



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-SO-UP.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L031506602  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 3/20/2015  
 [MANUFAC] PRUDENTIAL LTG.  
 [LUMCAT] Wave2-LED4-SO-Up  
 [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	2756
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	29.659	35.072	49.383	63.162	69.931	76.462	92.541	129.422	181.904	328.204
<b>100</b>	55.328	60.010	70.769	86.330	108.036	131.484	155.171	175.706	200.617	302.003
<b>105</b>	87.301	91.797	102.197	114.819	126.629	145.489	170.573	197.851	266.771	355.150
<b>110</b>	120.751	125.645	137.083	151.726	165.505	176.398	193.515	217.043	255.998	323.656
<b>115</b>	158.390	162.992	174.922	191.400	208.996	224.211	236.527	255.161	292.055	342.661
<b>120</b>	198.130	202.586	214.396	229.385	251.796	268.753	289.102	309.252	339.230	383.093
<b>125</b>	234.492	238.602	249.614	264.763	287.852	309.597	330.173	351.679	379.941	420.107
<b>130</b>	273.727	276.427	286.682	303.293	324.520	347.649	369.727	392.350	418.644	453.543
<b>135</b>	307.509	310.050	319.413	334.721	354.844	377.813	401.580	423.964	448.197	477.537
<b>140</b>	336.823	339.110	347.064	360.403	378.851	400.463	423.485	445.377	468.266	492.699
<b>145</b>	365.231	367.014	373.278	384.011	399.333	417.806	438.315	458.850	479.665	500.014
<b>150</b>	394.531	395.715	400.224	407.845	419.628	433.713	450.418	467.282	484.532	502.301
<b>155</b>	422.408	422.807	425.587	431.093	439.299	449.154	461.616	474.371	487.950	501.822
<b>160</b>	446.335	447.053	449.008	451.947	457.746	464.476	472.429	480.941	489.533	499.907
<b>165</b>	466.790	467.296	468.626	469.995	473.813	477.483	482.218	487.658	491.635	497.540
<b>170</b>	482.019	482.404	483.189	483.482	485.543	487.113	489.746	491.754	494.108	496.462
<b>175</b>	491.568	491.236	491.302	491.023	492.805	493.244	494.547	495.478	495.771	496.835
<b>180</b>	496.050	496.050	496.050	496.050	496.050	496.050	496.050	496.050	496.050	496.050

**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>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	454.634	506.690	471.113	396.420	324.879	282.918	254.243	238.575	234.107
<b>100</b>	460.473	677.356	874.129	974.810	975.276	932.131	882.109	847.862	836.211
<b>105</b>	446.707	550.926	684.671	829.042	949.633	1037.014	1087.328	1111.774	1118.437
<b>110</b>	404.772	500.293	605.350	710.446	803.254	876.882	930.641	961.005	971.844
<b>115</b>	409.959	489.507	575.770	660.744	736.461	793.518	834.974	859.020	867.958
<b>120</b>	441.400	509.603	582.380	652.498	714.303	761.771	796.471	815.862	824.680
<b>125</b>	471.937	531.348	594.005	655.052	707.746	750.559	781.149	797.096	804.185
<b>130</b>	497.979	549.277	603.301	655.038	699.673	736.554	761.718	777.678	783.038
<b>135</b>	513.739	555.036	599.085	642.776	681.426	712.454	735.836	749.428	754.256
<b>140</b>	520.097	551.232	584.708	618.131	648.575	674.137	692.145	705.206	710.220
<b>145</b>	521.161	543.438	566.660	589.895	610.776	628.970	642.124	651.594	654.187
<b>150</b>	519.126	535.897	550.660	565.902	578.736	589.961	598.420	602.783	604.804
<b>155</b>	514.750	527.292	537.586	547.933	555.953	563.228	568.096	571.208	571.155
<b>160</b>	508.459	517.330	525.323	532.133	537.174	542.613	545.420	547.933	549.064
<b>165</b>	502.846	508.073	512.609	516.665	519.910	522.983	524.073	526.534	527.611
<b>170</b>	498.723	501.197	502.926	504.575	505.639	506.903	507.661	509.151	509.643
<b>175</b>	497.673	498.019	497.699	498.045	497.886	498.404	498.378	499.043	500.293
<b>180</b>	496.050	496.050	496.050	496.050	496.050	496.050	496.050	496.050	496.050

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	752.46	N.A.	27.30
90-120	1197.47	N.A.	43.40
90-130	1627.55	N.A.	59.00
90-150	2337.16	N.A.	84.80
90-180	2756.38	N.A.	100.00
110-180	2003.92	N.A.	72.70
0-180	2756.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	250.08
100-110	502.38
110-120	445.01
120-130	430.08
130-140	392.44
140-150	317.17
150-160	230.96
160-170	140.92
170-180	47.33

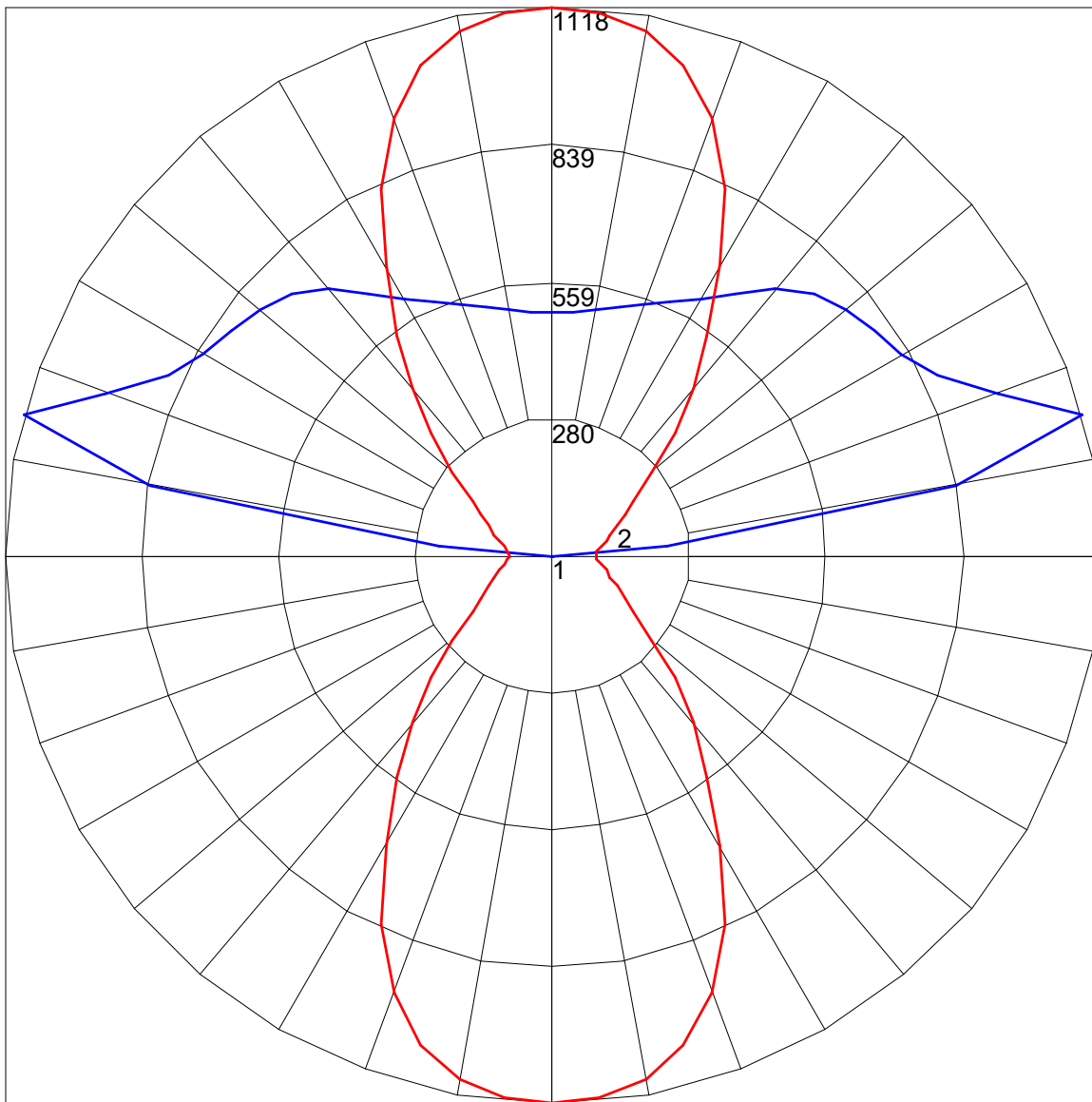
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1118.437 Located At Horizontal Angle = 90, Vertical Angle = 105  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (105) (Through Max. Cd.)