

## DESCRIPTION

Lanterra 9003-W1 (Up or Down) and 9003-W2 (Up and Down) are 3.25" O.D., line voltage cylinder fixtures with dimmable LED. The luminaire comes in various mountings, surface mount with integral driver in the housing, remote driver mount with round and square wall plates and square wall integral driver, all of which can be mounted over standard 4 inch j-box. The luminaire also comes with various beam optics. It also comes with various lens, louvers and colors or dichroic filters, which can combine up to two at once to create multiple lighting effects. The fixture may be used indoors or outdoors and carries IP66 rating.

## SPECIFICATION FEATURES

### Material

Housing, hood and mounting stem are precision-machined from corrosion resistant billet stock 6061-T6 aluminum.

### Finish

Fixtures constructed from 6061-T6 aluminum are double protected by an ROHS compliant chemical film undercoating and polyester powder coat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

### Hood

Hood is removable and accepts up to two internal accessories at once (lenses, louvers and filters) to achieve multiple lighting effects. Weep holes prevents water and mineral stains from collecting on the lens, even in the straight up position. The flush lens design reduces fixture length, minimizes debris collection and prevents water and mineral stains from collecting on the lens.

### Gasket

Housing and hood are sealed with a high temperature silicone O-ring gasket to prevent water intrusion.

### Lens

Tempered glass lens, factory sealed with high temperature silicone O-ring to prevent water intrusion and breakage due to thermal shock.

### Hardware

Stainless steel hardware is standard to provide maximum corrosion resistance.

### Electrical

Long life LED system coupled with electronic driver (120-277V/50-60Hz) is compatible with TRIAC (Leading Edge Dimming), ELV (Trailing Edge Dimming) and 0-10V dimming to deliver optical performance. Light can be dimmed from 100-1% while maintaining constant CCT. It will operate in -30°C to 50°C unless noted otherwise. The driver incorporates surge protection. LED's are available in 2700K, 3000K, 3500K at 90CRI and 97CRI, 4000K at 80CRI and 97CRI, 5000K

at 80CRI and are industry leading high output with 87% lumen maintenance at 60,000hrs.

### Compliance

Components are UL recognized and luminaires are cULus listed for 50°C ambient environments unless noted otherwise, wet location listed, and ROHS compliant. IP66 Rated. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

### Warranty

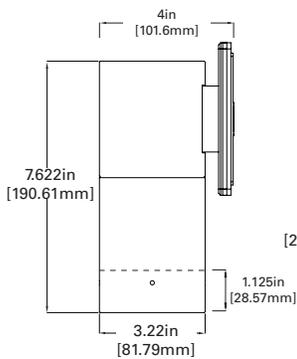
Lumiere warrants the Lanterra series of fixtures against defects in material and workmanship for five (5) years. Auxiliary equipment such as LED drivers carries the original manufacturer's warranty.

Catalog #		Type	
Project		Date	
Comments			
Prepared by			

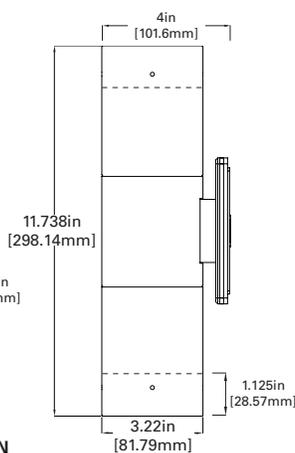


## DIMENSIONS

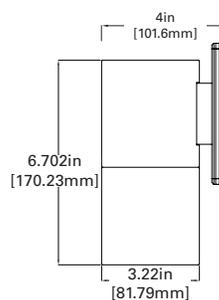
### 9003-W1-RW



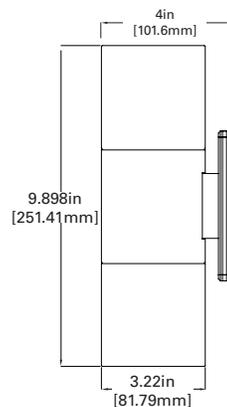
### 9003-W2-RW



### 9003-W1-FL



### 9003-W2-FL



## ORDERING INFORMATION

SERIES	DIRECTION	HOOD	LED CCT & CRI	FIELD REPLACEABLE OPTIC 1		FIELD REPLACEABLE OPTIC 2 <sup>1</sup>		FINISH	LIGHT LEVEL		VOLTAGE	MOUNTING	OPTIONS
				S Spot	M Medium	F Flood	W Wide Flood		S Spot	M Medium			
9003	W1 Up or Down	RW Standard-Recessed Lens with weep holes - Outdoor	<b>Standard CRI</b> LED2790 - 2700K, 90 CRI LED 3090 - 3000K, 90 CRI LED 3590 - 3500K, 90 CRI LED 4080 - 4000K, 80 CRI LED 5080 - 5000K, 80 CRI  <b>Premium CRI</b> LED 2797 - 2700K, 97 CRI LED 3097 - 3000K, 97 CRI LED 3597 - 3500K, 97 CRI LED 4097 - 4000K, 97 CRI	S Spot	M Medium	S Spot	M Medium	<b>Standard Paint Finish</b> BK Black BZ Bronze CS City Silver WT White	L1 Light Level 1 (10W)	L2 Light Level 2 (20W)	Univ 120-277V	Surface Mount - Wall, Ceiling, Ground RSM Round Surface Mount- mounts directly to junction box Thermal Limitations (unless otherwise noted 50C) 9003-W2-xxx-LC2-xxx-RSM (40C) Remote Driver Housing WRR <sup>5</sup> Remote Driver Housing - Round Wall Plate WRS <sup>5</sup> Remote Driver Housing - Square Wall Plate Thermal Limitations (unless otherwise noted 50C) 9003-W2-xxx-LC2-xxx-WRx (40C) Integral Driver Mount WIS <sup>2,3</sup> Wall Integral Driver Plate Thermal Limitations (unless otherwise noted 45C) 9003-(W1,W2)-xx-L1-xx-WIS (50C)	SVPD <sup>23</sup> Standalone integral sensor
	W2 <sup>4</sup> Up and Down			RI Recessed Lens with no weep holes - Indoor	F Flood	W Wide Flood	F Flood		W Wide Flood				
		FL Flush lens hood											

Notes: 1. Only available for double head option (W2)  
 2. 9003-W2 not available in L2  
 3. Only available for Single head, Up or down (W1) with RSM only  
 4. W2 doubles input wattage listed  
 5. Remote Driver distance up to 60'

## Lanterra 9003

LED  
 INTERIOR / EXTERIOR  
 CYLINDER FLOOD LIGHT  
 CERTIFICATION DATA  
 cULus - 1598  
 Wet Location Listed - IP66  
 LM79/LM80 Compliant  
 ROHS Compliant  
 10W LED, L70/102,000@25° Celcius  
 20W LED, L70/102,000@25° Celcius



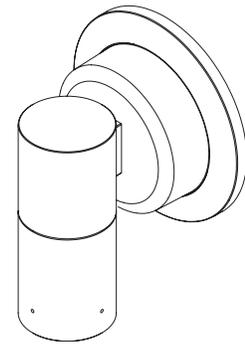
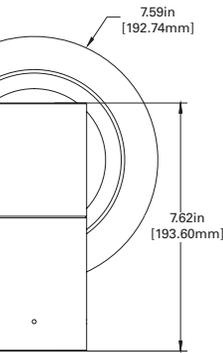
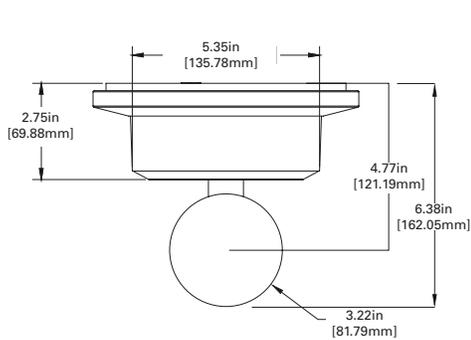
**ACCESSORIES - ORDER SEPARATELY**

ACCESSORIES			OPTICS			
ISHH01LUM	Programming Remote for sensor	<b>Filters</b>	<b>Lens</b>	<b>Louvers</b>	LLR-S-3-4	15° Spot
ISHH02LUM	Personal Control Remote for sensor	F71-3 Peach Dichroic	LSL-3 Linear Spread Lens	LVR-3 45° Hex Cell Louver	LLR-M-3-4	25° Medium
		F72-3 Amber Dichroic	DIF-3 Diffused Lens		LLR-F-3-4	36° Flood
		F73-3 Green Dichroic	OSL-3 Overall Spread Lens		LLR-W-3-4	60° Wide Flood
		F74-3 Medium Blue			LLR-K-3-4	Spot, Medium, Flood, Wide Flood Optic Kit
		F75-3 Yellow Dichroic				
		F76-3 Red Dichroic				
		F77-3 Dark Blue Dichroic				
		F78-3 Light Blue Dichroic				
		F79-3 Neutral Density Dichroic				
		F80-3 Magenta Dichroic				
		F22-3 Red Color				
		F33-3 Blue Color				
		F44-3 Green Color				
		F55-3 Yellow Color				
		F66-3 Mercury Color				

**MOUNTINGS**

**ROUND SURFACE MOUNT (RSM)**

**RSM-W1 (Up or down)**



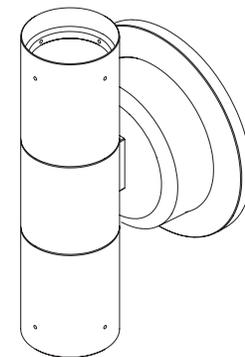
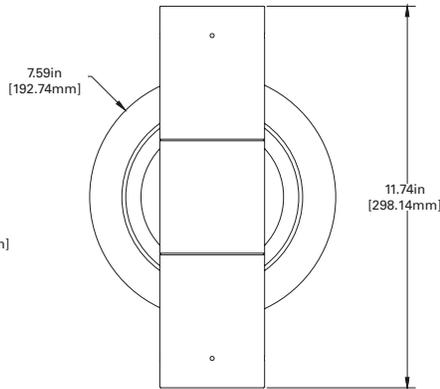
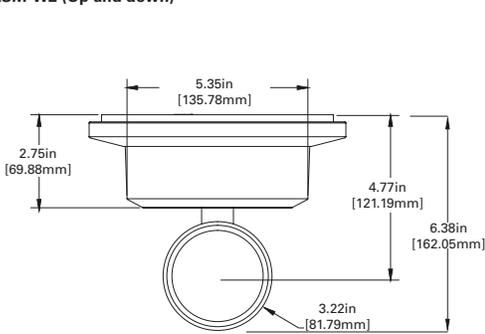
TOP VIEW

FRONT VIEW

ISO VIEW

**ROUND SURFACE MOUNT (RSM)**

**RSM-W2 (Up and down)**



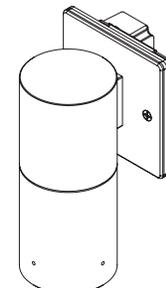
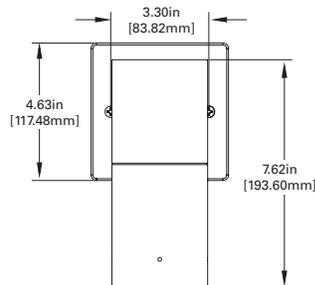
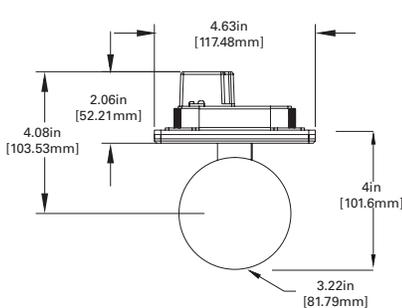
TOP VIEW

FRONT VIEW

ISO VIEW

**WALL INTEGRAL DRIVER PLATE (WIS)**

**WIS-W1 (Up or down)**



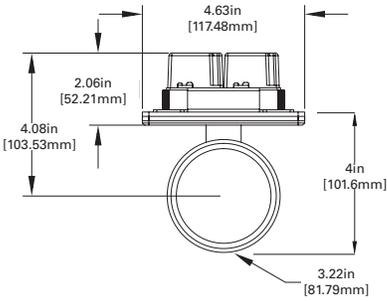
TOP VIEW

FRONT VIEW

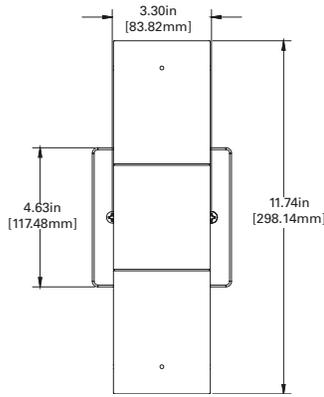
ISO VIEW

**WALL INTEGRAL DRIVER PLATE (WIS)**

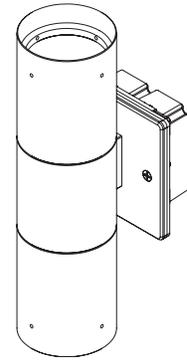
**WIS-W2 (Up and down)**



**TOP VIEW**



**FRONT VIEW**

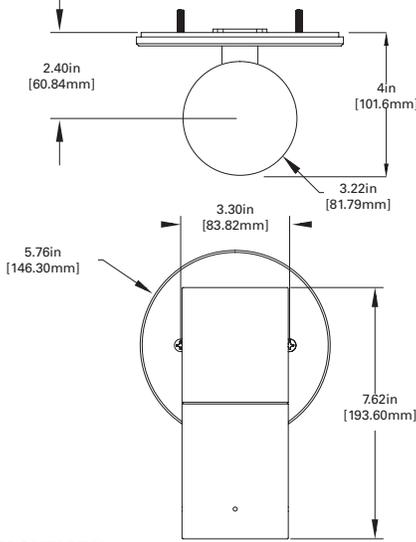


**ISO VIEW**

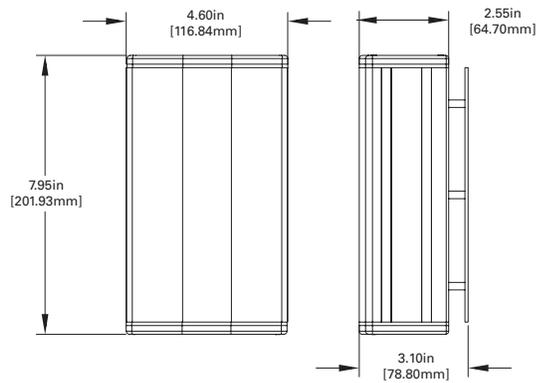
**REMOTE DRIVER HOUSING ROUND WALL (WRR)**

**WRR-W1 (Up or down), as shown**  
**WRS-W1 (Square option also available)**

**TOP VIEW**

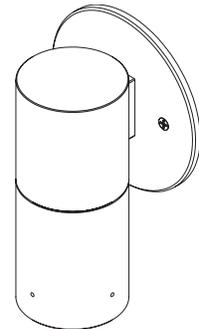


**FRONT VIEW**



Remote Driver distance up to 60'

**REMOTE BOX**

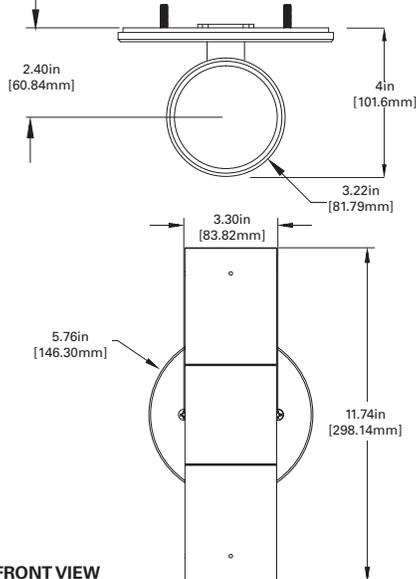


**ISO VIEW**

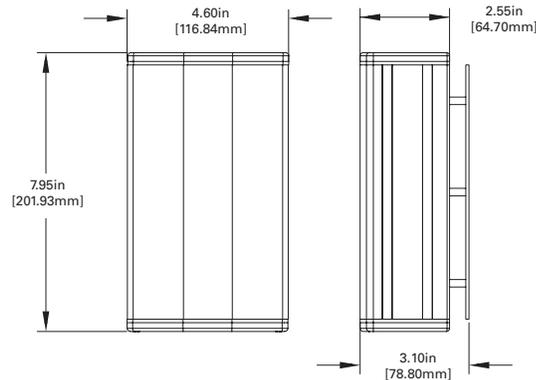
**REMOTE DRIVER HOUSING ROUND WALL (WRR)**

**WRR-W2 (Up and down), as shown**  
**WRS-W2 (Square option also available)**

**TOP VIEW**

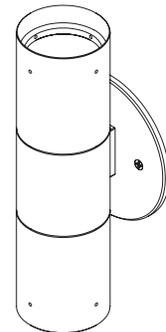


**FRONT VIEW**



Remote Driver distance up to 60'

**REMOTE BOX**

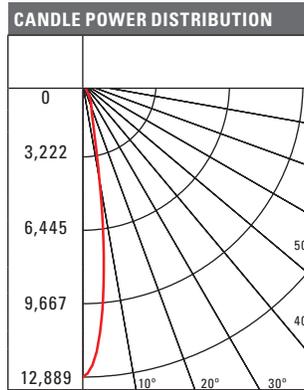
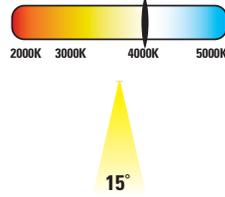


**ISO VIEW**

PHOTOMETRICS

Test Number	P29476
Lumcat	9003-[W1]-X-FL-LED4080-S-BK-L2-UNV
Lumens	1700 Lm
Watts	20.1 W
LPW	84.6 Lm/W
CCT	4000K
SC (0/90/45)	0.27 / 0.27 / 0.27
Beam Angle	16°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4

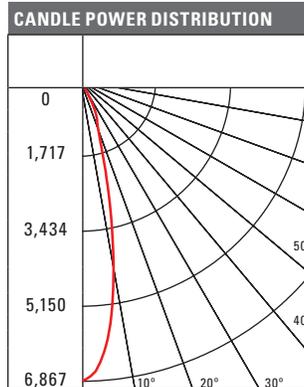
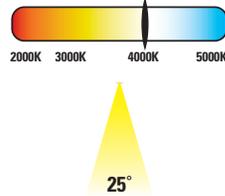


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	3222.2	0.4	0.4
4'	805.6	1	1
6'	358	1.6	1.6
8'	201.4	2	2
10'	128.9	2.6	2.6
15'	57.3	4	4
20'	32.2	5.4	5.4
30'	14.3	8.2	8.2
40'	8.1	10.8	10.8

CANDELA TABLE	
Angle	0-deg
0	12889
5	9969
10	4210
15	1746
20	1126
30	298
40	22
50	6
60	5
70	3
80	1
90	0

Test Number	29477
Lumcat	9003-[W1]-X-FL-LED4080-M-BK-L2-UNV
Lumens	1623 Lm
Watts	20.1 W
LPW	80.8 Lm/W
CCT	4000K
SC (0/90/45)	0.41 / 0.41 / 0.41
Beam Angle	24.1°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4

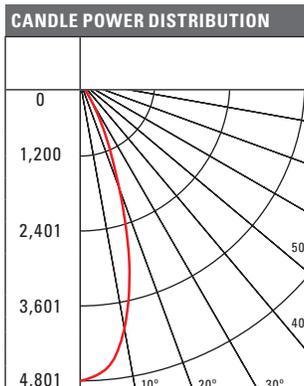
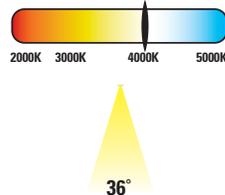


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	1716.8	0.8	0.8
4'	429.2	1.6	1.6
6'	190.8	2.4	2.4
8'	107.3	3.2	3.2
10'	68.7	4	4
15'	30.5	6	6
20'	17.2	8	8
30'	7.6	12.2	12.2
40'	4.3	16.2	16.2

CANDELA TABLE	
Angle	0-deg
0	6867
5	6216
10	4343
15	2302
20	1191
30	326
40	29
50	9
60	5
70	3
80	1
90	0

Test Number	P29478
Lumcat	9003-[W1]-X-FL-LED4080-F-BK-L2-UNV
Lumens	1787 Lm
Watts	20.1 W
LPW	88.9 Lm/W
CCT	4000K
SC (0/90/45)	0.59 / 0.59 / 0.56
Beam Angle	35.4°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4

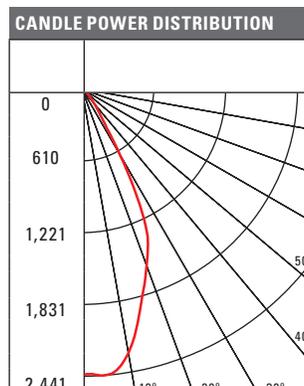
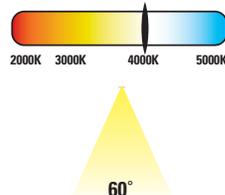


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	1200.2	1	1
4'	300.1	2.2	2.2
6'	133.4	3.4	3.4
8'	75	4.6	4.6
10'	48	5.8	5.8
15'	21.3	8.8	8.8
20'	12	11.6	11.6
30'	5.3	17.6	17.6
40'	3	23.4	23.4

CANDELA TABLE	
Angle	0-deg
0	4801
5	4641
10	4056
15	3055
20	1850
30	365
40	27
50	6
60	3
70	2
80	1
90	0

Test Number	P29479
Lumcat	9003-[W1]-X-FL-LED4080-W-BK-L2-UNV
Lumens	1630 Lm
Watts	20.1 W
LPW	81.1 Lm/W
CCT	4000K
SC (0/90/45)	0.79 / 0.79 / 0.76
Beam Angle	51.1°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4



CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	607.5	1.4	1.4
4'	151.9	3	3
6'	67.5	4.6	4.6
8'	38	6.2	6.2
10'	24.3	7.8	7.8
15'	10.8	11.8	11.8
20'	6.1	15.8	15.8
30'	2.7	23.6	23.6
40'	1.5	31.6	31.6

CANDELA TABLE	
Angle	0-deg
0	2430
5	2439
10	2278
15	1922
20	1605
30	653
40	168
50	65
60	6
70	4
80	1
90	0

CCT/CRI	LED2790	LED3090	LED3590	LED4080	LED5080	LED2797	LED3097	LED3597	LED4097
FC Multiplier	0.754	0.798	0.808	1.000	1.039	0.699	0.706	0.801	0.793

Light Level	L1	L2
FC Multiplier	0.542	1.000

Note: Photometric tables show lumen output for W1 only. For W2 (Up and Down) option, uplight and downlight both match lumen output as W1.

LUMEN TABLE

		9003-[W1] Regressed Hood - Black					
		L1 - 10 W			L2 - 20 W		
		CBCP	Lumens	LPW	CBCP	Lumens	LPW
<b>S</b> Spot 15°	LED2790	5324	621	63.4	9818	1145	57.0
	LED3090	5632	657	67.0	10386	1212	60.3
	LED3590	5705	666	67.9	10520	1227	61.1
	LED4080	7057	823	84.0	13014	1518	75.5
	LED5080	7331	855	87.3	13519	1577	78.5
	LED2797	4935	576	58.7	9100	1062	52.8
	LED3097	4981	581	59.3	9186	1072	53.3
	LED3597	5650	659	67.3	10419	1216	60.5
	LED4097	5596	653	66.6	10319	1204	59.9
<b>M</b> Medium Flood 25°	LED2790	2829	590	60.2	5218	1088	54.1
	LED3090	2993	624	63.7	5519	1151	57.3
	LED3590	3032	632	64.5	5590	1166	58.0
	LED4080	3750	782	79.8	6916	1442	71.8
	LED5080	3896	813	82.9	7185	1498	74.6
	LED2797	2622	547	55.8	4836	1009	50.2
	LED3097	2647	552	56.3	4882	1018	50.7
	LED3597	3003	626	63.9	5537	1155	57.5
	LED4097	2974	620	63.3	5484	1144	56.9
<b>F</b> Flood 36°	LED2790	1943	666	68.0	3584	1229	61.1
	LED3090	2056	705	71.9	3791	1300	64.7
	LED3590	2082	714	72.9	3840	1317	65.5
	LED4080	2576	883	90.1	4750	1629	81.0
	LED5080	2676	918	93.6	4934	1692	84.2
	LED2797	999	560	57.1	1842	1032	51.4
	LED3097	1818	623	63.6	3353	1150	57.2
	LED3597	2062	707	72.2	3803	1304	64.9
	LED4097	2042	700	71.5	3766	1292	64.3
<b>W</b> Wide Flood 60°	LED2790	999	560	57.1	1842	1032	51.4
	LED3090	1057	592	60.4	1949	1092	54.3
	LED3590	1070	600	61.2	1974	1106	55.0
	LED4080	1324	742	75.7	2442	1368	68.1
	LED5080	1376	771	78.7	2537	1421	70.7
	LED2797	926	519	52.9	1708	957	47.6
	LED3097	935	524	53.4	1724	966	48.0
	LED3597	1060	594	60.6	1955	1095	54.5
	LED4097	1050	588	60.0	1936	1085	54.0

TM30 DATA

9003	CCT/CRI	Rf	Rg	Ra	R9
	2790	90.9	98.9	91.7	58.3
	3090	90.8	99.1	92.5	62.6
	3590	90.6	100.4	92.7	67.5
	4080	82.5	94.3	83.1	11.4
	5080	81.6	94.1	82	6
	2797	94.9	100	98.1	86.9
	3097	94	100.3	97.8	88.9
	3597	92.9	99.3	97.2	89.1
	4097	91.5	98.7	95.4	84

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C, 40°C, 50°C	> 87%	> 102,000

POWER TABLE

Number of Heads	Light Level	Input Current (A) at 120 VAC	Input Current (A) at 277 VAC	Input Power (W)
W1	L1	0.08	0.03	10
	L2	0.177	0.088	20.93
	LC1	0.1	0.085	11.4
	LC2	0.183	0.088	21.44
W2	L1	0.16	0.06	20
	L2	0.354	0.176	41.86
	LC1	0.2	0.17	22.8
	LC2	0.366	0.176	42.88

**INTEGRATED SENSOR - SVPD2**

The Lanterra Cylinder 9003 with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The Lanterra Cylinder 9003 delivers superior lighting with integrated PIR occupancy sensing and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated circuit planning or special wiring. The Lanterra Cylinder 9003 delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

The SVPD2 sensor is configured for outdoor use, so the integral daylight sensor will enable the luminaire to automatically adjust to daylight conditions by turning off when sufficient sunlight is present. Consult factory for indoor configuration.

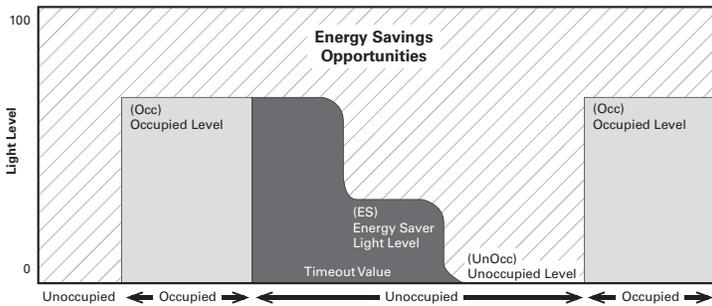
Occupied light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH01LUM). While the default unoccupied level is OFF, a lower light level can be saved instead using the programming remote. The integrated sensor personal remote (Catalog Number: ISHH02LUM) provides code compliant manual raise, lower, ON, OFF control.

The Lanterra Cylinder 9003 with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.



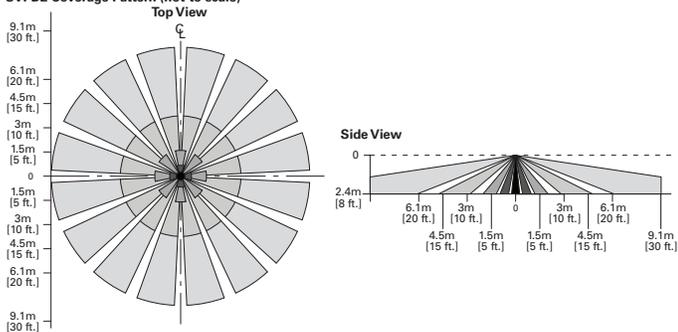
**HOW IT WORKS**

- As the user enters the space controlled by the integral sensor, the lighting turns ON to the occupied light level.
- Lighting will remain at the occupied level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level (default matches occupied level). This adjustable light level is often set to half of the occupied daylight level using the programming remote.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.
- If sufficient sunlight is present, the luminaire will remain OFF, regardless of occupancy.

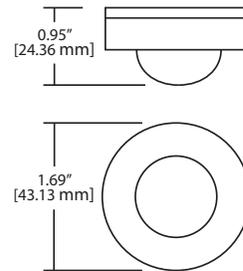


**Coverage**

SVPD2 Coverage Pattern (not to scale)



**Sensor Dimensions**



**Optional Remote Controls**



ISHH01LUM Programming Remote



ISHH02LUM Personal Control Remote