



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-EMH-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-EMH-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	1170
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	10
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : WAVE2-LED4-EMH-SAL-DOWN.IES**

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3063	2470	2316
55	2805	2110	1949
65	2569	1762	1615
75	2138	1304	1217
85	1494	825	840

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : WAVE2-LED4-EMH-SAL-DOWN.IES**

**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>	433.371	433.371	433.371	433.371	433.371	433.371	433.371	433.371	433.371	433.371
<b>5</b>	429.761	429.918	429.679	429.660	429.912	430.303	430.750	431.002	431.178	431.386
<b>10</b>	422.749	422.843	422.541	422.346	422.421	422.617	422.806	422.831	422.711	422.824
<b>15</b>	408.423	408.454	408.234	408.284	408.586	408.914	409.254	409.645	410.111	410.836
<b>20</b>	390.688	390.682	390.556	390.644	390.915	391.243	391.684	392.074	392.326	392.603
<b>25</b>	369.312	369.356	369.470	369.980	370.446	370.629	370.768	370.963	371.278	371.536
<b>30</b>	344.137	344.062	344.081	344.320	344.793	345.410	346.122	347.061	347.514	347.275
<b>35</b>	317.904	317.810	317.728	317.822	317.936	318.383	319.070	319.448	319.656	320.273
<b>40</b>	287.488	287.437	287.532	287.960	288.571	289.510	290.304	290.682	290.430	290.676
<b>45</b>	257.204	257.166	257.727	258.287	258.602	258.817	259.384	259.661	260.032	260.770
<b>50</b>	225.534	225.376	225.553	226.164	226.894	227.537	228.091	228.873	228.734	229.326
<b>55</b>	193.467	193.517	193.920	194.582	195.256	196.018	196.591	196.881	197.562	198.349
<b>60</b>	165.230	165.356	165.810	166.490	167.227	168.178	168.456	169.231	170.005	170.724
<b>65</b>	133.232	133.440	134.177	134.650	135.368	136.237	137.176	138.109	139.148	140.194
<b>70</b>	101.417	101.833	102.249	103.068	103.830	104.977	106.231	107.516	108.826	110.130
<b>75</b>	70.951	71.215	71.908	72.696	73.905	75.379	77.017	78.662	80.212	81.755
<b>80</b>	42.739	43.092	43.949	45.234	46.872	48.800	50.835	52.807	54.835	56.788
<b>85</b>	20.166	20.563	21.565	23.026	24.954	27.128	29.459	31.746	34.001	36.250
<b>90</b>	8.114	8.908	10.099	11.321	13.702	15.725	17.716	20.431	24.129	28.867

**Vert. 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>	433.371	433.371	433.371	433.371	433.371	433.371	433.371	433.371	433.371
<b>5</b>	431.777	431.871	431.657	431.191	430.655	430.397	430.340	430.636	430.750
<b>10</b>	423.076	423.247	423.265	423.051	422.976	422.837	422.472	422.503	422.692
<b>15</b>	410.854	410.615	410.376	410.124	409.834	410.017	410.187	409.891	409.928
<b>20</b>	393.032	393.895	393.964	393.322	392.761	392.647	392.969	392.994	392.484
<b>25</b>	371.776	371.996	372.229	372.424	371.933	371.479	371.574	371.813	371.209
<b>30</b>	347.237	347.376	347.420	347.672	347.628	347.143	346.979	347.130	347.035
<b>35</b>	320.506	320.279	320.254	320.298	320.588	320.456	319.964	320.122	320.172
<b>40</b>	291.047	291.236	291.362	291.268	291.350	291.199	291.192	291.406	291.898
<b>45</b>	260.543	260.858	261.059	261.185	261.116	261.425	261.387	261.387	261.973
<b>50</b>	229.717	229.937	230.467	230.467	230.347	230.845	230.958	230.593	230.933
<b>55</b>	198.759	199.237	199.540	199.735	199.729	200.025	200.283	200.000	200.119
<b>60</b>	171.549	172.147	172.525	172.727	172.973	173.294	173.502	173.313	173.445
<b>65</b>	141.126	141.882	142.418	142.953	143.426	143.854	143.917	143.835	143.993
<b>70</b>	111.233	112.190	113.135	113.986	114.622	115.025	115.139	115.258	115.384
<b>75</b>	83.248	84.590	85.774	86.801	87.620	88.150	88.427	88.635	88.761
<b>80</b>	58.596	60.165	61.576	62.779	63.668	64.291	64.688	64.940	65.029
<b>85</b>	38.335	40.169	41.788	43.149	44.194	44.950	45.467	45.719	45.769
<b>90</b>	32.873	34.303	33.787	33.132	32.892	32.892	32.974	32.987	32.943

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : WAVE2-LED4-EMH-SAL-DOWN.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	156.32	N.A.	13.40
0-30	327.18	N.A.	28.00
0-40	526.93	N.A.	45.00
0-60	905.25	N.A.	77.30
0-80	1129.71	N.A.	96.50
0-90	1170.38	N.A.	100.00
10-90	1129.52	N.A.	96.50
20-40	370.61	N.A.	31.70
20-50	571.22	N.A.	48.80
40-70	516.59	N.A.	44.10
60-80	224.45	N.A.	19.20
70-80	86.19	N.A.	7.40
80-90	40.67	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	1170.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.86
10-20	115.46
20-30	170.86
30-40	199.75
40-50	200.61
50-60	177.72
60-70	138.27
70-80	86.19
80-90	40.67
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

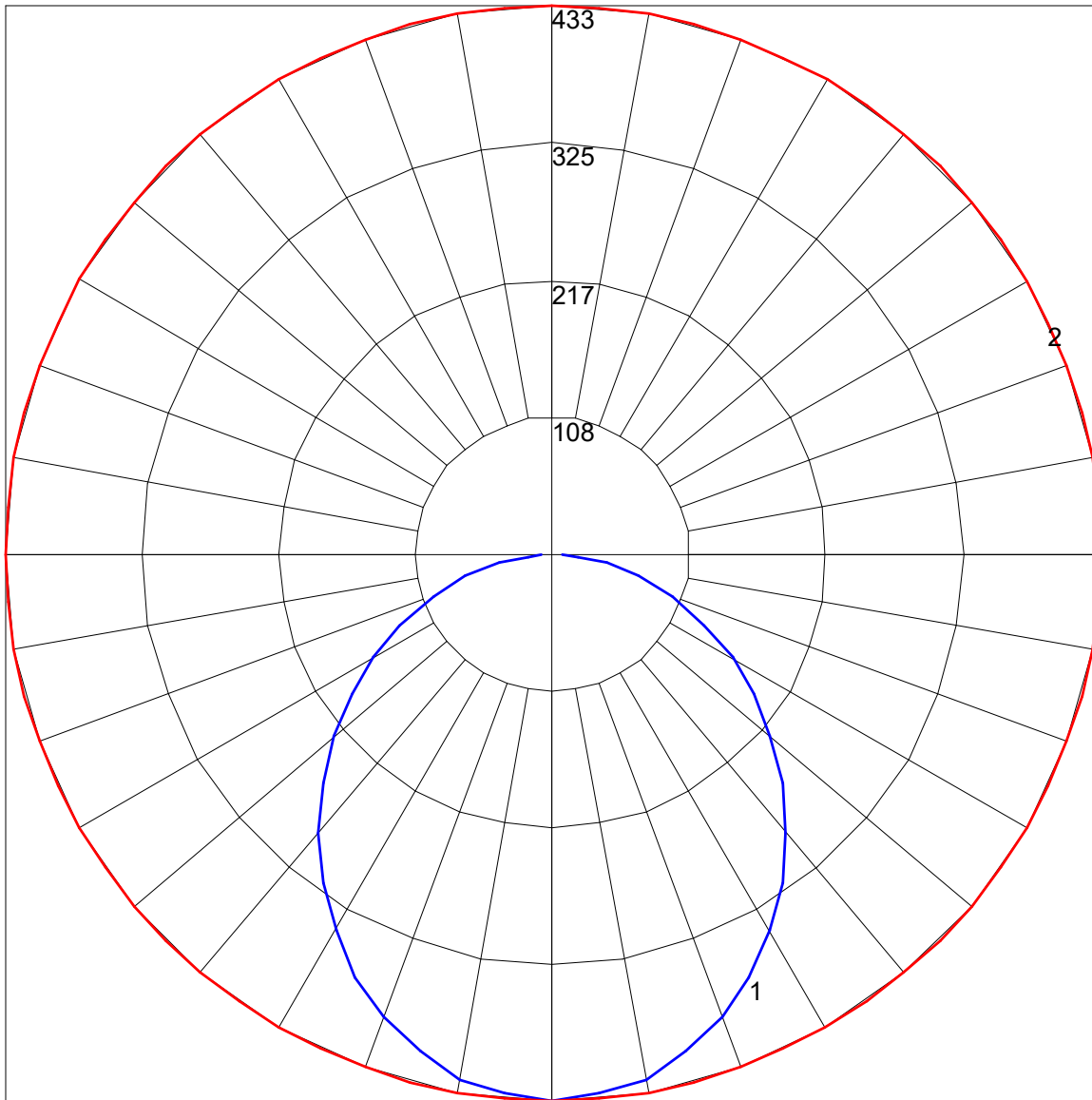
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : WAVE2-LED4-EMH-SAL-DOWN.IES**

**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	95	105	101	97	93	97	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	54	47	73	61	53	47	59	52	46	57	51	46	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 = 433.371 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.)