LL167 Expandable Series

High Power Line Lights

Expandable

Product Highlights

- 472,000 Lux: 45% brighter than the LL137
- Passively cooled design in 152mm (6") increments: Available in lengths of 152mm (6") to 2438mm (96")
- Intensity control of entire light via 0-10v input

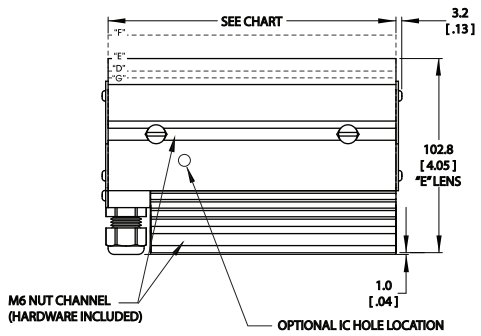
General Specifications

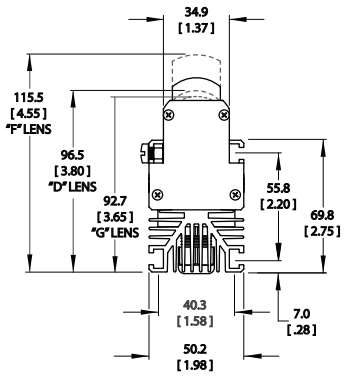
Electrical Specifications	Color	24v Current	All Other Controls
	WHI	0.76 A per 6 inches	0.76 A Max per 6 inches
Normal Operating Temperature	0 - 60°C		
Weight (g)	Per 12" - 1592g (56.16oz)		
Standard Cable Information	Up to 2 meters (80") long - 105°C rated PVC jacket, foil shield with drain.		
Photobiological Risk Factor IEC 62471	**Group 1 (Low-Risk) Applicable Wavelengths:** WHI		
Compliance	CE RoHS IEC 62471		
IP Rating	**Unsealed** - IP50		
Lumen Maintenance	L70 = 50,000 hours		

Released 7/15/2015
Updated 6/5/2017 DCN 2272

LL167 Expandable Series

Mechanical Specifications





DIMENSIONS ARE IN MILLIMETERS [INCHES]

Part #	Length in mm [inches]	
LL167X06	152	[6]
LL167X [1]	305	[12]
LL167X18	457	[18]
LL167X24	610	[24]
LL167X30	762	[30]
LL167X36	914	[36]
LL167X42	1067	[42]

6" Increments up to a max of 96"

[1] LL167X (12") does not need a length suffix "X" refers to the lens type: D,E,F,G

Part Number Key

Model	Lens Type	Lighted Length	—	Spectral Wavelength	Connector/ Control
LL167	X	XX	—	XXX	XX
LL167	D E F G	6" increments up to 96"		(white) WHI	C1 [2] IC [1] 24

Ex: LL167D12-WHIC1
LL167G24-WHIIC

[1] IC option (see page 4 for detail)
[2] Not available over 12" length

Lens	Working Distance	Beam Width
D	50mm (2")	3mm (.13")
E	75mm (3")	5mm (.18")
F	150mm (6")	8mm (.3")
G	300mm (12")	20mm (.8")
	600mm (24")	38mm (1.5")
	900mm (36")	56mm (2.2")
	1200mm (48")	74mm (2.9")

Stock Product: *ships within 3 days*

None

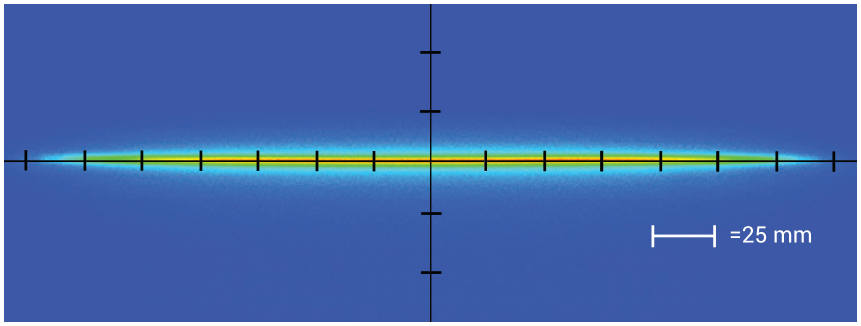
Build to Order: *shipped in two weeks*

Connector | Control Options

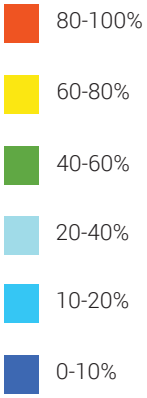
C1 Connector	IC	24
For use with: DCS Series Controllers	Please see page 4 for IC information	Flying/tinned leads *Powered with:* 24V power supply

Optical Performance

Intensity Distribution



Optical measurement taken using LL167E12-WHI24 @ 75mm



Area of Illuminance & Intensity

Working Area (FWHM) Line
@ Working Distance

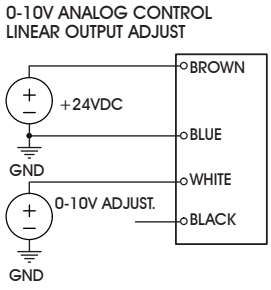
Light Output

Operation and Wiring

24 Volt

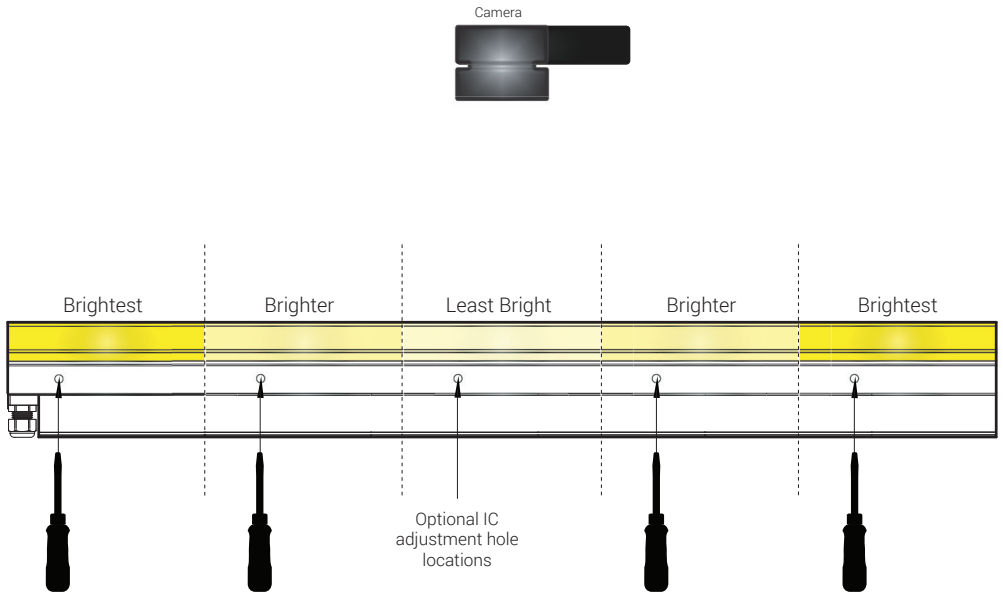
Function	Wire Color
+24v DC	Brown
0-10v DC Analog Control	White
GND	Blue
N/A	Black

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



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.



(fig. 1)

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