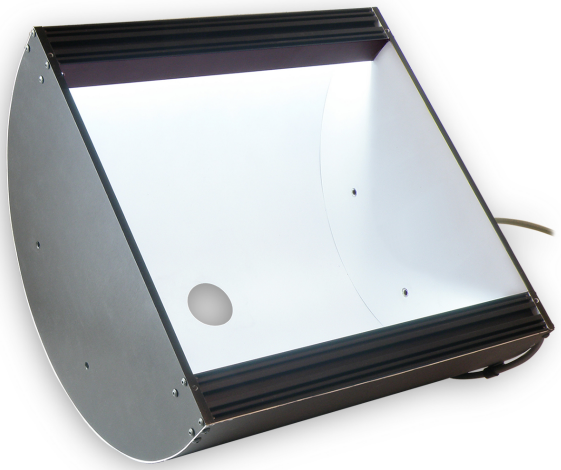
# DL067 Series

## Wide Linear Diffuse Lights

## Product Highlights

- The Wide Linear Diffuse Light series is ideal for the inspection of elongated or cylindrical objects and can be customized for up to 4 viewing ports.



## General Specifications

| | | | |
|---|---|---|---|
| Electrical Specifications | Color | 24V Current | All Other Controls |
| | 455, 470, 505, 530, WHI | 0.65 A Per 6" | 0.50 A Per 6" Max |
| | 590, 625, 660, 730 | 0.65 A Per 6" | 0.33 A Per 6" Max |
| | 850, 940 | 0.65 A Per 6" | 0.45 A Per 6" Max |
| Normal Operating Temperature | 0 - 60°C | | |
| Weight | DL067X06: 1162g (41oz) (2.55lb)<br>DL067X12: 2608g (92oz) (5.75lb)<br>DL067X18: 4054g (143oz) (8.95lb)<br>DL067X24: 5500g (194oz) (12.15lb)<br>DL067X30: 6974g (246oz) (15.35lb)<br>DL067X36: 8420g (297oz) (18.55lb) | | |
| 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 Hours |

## Part Number Key

| Model | View Port | Emitting Length (in) | - | Peak Wavelength | Connector/ Control | - | Alternative Connector |
|---|---|---|---|---|---|---|---|
| DL067 | X | XX | - | XXX | XX | - | XXX |
| DL067 | A (1 Hole) | 06" increments from 06" to 36" | | 455 (royal blue) | C1 | | M12[1] |
| | B (2 Holes) | | | 470 (blue) | C5 | | M8[1] |
| | C (3 Holes) | | | 505 (cyan) | IC[2] | | |
| | D (4 Holes) | | | 530 (green) | I3[2] | | |
| | | | | 590 (amber) | I3S[2] | | |
| | | | | 625 (red orange) | I4 | | |
| | | | | 660 (red) | 24 | | |
| | | | | 730 (IR) | | | |
| | | | | 850 (IR) | | | |
| | | | | 940 (IR) | | | |
| | | | | WHI (white) | | | |

**Example Part Number:**
**DL067B06-625C1**
**DL067C12-WHII3**

[1]Available with IC, I3, I3S, and 24 V options only
[2]Maximum length: 12"

## Control Specs

| C1 CONNECTOR | C5 CONNECTOR | ICS 2 (IC) | ICS 3 |
|---|---|---|---|
| For use with: **DCS Series Controllers**<br><br>Strobe/Continuous Controllers | For use with: **Pulsar 320**<br><br>High Power Strobe only Controller | In-line Continuous Controller<br><br>Powered with: **24V Power Supply** | In-line Strobe/ Continuous Controller<br>Default On<br>Powered with: **24V Power Supply** |

| ICS 3S (I3S) | I4 | 24 VOLT |
|---|---|---|
| In-line Strobe/ Continuous Controller<br>Default Off<br>Powered with: **24V Power Supply** | In-line Strobe/ Continuous Controller<br><br>Powered with: **24V Power Supply** | Flying/Tinned Leads<br><br>Powered with: **24V Power Supply** |

## Change Notice

PCN No: 142

Date Issued: 7/11/17

Notice Type: Product Revision Change

Product Type: DL067

Change Notification Summary

In an effort to improve our products, Advanced illumination (Ai) will update the LEDs used in the DL067 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 13th, 2017. After that time, orders for these products will be converted to their respective DL067 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.

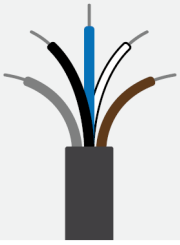
Orders for customized (dash numbers) versions of DL067 will be honored until January 12th, 2018. Ai will be actively working with customers for those products to simplify the transition.

Please contact your Ai Sales Representative if you have any questions.

PCN 142 DL067

## Electrical Specs

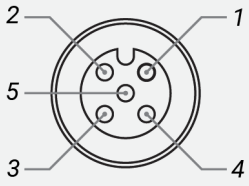
### Standard Flying Lead Functions for 24V, IC, I3, I3S, and I4 Control Options



| COLOR | 24V FUNCTIONS | IC FUNCTIONS | I3/I3S FUNCTIONS | I4 FUNCTIONS |
|---|---|---|---|---|
| BROWN | 24 V DC | 24 V DC | 24 V DC | 24 V DC |
| WHITE | N/A | 0-10 V ANALOG DIMMING | RESERVED | NPN/ACTIVE LOW TRIGGER |
| BLUE | DC GND | DC GND | DC GND | DC GND |
| BLACK | N/A | PNP/ACTIVE LOW GATE | PNP/ACTIVE HIGH TRIGGER | PNP/ACTIVE HIGH TRIGGER |
| GRAY | N/A | N/A | 0-10 V ANALOG DIMMING | 0-10 V ANALOG DIMMING |

*The functions listed above are applicable when this product is configured with built-in 24V, IC, I3, I3S, or I4 control, without the optional A-coded 5-position Male M12 or A-coded 4-position Male M8 connector.*

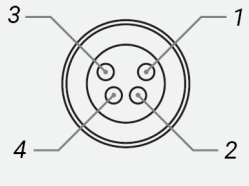
### M12 Connector Pinout Functions for 24V, IC, I3, I3S, and I4 Control Options




| PIN | 24V FUNCTIONS | IC FUNCTIONS | I3/I3S FUNCTIONS | I4 FUNCTIONS |
|---|---|---|---|---|
| 1 | 24 V DC | 24 V DC | 24 V DC | 24 V DC |
| 2 | N/A | 0-10 V ANALOG DIMMING | RESERVED | NPN/ACTIVE LOW TRIGGER |
| 3 | DC GND | DC GND | DC GND | DC GND |
| 4 | N/A | PNP/ACTIVE LOW GATE | PNP/ACTIVE HIGH TRIGGER | PNP/ACTIVE HIGH TRIGGER |
| 5 | N/A | N/A | 0-10 V ANALOG DIMMING | 0-10 V ANALOG DIMMING |

*The functions listed above are only applicable when this product is configured with built-in 24V, IC, I3, I3S, or I4 control, with an A-coded 5-position Male M12 connector.*

### M8 Connector Pinout Functions for 24V, IC, I3, I3S, and I4 Control Options




| PIN | 24V FUNCTIONS | IC FUNCTIONS | I3/I3S FUNCTIONS | I4 FUNCTIONS |
|---|---|---|---|---|
| 1 | 24 V DC | 24 V DC | 24 V DC | 24 V DC |
| 2 | N/A | 0-10 V ANALOG DIMMING | 0-10 V ANALOG DIMMING | 0-10 V ANALOG DIMMING |
| 3 | DC GND | DC GND | DC GND | DC GND |
| 4 | N/A | PNP/ACTIVE LOW GATE | PNP/ACTIVE HIGH TRIGGER | PNP/ACTIVE HIGH TRIGGER |

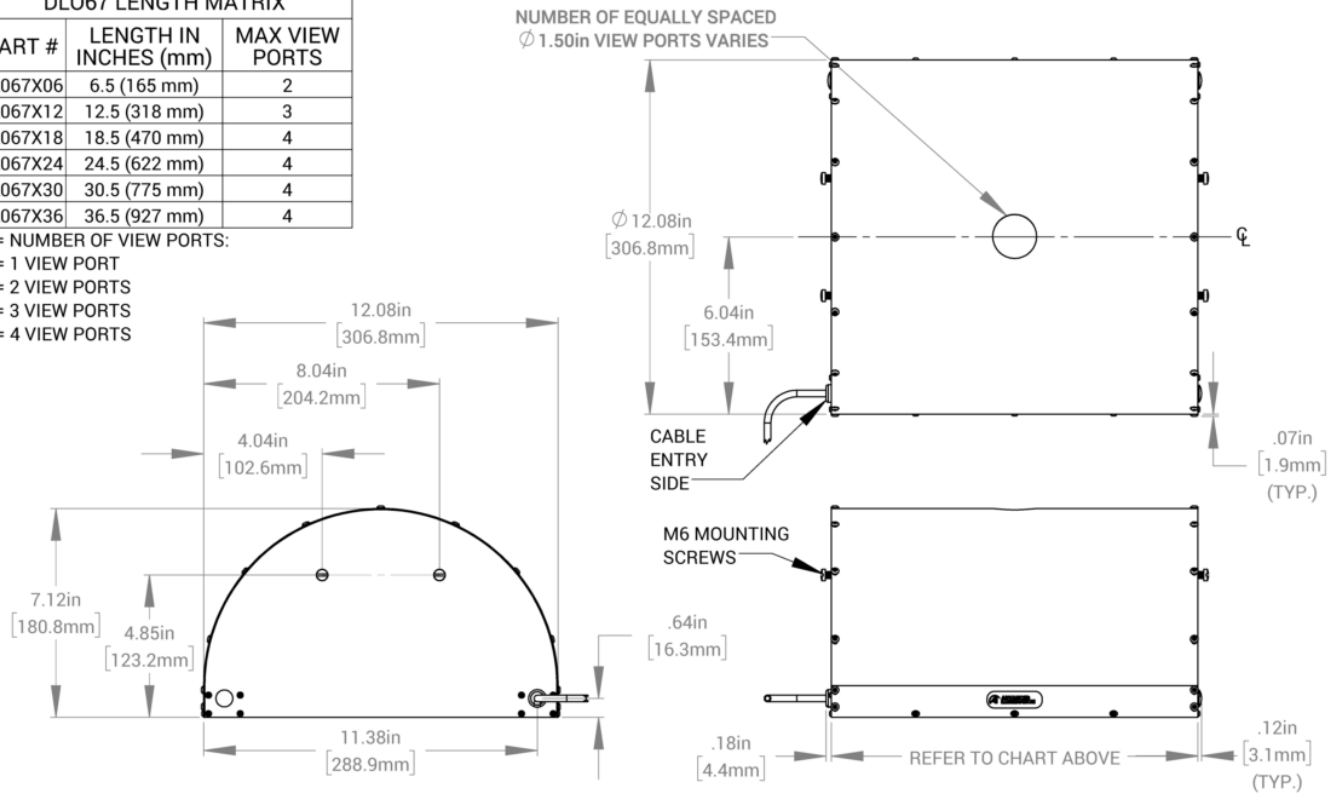
*The functions listed above are only applicable when this product is configured with built-in 24V, IC, I3, I3S, or I4 control, with an A-coded 4-position Male M8 connector.*

*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.*

## Mechanical Specs

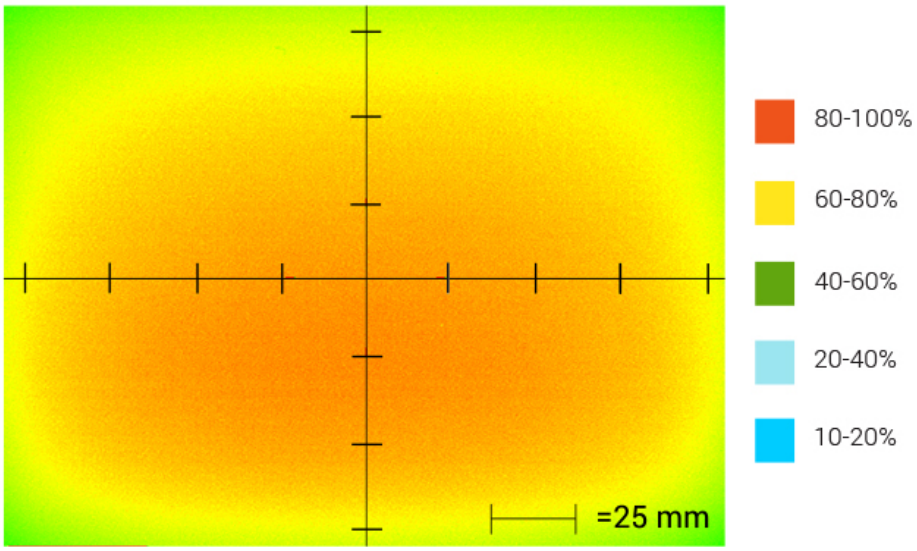
| DLO67 LENGTH MATRIX | | |
|---|---|---|
| PART # | LENGTH IN INCHES (mm) | MAX VIEW PORTS |
| DL067X06 | 6.5 (165 mm) | 2 |
| DL067X12 | 12.5 (318 mm) | 3 |
| DL067X18 | 18.5 (470 mm) | 4 |
| DL067X24 | 24.5 (622 mm) | 4 |
| DL067X30 | 30.5 (775 mm) | 4 |
| DL067X36 | 36.5 (927 mm) | 4 |

X = NUMBER OF VIEW PORTS:
A = 1 VIEW PORT
B = 2 VIEW PORTS
C = 3 VIEW PORTS
D = 4 VIEW PORTS



## Optical Specs

### Intensity Distribution

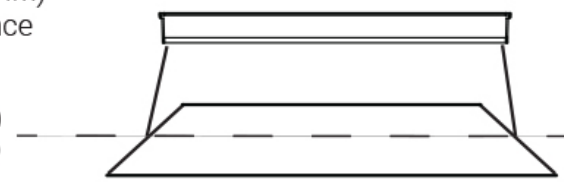



Optical measurement taken using DL067A12-WHIIC Rev. A @ 25mm

### Area of Illuminance & Intensity

Working Area (FWHM)
@ Working Distance

241 x 305 (mm)
@**25** (mm)



Light Output

Irradiance (W/M²): Min 24.0; Typ 28.2
Illuminance (kLux): Min 8.5; Typ 10.0

## 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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