




### Product Highlights

- Compact light head provides efficient thermal management to promote long LED life
- Available in a wide range of wavelengths



### General Specifications

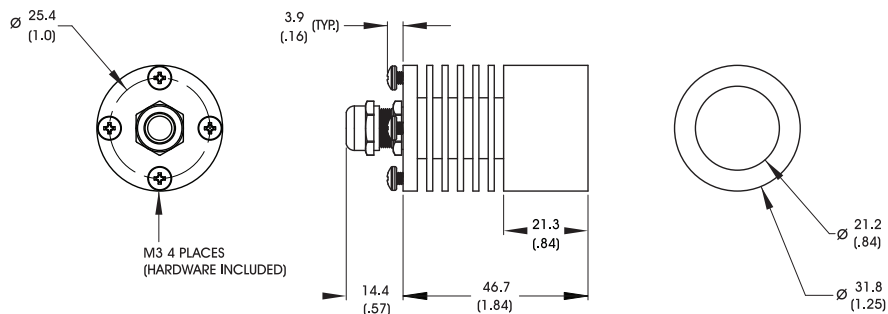
|  | Color   | 24v Current         | All Other Controls |
|--|---|---------------------|--------------------|
| Electrical Specifications                | WHI   | 0.09 A <sup>1</sup> | 0.23 A Max         |
|  | 405, 455, 470, 505, 530, 590, 625, 660  | 0.16 A <sup>1</sup> | 0.25 A Max         |
|  | 365, 375, 385, 395  | 0.06 A <sup>1</sup> | 0.08 A Max         |
|  | 730, 850  | 0.14 A <sup>1</sup> | 0.10 A Max         |
|  | 940   | 0.14 A <sup>1</sup> | 0.15 A Max         |
| Normal Operating Temperature             | 0 - 60°C  |                     |                    |
| Weight (g)                               | 81.6 g (2.9 oz)   |                     |                    |
| Standard Cable Information               | Up to 2 meters (80") long - 105°C rated PVC jacket, foil shield with drain.   |                     |                    |
| Photobiological Risk Factor<br>IEC 62471 | <b>Exempt Applicable Wavelengths:</b> 850, 940<br><b>Group 1 (Low-Risk) Applicable Wavelengths:</b> 455, 470, 505, 530, 590, 625, 660, 730, WHI<br><b>Group 2 (Moderate Risk) Applicable Wavelengths:</b> 365, 375, 385, 395, 405                           |                     |                    |
| Compliance                               |    |                     |                    |
| IP Rating                                | IP64  |                     |                    |
| Lumen Maintenance                        | L70 = 50,000 hours  |                     |                    |

<sup>1</sup> The "24V" model of this light has an internal driver which regulates the output current. The driver includes a 0-10VDC control for analog dimming along with the standard 24V input power leads.

Do not connect the 24V model to anything other than a voltage-mode DC power supply. Attempting to connect the 24V version to any 3rd party driver, controller, or current source may cause damage to the light or internal driver.

See the wiring and specification for more information.

## Mechanical Specifications



DIMENSIONS ARE IN MILLIMETERS (INCHES)

## Part Number Key

| Model                                | Lens Option <sup>2</sup>  | — | Spectral Wavelength  | Connector/Control   | Optional Light Conditioning  | — | Alternative Connector |
|--------------------------------------|---|---|--|---|------------------------------|---|-----------------------|
| SL164                                | X   | — | XXX  | XX  | X                            | — | XXX                   |
| SL164                                | M (medium)<br>W (wide)<br><small>(narrow lens comes standard when left blank)<sup>3</sup></small> |   | (UV) 365 <sup>3</sup><br>(UV) 375 <sup>3</sup><br>(UV) 385 <sup>3</sup><br>(UV) 395 <sup>3</sup><br>(violet) 405<br>(royal blue) 455<br>(blue) 470<br>(cyan) 505<br>(green) 530<br>(amber) 590<br>(red orange) 625<br>(red) 660<br>(IR) 730<br>(IR) 850<br>(IR) 940<br>(white) WHI | C1<br>C5<br>IC<br>I3<br>I3S<br>24   | D <sup>4</sup><br>(diffuser) |   | M12 <sup>1</sup>      |
| Ex: SL164-WHIC1D<br>SL164M-505I3-M12 |   |   |  | <sup>1</sup> Available with IC, I3, I3S and 24v options only<br><sup>2</sup> Beam angle (FWHM):<br>narrow = 8°<br>medium = 21°<br>wide = 33°<br><sup>3</sup> UV wavelengths only available in standard narrow lens option<br><sup>4</sup> Not available with UV options |                              |   |                       |

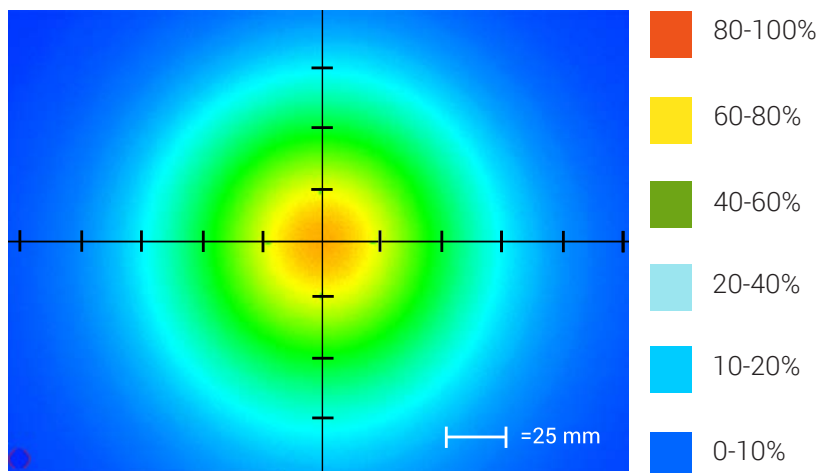
**Stock Product:** *shipped within 3 days*    **Build to Order:** *shipped within two weeks*  
 SL164-WHI24

## Connector | Control Options

| C1 Connector                               | C5 Connector                                      | ICS 2 (IC)  | ICS 3 (I3)  | ICS 3S (I3S)  | 24   |
|--|---|---|---|---|--|
| For use with:<br>DCS Series<br>Controllers | For use with:<br>Pulsar 320 Strobe<br>Controller. | Continuous in-line<br>controller<br><br>Powered with:<br>24V power supply | Combination<br>strobe/continuous<br>in-line controller<br><br>Powered with:<br>24V power supply | Default-OFF<br>strobe/continuous<br>in-line controller<br><br>Powered with:<br>24V power supply | Flying/tinned leads<br><br>Powered with:<br>24V power supply |

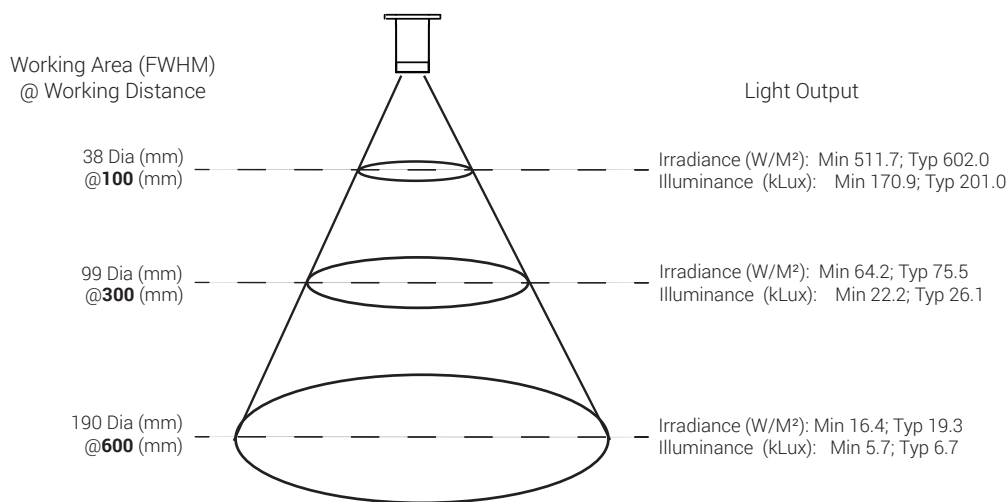
## Optical Performance

### Intensity Distribution



Optical measurement taken using SL164-WHIIC Rev. A @ 300 mm

### Area of Illuminance & Intensity



## Operation and Wiring

### ICS 2 (IC)

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

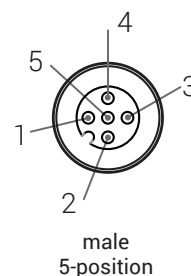
### ICS 3 (I3 and I3S)

| Pin (M12) | Function                | Wire Color |
|-----------|-------------------------|------------|
| 1         | +24 VDC                 | Brown      |
| 2         | Reserved                | 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



## 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 two years from the original date of purchase. Should a defect develop during this period, please contact Ai Customer Service or your Ai distributor for a Return Merchandise Authorization (RMA), and return the complete product, freight prepaid, to Ai. If a defect is found, Ai will - at our discretion - repair or replace the product without charge. Ai claims no liability for any implied warranties, including "merchantability" and "fitness for a specific purpose."

## 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, EST or send an email to [orders@advill.com](mailto:orders@advill.com).

## Company Information

### Advanced Illumination

440 State Garage Road, Rochester VT. 05767

Phone: 802.767.3830

Fax: 802.767.3831

Email: [info@advancedillumination.com](mailto:info@advancedillumination.com)

Web: [advancedillumination.com](http://advancedillumination.com)

© 2015 Advanced Illumination Inc. All rights reserved