and I3S)

| Pin (M12) | Function                | Wire Color |
|-----------|-------------------------|------------|
| 1         | +24 VDC                 | Brown      |
| 2         | GND                     | White      |
| 3         | GND                     | Blue       |
| 4         | PNP/Active High Trigger | Black      |
| 5         | 0-10 VDC Analog Control | Gray       |

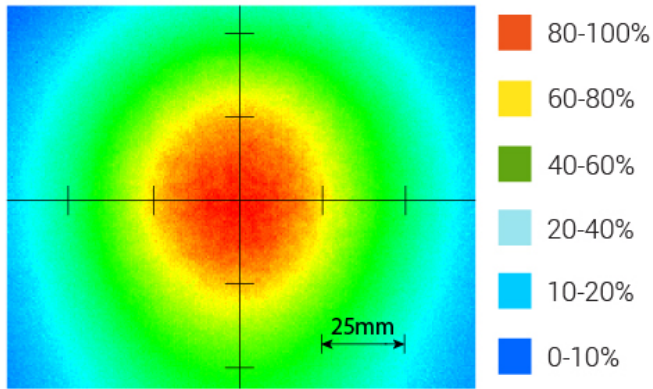
### 24 Volt

| Pin (M12) | Function | Wire Color |
|-----------|----------|------------|
| 1         | +24 VDC  | Brown      |
| 2         | N/A      | White      |
| 3         | -24 VDC  | Blue       |
| 4         | N/A      | Black      |
| 5         | N/A      | Gray       |

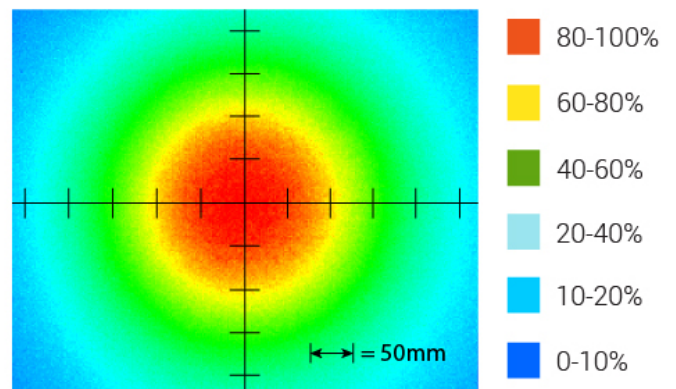
### Optional M12 Pinout



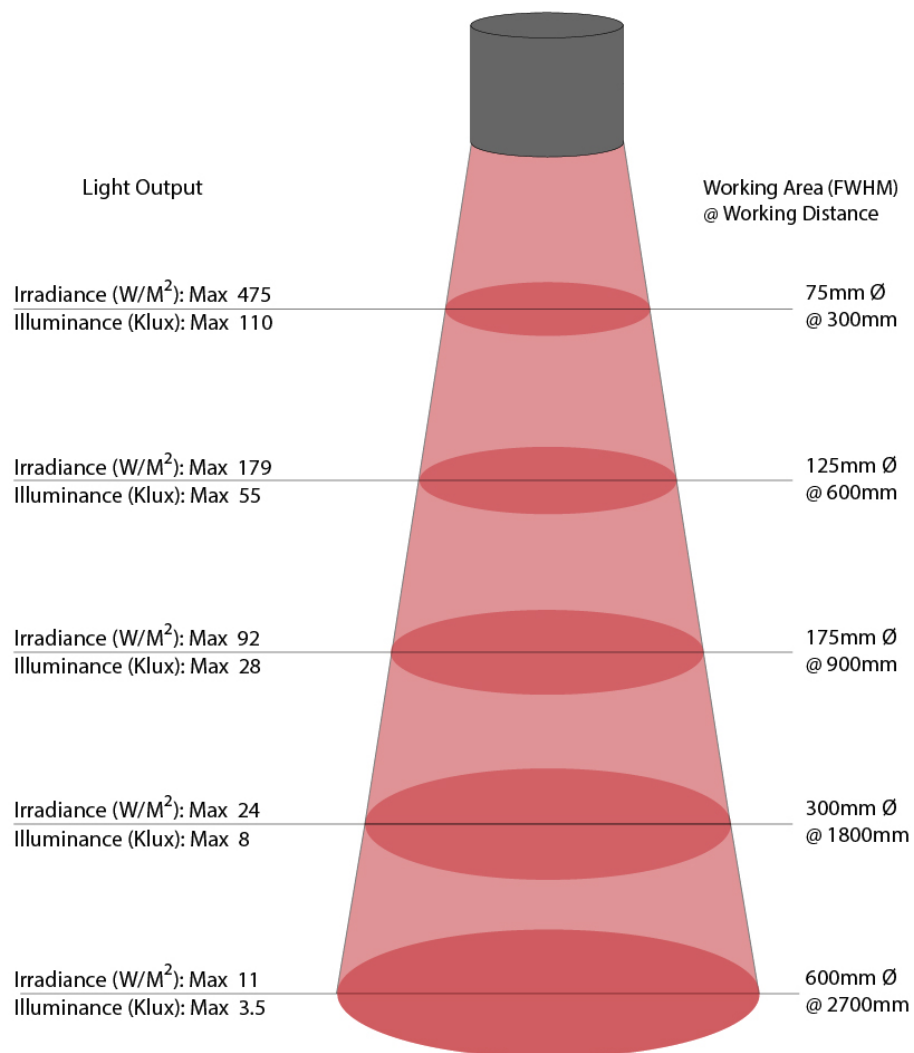
### Intensity Distribution



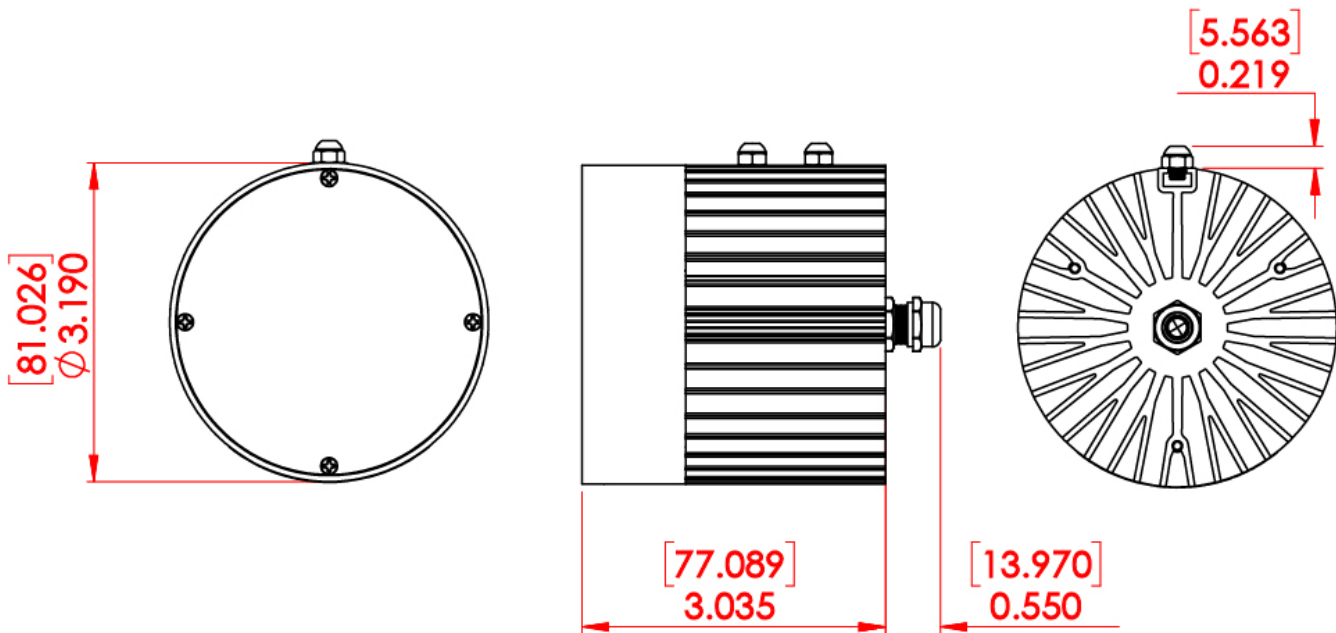
Optical measurement taken using SL246-WHIIC @ 300 mm



Optical measurement taken using SL246-WHIIC @ 1800 mm



## Mechanical Specs



DIMENSIONS ARE IN INCHES [MILLIMETERS]

## Control Specs

| C1 CONNECTOR   | C5 CONNECTOR   | ICS 2 (IC)  | ICS 3 (I3)  | ICS 3S (I3S)   | 24 VOLT   |
|--|--|---|---|--|---|
| For use with:<br>DCS Series<br>Controllers<br>Strobe/Continuous<br>Controllers | For use with:<br>Pulsar 320<br>High Power<br>Strobe Only<br>Controller | In-line Continuous<br>Controller<br><br>Powered with:<br>24V Power Supply | In-line Strobe/<br>Continuous Controller<br>Default On<br><br>Powered with:<br>24V Power Supply | In-line Strobe/<br>Continuous Controller<br>Default Off<br><br>Powered with:<br>24V Power Supply | Flying/Tinned<br>Leads<br><br>Powered with:<br>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](mailto:orders@advancedillumination.com).

## Company Information

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