

Product Highlights

- A structured LED light projector featuring a large cluster of high-intensity LEDs in a focused, homogeneous Spot Light.
- With significantly higher output intensity, the SL256 is up to 9x brighter than the existing SL191 Pattern Projecting Spot Light and more than 3x brighter than the leading competitive structured light projector.



General Specifications

| | Color | 24V Current | All Other Controls |
|-----------------------------|--|-------------|--------------------|
| Electrical Specifications | 455, 530, 625 | N/A | .592A Max |
| | WHI | N/A | .794A Max |
| Max Case Temperature | 60°C @ 25°C Ambient | | |
| Ambient Temperature Range | 0-50°C | | |
| Weight | 362.9 g (12.8 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 | Group 1 (Low-Risk) Applicable Wavelengths: 455, 530, 625, WHI | | |
| Compliance | CE, RoHS, IEC 62471 | | |
| IP Rating | IP 50 | | |
| Lumen Maintenance | WHI: L70=60,000 hours | | |
| | 455, 530, 625: L70=100,000 hours | | |

Part Number Key

| Model | — | Peak Wavelength | Connector/Control | — | Reticle Option | — | Alternative Connector |
|---------------------|-------------|-----------------|---|------------------|----------------|------------------|-----------------------|
| SL256 | — | XXX | XX | — | XXX | — | XXX |
| SL256 | 455 (blue) | | C1 | ROL ² | | M8 ¹ | |
| | 530 (green) | | C5 | (Single Line) | | M12 ¹ | |
| | 625 (red) | | IC | RCH ² | | | |
| | WHI (white) | | I3 | (Cross-Hair) | | | |
| | | | I3S | RED ² | | | |
| | | | | (Edge) | | | |
| | | | | RML ² | | | |
| | | | (Multiple Line) | | | | |
| | | | | RGR ² | | | |
| | | | | (Grid) | | | |
| | | | | | | | |
| EX: | | | ¹ Available with IC and I3 options only | | | | |
| SL256-WHIIC-RED | | | ² See Reticle Table for detailed information | | | | |
| SL256-625C1-ROL-M12 | | | | | | | |

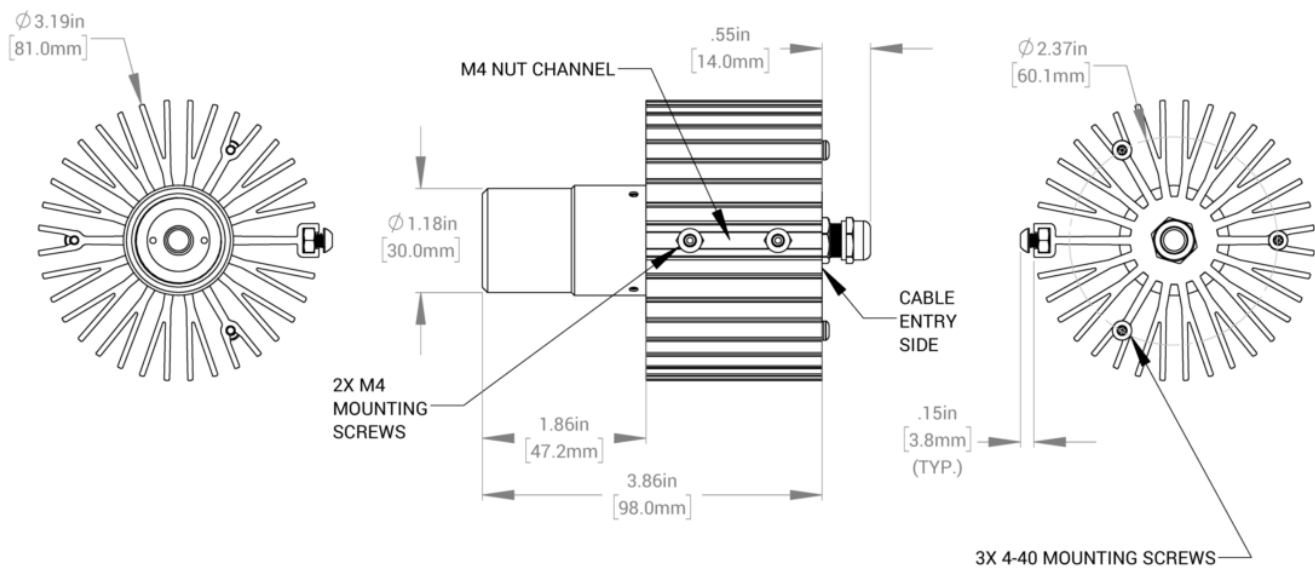
See website product page for in-stock product numbers.

Shipping:

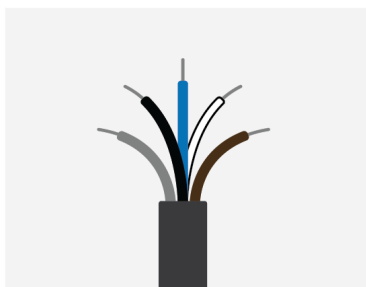
Stock Products: within three days

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

Mechanical Specs

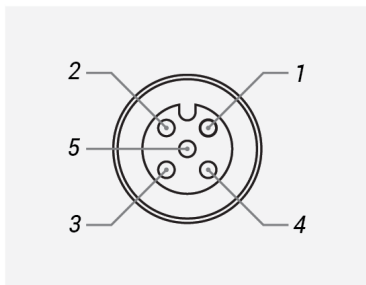


Standard Flying Lead Functions for IC, I3 and I3S Control Options

|  | 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 |

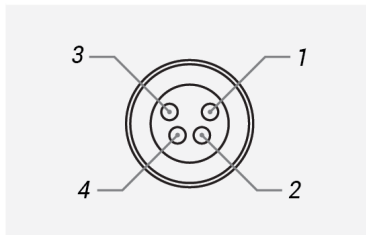
The functions listed above are applicable when this product is configured with built-in IC, I3, or I3S control, **without** the optional A-coded 5-position Male M12 or A-coded 4-position Male M8 connector.

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.

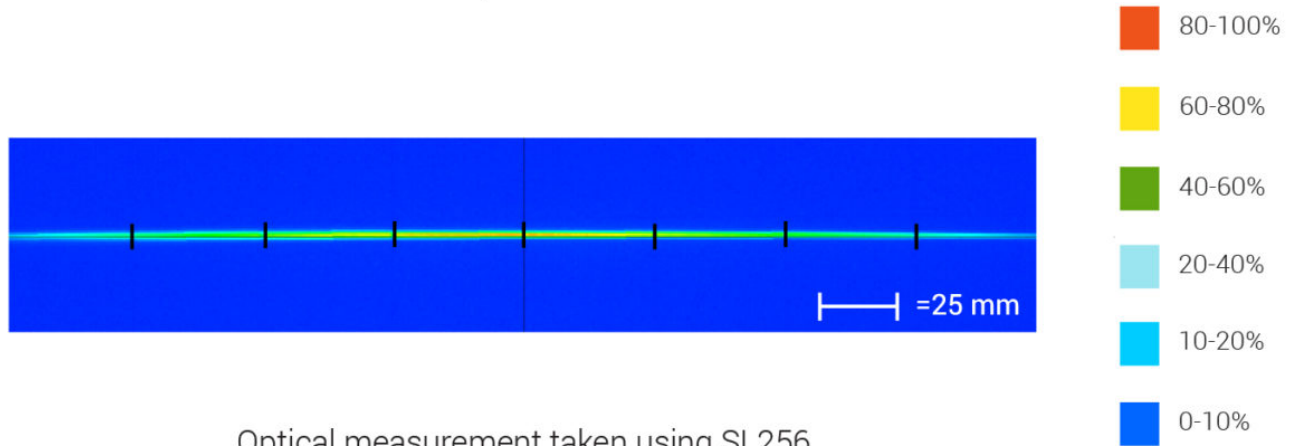
M8 Connector Pinout Functions for IC, I3 and I3S Control Options

|  | 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.

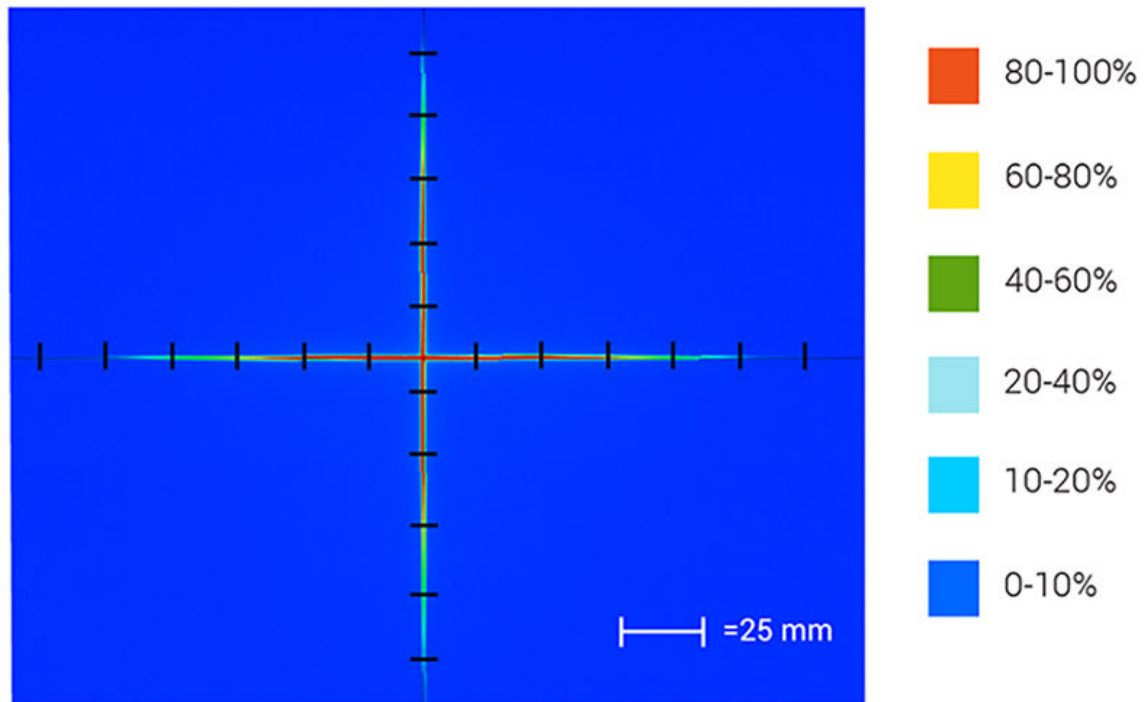
For details on operating configurations without built-in control (C1, C5, Q1, and Q4 control, when available), please refer to Advanced illumination's controller manuals.

Intensity Distribution



Optical measurement taken using SL256
with 25mm lens @ 600mm

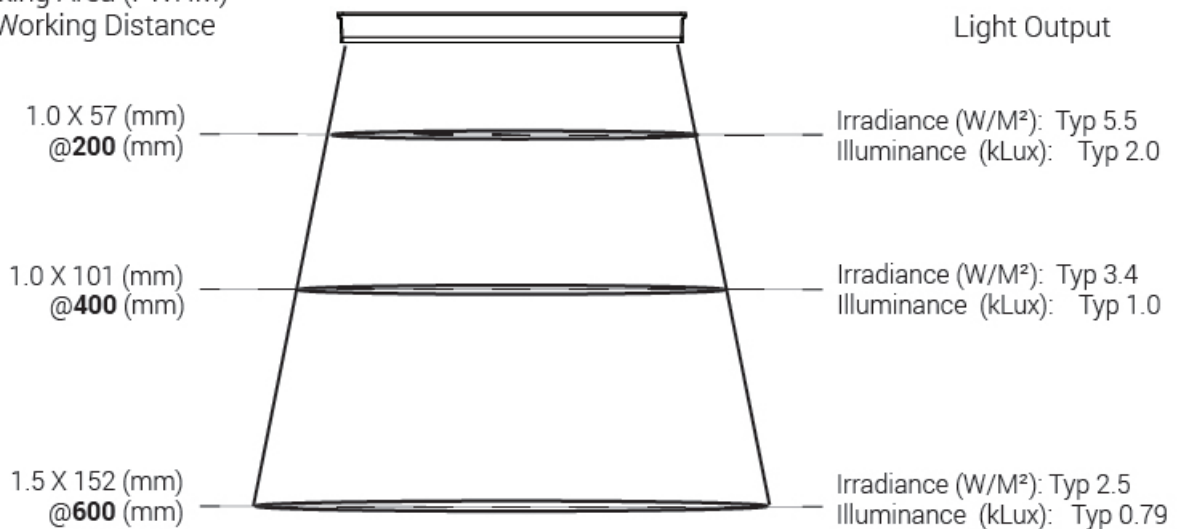
Intensity Distribution



Optical measurement taken using SL256 RCH Cross Hair & 25mm lens @ 600mm

Optical Cone

Working Area (FWHM)
@ Working Distance



Control Specs

C1 CONNECTOR

For use with:
DCS Series
Controllers
Strobe/Continuous
Controllers

C5 CONNECTOR

For use with:
Pulsar 320
High Power
Strobe Only
Controller

ICS 2 (IC)

In-line Continuous
Controller

Powered with:
24V Power Supply

ICS 3 (I3)

In-line Strobe/
Continuous Controller
Default On

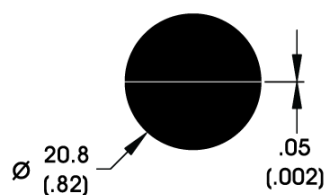
Powered with:
24V Power Supply

ICS 3S (I3S)

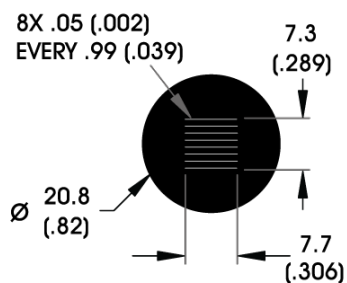
In-line Strobe/
Continuous Controller
Default Off

Powered with:
24V Power Supply

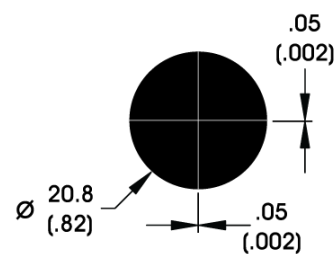
Reticle Specs



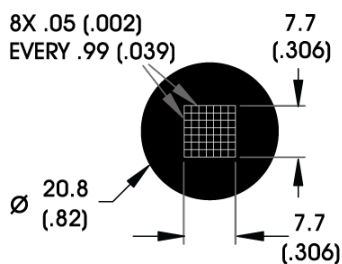
ROL
Single Line



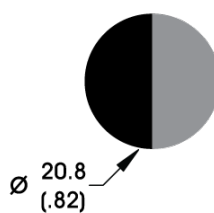
RML
Multiple Line



RCH
Cross-hair

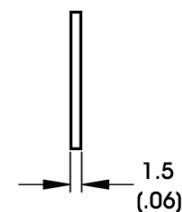


RGR
Grid



RED
Edge

Side View



RKT

5 Reticle Kit - includes: ROL, RCH, RML, RED, and RGR

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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