



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-SO-SAL-DOWN.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L031506601  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 3/20/2015  
 [MANUFAC] PRUDENTIAL LTG.  
 [LUMCAT] Wave2-LED4-SO-Down  
 [LUMINAIRE] 48-1/4"L. X 9"W. X 2-3/4"H. LED LUMINAIRE  
 [MORE] DIFFUSED LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC  
 [BALLAST] INPUT: 120-277VAC  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [TEST CONDITION] PHOTOMETRIC AND ELECTRICAL VALUES ARE PRORATED FROM  
 [MORE] LIGHT LABORATORY L021502301. PHOTOMETRIC VALUES ONLY INCLUDE  
 [MORE] VERTICAL 0 TO 90 DEGREES. INPUT POWER AND CURRENT IS DIVIDED BY 2.  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [ INPUT] 120VAC  
 [ TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2434
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.12 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6368	5136	4817
55	5833	4388	4052
65	5341	3664	3357
75	4446	2712	2530
85	3107	1716	1746

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	901.136	901.136	901.136	901.136	901.136	901.136	901.136	901.136	901.136	901.136
<b>5</b>	893.630	893.957	893.459	893.420	893.944	894.756	895.686	896.210	896.577	897.009
<b>10</b>	879.049	879.246	878.617	878.211	878.368	878.774	879.167	879.220	878.971	879.206
<b>15</b>	849.260	849.325	848.867	848.972	849.600	850.282	850.989	851.801	852.771	854.277
<b>20</b>	812.383	812.370	812.108	812.292	812.855	813.536	814.453	815.265	815.789	816.366
<b>25</b>	767.935	768.027	768.263	769.324	770.293	770.673	770.961	771.367	772.022	772.559
<b>30</b>	715.587	715.430	715.470	715.967	716.950	718.234	719.714	721.666	722.609	722.111
<b>35</b>	661.039	660.843	660.672	660.869	661.105	662.035	663.463	664.249	664.681	665.965
<b>40</b>	597.792	597.687	597.884	598.775	600.045	601.997	603.648	604.434	603.910	604.421
<b>45</b>	534.821	534.742	535.908	537.074	537.729	538.174	539.353	539.930	540.702	542.235
<b>50</b>	468.967	468.639	469.006	470.277	471.796	473.133	474.285	475.910	475.622	476.853
<b>55</b>	402.288	402.393	403.231	404.607	406.008	407.593	408.785	409.388	410.803	412.440
<b>60</b>	343.574	343.836	344.779	346.194	347.726	349.704	350.281	351.892	353.503	354.997
<b>65</b>	277.039	277.471	279.004	279.986	281.480	283.287	285.239	287.178	289.340	291.514
<b>70</b>	210.884	211.748	212.613	214.316	215.901	218.285	220.892	223.565	226.289	229.001
<b>75</b>	147.532	148.082	149.523	151.161	153.676	156.741	160.147	163.567	166.789	169.999
<b>80</b>	88.870	89.604	91.386	94.058	97.464	101.473	105.704	109.804	114.022	118.083
<b>85</b>	41.933	42.758	44.841	47.880	51.889	56.409	61.256	66.011	70.701	75.377
<b>90</b>	16.873	18.523	20.999	23.541	28.492	32.698	36.837	42.483	50.173	60.024

**Vert. Angles**      **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0</b>	901.136	901.136	901.136	901.136	901.136	901.136	901.136	901.136	901.136
<b>5</b>	897.822	898.018	897.573	896.603	895.490	894.953	894.835	895.450	895.686
<b>10</b>	879.730	880.084	880.123	879.678	879.521	879.233	878.473	878.538	878.931
<b>15</b>	854.316	853.819	853.321	852.797	852.194	852.574	852.928	852.312	852.391
<b>20</b>	817.257	819.051	819.195	817.859	816.693	816.457	817.126	817.178	816.117
<b>25</b>	773.057	773.516	774.000	774.406	773.385	772.441	772.638	773.136	771.878
<b>30</b>	722.033	722.321	722.413	722.937	722.845	721.836	721.496	721.810	721.613
<b>35</b>	666.449	665.978	665.925	666.017	666.620	666.345	665.323	665.650	665.755
<b>40</b>	605.194	605.587	605.849	605.652	605.823	605.508	605.495	605.940	606.962
<b>45</b>	541.764	542.419	542.838	543.100	542.956	543.598	543.519	543.519	544.737
<b>50</b>	477.665	478.124	479.224	479.224	478.975	480.010	480.246	479.486	480.194
<b>55</b>	413.292	414.287	414.916	415.322	415.309	415.925	416.462	415.873	416.121
<b>60</b>	356.713	357.957	358.743	359.163	359.674	360.342	360.774	360.381	360.656
<b>65</b>	293.453	295.025	296.139	297.252	298.235	299.125	299.256	299.086	299.414
<b>70</b>	231.294	233.285	235.250	237.018	238.341	239.180	239.416	239.664	239.926
<b>75</b>	173.103	175.894	178.356	180.492	182.195	183.295	183.872	184.304	184.566
<b>80</b>	121.843	125.105	128.039	130.541	132.389	133.685	134.511	135.035	135.218
<b>85</b>	79.713	83.526	86.892	89.722	91.896	93.468	94.543	95.067	95.171
<b>90</b>	68.356	71.329	70.255	68.893	68.395	68.395	68.565	68.592	68.500

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	325.05	N.A.	13.40
0-30	680.33	N.A.	28.00
0-40	1095.68	N.A.	45.00
0-60	1882.36	N.A.	77.30
0-80	2349.08	N.A.	96.50
0-90	2433.64	N.A.	100.00
10-90	2348.68	N.A.	96.50
20-40	770.62	N.A.	31.70
20-50	1187.77	N.A.	48.80
40-70	1074.19	N.A.	44.10
60-80	466.72	N.A.	19.20
70-80	179.22	N.A.	7.40
80-90	84.57	N.A.	3.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2433.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	84.97
10-20	240.09
20-30	355.27
30-40	415.35
40-50	417.14
50-60	369.54
60-70	287.51
70-80	179.22
80-90	84.57
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

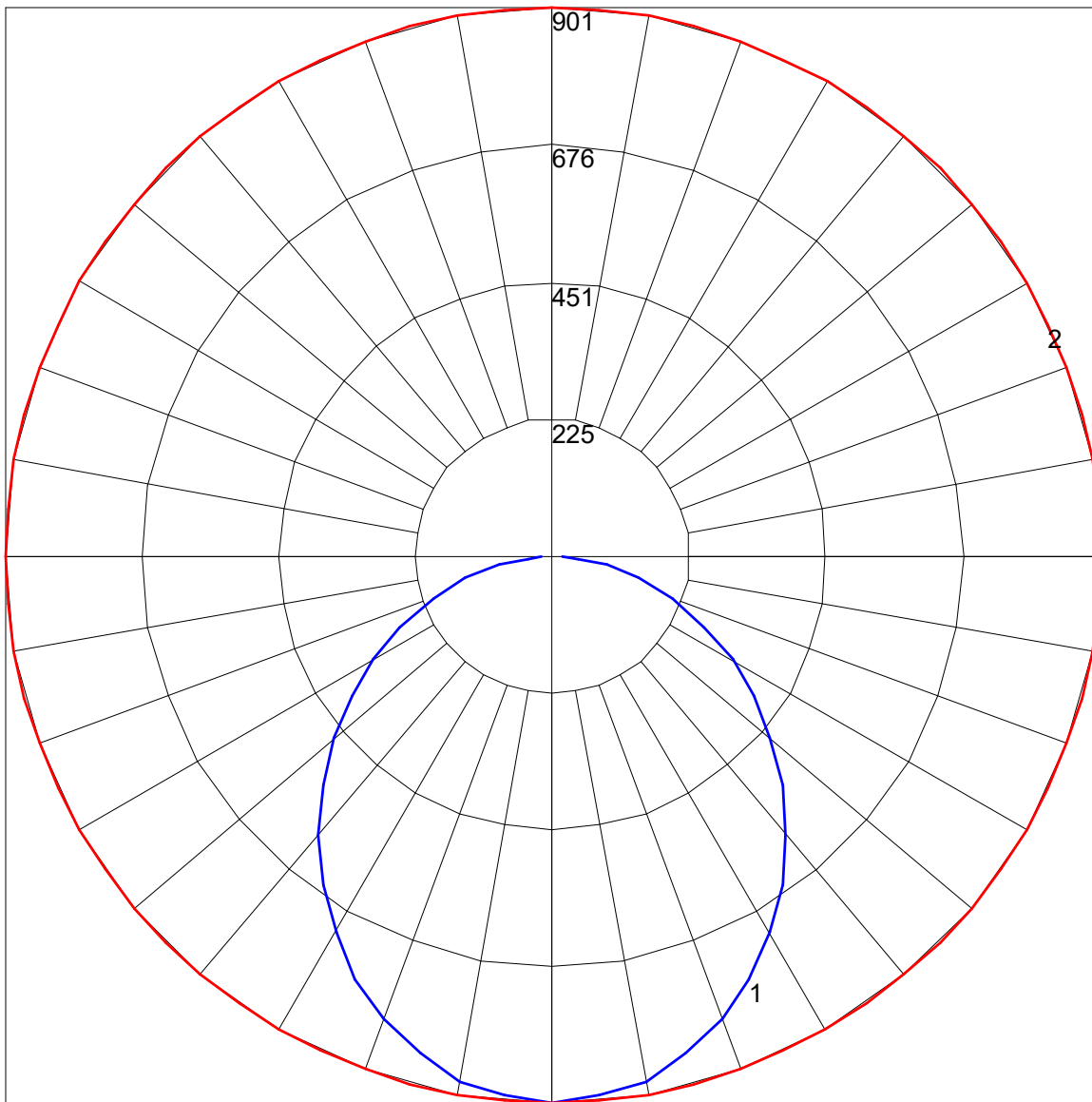
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 901.136 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)