

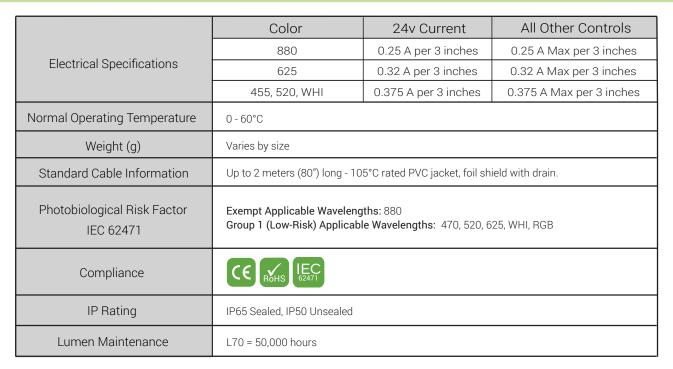
# LL137 Expandable Series High Power Line Lights



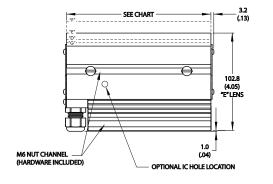
### Product Highlights

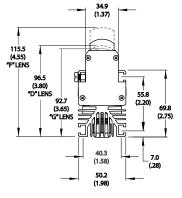
- 3" (72mm) model available
- Passively cooled design in 6" increments; Lengths from 6" to 96"
- Perfect for line scanning applications. 200,000 Lux @ 3"; 50,000 hours life
- Intensity control of entire light via 0 10v input

### General Specifications



# Mechanical Specifications





DIMENSIONS ARE IN MILLIMETERS (INCHES)

Part #	Length in m	m (inches)	
i ait #	Lengurin	in (incries)	
LL137X03	76	(3)	
LL137X06	152	(6)	
LL137X12	305	(12)	
LL137X18	457	(18)	
LL137X24	610	(24)	
LL137X30	762	(30)	
LL137X36	914	(36)	
LL137X42	1067	(42)	
6" Increments up to a max of 96" with the			

exception of a 3" length model

"X" refers to the lens type: D,E,F,G

# Part Number Key

Model	Lens Type	Lighted Length	-	Spectral Wavelength	Connector/ Control
LL137	Х	XX	-	XXX	XX
LL137	D 3 E G	" model availab as well as 6" increments up to 96"	le	(blue) 455 (green) 530 (red) 625 (infra-red) 850 (all colors) RGB <sup>2</sup> (white) WHI	C1 IC <sup>1</sup> 24v
Ex: LL137E LL137G	12-455C1 24-625IC			option (see page 4 ailable with 3" moc	,

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: shipped next day LL137E12-WHI24

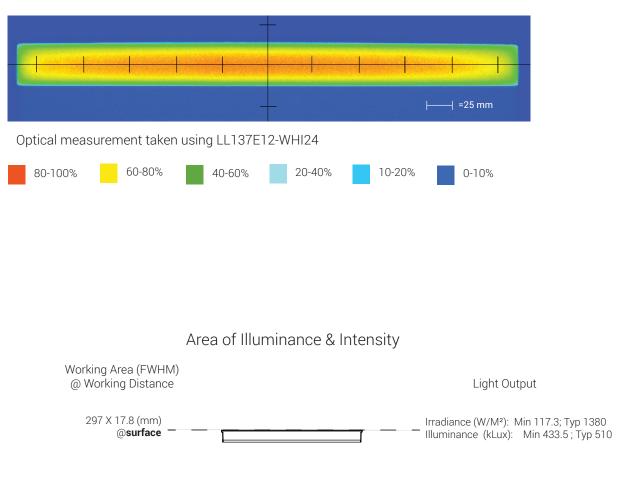
Build to Order: shipped within two weeks

# Connector | Control Options

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

## Optical Performance

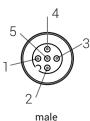
#### Intensity Distribution



# Operation and Wiring

24 Volt				
Pin (M12)	Function	Wire Color		
1	+24 VDC	Brown		
2	N/A	White		
3	GND	Blue		
4	N/A	Black		

#### **Optional M12 Pinout**

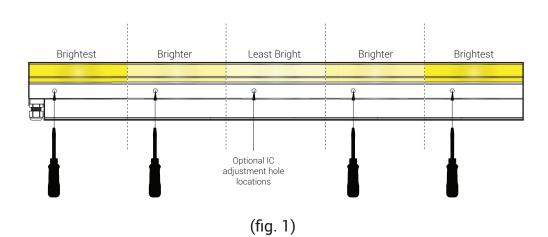


5-position

#### 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.





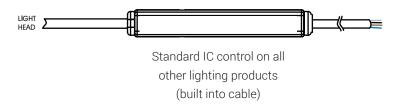
Controlling each 6" (152mm) section independently and making the center of the line less bright and

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.

the outside of the immediate camera viewing radius brighter ultimately results in better imaging.

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

All other lighting products that have an IC option have the IC control located on the cable. (see fig. 2)



(fig. 2)

### 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

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