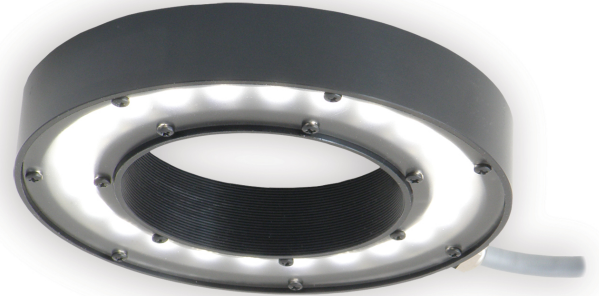


### Product Highlights

- The RL127 is characterized as a Large High Dispersion Bright Field ring light.
- Non-lensed LEDs disperse light at broad angles, providing "soft" lighting for applications that require short to medium working distances.



### General Specifications

	Color	24V Current	All Other Controls
Electrical Specifications	365, 375, 385, 395, 405	0.48A	0.48A Max
	455, 470, 530, WHI	0.48A	0.48A Max
	590, 625	0.24A	0.50A Max
	850, 940	0.48A	0.60A Max
Normal Operating Temperature	0 - 60°C		
Weight	308g (10.9)		
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 Group 1 (Low-Risk) Applicable Wavelengths: 455, 470, 530, 590, 625, WHI Group 2 (Moderate-Risk) Applicable Wavelengths: 365, 375, 385, 395, 405		
Compliance	CE, RoHS, IEC 62417		
IP Rating	IP67		
Lumen Maintenance	L70 = 50,000 Hours		

## Part Number Key

Model	—	Peak Wavelength	Connector/Control	Light Conditioning Option	—	Alternative Connector
RL127	-	XXX	XX	X	-	XXX
RL127		395 (UV)	C1	D <sup>2</sup>		M8 <sup>1</sup>
		375 (UV)	C5	(Diffuser)		M12 <sup>1</sup>
		385 (UV)	IC	P <sup>2</sup>		
		395 (UV)	I3	(Polarizer)		
		405 (violet)	I3S			
		455 (royal blue)	24			
		470 (blue)				
		530 (green)				
		590 (amber)				
		625 (red orange)				
		850 (IR)				
		940 (IR)				
		WHI (white)				
EX:		<sup>1</sup> Available with IC, I3, I3S, and 24 V options only				
RL127-470C5D		<sup>2</sup> Not available with UV options; 470 (blue) will reduce the life of the polarizer				
RL127-WHI24P-M12						

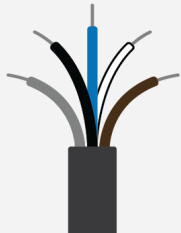
See website product page for in-stock product numbers.

**Shipping:**

Stock Products: within three days

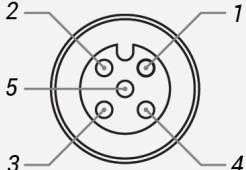
Build-to-Order Products: within one to three weeks

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

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

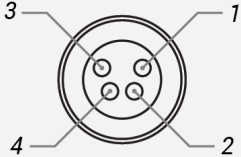
The functions listed above are applicable when this product is configured with built-in 24V, IC, I3, or I3S control, **without** the optional A-coded 5-position Male M12 or A-coded 4-position Male M8 connector.

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

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

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

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

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

The functions listed above are only applicable when this product is configured with built-in 24V, 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.

## Control Specs

C1 Connector	C5 Connector	ICS 2 (I2)	ICS 3 (I3)	ICS 3S (I3S)	24
<i>For use with:</i> <b>DCS Series Controllers</b>	<i>For use with:</i> <b>Pulsar 320 Strobe Controller.</b>	Continous in-line controller  <i>Powered with:</i> <b>24V power supply</b>	Combination strobe/continous in-line controller  <i>Powered with:</i> <b>24V power supply</b>	Default-OFF strobe/continous in-line controller  <i>Powered with:</i> <b>24V power supply</b>	Flying/tinned leads  <i>Powered with:</i> <b>24V power supply</b>

## Change Notice

PCN No: 135

Date Issued: September 23, 2016

Notice Type: Product Revision Change

Product Type: RL127

### Change Notification Summary

In an effort to improve our products, Advanced illumination (Ai) will update the LEDs used in the RL127 design. This change will result in a brighter, more uniform light. Customers may still buy the current revision of this model until December 16th of 2016. After that time, orders for these products will be converted to their respective RL127 Revision A models.

This LED change will result in additional wavelengths being available: 365nm, 375nm, 385nm, 395nm, 405nm, 455nm, 505nm, 530nm, 590nm, 660nm, 730nm, 850nm and 940nm. Additionally the white LED color temperture will be changing from 6100K to 5000K.

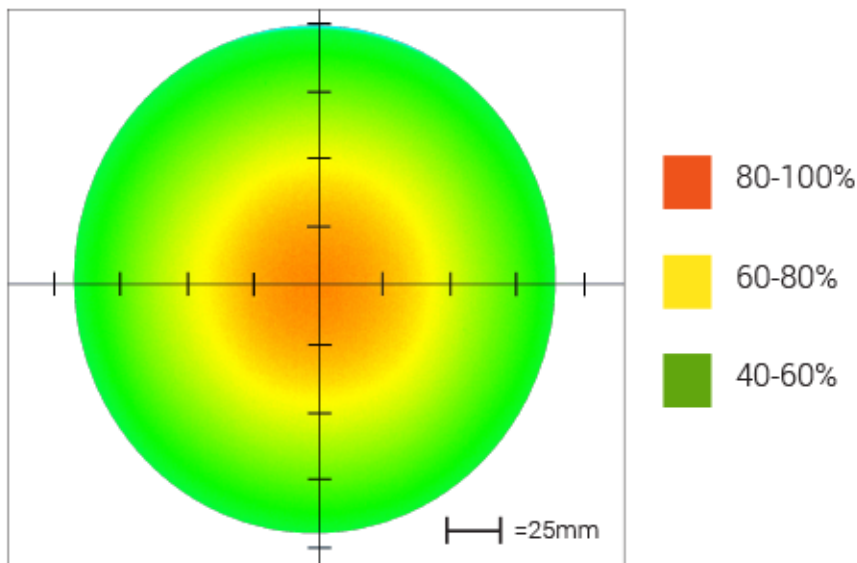
Visable wavelengths will be priced at \$790. This will result in price increase on 470, 625 and White colors. All IR wavelengths will be priced at \$985 list and UV wavelengths at \$1350.

Orders for customized (dash numbers) versions of RL127 will be honored until March 16th of 2017. 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 135 RL127

### Intensity Distribution



Optical measurement taken using RL127-WHIIC @ 200 mm

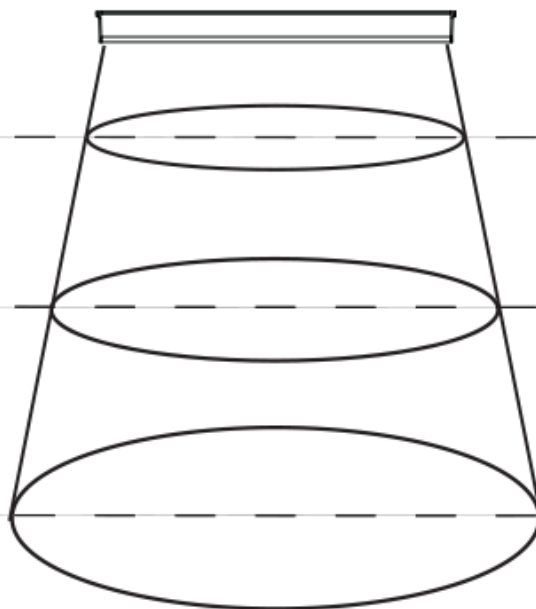
### Area of Illuminance & Intensity

Working Area (FWHM)  
@ Working Distance

144 Dia (mm)  
@100 (mm)

226 Dia (mm)  
@200 (mm)

300 Dia (mm)  
@300 (mm)



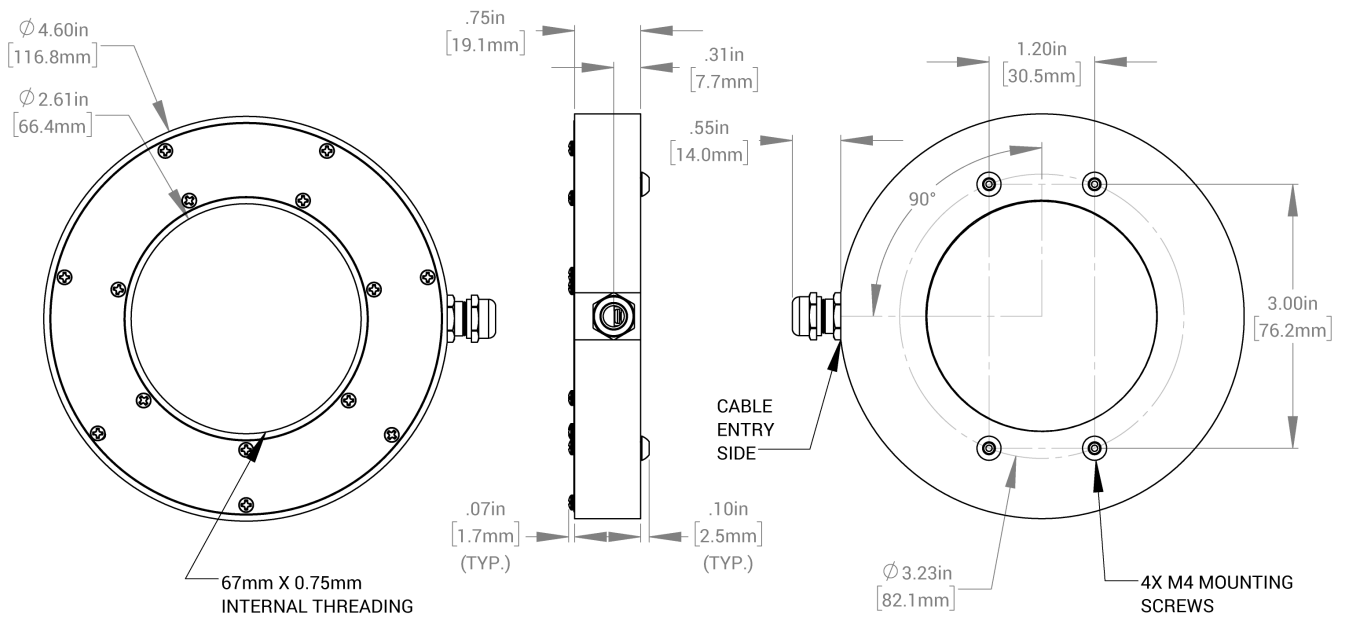
Light Output

Irradiance (W/M<sup>2</sup>): Min 56.9; Typ 67.0  
Illuminance (kLux): Min 17.1; Typ 20.2

Irradiance (W/M<sup>2</sup>): Min 19.5; Typ 23.0  
Illuminance (kLux): Min 5.9; Typ 7.0

Irradiance (W/M<sup>2</sup>): Min 9.3; Typ 11.0  
Illuminance (kLux): Min 2.9; Typ 3.5

## 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

### **Advanced Illumination**

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