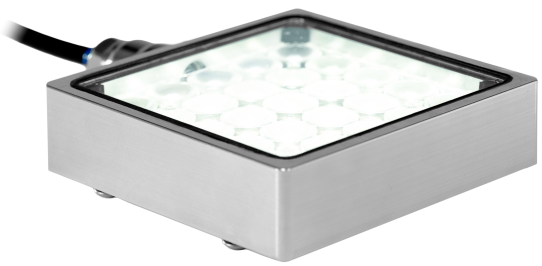
ADVANCED ILLUMINATION

UltraSeal Spot Light

Product Highlights

- Built for extreme environments, our IP69K certified lights are specifically engineered to withstand everything from prolonged liquid immersion to high-pressure steam cleaning and corrosive washdown solutions. The UltraSeal Washdown Lights are ideal for hygienic inspection environments, aseptic manufacturing, and food and beverage applications.
- The SL316 Spot Light offers general purpose, high-intensity illumination with the unique benefits of the UltraSeal Washdown Series.



***Patented**

General Specifications

Electrical Specifications	Color	24V Current	All Other Controls
	WHI, 455, 470, 505, 530	N/A	0.86 A Max
	590, 625, 660, 730, 850, 940	N/A	0.60 A Max
Normal Operating Temperature	0°C - 60°C		
Weight	290 g (10.2 oz)		
Standard Cable Information	2 m long -0/+150 mm (80" -0/+6") - 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, 505, 530, 590, 625, 660, 730		
Compliance	CE, RoHS, IEC 62471		
IP Rating	IP69K Certified		
Lumen Maintenance	L70 - 50,000 Hours		
BTO Lead Time	2 Weeks		
In Stock SKU(s)	None		

R.J. Wilson, Inc.
Imaging Components for Industry & Science
www.rjwilson.com
sales@rjwilson.com
781-335-5500

Part Number Key

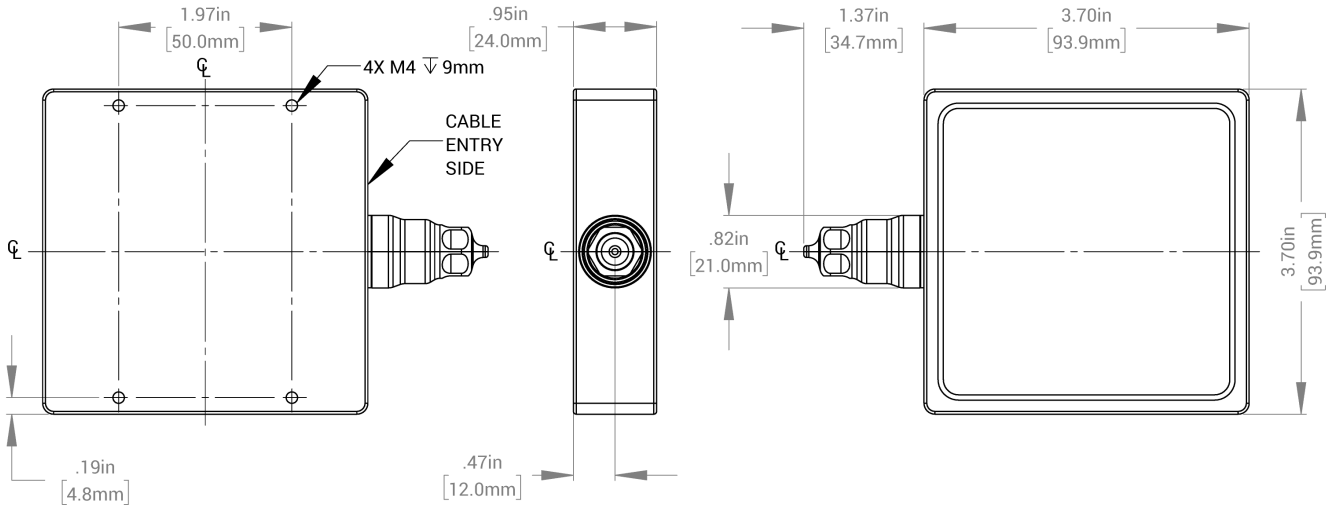
Model	Lens Type	-	Peak Wavelength	Connector/ Control	Light Conditioning Option	Housing Material	-	Alternative Connector
SL316	x	–	XXX	XX	X	XX	–	XXX
SL316	N (Narrow)		455 (royal blue)	C1	D[3] (Diffuser)	AL (Anodized Aluminum)		M12[1]
	M (Medium)		470 (blue)	C5		SS (Stainless Steel)		M8[1]
	W (Wide)		505 (cyan)	IC				
	X[2] (Ultrawide, Non-Lensed)		530 (green)	I3				
			590 (amber)	I3S				
			625 (red orange)					
			660 (red)					
			730 (IR)					
			850 (IR)					
			940 (IR)					
			WHI (white)					

Example Part Number:
SL316W-WHIC1
SL316N-625ICD

Beam Angle (FWHM):
Narrow = 13°
Medium = 26°
Wide = 31°
Ultrawide = 62°

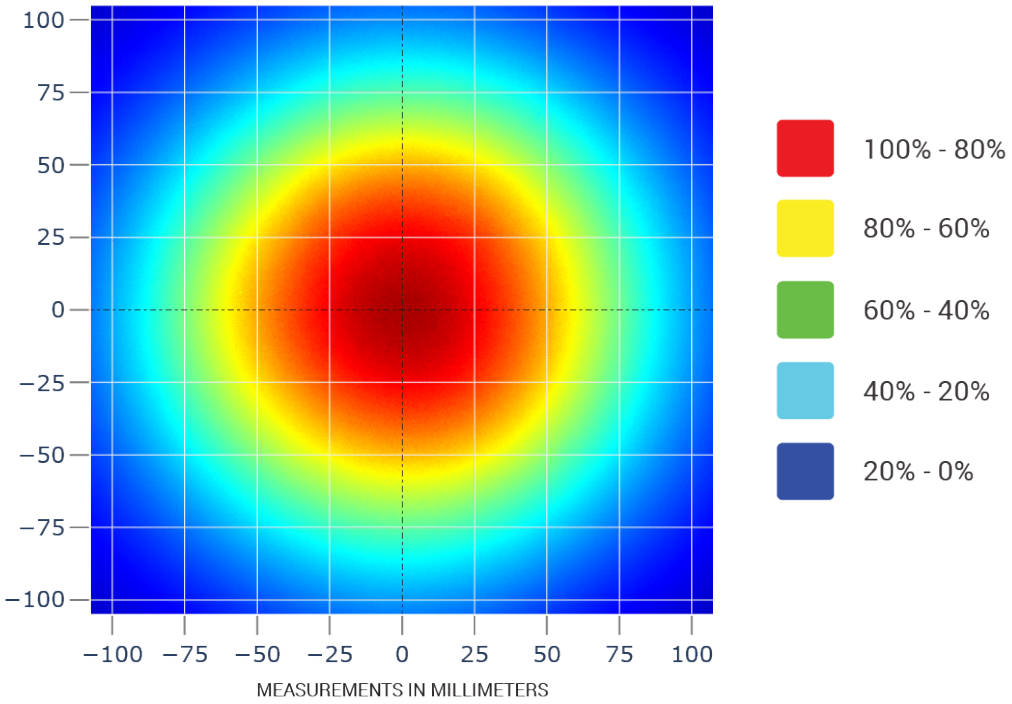
[1]Available with IC, I3, and I3S options only
[2]X (Ultrawide, Non-Lensed) comes preconfigured with a diffuser
[3]Note this is a light diffuser

Mechanical Specs



Optical Specs

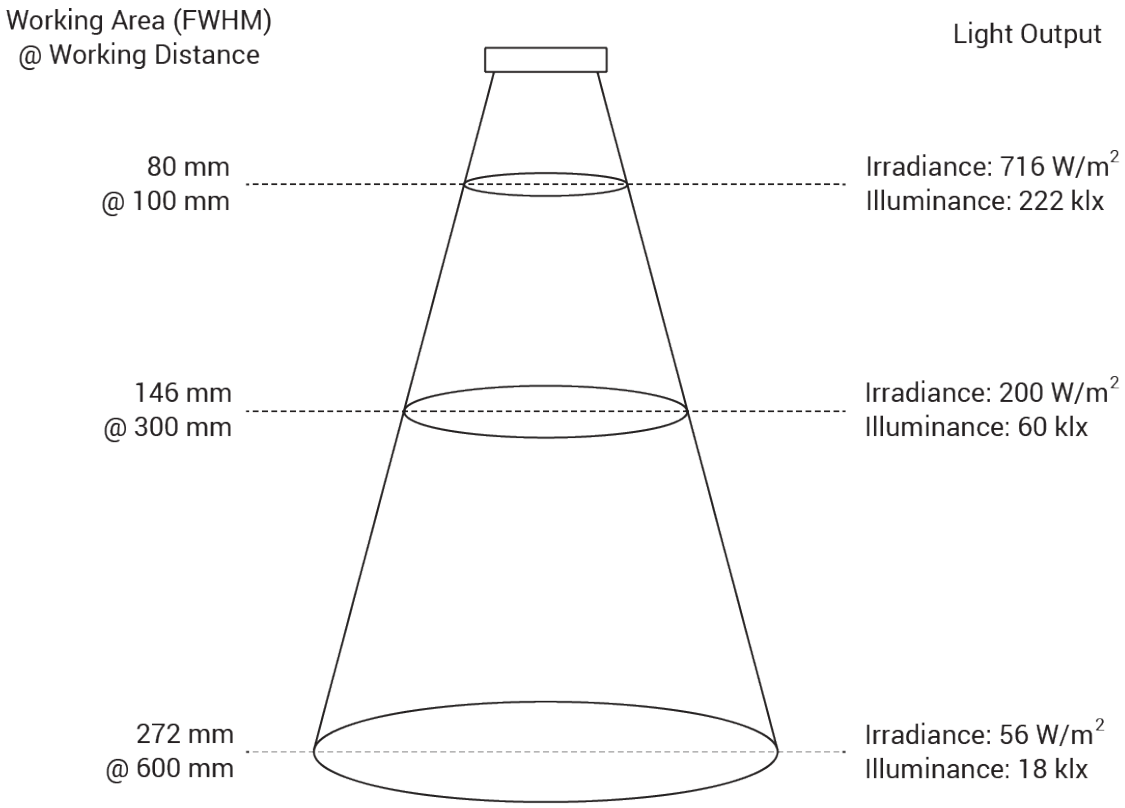
Intensity Distribution



Optical measurements taken using a SL316M-WHII3 @ 300 mm

Other configurations will provide different results

Optical Cone



Optical measurements taken using a SL316M-WHII3
For additional measurements, please refer to the charts below

Working Area vs Working Distance

Working Distance (mm)	FWHM (mm)						
	Narrow		Medium		Wide		Ultrawide
	Clear Window	Diffuser	Clear Window	Diffuser	Clear Window	Diffuser	Diffuser
100	74	78	80	84	83	88	152
300	93	125	146	162	184	188	387
600	133	267	272	304	334	343	719

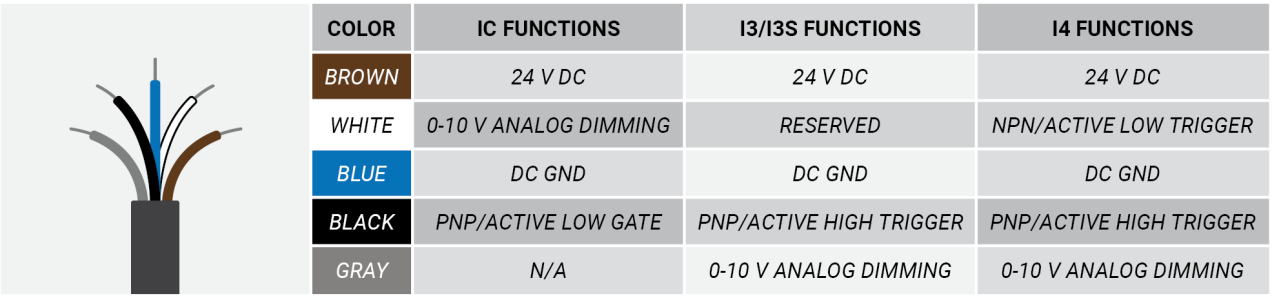
Light Output vs Working Distance

Working Distance (mm)	Irradiance (W/m^2) / Illuminance (klx)						
	Narrow		Medium		Wide		Ultrawide
	Clear Window	Diffuser	Clear Window	Diffuser	Clear Window	Diffuser	Diffuser
100	996 / 312	853 / 258	716 / 222	632 / 190	697 / 213	571 / 180	167 / 48
300	427 / 151	494 / 77	200 / 60	145 / 44	132 / 39	104 / 33	23 / 6.7
600	194 / 61	73 / 22	56 / 18	40 / 13	34 / 11	28 / 9.0	6.3 / 1.9

All chart values were measured using configurations of the SL316 with white LEDs
Other wavelength configurations will provide different results

Electrical Specs

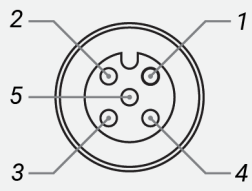
Standard Flying Lead Functions for IC, I3, I3S, and I4 Control Options



COLOR	IC FUNCTIONS	I3/I3S FUNCTIONS	I4 FUNCTIONS
BROWN	24 V DC	24 V DC	24 V DC
WHITE	0-10 V ANALOG DIMMING	RESERVED	NPN/ACTIVE LOW TRIGGER
BLUE	DC GND	DC GND	DC GND
BLACK	PNP/ACTIVE LOW GATE	PNP/ACTIVE HIGH TRIGGER	PNP/ACTIVE HIGH TRIGGER
GRAY	N/A	0-10 V ANALOG DIMMING	0-10 V ANALOG DIMMING

The functions listed above are applicable when this product is configured with built-in IC, I3, I3S, or I4 control, without the optional A-coded 5-position Male M12 or A-coded 4-position Male M8 connector.

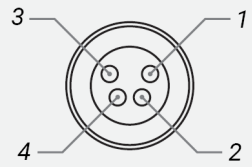
M12 Connector Pinout Functions for IC, I3, I3S, and I4 Control Options



PIN	IC FUNCTIONS	I3/I3S FUNCTIONS	I4 FUNCTIONS
1	24 V DC	24 V DC	24 V DC
2	0-10 V ANALOG DIMMING	RESERVED	NPN/ACTIVE LOW TRIGGER
3	DC GND	DC GND	DC GND
4	PNP/ACTIVE LOW GATE	PNP/ACTIVE HIGH TRIGGER	PNP/ACTIVE HIGH TRIGGER
5	N/A	0-10 V ANALOG DIMMING	0-10 V ANALOG DIMMING

The functions listed above are only applicable when this product is configured with built-in IC, I3, I3S, or I4 control, with an A-coded 5-position Male M12 connector.

M8 Connector Pinout Functions for IC, I3, I3S, and I4 Control Options



PIN	IC FUNCTIONS	I3/I3S FUNCTIONS	I4 FUNCTIONS
1	24 V DC	24 V DC	24 V DC
2	0-10 V ANALOG DIMMING	0-10 V ANALOG DIMMING	0-10 V ANALOG DIMMING
3	DC GND	DC GND	DC GND
4	PNP/ACTIVE LOW GATE	PNP/ACTIVE HIGH TRIGGER	PNP/ACTIVE HIGH TRIGGER

The functions listed above are only applicable when this product is configured with built-in IC, I3, I3S, or I4 control, with an A-coded 4-position Male M8 connector.

For details on operating configurations without built-in control (C1, C5, Q1, and Q4 control, when available), please refer to Advanced illumination's controller manuals.

Control Specs

C1 CONNECTOR	C5 CONNECTOR	ICS 2 (IC)	ICS 3
For use with: **DCS Series Controllers** Strobe/Continuous Controllers	For use with: **Pulsar 320** High Power Strobe only Controller	In-line Continuous Controller Powered with: **24V Power Supply**	In-line Strobe/ Continuous Controller Default On Powered with: **24V Power Supply**

ICS 3S (I3S)	I4
In-line Strobe/ Continuous Controller Default Off Powered with: **24V Power Supply**	In-line Strobe/ Continuous Controller Powered with: **24V Power Supply**

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@advancedillumination.com.

Company Information

Advanced Illumination
440 State Garage Road, Rochester, VT 05767
Phone: 802.767.3830
Fax: 802.767.2636
Email: info@advancedillumination.com
Web: advancedillumination.com
© 2021 Advanced illumination Inc. All rights reserved

R.J. Wilson, Inc.
Imaging Components for Industry & Science
www.rjwilson.com
sales@rjwilson.com
781-335-5500