DESCRIPTION

Lanterra 9002-W1 (Up or Down) and 9002-W2 (Up and Down) are small 2.5" O.D., line voltage cylinder fixtures with dimmable LED. The luminiare 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 field replaceable 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.

Catalog # **Project** Date Comments Prepared by

SPECIFICATION FEATURES

Material

Housing and hood are precisionmachined from corrosion resistant billet stock 6061-T6 aluminum, C360 brass, C932 bronze*, C110 copper or 303/304 stainless steel.

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

Natural Metals

Fixtures constructed from brass. bronze, copper or stainless steel are left unpainted to reveal the natural beauty of the material. Brass, bronze* and copper will patina naturally over time.

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.

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

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 86% 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.





Lanterra 9002

I FD

INTERIOR / EXTERIOR CYLINDER FLOOD LIGHT **CERTIFICATION DATA**

cULus - 1598

Wet Location Listed - IP66 LM79/LM80 Compliant **ROHS* Compliant**







DIMENSIONS 9002-W1-RW 9002-W2-RW 9002-W1-FL 9002-W2-FL [82.55mm] 3.25in [82.55mm] 3.25in 3.25in [82 55mm] [82.55mm] 7.2in 9 04in 4 95in [182.88m [149,10mm 1 125in [28.57mm] 2.48in 2.48in [62.99mm] 2.48in 1.125in [62.99mm] [28.57mm] WRS mount shown ORDERING INFORMATION

OKDE	KING INFORM	ATION	(oziooiiiii)										- INCOME OF	ELECT.	
SERIES	DIRECTION	HOOD	LED CCT & CR		FIELD PLACEABLE OPTIC 1	REPLA OP	IELD ACEABLE TIC 21		LIGH	IT LEVEL	VOLTAG		MOUNTING		PTIONS
9002	W1 Up or Down W24 Up and Down	RW Standard-R Lens with v holes - Out RI Recessed I no weep hr Indoor FL Flush lens I	veep door .ens with bles - Premium CRI	CRI M CRI F CRI W CRI CRI CRI CRI CRI	Spot Medium Flood Wide Flood	M M F F W V	Spot Aedium Iood Vide Iood	Standard Paint Finish BK Black BI Bronze CS City Silver WT White Premium Metal ² NBR Natural Brass NBZ Natural Bronze NCP Natural Copper NSS Natural Stain- less Steel	L1	Light Level 1 (10W)	UNV 120 27:	Remot WRR WRS Integra WIS Thermanoted 4	directly to junction box te Driver Housing Se Remote Driver Housing - Round Wall Plate Se Remote Driver Housing - Square Wall Plate al Driver Mount Wall Integral Driver Plate ul Limitations (unless otherwise		Standalor integral sensor

Notes: 1. Only available for double head option (W2)

- 2. Premium metal not available for RSM option
- 3. Only available for Single head. Up or down (W1) with RSM only
- 4. W2 doubles input wattage listed with RSM only 5. Remote Driver up to 60

* ROHS Compliant - For Natural materials consult factory

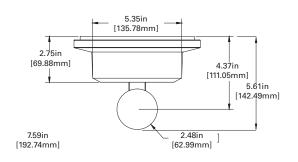
ACCESSORIES - ORDER SEPARATELY

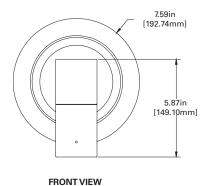
		ACCESSORIES			OPTICS
ISHH01LUM ISHH02LUM	Programming Remote for sensor Personal Control Remote for sensor	Filters F71-2 Peach Dichroic F72-2 Amber Dichroic F73-2 Green Dichroic F74-2 Medium Blue F75-2 Yellow Dichroic F76-2 Red Dichroic F77-2 Dark Blue Dichroic F78-2 Light Blue Dichroic F79-2 Neutral Density Dichroic F80-2 Magenta Dichroic F22-2 Red Color F33-2 Blue Color F35-2 Yellow Color F66-2 Mercury Color	Lens LSL-2 Linear Spread Lens DIF-2 Diffused Lens OSL-2 Overall Spread Lens	Louver LVR-2 45° Hex Cell Louver	LLR-S-2 15° Spot LLR-M-2 25° Medium LLR-F-2 40° Flood LLR-W-2 55° Wide Flood LLR-K-2 Spot, Medium, Flood, Wide Flood kit LLR-F-LC-2 40° Flood color tuning optic LLR-W-LC-2 55° Wide Flood color tuning optic LLR-K-LC-2 Flood, Wide Flood tuning optic kit

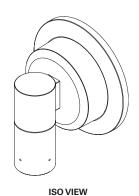
MOUNTINGS

ROUND SURFACE MOUNT (RSM)

RSM-W1 (Up or down)



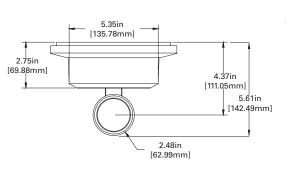


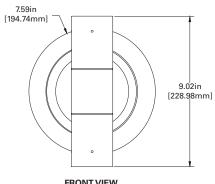


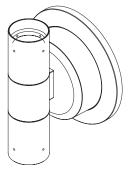
ROUND SURFACE MOUNT (RSM)

RSM-W2 (Up and down)

TOP VIEW



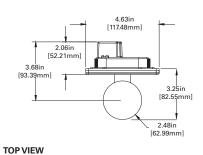


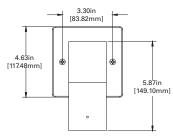


TOP VIEW FRONT VIEW ISO VIEW

WALL INTEGRAL DRIVER PLATE (WIS)

WIS-W1 (Up or down)





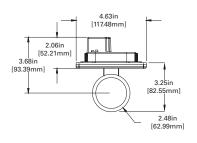


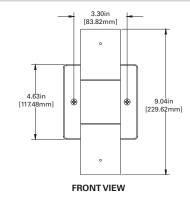
FRONT VIEW ISO VIEW

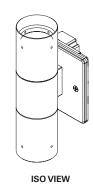


WALL INTEGRAL DRIVER PLATE (WIS)

WIS-W2 (Up and down)





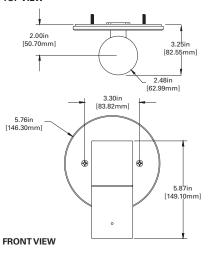


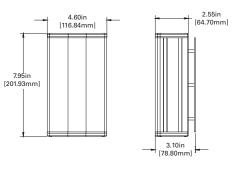
TOP VIEW

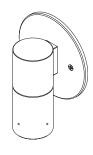
REMOTE DRIVER HOUSING ROUND WALL (WRR)

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

TOP VIEW







Remote Driver distance up to 60'

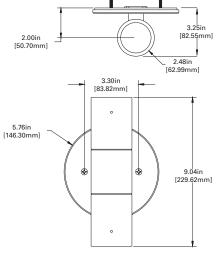
REMOTE BOX

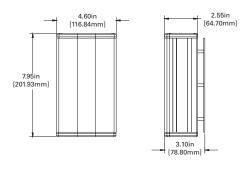
ISO VIEW

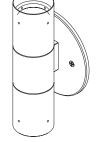
REMOTE DRIVER HOUSING ROUND WALL (WRR)

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

TOP VIEW





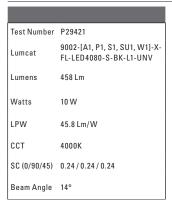


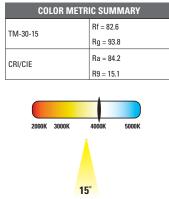
Remote Driver distance up to 60'

FRONT VIEW REMOTE BOX ISO VIEW



PHOTOMETRICS

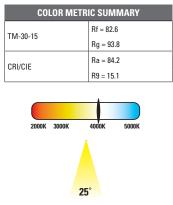


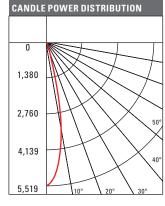


CANDLE	POWER DISTRIBUTION
0	
1,512	
3,024	50°
4,535	40°
6,047	10° 20° 30°

CONE	OF LIGH	T		CANDELA	TABLE
Horizon	ıtal Illumi	nance	on Floor	Angle	0-deg
MH	FC	L	W	0	6047
2'	1511.8	0.4	0.4	5	4064
4'	377.9	0.8	0.8	10	1430
6'	168	1.4	1.4	15	292
-				20	137
8'	94.5	1.8	1.8	30	21
10'	60.5	2.4	2.4	40	7
15'	26.9	3.6	3.6	50	3
20'	15.1	4.8	4.8	60	2
				70	1
30'	6.7	7.2	7.2	80	0
40'	3.8	9.6	9.6	90	0

Test Number	P29422
Lumcat	9002-[W1]-X-FL-LED4080- M-BK-L1-UNV
Lumens	985 Lm
Watts	10 W
LPW	98.5 Lm/W
ССТ	4000K
SC (0/90/45)	0.4/0.4/0.36
Beam Angle	23.1°

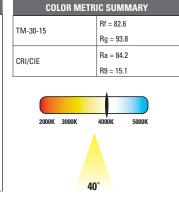


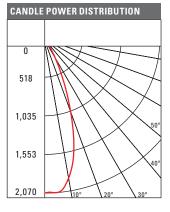


CONE	OF LIGH	T	
Horizon	tal Illumir	nance c	n Floor
MH	FC	L	W
2'	1379.8	0.6	0.6
4'	344.9	1.4	1.4
6'	153.3	2.2	2.2
8'	86.2	3	3
10'	55.2	3.8	3.8
15'	24.5	5.8	5.8
20'	13.8	7.8	7.8
30'	6.1	11.8	11.8
40'	3.4	15.8	15.8

	CANDELA	TABLE
Floor	Angle	0-deg
W	0	5519
0.6	5	4909
1.4	10	3391
	15	1302
2.2	20	457
3	30	133
3.8	40	22
5.8	50	6
7.8	60	2
	70	1
11.8	80	0
15.8	90	0

Test Number	P29423
Lumcat	9002-[W1]-X-FL-LED4080-F- BK-L1-UNV
Lumens	1015 Lm
Watts	10W
LPW	101.5 Lm/W
ССТ	4000K
SC (0/90/45)	0.66 / 0.66 / 0.63
Beam Angle	40.3°

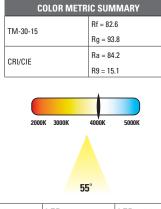




CONE OF LIGHT					
Horizon	tal IIIun	ninance	on Floor		
MH	FC	L	W		
2'	517.5	1.2	1.2		
4'	129.4	2.6	2.6		
6'	57.5	3.8	3.8		
8'	32.3	5.2	5.2		
10'	20.7	6.6	6.6		
15'	9.2	9.8	9.8		
20'	5.2	13.2	13.2		
30'	2.3	19.8	19.8		
40'	1.3	26.4	26.4		

CANDELA	TABLE
Angle	0-deg
0	2070
5	2070
10	1900
15	1547
20	1048
30	306
40	60
50	11
60	3
70	2
80	0
90	0

Test Number	P29424
Lumcat	9002-[W1]-X-FL-LED4080- W-BK-L1-UNV
Lumens	947 Lm
Watts	10 W
LPW	94.7 Lm/W
ССТ	4000K
SC (0/90/45)	0.87 / 0.87 / 0.88
Beam Angle	57.1°



CANDLE	POWER DISTRIBUTION
0	
262	
523	HH/X
	50°
785	H
	40°
1,046	10° 20° 30°

CONE OF LIGHT					CANDELA	TABLE
	tal Illumii	nance d		Angle	0-deg	
МН	FC	L	W		0	1018
2'	257.5	1.6	1.6		5	1042
4'	64.4	3.4	3.4		10	1005
6'	28.6	5	5	, I	15	896
				20	754	
8'	16.1	6.8	6.8		30	477
10'	10.3	8.6	8.6		40	189
15'	4.6	12.8	12.8		50	56
20'	2.6	17.2	17.2		60	13
30'	1.1	25.8	25.8	70	2	
				80	0	
40'	0.6	34.4	34.4	34.4	90	0

CCT/CRI	LED2790	LED3090	LED3590	LED4080	LED5080	LED2797	LED3097	LED3597	LED4097
FC Multiplier	0.757	0.802	0.869	1.000	1.092	0.722	0.773	0.813	0.833

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



		R	9002-[W1] egressed Hood - Blad L1 - 10W	:k
		CBCP	Lumens	LPW
	LED2790	4566	358	35.8
	LED3090	4837	379	37.9
	LED3590	5236	411	41.1
S	LED4080	6028	473	47.3
Spot	LED5080	6581	516	51.6
15°	LED2797	4350	341	34.1
	LED3097	4657	365	36.5
	LED3597	4898	384	38.4
	LED4097	5022	394	39.4
	LED2790	4252	724	72.4
	LED3090	4505	767	76.7
	LED3590	4877	831	83.1
M	LED4080	5614	956	95.6
Medium Flood	LED5080	6129	1044	104.4
25°	LED2797	4051	690	69.0
	LED3097	4337	739	73.9
	LED3597	4562	777	77.7
	LED4097	4677	797	79.7
	LED2790	1604	746	74.6
	LED3090	1699	791	79.1
	LED3590	1840	856	85.6
F	LED4080	2118	985	98.5
Flood	LED5080	2312	1076	107.6
40°	LED2797	1528	711	71.1
	LED3097	1636	761	76.1
	LED3597	1721	801	80.1
	LED4097	1764	821	82.1
	LED2790	798	685	68.5
	LED3090	846	726	72.6
	LED3590	916	785	78.5
W	LED4080	1054	904	90.4
Wide Flood	LED5080	1151	987	98.7
55°	LED2797	761	653	35
	LED3097	814	699	69.9
	LED3597	856	735	73.5
	LED4097	878	753	75.3

TM30 DATA

	CCT/CRI	Rf	Rg	Ra	R9
	2790	91.8	100	93.8	66.3
	3090	91.3	99.1	92.1	62.6
02	3590	90.4	98.7	92.5	65.5
9002	4080	82.6	93.8	84.2	15.1
	5080	81.4	93.3	83.8	14
	2797	94.7	100.3	98.2	92.7
	3097	94	100.1	98.6	94.2
	3597	93	99.6	98.2	95.3
	4097	91.1	97.8	95.9	87.7

LUMEN MAINTENANCE

Ambient Tempurature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)	
25°C, 40°C, 40°C	> 86%	> 90,000	

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
VVI	LC1	0.1	0.085	11.4
W2	L1	0.16	0.06	20
VV2	LC1	0.2	0.17	22.8



The Lanterra Cylinder 9002 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 9002 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 9002 delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

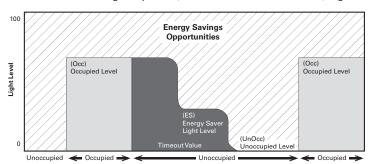
The SVPD2 sensor is configured for outdoor use, so the integral daylight sensor will enable the luminaire to automatically adjust to daylight conditions by turning off when sufficient sunlight is present. Consult factory for indoor configuration.

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.

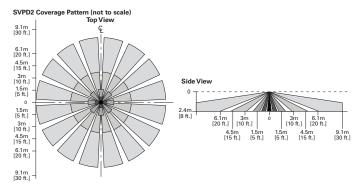
The Lanterra Cylinder 9002 with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

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



Optional Remote Controls





Sensor Dimensions

