

# LANTANA LED

## NEOTERIC CYLINDER SMALL BEAM ANGLE (REFLECTOR)

### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS

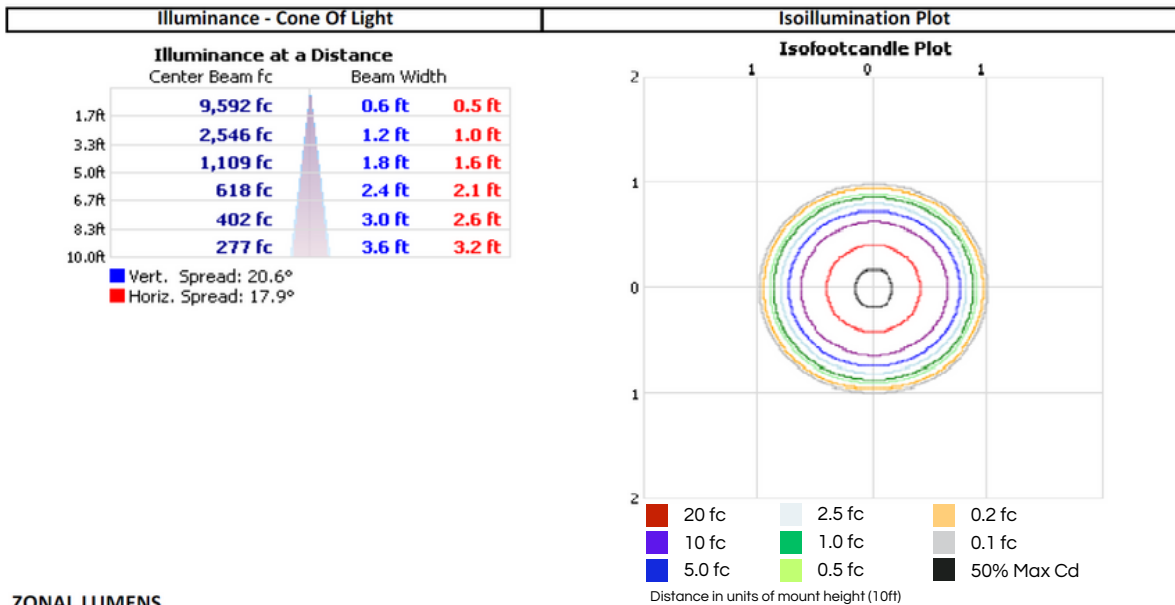
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ( )
Up	277.07	171.7	44.27	0.931

Light Output (lm)	Efficacy (lm/W)
5473.9	123.6

### LUMINOUS INTENSITY SUMMARY (candela)

Vertical Angle (°)	Horizontal					Polar Candela Plot
	0	22.5	45	67.5	90	
0	27722	27722	27722	27722	27722	
5	22825	22800	23186	23462	23532	
10	14500	14799	14069	12480	11300	
15	6021	6096	5796	5342	5050	
20	3111	3121	3101	2988	2872	
25	2200	2194	2213	2184	2152	
30	1903	1881	1905	1931	1928	
35	1222	1222	1270	1297	1302	
40	326	333	374	378	369	
45	21	24	27	25	24	
50	4	3	7	4	3	
55	3	1	1	2	2	
60	2	4	1	2	2	
65	3	3	1	3	2	
70	0	1	3	2	0	
75	2	2	2	0	1	
80	1	0	0	1	1	
85	0	1	0	2	2	
90	0	0	0	0	0	
95	0	0	0	0	0	
100	0	0	0	0	0	

### ILLUMINANCE SUMMARY



### ZONAL LUMENS

Zonal Lumen Summary					
Zone (°)	Lumens	Luminaire	Zone (°)	Lumens	Total
0-30	4,669.8	85.3%	90-100	0.0	0.0%
0-40	5,411.6	98.9%	100-110	0.0	0.0%
0-60	5,470.1	99.9%	110-120	0.0	0.0%
60-90	3.8	0.1%	120-130	0.0	0.0%
70-100	1.9	0.0%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	5,473.9	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	5,473.9	100.0%	170-180	0.0	0.0%
0-10	1883.5	34.4%			
10-20	1738.0	31.8%			
20-30	1048.3	19.2%			
30-40	741.9	13.6%			
40-50	56.2	1.0%			
50-60	2.3	0.0%			
60-70	1.8	0.0%			
70-80	1.3	0.0%			
80-90	0.7	0.0%			

# LANTANA LED

## NEOTERIC CYLINDER MEDIUM BEAM ANGLE (REFLECTOR)

### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS

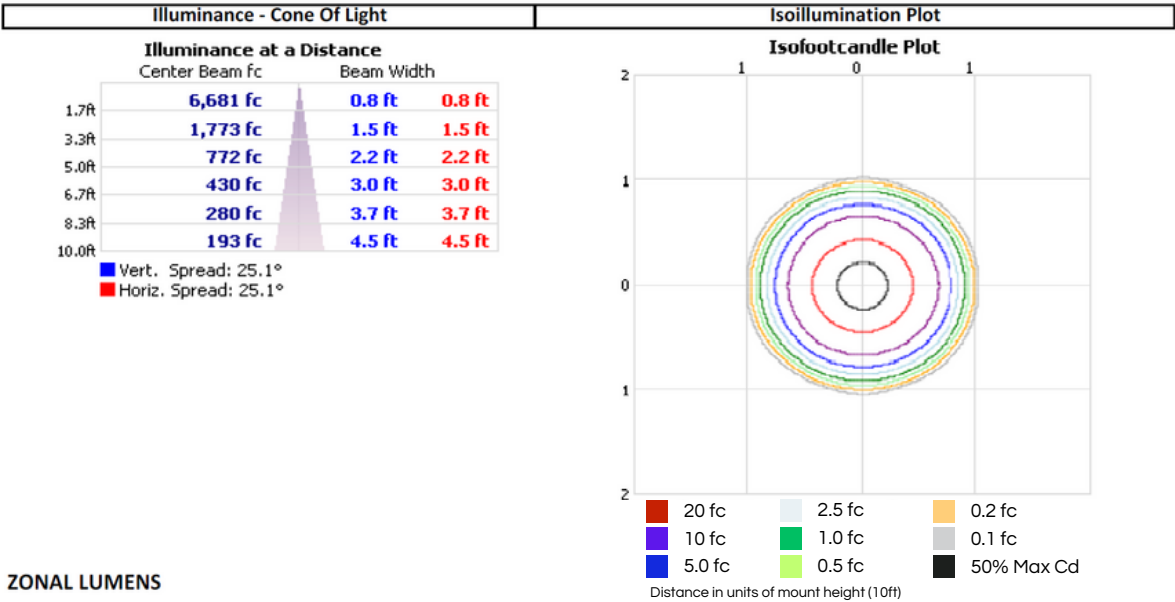
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (l)
Up	277.07	171.7	44.27	0.930

Light Output (lm)	Efficacy (lm/W)
5596.6	126.4

### LUMINOUS INTENSITY SUMMARY (candela)

Vertical Angle (°)	Horizontal					Polar Candela Plot
	0	22.5	45	67.5	90	
0	19307	19307	19307	19307	19307	<p><b>Polar Candela Distribution</b></p> <p>VA: 0° 10° 20° 30° 40°</p> <ul style="list-style-type: none"> <li>- 0° H</li> <li>- 90° H</li> <li>- 22.5° H</li> <li>- 45° H</li> <li>- 67.5° H</li> </ul>
5	17206	17210	17191	17165	17177	
10	12346	12324	12346	12334	12312	
15	7221	7209	7236	7214	7182	
20	3646	3650	3656	3628	3610	
25	2385	2393	2388	2385	2386	
30	1990	1994	1995	1992	1996	
35	1519	1520	1535	1515	1517	
40	588	594	600	578	575	
45	35	32	35	32	30	
50	8	7	9	8	7	
55	1	2	0	1	3	
60	3	0	2	2	2	
65	2	2	1	2	2	
70	0	1	0	0	2	
75	0	1	0	1	1	
80	0	0	3	0	0	
85	0	0	0	1	1	
90	0	0	0	0	0	
95	0	0	0	0	0	
100	0	0	0	0	0	

### ILLUMINANCE SUMMARY



### ZONAL LUMENS

Zonal Lumen Summary					
Zone (°)	Lumens	Luminaire	Zone (°)	Lumens	Total
0-30	4,612.7	82.4%	90-100	0.0	0.0%
0-40	5,492.8	98.1%	100-110	0.0	0.0%
0-60	5,593.9	100.0%	110-120	0.0	0.0%
60-90	2.7	0.0%	120-130	0.0	0.0%
70-100	1.4	0.0%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	5,596.6	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	5,596.6	100.0%	170-180	0.0	0.0%
0-10	1473.6	26.3%			
10-20	1985.1	35.5%			
20-30	1154.1	20.6%			
30-40	880.1	15.7%			
40-50	98.9	1.8%			
50-60	2.2	0.0%			
60-70	1.3	0.0%			
70-80	0.9	0.0%			
80-90	0.4	0.0%			

# LANTANA LED

## NEOTERIC CYLINDER LARGE BEAM ANGLE (REFLECTOR)

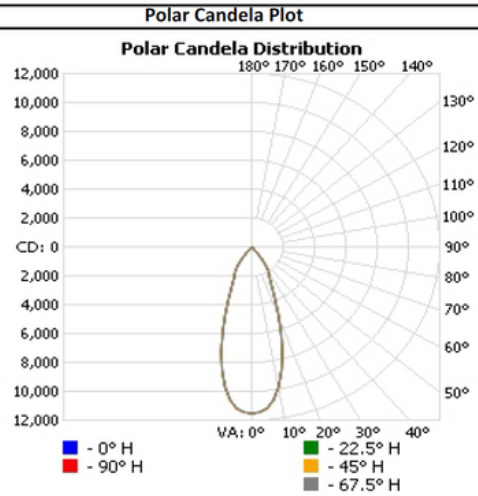
### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ( )
Up	277.04	171.5	44.24	0.931

Light Output (lm)	Efficacy (lm/W)
5547.1	125.4

### LUMINOUS INTENSITY SUMMARY (candela)

Vertical Angle (°)	Horizontal				
	0	22.5	45	67.5	90
0	11448	11448	11448	11448	11448
5	11192	11209	11209	11185	11236
10	9814	9827	9824	9833	9839
15	7490	7540	7539	7504	7517
20	4942	4956	4966	4951	4954
25	3026	3037	3030	3029	3034
30	2163	2185	2176	2171	2168
35	1585	1582	1577	1562	1561
40	609	618	603	593	600
45	34	33	33	33	33
50	11	8	6	7	8
55	2	4	3	3	3
60	2	3	2	1	3
65	3	2	1	0	2
70	1	0	1	0	3
75	1	1	3	0	1
80	2	0	2	0	0
85	0	1	0	1	0
90	0	0	0	0	0
95	0	0	0	0	0
100	0	0	0	0	0



### ILLUMINANCE SUMMARY

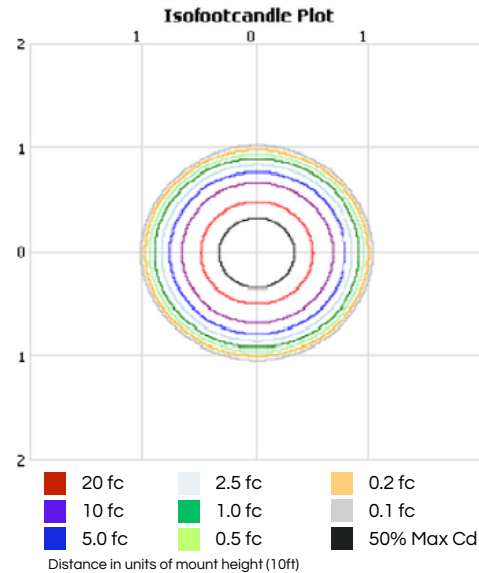
Illuminance - Cone Of Light	Isoillumination Plot
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**Illuminance at a Distance**

Center Beam fc	Beam Width
3,981 fc	1.1 ft
1,057 fc	2.2 ft
460 fc	3.3 ft
256 fc	4.5 ft
167 fc	5.5 ft
115 fc	6.7 ft

Legend:

- Blue: Vert. Spread: 36.8°
- Red: Horiz. Spread: 36.8°



### ZONAL LUMENS

Zonal Lumen Summary					
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Zone (°)	Lumens	Luminaire
0-30	4,520.1	81.5%
0-40	5,440.3	98.1%
0-60	5,544.4	100.0%
60-90	2.7	0.0%
70-100	1.4	0.0%
90-120	0.0	0.0%
0-90	5,547.1	100.0%
90-180	0.0	0.0%
0-180	5,547.1	100.0%

Zone (°)	Lumens	Total	Zone (°)	Lumens	Total
0-10	1022.9	18.4%	90-100	0.0	0.0%
10-20	2039.8	36.8%	100-110	0.0	0.0%
20-30	1457.4	26.3%	110-120	0.0	0.0%
30-40	920.2	16.6%	120-130	0.0	0.0%
40-50	101.0	1.8%	130-140	0.0	0.0%
50-60	3.0	0.1%	140-150	0.0	0.0%
60-70	1.3	0.0%	150-160	0.0	0.0%
70-80	0.9	0.0%	160-170	0.0	0.0%
80-90	0.5	0.0%	170-180	0.0	0.0%

# LANTANA LED

## NEOTERIC CYLINDER EXTRA WIDE BEAM ANGLE (REFLECTOR)

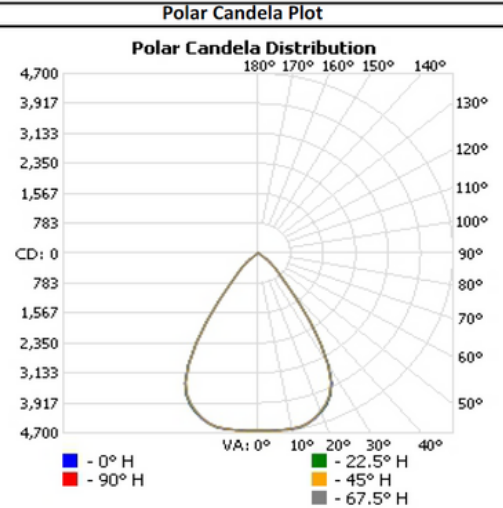
### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ( )
Up	277.05	171.8	44.28	0.930

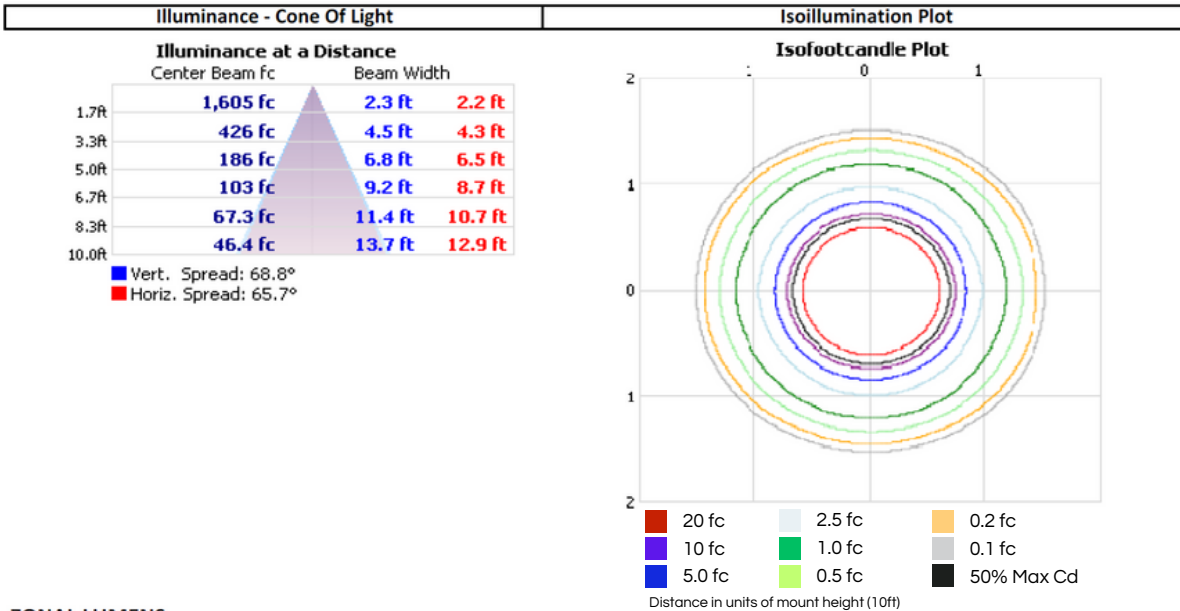
Light Output (lm)	Efficacy (lm/W)
5547.4	125.3

### LUMINOUS INTENSITY SUMMARY (candela)

Vertical Angle (°)	Horizontal				
	0	22.5	45	67.5	90
0	4638	4638	4638	4638	4638
5	4650	4660	4665	4659	4650
10	4671	4656	4662	4652	4653
15	4614	4615	4611	4597	4595
20	4431	4421	4401	4384	4406
25	4102	4095	4076	4068	4081
30	3381	3381	3348	3344	3370
35	2182	2195	2159	2117	2153
40	1087	1099	1070	1026	1051
45	648	657	626	598	631
50	378	390	365	336	358
55	120	113	130	127	117
60	7	8	10	9	6
65	1	2	2	2	2
70	1	1	1	1	1
75	0	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0
95	0	0	0	0	0
100	0	0	0	0	0



### ILLUMINANCE SUMMARY



### ZONAL LUMENS

Zonal Lumen Summary					
Zone (°)	Lumens	Luminaire	Zone (°)	Lumens	Total
0-30	3,579.2	64.5%	90-100	0.0	0.0%
0-40	4,915.0	88.6%	100-110	0.0	0.0%
0-60	5,544.2	99.9%	110-120	0.0	0.0%
60-90	3.2	0.1%	120-130	0.0	0.0%
70-100	0.7	0.0%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	5,547.4	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	5,547.4	100.0%	170-180	0.0	0.0%
0-10	444.2	8.0%			
10-20	1293.0	23.3%			
20-30	1841.9	33.2%			
30-40	1335.8	24.1%			
40-50	500.8	9.0%			
50-60	128.4	2.3%			
60-70	2.5	0.0%			
70-80	0.5	0.0%			
80-90	0.2	0.0%			



# LANTANA LED

## NEOTERIC CYLINDER SMALL BEAM ANGLE (LENS)

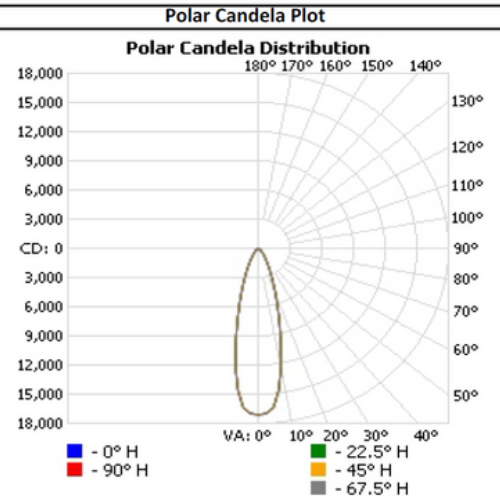
### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ( )
Up	277.07	191.7	50.03	0.942

Light Output (lm)	Efficacy (lm/W)
6119.1	122.3

### LUMINOUS INTENSITY SUMMARY (candela)

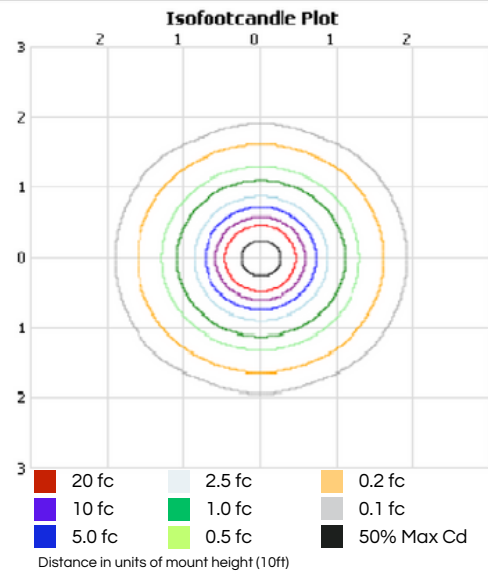
Vertical Angle (°)	Horizontal				
	0	22.5	45	67.5	90
0	17087	17087	17087	17087	17087
5	16379	16379	16372	16447	16456
10	12438	12410	12371	12444	12425
15	7651	7661	7703	7690	7637
20	4579	4590	4585	4591	4553
25	2709	2700	2695	2694	2685
30	1653	1631	1634	1622	1624
35	1045	1032	1034	1030	1028
40	665	661	655	655	648
45	435	431	428	422	421
50	281	276	276	269	269
55	185	178	182	174	174
60	124	116	126	122	118
65	88	71	89	88	79
70	57	36	64	61	52
75	24	13	27	28	19
80	5	3	9	7	7
85	1	2	0	2	3
90	0	0	0	0	0
95	0	0	0	0	0
100	0	0	0	0	0



### ILLUMINANCE SUMMARY

Illuminance - Cone Of Light	Isoillumination Plot
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Center Beam fc	Beam Width	
	Vert. Spread: 28.0°	Horiz. Spread: 28.0°
1.7ft	5,912 fc	0.8 ft
3.3ft	1,569 fc	1.6 ft
5.0ft	683 fc	2.5 ft
6.7ft	381 fc	3.3 ft
8.3ft	248 fc	4.1 ft
10.0ft	171 fc	5.0 ft



### ZONAL LUMENS

### Zonal Lumen Summary

Zone (°)	Lumens	Luminaire
0-30	4,842.7	79.1%
0-40	5,504.3	90.0%
0-60	6,006.8	98.2%
60-90	112.3	1.8%
70-100	28.7	0.5%
90-120	0.0	0.0%
0-90	6,119.1	100.0%
90-180	0.0	0.0%
0-180	6,119.1	100.0%

Zone (°)	Lumens	Total	Zone (°)	Lumens	Total
0-10	1424.3	23.3%	90-100	0.0	0.0%
10-20	2142.4	35.0%	100-110	0.0	0.0%
20-30	1276.0	20.9%	110-120	0.0	0.0%
30-40	661.6	10.8%	120-130	0.0	0.0%
40-50	337.3	5.5%	130-140	0.0	0.0%
50-60	165.2	2.7%	140-150	0.0	0.0%
60-70	83.6	1.4%	150-160	0.0	0.0%
70-80	26.7	0.4%	160-170	0.0	0.0%
80-90	2.1	0.0%	170-180	0.0	0.0%

# LANTANA LED

## NEOTERIC CYLINDER MEDIUM BEAM ANGLE (LENS)

### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS

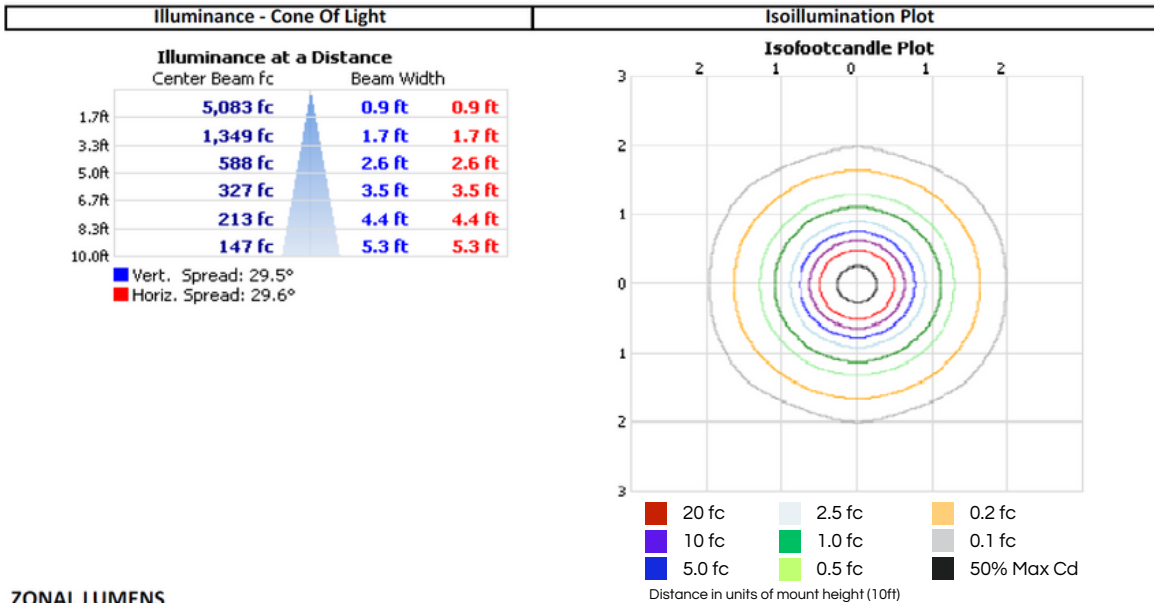
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)
Up	277.08	191.8	50.05	0.942

Light Output (lm)	Efficacy (lm/W)
6059.7	121.1

### LUMINOUS INTENSITY SUMMARY (candela)

Vertical Angle (°)	Horizontal					Polar Candela Plot
	0	22.5	45	67.5	90	
0	14691	14691	14691	14691	14691	<p><b>Polar Candela Distribution</b></p> <p>VA: 0° 10° 20° 30° 40°</p> <ul style="list-style-type: none"> <li>- 0° H</li> <li>- 90° H</li> <li>- 22.5° H</li> <li>- 45° H</li> <li>- 67.5° H</li> </ul>
5	13254	13213	13244	13270	13270	
10	10188	10163	10168	10208	10193	
15	7203	7188	7203	7231	7242	
20	4782	4774	4788	4804	4798	
25	3108	3107	3099	3109	3098	
30	2012	2009	1997	2007	1992	
35	1285	1273	1267	1263	1247	
40	785	760	764	749	751	
45	464	447	449	444	441	
50	285	276	275	275	267	
55	186	179	182	183	175	
60	135	129	131	132	127	
65	98	83	107	105	94	
70	69	51	82	81	65	
75	23	18	31	32	24	
80	3	4	7	5	4	
85	0	2	1	2	0	
90	0	0	0	0	0	
95	0	0	0	0	0	
100	0	0	0	0	0	

### ILLUMINANCE SUMMARY



### ZONAL LUMENS

Zonal Lumen Summary					
Zone (°)	Lumens	Luminaire	Zone (°)	Lumens	Total
0-30	4,592.8	75.8%	90-100	0.0	0.0%
0-40	5,399.1	89.1%	100-110	0.0	0.0%
0-60	5,929.3	97.8%	110-120	0.0	0.0%
60-90	130.4	2.2%	120-130	0.0	0.0%
70-100	32.4	0.5%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	6,059.7	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	6,059.7	100.0%	170-180	0.0	0.0%
0-10	1158.1	19.1%			
10-20	1987.7	32.8%			
20-30	1446.9	23.9%			
30-40	806.3	13.3%			
40-50	361.5	6.0%			
50-60	168.8	2.8%			
60-70	98.0	1.6%			
70-80	30.6	0.5%			
80-90	1.9	0.0%			

# LANTANA LED

## NEOTERIC CYLINDER MEDIUM BEAM ANGLE (LENS)

### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS

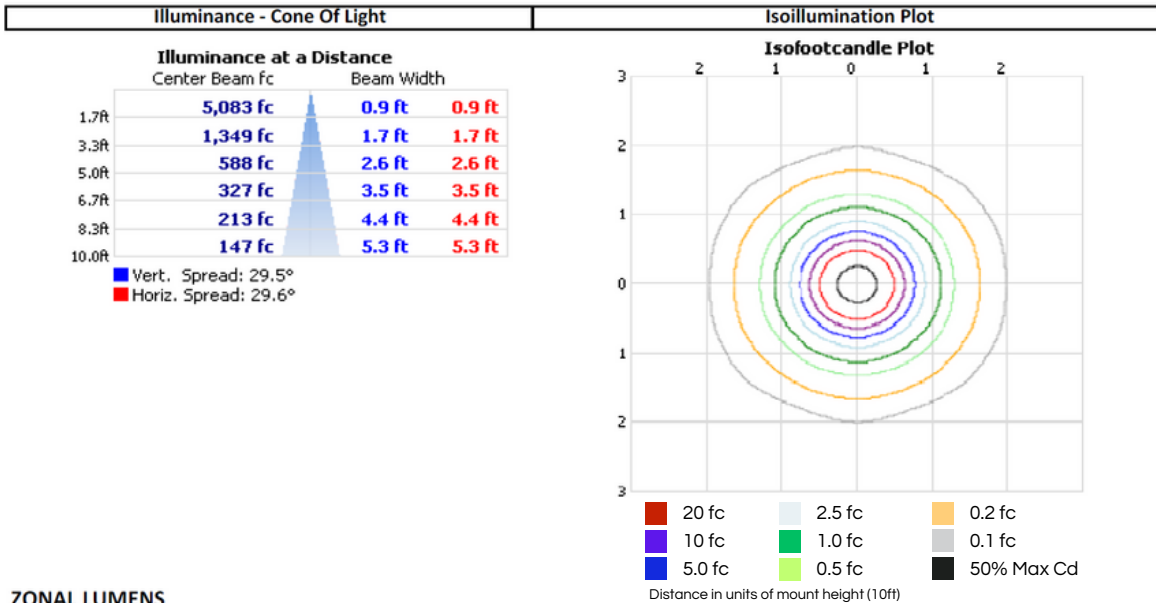
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)
Up	277.08	191.8	50.05	0.942

Light Output (lm)	Efficacy (lm/W)
6059.7	121.1

### LUMINOUS INTENSITY SUMMARY (candela)

Vertical Angle (°)	Horizontal					Polar Candela Plot
	0	22.5	45	67.5	90	
0	14691	14691	14691	14691	14691	<p><b>Polar Candela Distribution</b></p> <p>15,000 12,500 10,000 7,500 5,000 2,500 CD: 0 2,500 5,000 7,500 10,000 12,500 15,000</p> <p>180° 170° 160° 150° 140° 130° 120° 110° 100° 90° 80° 70° 60° 50°</p> <p>VA: 0° 10° 20° 30° 40°</p> <p>■ - 0° H     ■ - 22.5° H ■ - 90° H   ■ - 45° H                  ■ - 67.5° H</p>
5	13254	13213	13244	13270	13270	
10	10188	10163	10168	10208	10193	
15	7203	7188	7203	7231	7242	
20	4782	4774	4788	4804	4798	
25	3108	3107	3099	3109	3098	
30	2012	2009	1997	2007	1992	
35	1285	1273	1267	1263	1247	
40	785	760	764	749	751	
45	464	447	449	444	441	
50	285	276	275	275	267	
55	186	179	182	183	175	
60	135	129	131	132	127	
65	98	83	107	105	94	
70	69	51	82	81	65	
75	23	18	31	32	24	
80	3	4	7	5	4	
85	0	2	1	2	0	
90	0	0	0	0	0	
95	0	0	0	0	0	
100	0	0	0	0	0	

### ILLUMINANCE SUMMARY



### ZONAL LUMENS

Zonal Lumen Summary					
Zone (°)	Lumens	Luminaire	Zone (°)	Lumens	Total
0-30	4,592.8	75.8%	90-100	0.0	0.0%
0-40	5,399.1	89.1%	100-110	0.0	0.0%
0-60	5,929.3	97.8%	110-120	0.0	0.0%
60-90	130.4	2.2%	120-130	0.0	0.0%
70-100	32.4	0.5%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	6,059.7	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	6,059.7	100.0%	170-180	0.0	0.0%
0-10	1158.1	19.1%			
10-20	1987.7	32.8%			
20-30	1446.9	23.9%			
30-40	806.3	13.3%			
40-50	361.5	6.0%			
50-60	168.8	2.8%			
60-70	98.0	1.6%			
70-80	30.6	0.5%			
80-90	1.9	0.0%			

# LANTANA LED

## NEOTERIC CYLINDER LARGE BEAM ANGLE (LENS)

### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS

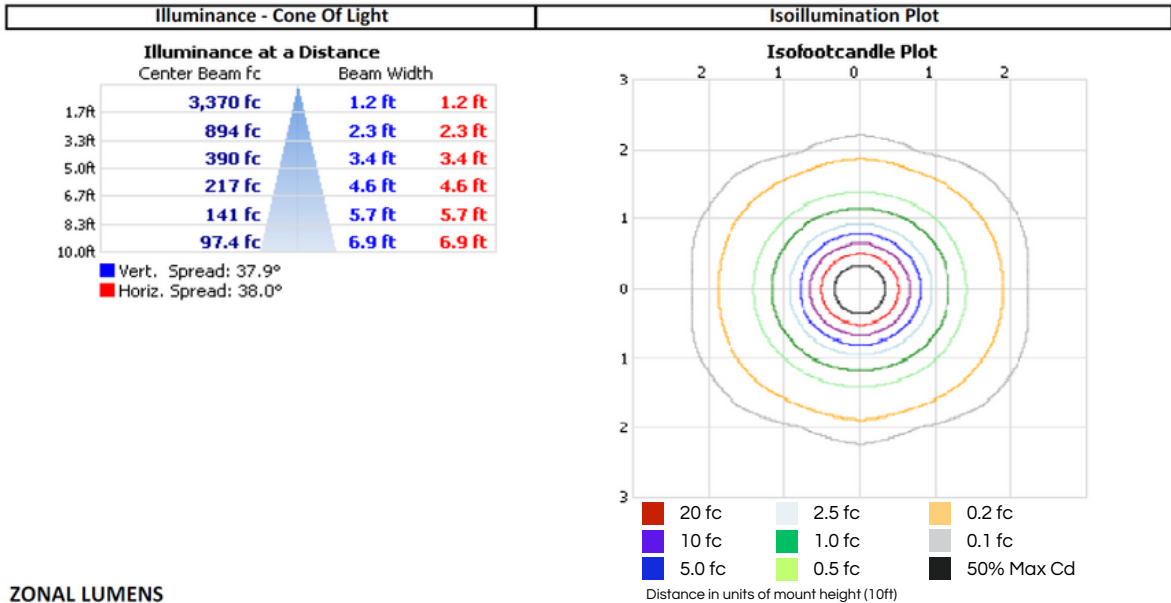
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (l)
Up	277.07	191.6	50.02	0.942

Light Output (lm)	Efficacy (lm/W)
5850.0	117.0

### LUMINOUS INTENSITY SUMMARY (candela)

Vertical Angle (°)	Horizontal					Polar Candela Plot
	0	22.5	45	67.5	90	
0	9740	9740	9740	9740	9740	
5	9231	9244	9241	9236	9245	
10	7804	7804	7808	7803	7816	
15	6098	6110	6101	6106	6117	
20	4556	4560	4559	4547	4572	
25	3305	3262	3273	3275	3297	
30	2278	2247	2270	2266	2288	
35	1476	1460	1484	1481	1491	
40	902	902	912	922	911	
45	540	545	556	558	549	
50	344	346	357	358	349	
55	248	250	257	258	253	
60	206	205	213	214	210	
65	153	128	179	180	152	
70	97	80	122	123	96	
75	35	31	44	46	35	
80	7	7	9	9	7	
85	2	2	2	2	2	
90	0	0	0	0	0	
95	0	0	0	0	0	
100	0	0	0	0	0	

### ILLUMINANCE SUMMARY



### ZONAL LUMENS

Zonal Lumen Summary					
Zone (°)	Lumens	Luminaire	Zone (°)	Lumens	Total
0-30	4,026.9	68.8%	90-100	0.0	0.0%
0-40	4,962.9	84.8%	100-110	0.0	0.0%
0-60	5,642.1	96.4%	110-120	0.0	0.0%
60-90	207.9	3.6%	120-130	0.0	0.0%
70-100	48.9	0.8%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	5,850.0	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	5,850.0	100.0%	170-180	0.0	0.0%



## NEOTERIC CYLINDER EXTRA LARGE BEAM ANGLE (LENS)

### PHOTOMETRIC AND ELECTRICAL MEASUREMENTS

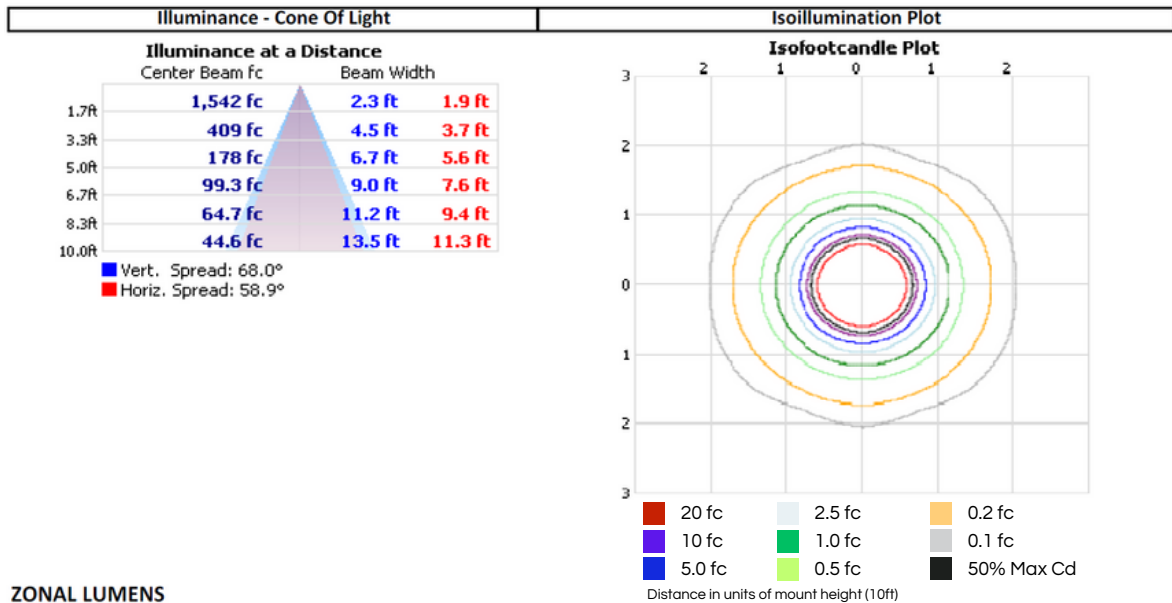
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)
Up	277.10	191.6	50.00	0.942

Light Output (lm)	Efficacy (lm/W)
5634.4	112.7

### LUMINOUS INTENSITY SUMMARY (candela)

Vertical Angle (°)	Horizontal					Polar Candela Plot
	0	22.5	45	67.5	90	
0	4456	4456	4456	4456	4456	
5	4446	4447	4443	4438	4440	
10	4488	4485	4474	4464	4469	
15	4573	4554	4532	4505	4505	
20	4564	4534	4523	4498	4501	
25	4238	4195	4178	4166	4160	
30	3265	3211	3196	3196	3190	
35	2059	2027	2024	2022	2017	
40	1109	1098	1093	1092	1086	
45	566	560	559	557	555	
50	319	315	315	314	311	
55	213	210	209	208	207	
60	156	148	153	153	152	
65	101	74	116	117	96	
70	60	46	78	78	58	
75	17	15	20	20	17	
80	6	5	6	7	6	
85	1	1	1	1	1	
90	0	0	0	0	0	
95	0	0	0	0	0	
100	0	0	0	0	0	

### ILLUMINANCE SUMMARY



### ZONAL LUMENS

Zonal Lumen Summary					
Zone (°)	Lumens	Luminaire	Zone (°)	Lumens	Total
0-30	3,567.7	63.3%	90-100	0.0	0.0%
0-40	4,843.2	86.0%	100-110	0.0	0.0%
0-60	5,503.8	97.7%	110-120	0.0	0.0%
60-90	130.6	2.3%	120-130	0.0	0.0%
70-100	26.5	0.5%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	5,634.4	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	5,634.4	100.0%	170-180	0.0	0.0%