## 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

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	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					
	Exempt Applicable Wavelengths: 850, 940					
Photobiological Risk Factor	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					

### **General Specifications**

Model	Lens Type	-	Peak Wavelength	Connector/ Control	Light Conditioning Option	Housing Material	-	Alternative Connector
SL316	x	-	XXX	ХХ	х	XX	-	XXX
SL316	N (Narrow)		455 (royal blue)	C1	D³ (Diffuser)	AL (Anodized Aluminum)		M12 <sup>1</sup>
	M (Medium)		470 (blue)	C5		SS (Stainless Steel)		<b>M8</b> <sup>1</sup>
	W (Wide)		505 (cyan)	IC				
	X² (Ultrawide, Non-Lensed)		530 (green)	13				
			590 (amber)	135				
			625 (red orange)					
			660 (red)					
			730 (IR)					
			850 (IR)					
			940 (IR)					
			WHI (white)					
Example Part SL316W-WHI SL316N-625I	C1		am Angle (FWHM): Narrow = 13° Medium = 26° Wide = 31° Ultrawide = 62°	2)	٦٩ (Ultrawide, Non-Lense) (		jured	



# Optical Specs

Intensity Distribution







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

Working Distance	FWHM (mm)								
(mm)	Narrow		Medium		Wide		Ultrawide		
(11111)	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		

#### Working Area vs Working Distance

#### Light Output vs Working Distance

Working Distance	Irradiance (W/m <sup>2</sup> ) / Illuminance (klx)								
(mm)	Narrow		Medium		Wide		Ultrawide		
(11111)	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

	COLOR	IC FUNCTIONS	13/13S FUNCTIONS	<b>14 FUNCTIONS</b>
	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

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

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	<b>I3/I3S FUNCTIONS</b>	<b>I4 FUNCTIONS</b>
21	1	24 V DC	24 V DC	24 V DC
5-	2	0-10 V ANALOG DIMMING	RESERVED	NPN/ACTIVE LOW TRIGGER
	3	DC GND	DC GND	DC GND
3 4 4 Pl 5		PNP/ACTIVE LOW GATE	PNP/ACTIVE HIGH TRIGGER	PNP/ACTIVE HIGH TRIGGER
		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	13/13S FUNCTIONS	<b>14 FUNCTIONS</b>
	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.

#### ICS 2 (IC) **C1 CONNECTOR C5 CONNECTOR** ICS 3 For use with: For use with: **In-line Continuous** In-line Strobe/ **Continuous Controller DCS Series** Pulsar 320 Controller Controllers **Default On High Power** Strobe/Continuous Strobe only Powered with: Powered with: 24V Power Supply Controllers Controller 24V Power Supply 14 **ICS 3S (I3S)** In-line Strobe/ In-line Strobe/ **Continuous Controller Continuous Controller** Default Off Powered with: Powered with: 24V Power Supply 24V Power Supply

Control Specs

### 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. 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**

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