LL174 Expandable Series
General Purpose Bar Lights

← →   ⬭
Expandable   Washdown
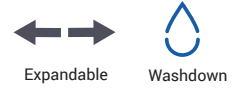
Product Highlights

- Intense illumination for long working distances or large area applications

- Works great in pairs to create a square area of illumination

- Three lens options - narrow, medium (standard), and wide

- Washdown option available

- LL174 Expandable in 6" Increments from 6" to 84"

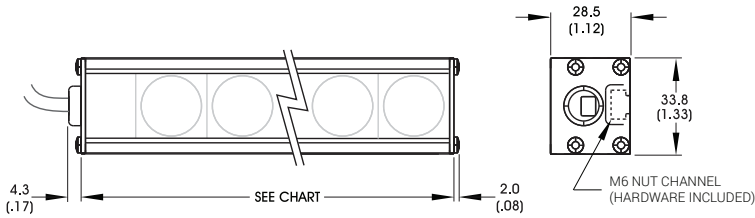- LL174 Derivatives: LL6324 (24"), LL6212 (12"), LL5806 (6")

LL174 ← →

LL6324

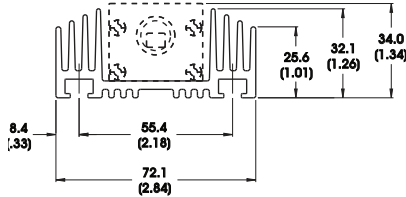LL6212

LL5806

General Specifications

	Part Number	Color	24v Current	All Other Controls
Electrical Specifications	LL174 Per 6 inches	365, 375, 385, 395, 405	0.35 A	0.37 A Max
		455, 470, 505, 530, WHI	0.37 A	0.35 A Max
		590, 625, 660, 730	0.38 A	0.30 A Max
		850, 940	0.38 A	0.20 A Max
Normal Operating Temperature	0 - 60°C			
Weight (g)	Varies by size			
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, 940 Group 1 (Low-Risk) Applicable Wavelengths: 455, 470, 505, 530, 590, 625, 660, 730, WHI Group 2 (Moderate Risk) Applicable Wavelengths: 365, 375, 385, 395, 405			
Compliance	CE RoHS IEC 62471			
IP Rating	IP65 Sealed, IP50 Unsealed			
Lumen Maintenance	L70 = 50,000 hours			

Mechanical Specifications

28.5 (1.12)

33.8 (1.33)

M6 NUT CHANNEL (HARDWARE INCLUDED)

4.3 (.17)   SEE CHART   2.0 (.08)

DIMENSIONS ARE IN MILLIMETERS (INCHES)

Optional Heat Sink

25.6 (1.01)   32.1 (1.26)   34.0 (1.34)

8.4 (.33)   55.4 (2.18)

72.1 (2.84)

Non Washdown		
Part #	Length in inches	(mm)
LL5806 [1]	6.84	(173.7)
LL6212 [1]	12.84	(326.1)
LL17418	18.84	(478.6)
LL6324 [1]	24.84	(630.9)
LL17430	30.84	(783.4)
LL17436	36.84	(935.8)
LL17442	42.84	(1088.2)
LL17448	48.84	(1240.6)
LL17454	54.84	(1392.9)
LL17460	60.84	(1545.3)
LL17466	66.84	(1697.7)
LL17472	72.84	(1850.1)
LL17478	78.84	(2002.5)
LL17484	84.84	(2154.9)

Washdown Option		
Part #	Length in inches	(mm)
LL5806 [1]	6.96	(176.8)
LL6212 [1]	12.96	(329.2)
LL17418	18.96	(481.7)
LL6324 [1]	24.96	(634.0)
LL17430	30.96	(786.5)
LL17436	36.96	(938.9)
LL17442	42.96	(1091.3)
LL17448	48.96	(1243.7)
LL17454	54.96	(1395.9)
LL17460	60.96	(1548.3)
LL17466	66.96	(1700.7)
LL17472	72.96	(1853.1)
LL17478	78.96	(2005.5)
LL17484	84.96	(2157.9)

[1] LL5806, LL6212 and LL6324 have uniques part numbers

Part Number Key

Model	Lighted Length	Lens Type [6]	—	Spectral Wavelength	Connector/ Control	Heat Sink	Wash Down Option	Optional Light Conditioning	—	Alternative Connector
LL174	XX	X	—	XXX	XX	X	X	X	—	XXX
LL174	6" increments up to 84" (LL5806, LL6212 and LL6324 [4] do not need suffix)	N (narrow) W (wide) (medium lens comes standard when left blank)		(UV) 365 [5] (UV) 375 [5] (UV) 385 [5] (UV) 395 [5] (violet) 405 [5] (royal blue) 455 (blue) 470 (cyan) 505 (green) 530 (amber) 590 (red orange) 625 [2] (red) 660 (IR) 730 (IR) 850 (IR) 940 (white) WHI	C1 C5 IC I3 I3S 24	H	W [3]	D (Diffuser) P [4] (Polarizer)		M12 [1]

Ex: LL5806N-470C1HWD
    LL17424W-625IC-M12

[1] Available with IC, I3, I3S and 24v options only
[2] Not available with wide lens option
[3] Not available over 48" length
[4] Not available with washdown option
[5] Not available with IC, I3, I3S or 24v contollers

[6] Beam angle (FWHM):
    narrow = 8°
    medium = 21°
    wide = 29°

Stock Product: *shipped within 3 days*

LL5806-62524   LL6212-625IC   LL5806-WHIIC
LL5806-625IC   LL6212-WHIIC
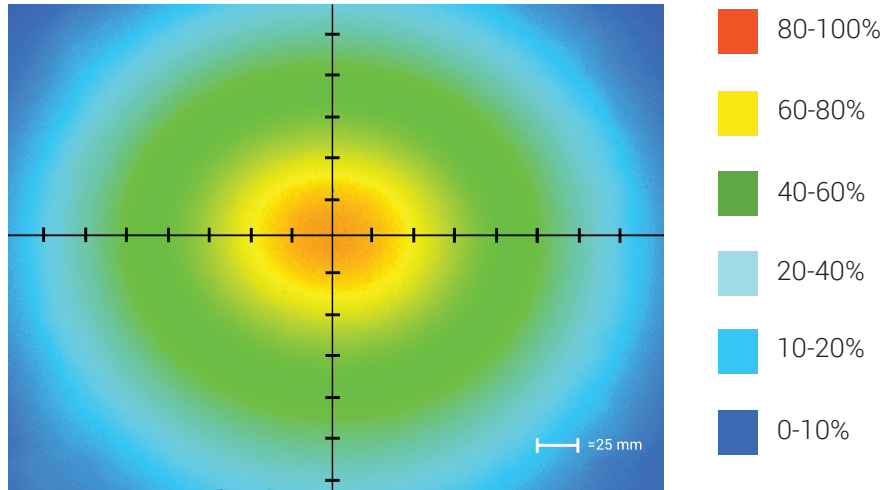LL5806-WHI24   LL5806-WHI24

Build to Order: *shipped within two weeks*

Connector | Control Options

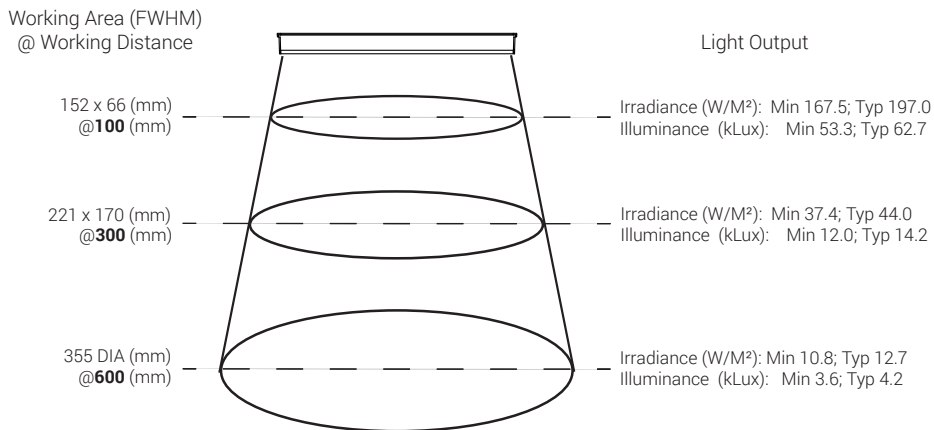| C1 Connector	C5 Connector	ICS 2 (IC)	ICS 3 (I3)	ICS 3S (I3S)	24
For use with: DCS Series Controllers	*For use with:* Pulsar 320 Strobe Controller.	Continous in-line controller *Powered with:* **24V power supply**	Combination strobe/continous in-line controller *Powered with:* **24V power supply**	Default-OFF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

Optical Performance

Intensity Distribution

■	80-100%
■	60-80%
■	40-60%
■	20-40%
■	10-20%
■	0-10%

=25 mm

Optical measurement taken using LL6212-WHIIC Rev. A @ 300mm

Area of Illuminance & Intensity

Working Area (FWHM)
@ Working Distance

Light Output

152 x 66 (mm)
@**100** (mm)

Irradiance (W/M²): Min 167.5; Typ 197.0
Illuminance (kLux):   Min 53.3; Typ 62.7

221 x 170 (mm)
@**300** (mm)

Irradiance (W/M²): Min 37.4; Typ 44.0
Illuminance (kLux):   Min 12.0; Typ 14.2

355 DIA (mm)
@**600** (mm)

Irradiance (W/M²): Min 10.8; Typ 12.7
Illuminance (kLux): Min 3.6; Typ 4.2

Operation and Wiring

ICS 2 (IC)

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

ICS 3 (I3 and I3S)

Pin (M12)	Function	Wire Color
1	+24 VDC	Brown
2	Reserved	White
3	GND	Blue
4	PNP/Active High Trigger	Black
5	0-10 VDC Analog Control	Gray

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

male
5-position

Product Revision "A"
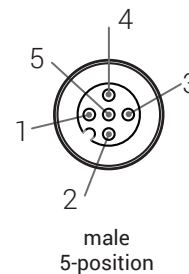
Warranty Information

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 ET 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