



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-MO-04-WA-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101404401
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 10/21/2014
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] Pru15-LED4-SO-04-WA-D9-SC-UN
 [LUMINAIRE] 48"L. X 10"W. X 2-1/2"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [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	2521
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
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)	0.54 ft
Luminous Height	0.21 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3326	2600	2402
55	3073	2212	1998
65	2764	1772	1560
75	2169	1148	974
85	1231	396	297

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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>
0	802.388	802.388	802.388	802.388	802.388	802.388	802.388	802.388	802.388	802.388
5	795.940	795.987	795.971	795.847	796.142	796.886	797.568	797.940	798.157	798.141
10	782.114	782.130	782.068	781.851	781.975	782.564	783.106	783.370	783.447	783.292
15	759.841	759.794	759.577	759.345	759.360	759.670	759.996	760.042	759.872	759.531
20	729.910	729.817	729.538	729.197	729.073	729.182	729.182	729.104	728.856	728.360
25	693.346	693.191	692.803	692.385	692.137	692.106	692.106	691.920	691.098	689.827
30	650.674	650.612	650.163	649.682	649.419	649.512	649.031	648.070	646.722	645.048
35	603.539	603.415	602.810	602.206	602.035	601.570	600.578	599.307	597.556	595.479
40	552.063	551.877	551.195	550.591	550.296	549.351	548.235	546.576	544.251	541.585
45	497.193	496.930	496.139	495.845	494.961	493.985	492.543	490.265	487.227	484.483
50	439.564	439.239	438.681	438.107	437.146	435.860	433.659	430.776	428.404	426.327
55	380.556	380.323	380.137	379.269	378.153	376.278	373.844	371.969	370.295	368.481
60	324.601	324.539	324.322	323.392	321.904	319.300	318.308	317.021	315.270	313.332
65	261.082	260.973	260.617	259.656	257.889	257.176	256.075	254.401	252.712	251.162
70	196.927	197.020	196.509	195.207	194.788	193.920	192.665	191.440	190.185	188.976
75	134.834	134.819	134.044	133.796	133.114	132.432	131.703	130.944	130.076	129.223
80	78.476	78.321	78.213	78.027	77.810	77.484	77.128	76.756	76.384	75.950
85	34.472	34.549	34.503	34.456	34.317	34.069	33.635	33.015	32.410	31.666
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	13.237	13.330	15.128	16.058	15.934	15.407	14.818	14.492	14.136	13.810
100	22.134	21.204	21.622	24.412	27.497	29.295	29.760	29.419	28.582	27.605
105	32.751	31.868	30.085	31.635	34.022	38.192	40.424	42.718	43.818	44.252
110	42.175	41.509	39.618	39.401	41.183	43.617	46.438	49.522	52.405	54.885
115	52.963	52.421	50.452	49.197	49.693	51.274	53.444	55.722	58.233	60.915
120	63.178	62.790	61.147	59.582	58.977	59.721	61.023	62.837	64.836	66.681
125	71.904	71.501	70.385	68.572	67.626	67.564	68.355	69.517	70.959	72.571
130	81.235	80.925	79.763	78.368	77.221	76.601	76.709	77.453	78.306	79.205
135	89.683	89.605	88.505	87.544	86.288	85.761	85.203	85.172	85.699	86.257
140	97.324	97.510	96.549	95.666	94.891	94.116	93.697	93.093	93.046	93.263
145	104.516	104.733	104.160	103.230	102.532	101.866	101.447	100.920	100.486	100.099
150	110.856	111.088	110.871	109.988	109.383	108.965	108.577	108.081	107.601	107.229
155	116.343	116.575	116.653	116.017	115.382	114.994	114.669	114.514	113.832	113.677
160	121.101	121.272	121.504	121.210	120.590	120.094	119.830	119.412	119.257	119.226
165	124.790	124.930	125.209	125.193	124.992	124.573	124.201	123.845	123.612	123.442
170	127.472	127.580	127.720	127.859	127.968	128.030	127.921	127.689	127.348	127.115
175	129.115	129.223	129.301	129.332	129.487	129.704	129.905	130.014	130.014	130.091
180	130.200	130.200	130.200	130.200	130.200	130.200	130.200	130.200	130.200	130.200

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>
0	802.388	802.388	802.388	802.388	802.388	802.388	802.388	802.388	802.388
5	798.033	797.862	797.645	797.134	796.715	796.436	796.405	796.359	796.204
10	782.982	782.657	782.223	781.587	781.091	780.750	780.595	780.564	780.394
15	759.035	758.523	757.934	757.237	756.725	756.291	756.012	756.059	755.811
20	727.601	726.547	725.508	724.392	723.509	722.842	722.331	722.238	722.005
25	688.525	687.130	685.782	684.418	683.441	682.542	681.891	681.721	681.442
30	643.436	641.715	639.979	638.352	637.205	636.027	635.050	634.802	634.539
35	593.464	591.294	588.938	586.969	585.342	583.978	583.079	582.645	582.521
40	538.857	536.362	534.192	532.688	531.324	530.146	529.464	528.875	529.015
45	482.267	480.236	478.531	477.214	475.974	474.765	474.145	473.649	473.819
50	424.498	422.716	421.088	419.569	418.066	416.919	416.159	415.787	415.834
55	366.621	364.777	363.041	361.413	359.894	358.856	358.298	357.879	357.972
60	311.457	309.798	308.186	306.714	305.474	304.497	304.156	303.645	303.722

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65	249.643	248.155	246.806	245.582	244.528	243.799	243.381	242.916	242.854
70	187.798	186.589	185.504	184.558	183.830	183.272	182.729	182.326	182.187
75	128.340	127.472	126.774	126.216	125.643	125.054	124.713	124.341	124.155
80	75.500	75.035	74.524	74.105	73.718	73.330	72.958	72.664	72.555
85	30.922	30.178	29.558	29.140	28.799	28.582	28.442	28.365	28.334
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	13.516	13.221	12.896	12.431	11.888	11.764	11.687	11.687	11.625
100	26.567	25.435	24.288	23.250	22.149	21.343	20.894	20.506	20.305
105	44.361	44.175	43.710	43.214	42.718	42.206	41.834	41.524	41.462
110	56.931	58.264	58.838	59.101	59.241	59.396	59.535	59.473	59.442
115	63.379	65.611	67.285	68.634	69.610	70.509	71.083	71.424	71.439
120	68.556	70.587	72.369	73.671	74.865	75.872	76.399	76.911	76.988
125	74.074	75.392	76.554	77.608	78.569	79.422	79.887	80.383	80.383
130	80.228	81.266	82.212	83.157	83.839	84.335	84.630	84.816	84.769
135	86.893	87.575	88.210	88.861	89.373	89.698	89.962	90.024	89.993
140	93.589	94.100	94.581	95.046	95.433	95.511	95.511	95.449	95.433
145	100.207	100.455	100.734	100.998	101.184	101.184	101.106	100.905	100.920
150	106.950	106.888	106.841	106.810	106.810	106.686	106.438	106.097	106.066
155	113.537	113.274	112.995	112.762	112.623	112.282	111.879	111.507	111.553
160	119.071	118.544	118.373	118.234	118.032	117.800	117.629	117.257	117.412
165	123.209	123.039	122.899	122.853	122.806	122.651	122.496	122.326	122.419
170	126.914	126.697	126.449	126.356	126.294	126.185	126.030	126.015	126.030
175	130.060	129.967	129.843	129.781	129.719	129.673	129.595	129.626	129.549
180	130.200	130.200	130.200	130.200	130.200	130.200	130.200	130.200	130.200

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	289.41	N.A.	11.50
0-30	606.41	N.A.	24.10
0-40	978.06	N.A.	38.80
0-60	1683.3	N.A.	66.80
0-80	2070.46	N.A.	82.10
0-90	2108.25	N.A.	83.60
10-90	2032.65	N.A.	80.60
20-40	688.66	N.A.	27.30
20-50	1063.05	N.A.	42.20
40-70	954.24	N.A.	37.90
60-80	387.16	N.A.	15.40
70-80	138.16	N.A.	5.50
80-90	37.80	N.A.	1.50
90-110	55.35	N.A.	2.20
90-120	114.95	N.A.	4.60
90-130	181.14	N.A.	7.20
90-150	312.65	N.A.	12.40
90-180	412.38	N.A.	16.40
110-180	357.03	N.A.	14.20
0-180	2520.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.61
10-20	213.80
20-30	317.01
30-40	371.65
40-50	374.39
50-60	330.84
60-70	249.00
70-80	138.16
80-90	37.80
90-100	14.13
100-110	41.22
110-120	59.60
120-130	66.19
130-140	67.86
140-150	63.64
150-160	52.55
160-170	34.89
170-180	12.29

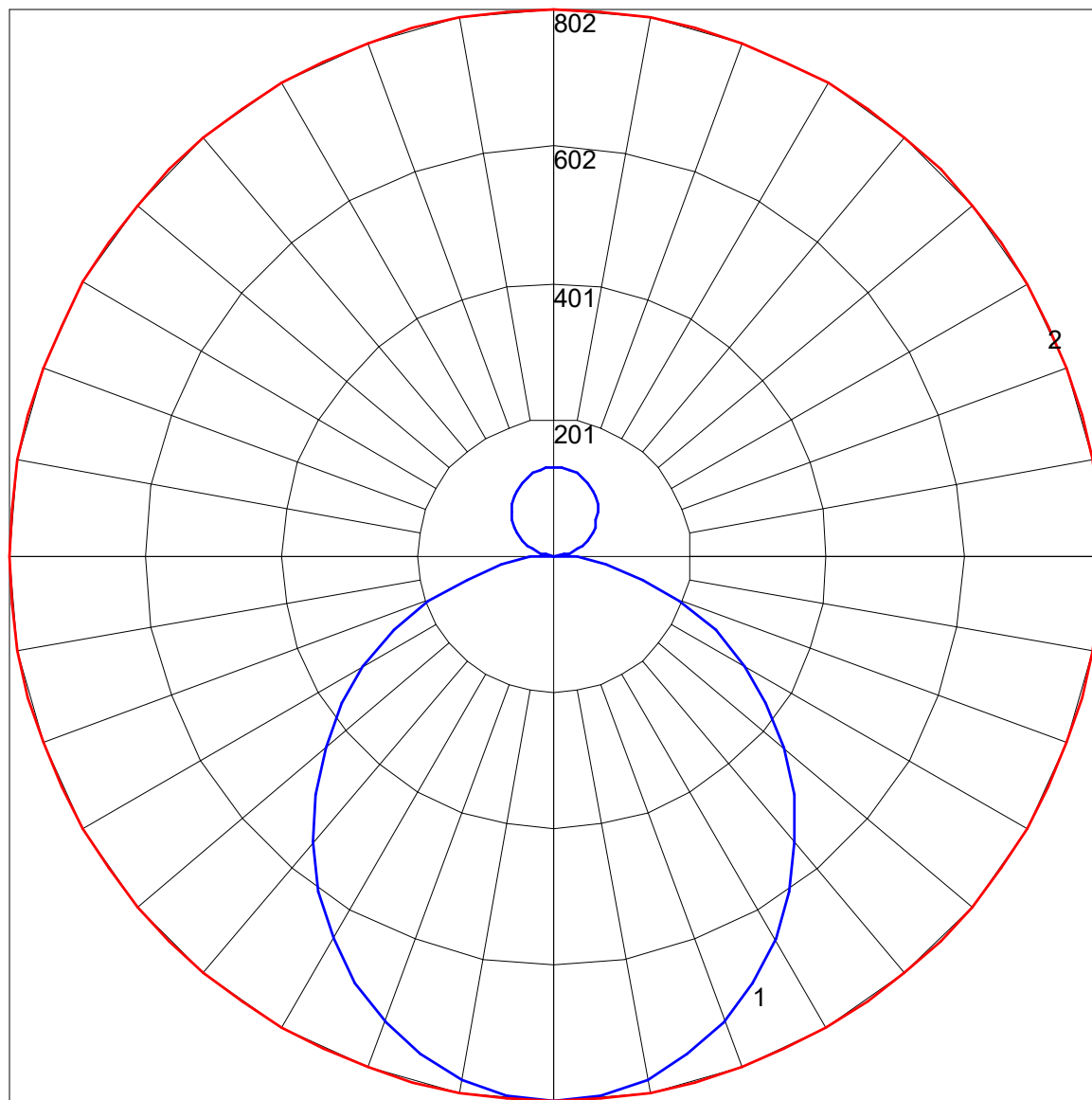
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	73	70
2	96	88	81	76	92	85	79	74	78	74	70	73	69	66	68	64	62	59
3	87	77	69	63	84	74	67	62	69	63	58	64	59	55	60	56	52	50
4	80	69	60	54	77	66	58	52	62	55	50	57	52	48	53	49	45	43
5	74	61	53	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32
7	63	50	41	36	60	48	40	35	45	39	34	43	37	32	40	35	31	29
8	59	46	37	32	56	44	36	31	42	35	30	39	33	29	37	32	28	26
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21

POLAR GRAPH



Maximum Candela = 802.388 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.)