

MicroBrite[™] Series Ring Lights

Product Highlights

- Lensed low-angle diffused illumination
- Used to detect surface defects and edges on a variety of surfaces
- Available in four sizes: 50, 100, 180, and 280mm

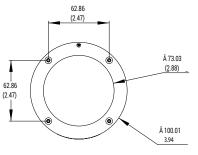


General Specifications

	Part Number	Color	24v Current (A)	All Other Controls (A Max)	Weight	
		625	n/a	0.16	00.0	
	DF196-050	WHI, 455, 530	n/a	0.27	83.9 g (2.96 oz)	
		RGB	n/a	0.7		
		625	0.7	0.32		
Electrical Specifications	DF196-100	WHI, 455, 530	0.7	0.54	263.1 g (9.3 oz)	
		RGB	n/a	2.1	()	
		625	1.25	0.58		
	DF196-180	WHI, 455, 530	1.25	0.97	521.6 g (18.4 oz)	
		RGB	n/a	2.9	(
	DF196-280	625	1.25	0.58	780.2 g (27.5 oz)	
		WHI, 455, 530	1.25	0.97		
		RGB	n/a	5.0		
Normal Operating Temperature	0 - 60°C					
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, RGB, WHI					
Compliance	CE ROHS IEC 62471					
IP Rating	IP40					
Lumen Maintenance	L70 = 50,000 hours					

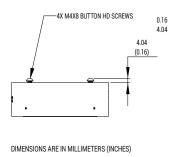
Mechanical Specifications

DF196-100 Shown Below



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DIMENSIO	ONS ARE IN	N MILLIMETERS (INCHE
-		,
	•	34.93 (1.38)
		0.32 (0.01)

Part Number	Outer Diameter	Inner Diameter	Housing Thickness
DF196-050	49.9 (1.97)	31.6 (1.24)	29.9 (1.18)
DF196-100	100.0 (3.94)	73.0 (2.88)	34.9 (1.38)
DF196-180	179.9 (7.09)	152.9 (6.02)	34.9 (1.38)
DF196-280	280.9 (11.06)	254.0 (10.0)	34.9 (1.38)



For complete dimensions of all sizes please refer to the downloads tab on the DF196 product page on our website.

Part Number Key

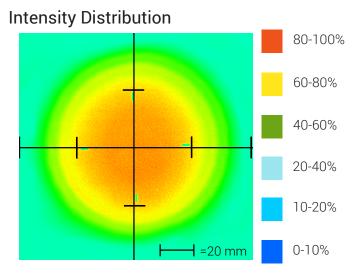
Model	_	Size in mm	Spectral Wavelength	Connector/ Control	_	Alternative Connector
DF196	_	XXX	XXX	XX	_	XXX
DF196		050 ² 100 180 280	(blue) 455 (green) 530 (red) 625 (white) WHI (all color) RGB	C1 C5 IC I3 I3S		M12 ¹
Ex: DF196-100 DF196-180			² Not a	able with IC, I3, I39 vailable with 24v able with C1 optio	option	options only

Stock Product: shipped within 3 days Build to Order. shipped within 2 weeks DF196-100WHII3

Connector | Control Options

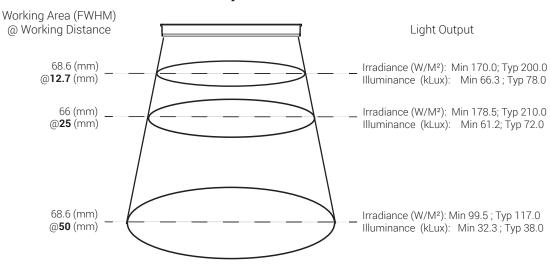
C1 Connector	C5 Connector	ICS 2 (IC)	ICS 3 (I3)	ICS 3S (I3S)	24
For use with: DCS Series Controllers	For use with: Pulsar 320 Strobe Controller.	Continous in-line controller Powered with: 24V power supply	Combination strobe/continous in-line controller Powered with: 24V power supply	Default-OFF strobe/continous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

Optical Performance



Optical measurement taken using DF196-100WHII3 @ 25mm

Area of Illuminance & Intensity for DF196-100WHI



Area of Illuminance & Intensity for All DF196-WHII3

Part Number	Working Distance (mm)	Irradiance (klux)	Illuminance (W/m2)	FWHM Diameter (mm)
DE106.050	6.5	550	194	30.5
DF196-050	20	300	90.2	35.6
	12.7	200	78	68.6
DF196-100	25	210	72	66.0
	50	117	38	68.6
	50	134	46.5	134.6
DF196-180	125	43.6	14.5	172.7
	190	17.9	5.9	254
	75	47	17.2	228.6
DF196-280	200	17.3	5.8	279.4
	300	7.4	2.5	431.8

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

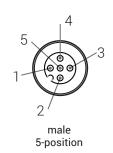
ICS 3 (I3 and I3S)

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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5