

Product Highlights

- The Narrow Linear Diffuse Light series is ideal for precision scanning of highly reflective materials.



General Specifications

	Color	24V Current	All Other Controls
Electrical Specifications	455, 470, 530, WHI	0.12A per 2"	0.14A per 2"
	590, 625	0.12A per 2"	0.10A per 2"
	850, 940	0.12A per 2"	0.11A per 2"
Normal Operating Temperature	0 - 60°C		
Weight	12" Unit = 421g (14.9oz)		
Standard Cable Information	Up to 2 meters (80") long - 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		
Compliance	CE, RoHS, IEC 62471		
IP Rating	Not Rated		
Lumen Maintenance	L70 = 50,000 Hours		

Part Number Key

Model	Illuminated Length	—	Spectral Wavelength	Connector/ Control	—	Alternative Connector
DL151	XX	—	XXX	XX	—	XXX
DL151	(2" increments)		(royal blue) 455 (blue) 470 (green) 530 (amber) 590 (red orange) 625 (infra-red) 850 (infra-red) 940 (white) WHI	C1 C5 IC I3 I3S 24		M12 ¹
Ex: DL15112-625C1 DL15106-WHII3			¹ Available with IC, I3, I3S and 24v options only			

Stock Product: *shipped within 3 days*
None

Build to Order: *shipped within two weeks*

Electrical Specs

ICS 2 (IC)

Pin (M12)	Function	Wire Color
1	+24 VDC	Brown
2	0-10 VDC Analog Control	White
3	GND	Blue
4	GLO	Black
5	N/A	Gray

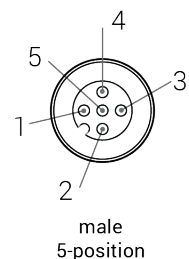
ICS 3 (I3 and I3S)

Pin (M12)	Function	Wire Color
1	+24 VDC	Brown
2	GND	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	-24 VDC	Blue
4	N/A	Black
5	N/A	Gray

Optional M12 Pinout



Control Specs

C1 Connector	C5 Connector	IC	I3	I3S	24
For use with: DCS Series Controllers	For use with: Pulsar 320 Strobe Controller.	Continuous in-line controller Powered with: 24V power supply	Combination strobe/continuous in-line controller Powered with: 24V power supply	Default-OFF strobe/continuous in-line controller Powered with: 24V power supply	Flying/tinned leads Powered with: 24V power supply

Change Notice

PCN No: 138

Date Issued: 7/11/17

Notice Type: Product Revision Change

Product Type: DL151

Change Notification Summary

In an effort to improve our products, Advanced illumination (Ai) will update the LEDs used in the DL151 design. This change will result in a brighter, more uniform light at the same price*. Customers may still buy the current revision of this model until October 13th, 2017. After that time, orders for these products will be converted to their respective DL151 Revision A models.

This LED change will result in additional wavelengths being available: 455nm, 505nm, 660nm, 730nm, and 940nm.

*Visible and IR wavelengths that did not exist will prior will be sold at the same list price as similar wavelengths.

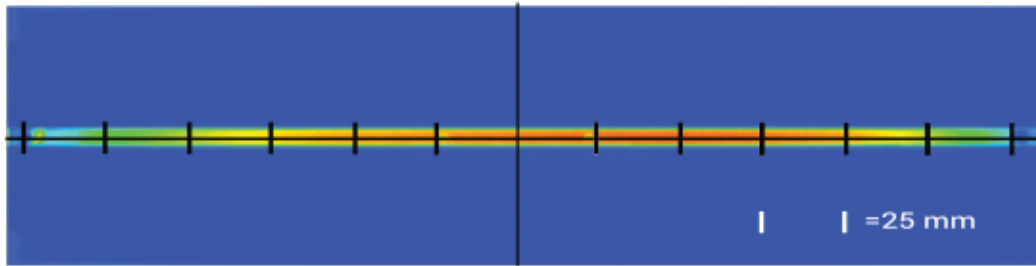
Orders for customized (dash numbers) versions of DL151 will be honored until January 12th, 2018. Ai will be actively working with customers for those products to simplify the transition.

Please contact your Ai Sales Representative if you have any questions.

PCN 138 DL151

Optical Specs

Intensity Distribution

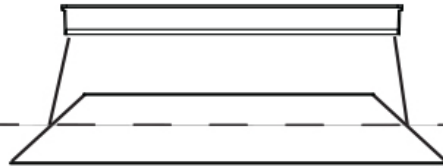


Optical measurement taken using DL15112-WHIIC @ 25mm

Area of Illuminance & Intensity

Working Area (FWHM)
@ Working Distance

279 (mm) Line
@25 (mm)

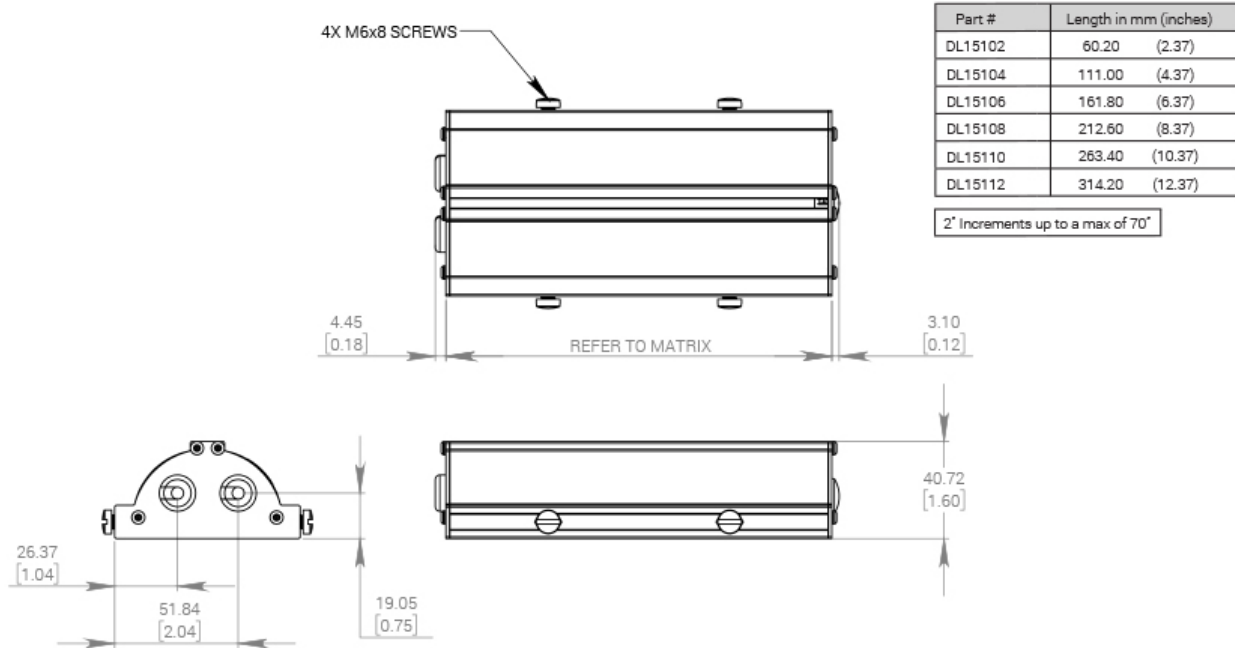


Light Output

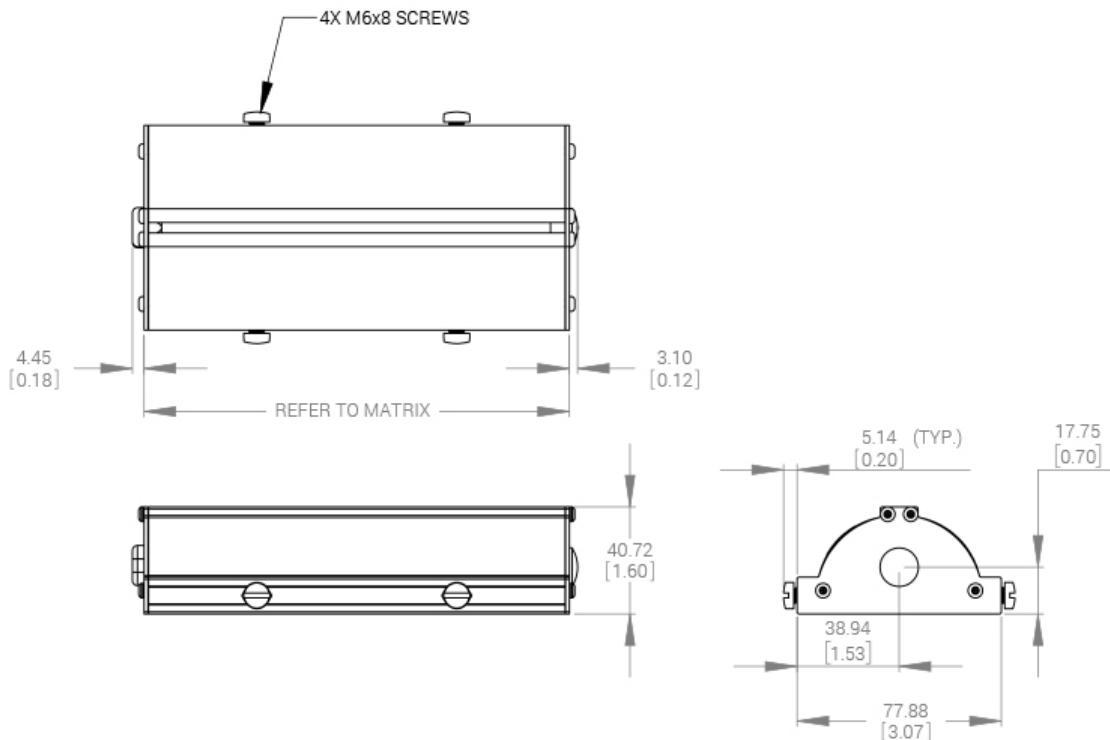
Irradiance (W/M²): Min 82.4; Typ 97.0
Illuminance (kLux): Min 24.0; Typ 28.2

Mechanical Specs

Mechanical Specifications - Dual Cable Configuration



Mechanical Specifications - Single Cable Configuration



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@advill.com.

Company Information

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