




Product Highlights

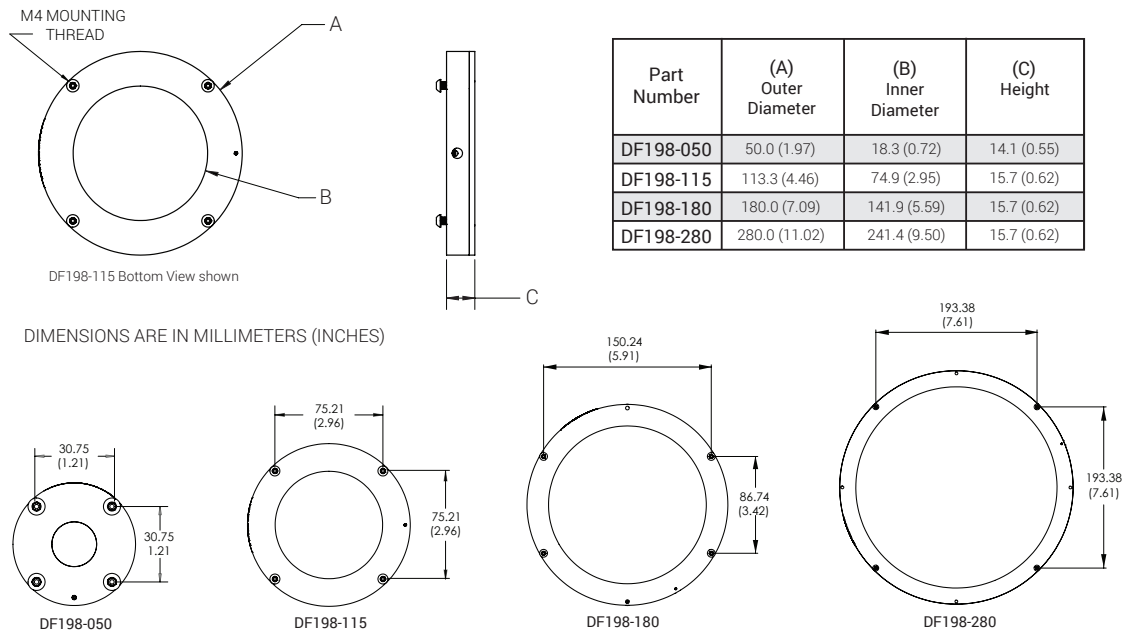
- Provides stable, diffuse, and even light source
- Used to evenly illuminate a variety of surfaces for color or defect detection
- Available in four sizes: 50mm, 115mm, 180mm, and 280mm



General Specifications

	Part Number	Color	24v Current (A)	All Other Controls (A Max)	Weight
Electrical Specifications	DF198-050	625	n/a	0.13	61.7 g (2.18 oz)
		WHI, 455, 530	n/a	0.22	
		RGB	n/a	0.65	
	DF198-115	625	0.32	0.32	128.8 g (4.54 oz)
		WHI, 455, 530	0.32	0.54	
		RGB	N/A	0.95	
	DF198-180	625	0.64	0.58	227.7 g (8.03 oz)
		WHI, 455, 530	0.64	0.97	
		RGB	N/A	2.55	
	DF198-280	625	0.96	0.58	358.3 g (12.64 oz)
		WHI, 455, 530	0.96	0.97	
		RGB	N/A	3.60	
Normal Operating Temperature	0 - 60°C				
Weight (Kg)	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	Group 1 (Low-Risk) Applicable Wavelengths: 455, 530, 625, WHI, RGB				
Compliance	  				
IP Rating	IP40				
Lumen Maintenance	L70 = 50,000 hours				

Mechanical Specifications



Part Number Key

Model	—	Size in mm	Spectral Wavelength	Connector/Control	—	Alternative Connector
DF198	—	XXX	XXX	XX	—	XXX
DF198		050 ⁴	455 (royal blue)	C1		M12 ¹
		115	530 (green)	C5		
		180	625 (red)	IC		
		280	WHI (white)	I3		
			RGB ³	I3S		
				24 ²		
Ex: DF198-100WHII3 DF198-180625C1		¹ Available with IC, I3, I3S and 24v options only ² The 24v version will have a lower output intensity by ~10-15% and operate at a temp ~10-15% higher than other options ³ Available with C1 option only ⁴ Not available with 24v option				

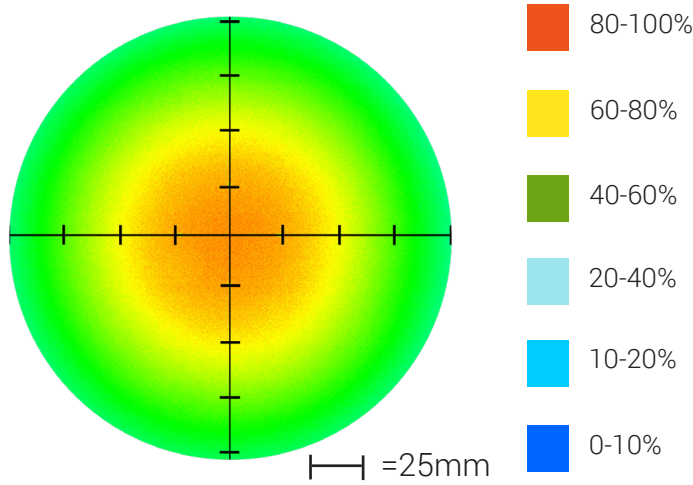
Stock Product: shipped within 3 days **Build to Order:** shipped within 2 weeks
 DF198-100WHII3

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.	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

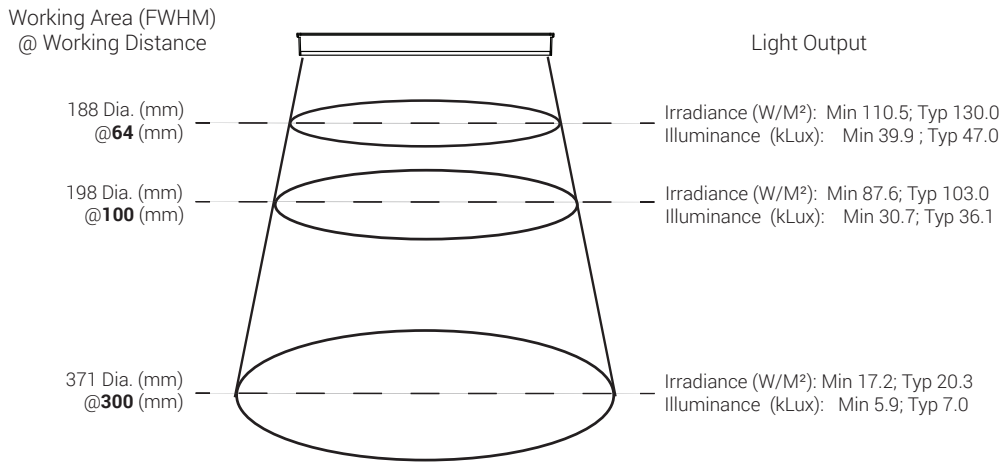
Optical Performance

Intensity Distribution



Optical measurement taken using DF198-180WHI3 @ 100mm

Area of Illuminance & Intensity for DF198-180WHI3



Area of Illuminance & Intensity for All DF198-WHI

Part Number	Working Distance (mm)	Irradiance (klux)	Illuminance (W/m ²)	FWHM Diameter (mm)
DF198-050	12.7	703.0	223.0	33.0
	100	37.2	12.3	101.6
	300	4.2	1.5	340.4
DF198-115	50	94.2	32.7	116.8
	100	42.6	14.6	142.2
	300	5.9	2.1	317.5
DF198-180	64	130.0	47.0	188.0
	100	103.0	36.1	198.1
	300	20.3	7.0	370.8
DF198-280	100	62.5	22.7	315.0
	200	41.4	14.5	340.4
	300	23.8	8.2	403.9

Operation and Wiring

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

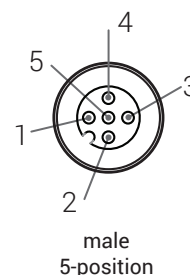
ICS 3 (I3 and I3S)

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

Optional M12 Pinout



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

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