

High Power Line Lights



#### Expandable

### Product Highlights

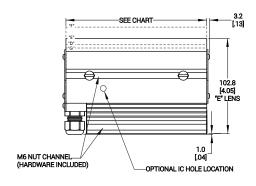
- 3" (72mm) model available
- Passively cooled design available 6" (152.4mm) increments from 6" (152.4mm) to 96" (2438.4mm)
- Perfect for line scanning applications. 200,000 Lux @ 3"; 50,000 hours life
- Intensity control of entire light via 0 10v input

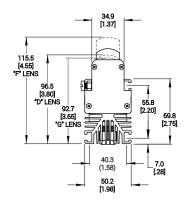


### General Specifications

	Color	24v Current	All Other Controls
	850, RGB	0.64 A per 6 inches	0.64 A Max per 6 inches
Electrical Specifications	625	0.64 A per 6 inches	0.64 A Max per 6 inches
	455, 530, WHI	0.75 A per 6 inches	0.75 A Max per 6 inches
Normal Operating Temperature	0 - 60°C		
Weight (g)	Per 12" - 1592.1g (56.16oz)		
Standard Cable Information	Up to 2 meters (80") long - 105°C rated PVC jacket, foil shield with drain.		
Photobiological Risk Factor IEC 62471	Exempt Applicable Wavelengths: 850 Group 1 (Low-Risk) Applicable Wavelengths: 455, 530, 625, WHI, RGB		
Compliance	CE ROHS IEC		
IP Rating	Unsealed - IP50		
Lumen Maintenance	L70 = 50,000 hours		

### Mechanical Specifications





DIMENSIONS ARE IN MILLIMETERS [INCHES]

Part #	Length in mm (inches)	
LL137X03	76	(3)
LL137X06	152	(6)
LL137X12	305	(12)
LL137X18	457	(18)
LL137X24	610	(24)
LL137X30	762	(30)
LL137X36	914	(36)
LL137X42	1067	(42)

<sup>6&</sup>quot; Increments up to a max of 96" with the exception of a 3" length model

### Part Number Key

Model	Lens Type	Lighted Length	_	Spectral Wavelength	Connector/ Control
LL137	X	XX	_	XXX	XX
LL137	D 3 E F G	" model available as well as 6" increments up to 96"	•	(royal blue) 455 (green) 530 (red) 625 (infra-red) 850 (all colors) RGB <sup>2</sup> (white) WHI	C1 IC <sup>1</sup> 24
	Ex: LL137E12-455C1 1 IC option (see page 4 for detail) no available with 3" model 2 Not available in IC		,		

Lens	Working Distance	Beam Width
D	50mm (2")	3.04mm (0.12")
Е	75mm (3")	3.04mm (0.12")
F	150mm (6")	5.08mm (0.20")
G	300mm (12")	10.16mm (0.40")
	600mm (24")	17.78mm (0.70")
	900mm (36")	30.48mm (1.20")
	1200mm (48")	38.10mm (1.50")

Stock Product: shipps within 3 days LL137E12-WHI24

Build to Order: shipped within two weeks

LLI3/LIZ-WIIZ4

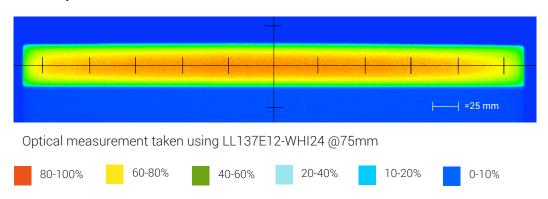
### Connector | Control Options

C1 Connector	IC	24
For use with: DCS Series Controllers	Please see page 4 for IC information	Flying/tinned leads  Powered with:  24V power supply

<sup>&</sup>quot;X" refers to the lens type: D,E,F,G

### Optical Performance

#### Intensity Distribution



#### Area of Illuminance & Intensity



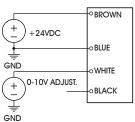
### Operation and Wiring

24 Volt

Function	Wire Color
+24v DC	Brown
0-10v DC Analog Control	White
GND	Blue
N/A	Black

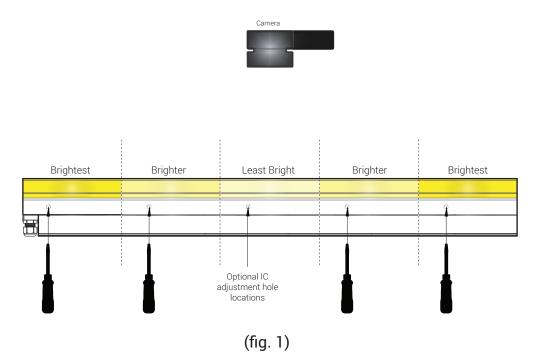
The entire light's intensity can be controlled via external 0-10 V analog controller using the white wire

0-10V ANALOG CONTROL LINEAR OUTPUT ADJUST



#### IC Control

The IC option allows for control of intensity on each 6" (152mm) section of BL138, BL168, LL137 and LL167 only. Fig. 1 shows 5 segments of 6" (152mm) BL138 with IC adjustment holes.



Controlling each 6" (152mm) section independently and making the center of the line less bright and the outside of the immediate camera viewing radius brighter ultimately results in better imaging.

Better imaging occurs because the camera can see very well in it's area of focus, but outside that area the camera doesn't focus as well without brighter illumination.

Ai recommends using IC adjustment holes for aforementioned lights over 24" (610mm) long.

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.

Company Information

Advanced Illumination

440 State Garage Road, Rochester VT. 05767

Phone: 802.767.3830

Fax: 802.767.3831

Email: info@advancedillumination.com

Web: advancedillumination.com

© 2015 Advanced Illumination Inc. All rights reserved

Released 7/15/2015 Updated 5/22/2017 DCN 2394 Updated 6/5/2017 DCN 2272 Updated 11/16/2017 DCN 2601

5