



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-HO-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] Wave2-LED4-HO-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	3740
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	39
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	4935	3858	3564
55	4560	3283	2964
65	4102	2630	2315
75	3218	1704	1446
85	1826	588	441

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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	1190.641	1190.641	1190.641	1190.641	1190.641	1190.641	1190.641	1190.641	1190.641	1190.641
5	1181.073	1181.142	1181.119	1180.935	1181.372	1182.476	1183.488	1184.040	1184.362	1184.339
10	1160.557	1160.580	1160.488	1160.166	1160.350	1161.224	1162.029	1162.420	1162.535	1162.305
15	1127.506	1127.437	1127.115	1126.770	1126.793	1127.253	1127.736	1127.805	1127.552	1127.046
20	1083.093	1082.955	1082.541	1082.035	1081.851	1082.012	1082.012	1081.897	1081.529	1080.793
25	1028.836	1028.606	1028.031	1027.410	1027.042	1026.996	1026.996	1026.720	1025.501	1023.615
30	965.517	965.425	964.758	964.045	963.654	963.792	963.079	961.653	959.652	957.168
35	895.574	895.390	894.493	893.596	893.343	892.653	891.181	889.295	886.696	883.614
40	819.191	818.915	817.903	817.006	816.569	815.166	813.510	811.049	807.599	803.643
45	737.771	737.380	736.207	735.770	734.459	733.010	730.871	727.490	722.982	718.911
50	652.257	651.774	650.946	650.095	648.669	646.760	643.494	639.216	635.697	632.615
55	564.696	564.351	564.075	562.787	561.131	558.348	554.737	551.954	549.470	546.779
60	481.666	481.574	481.252	479.872	477.664	473.800	472.328	470.419	467.820	464.945
65	387.412	387.251	386.722	385.296	382.674	381.616	379.983	377.499	374.992	372.692
70	292.215	292.353	291.594	289.662	289.041	287.753	285.890	284.073	282.210	280.416
75	200.077	200.054	198.904	198.536	197.524	196.512	195.431	194.304	193.016	191.751
80	116.449	116.219	116.058	115.782	115.460	114.977	114.448	113.896	113.344	112.700
85	51.152	51.267	51.198	51.129	50.922	50.554	49.910	48.990	48.093	46.989
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	19.642	19.780	22.448	23.828	23.644	22.862	21.988	21.505	20.976	20.493
100	32.844	31.464	32.085	36.225	40.802	43.470	44.160	43.654	42.412	40.963
105	48.599	47.288	44.643	46.943	50.485	56.672	59.984	63.388	65.021	65.665
110	62.583	61.594	58.788	58.466	61.111	64.722	68.908	73.485	77.763	81.443
115	78.591	77.786	74.865	73.002	73.738	76.084	79.304	82.685	86.411	90.390
120	93.748	93.173	90.735	88.412	87.515	88.619	90.551	93.242	96.209	98.946
125	106.697	106.099	104.443	101.752	100.349	100.257	101.430	103.155	105.294	107.686
130	120.543	120.083	118.358	116.288	114.586	113.666	113.827	114.931	116.196	117.530
135	133.078	132.963	131.330	129.904	128.041	127.259	126.431	126.385	127.167	127.995
140	144.417	144.693	143.267	141.956	140.806	139.656	139.035	138.138	138.069	138.391
145	155.089	155.411	154.560	153.180	152.145	151.156	150.535	149.753	149.109	148.534
150	164.496	164.841	164.519	163.208	162.311	161.690	161.115	160.379	159.666	159.114
155	172.638	172.983	173.098	172.155	171.212	170.637	170.154	169.924	168.912	168.682
160	179.699	179.952	180.297	179.860	178.940	178.204	177.813	177.192	176.962	176.916
165	185.173	185.380	185.794	185.771	185.472	184.851	184.299	183.770	183.425	183.172
170	189.152	189.313	189.520	189.727	189.888	189.980	189.819	189.474	188.968	188.623
175	191.590	191.751	191.866	191.912	192.142	192.464	192.763	192.924	192.924	193.039
180	193.200	193.200	193.200	193.200	193.200	193.200	193.200	193.200	193.200	193.200

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	1190.641	1190.641	1190.641	1190.641	1190.641	1190.641	1190.641	1190.641	1190.641
5	1184.178	1183.925	1183.603	1182.844	1182.223	1181.809	1181.763	1181.694	1181.464
10	1161.845	1161.362	1160.718	1159.775	1159.039	1158.533	1158.303	1158.257	1158.004
15	1126.310	1125.551	1124.677	1123.642	1122.883	1122.239	1121.825	1121.894	1121.526
20	1079.666	1078.102	1076.561	1074.905	1073.594	1072.605	1071.846	1071.708	1071.363
25	1021.683	1019.613	1017.612	1015.588	1014.139	1012.805	1011.839	1011.586	1011.172
30	954.776	952.223	949.647	947.232	945.530	943.782	942.333	941.965	941.574
35	880.624	877.404	873.908	870.987	868.572	866.548	865.214	864.570	864.386
40	799.595	795.892	792.672	790.441	788.417	786.669	785.657	784.783	784.990
45	715.622	712.609	710.079	708.124	706.284	704.490	703.570	702.834	703.087
50	629.901	627.256	624.841	622.587	620.356	618.654	617.527	616.975	617.044
55	544.019	541.282	538.706	536.291	534.037	532.496	531.668	531.047	531.185
60	462.162	459.701	457.309	455.124	453.284	451.835	451.329	450.570	450.685

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65	370.438	368.230	366.229	364.412	362.848	361.767	361.146	360.456	360.364
70	278.668	276.874	275.264	273.861	272.780	271.952	271.147	270.549	270.342
75	190.440	189.152	188.117	187.289	186.438	185.564	185.058	184.506	184.230
80	112.033	111.343	110.584	109.963	109.388	108.813	108.261	107.824	107.663
85	45.885	44.781	43.861	43.240	42.734	42.412	42.205	42.090	42.044
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	20.056	19.619	19.136	18.446	17.641	17.457	17.342	17.342	17.250
100	39.422	37.743	36.041	34.500	32.867	31.671	31.004	30.429	30.130
105	65.826	65.550	64.860	64.124	63.388	62.629	62.077	61.617	61.525
110	84.479	86.457	87.308	87.699	87.906	88.136	88.343	88.251	88.205
115	94.047	97.359	99.843	101.844	103.293	104.627	105.478	105.984	106.007
120	101.729	104.742	107.387	109.319	111.090	112.585	113.367	114.126	114.241
125	109.917	111.872	113.597	115.161	116.587	117.852	118.542	119.278	119.278
130	119.048	120.589	121.992	123.395	124.407	125.143	125.580	125.856	125.787
135	128.938	129.950	130.893	131.859	132.618	133.101	133.492	133.584	133.538
140	138.874	139.633	140.346	141.036	141.611	141.726	141.726	141.634	141.611
145	148.695	149.063	149.477	149.868	150.144	150.144	150.029	149.730	149.753
150	158.700	158.608	158.539	158.493	158.493	158.309	157.941	157.435	157.389
155	168.475	168.084	167.670	167.325	167.118	166.612	166.014	165.462	165.531
160	176.686	175.904	175.651	175.444	175.145	174.800	174.547	173.995	174.225
165	182.827	182.574	182.367	182.298	182.229	181.999	181.769	181.516	181.654
170	188.324	188.002	187.634	187.496	187.404	187.243	187.013	186.990	187.013
175	192.993	192.855	192.671	192.579	192.487	192.418	192.303	192.349	192.234
180	193.200	193.200	193.200	193.200	193.200	193.200	193.200	193.200	193.200

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	429.44	N.A.	11.50
0-30	899.84	N.A.	24.10
0-40	1451.32	N.A.	38.80
0-60	2497.8	N.A.	66.80
0-80	3072.29	N.A.	82.10
0-90	3128.38	N.A.	83.60
10-90	3016.19	N.A.	80.60
20-40	1021.88	N.A.	27.30
20-50	1577.43	N.A.	42.20
40-70	1415.97	N.A.	37.90
60-80	574.50	N.A.	15.40
70-80	205.01	N.A.	5.50
80-90	56.09	N.A.	1.50
90-110	82.13	N.A.	2.20
90-120	170.58	N.A.	4.60
90-130	268.80	N.A.	7.20
90-150	463.94	N.A.	12.40
90-180	611.92	N.A.	16.40
110-180	529.79	N.A.	14.20
0-180	3740.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.19
10-20	317.25
20-30	470.40
30-40	551.48
40-50	555.55
50-60	490.93
60-70	369.49
70-80	205.01
80-90	56.09
90-100	20.97
100-110	61.16
110-120	88.45
120-130	98.22
130-140	100.70
140-150	94.44
150-160	77.97
160-170	51.77
170-180	18.24

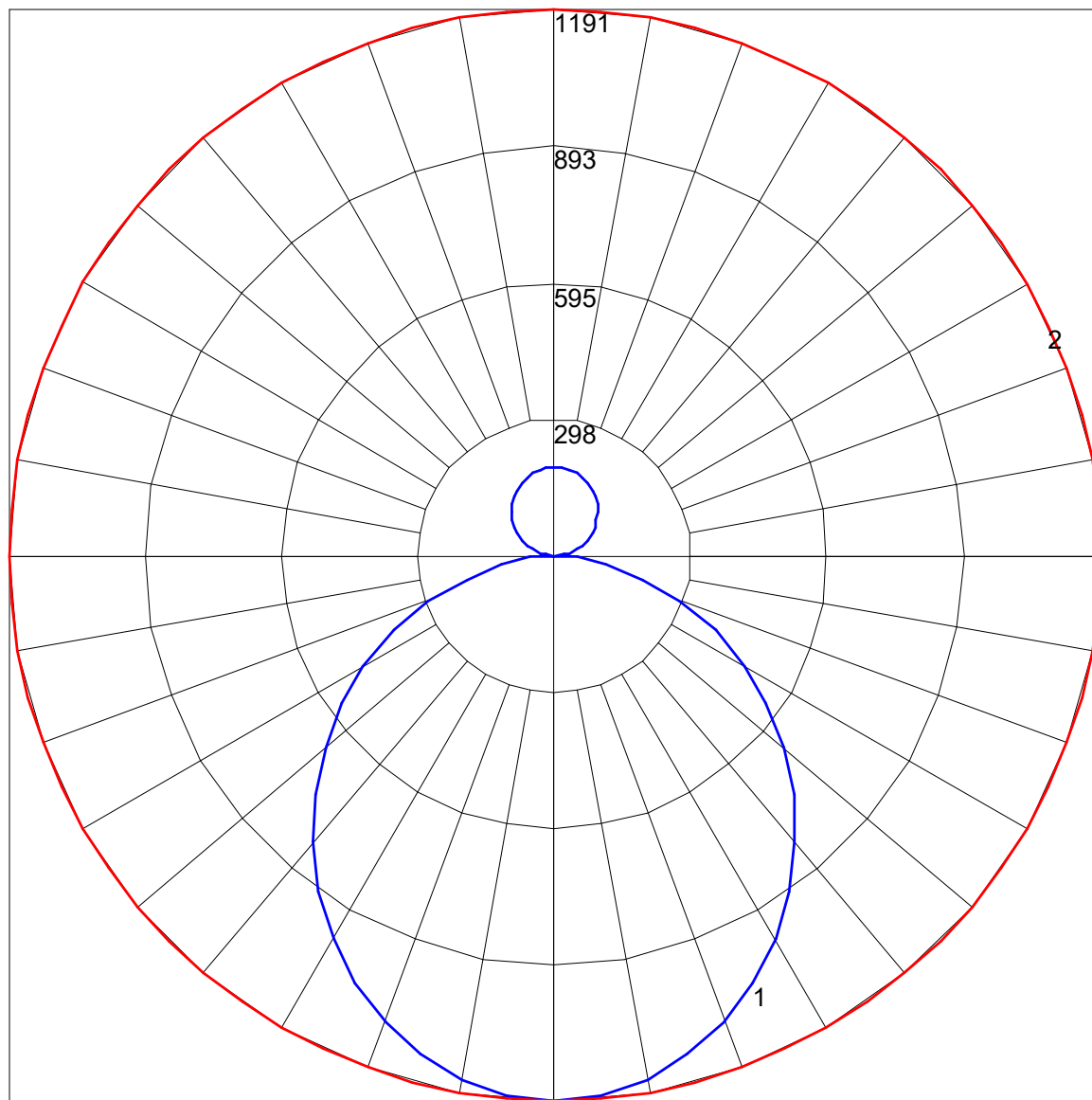
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	65	62	59
3	87	77	69	63	84	75	67	62	69	63	58	64	60	55	60	56	53	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	39	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21

POLAR GRAPH



Maximum Candela = 1190.641 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.)