



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-MO-MO-SAL-D3.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021502301
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 2/16/2015
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] Wave2-LED4-EMH-04-D3
 [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
 [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	1143
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.23 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1373	941	849
55	1244	764	676
65	1120	599	525
75	901	406	363
85	557	223	221

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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	199.488	199.488	199.488	199.488	199.488	199.488	199.488	199.488	199.488	199.488
5	197.826	197.899	197.789	197.780	197.896	198.076	198.282	198.398	198.479	198.575
10	194.599	194.642	194.503	194.413	194.448	194.538	194.625	194.636	194.581	194.633
15	188.004	188.019	187.917	187.940	188.079	188.230	188.387	188.567	188.781	189.115
20	179.841	179.838	179.780	179.820	179.945	180.096	180.299	180.479	180.595	180.722
25	170.001	170.021	170.073	170.308	170.523	170.607	170.671	170.761	170.906	171.025
30	158.412	158.378	158.386	158.497	158.714	158.998	159.326	159.758	159.967	159.857
35	146.337	146.293	146.256	146.299	146.351	146.557	146.873	147.047	147.143	147.427
40	132.336	132.312	132.356	132.553	132.834	133.267	133.632	133.806	133.690	133.803
45	118.395	118.378	118.636	118.894	119.039	119.138	119.399	119.526	119.697	120.037
50	103.817	103.745	103.826	104.107	104.443	104.739	104.994	105.354	105.290	105.563
55	89.056	89.079	89.265	89.569	89.880	90.231	90.494	90.628	90.941	91.304
60	76.058	76.116	76.325	76.638	76.978	77.415	77.543	77.900	78.256	78.587
65	61.329	61.425	61.764	61.982	62.312	62.712	63.145	63.574	64.052	64.534
70	46.684	46.876	47.067	47.444	47.795	48.323	48.900	49.491	50.095	50.695
75	32.660	32.782	33.101	33.463	34.020	34.698	35.452	36.209	36.923	37.633
80	19.674	19.836	20.230	20.822	21.576	22.463	23.400	24.308	25.242	26.141
85	9.283	9.466	9.927	10.599	11.487	12.487	13.560	14.613	15.651	16.687
90	3.735	4.101	4.649	5.211	6.307	7.238	8.155	9.405	11.107	13.288
95	6.467	7.647	10.768	13.772	15.248	16.672	20.178	28.220	39.663	71.563
100	12.064	13.085	15.431	18.824	23.557	28.669	33.834	38.312	43.744	65.850
105	19.036	20.016	22.284	25.036	27.611	31.723	37.192	43.140	58.168	77.439
110	26.329	27.396	29.890	33.083	36.088	38.463	42.195	47.325	55.819	70.571
115	34.536	35.539	38.141	41.734	45.571	48.888	51.574	55.636	63.681	74.716
120	43.201	44.173	46.748	50.016	54.903	58.600	63.037	67.431	73.967	83.532
125	51.130	52.026	54.427	57.730	62.765	67.506	71.992	76.682	82.844	91.602
130	59.685	60.274	62.509	66.132	70.760	75.803	80.617	85.550	91.283	98.893
135	67.051	67.605	69.646	72.984	77.372	82.380	87.563	92.443	97.727	104.124
140	73.442	73.941	75.675	78.584	82.606	87.319	92.339	97.112	102.103	107.430
145	79.637	80.025	81.391	83.732	87.072	91.101	95.572	100.050	104.588	109.025
150	86.026	86.284	87.267	88.928	91.498	94.569	98.211	101.889	105.650	109.524
155	92.104	92.191	92.797	93.998	95.787	97.936	100.653	103.434	106.395	109.420
160	97.321	97.478	97.904	98.545	99.809	101.277	103.011	104.867	106.740	109.002
165	101.781	101.891	102.181	102.480	103.312	104.113	105.145	106.331	107.198	108.486
170	105.102	105.186	105.357	105.421	105.870	106.212	106.787	107.225	107.738	108.251
175	107.184	107.111	107.126	107.065	107.454	107.549	107.834	108.037	108.100	108.332
180	108.161	108.161	108.161	108.161	108.161	108.161	108.161	108.161	108.161	108.161

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	199.488	199.488	199.488	199.488	199.488	199.488	199.488	199.488	199.488
5	198.754	198.798	198.699	198.485	198.238	198.119	198.093	198.229	198.282
10	194.749	194.828	194.836	194.738	194.703	194.639	194.471	194.486	194.573
15	189.123	189.013	188.903	188.787	188.654	188.738	188.816	188.680	188.697
20	180.919	181.317	181.349	181.053	180.795	180.742	180.890	180.902	180.667
25	171.135	171.236	171.344	171.433	171.207	170.998	171.042	171.152	170.874
30	159.839	159.903	159.923	160.039	160.019	159.796	159.720	159.790	159.746
35	147.535	147.430	147.419	147.439	147.572	147.511	147.285	147.358	147.381
40	133.974	134.061	134.119	134.076	134.113	134.044	134.041	134.139	134.366
45	119.932	120.077	120.170	120.228	120.196	120.338	120.321	120.321	120.591
50	105.743	105.844	106.088	106.088	106.033	106.262	106.314	106.146	106.302
55	91.492	91.712	91.852	91.942	91.939	92.075	92.194	92.063	92.118
60	78.967	79.242	79.416	79.509	79.622	79.770	79.866	79.779	79.840

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65	64.963	65.311	65.557	65.804	66.021	66.219	66.248	66.210	66.282
70	51.202	51.643	52.078	52.470	52.763	52.948	53.000	53.055	53.113
75	38.321	38.938	39.483	39.956	40.333	40.577	40.704	40.800	40.858
80	26.973	27.695	28.345	28.898	29.307	29.594	29.777	29.893	29.934
85	17.646	18.490	19.236	19.862	20.343	20.691	20.929	21.045	21.068
90	15.132	15.790	15.553	15.251	15.141	15.141	15.179	15.184	15.164
95	99.131	110.481	102.724	86.437	70.838	61.689	55.436	52.020	51.046
100	100.404	147.694	190.600	212.553	212.654	203.246	192.340	184.872	182.332
105	97.402	120.127	149.289	180.769	207.063	226.116	237.087	242.417	243.870
110	88.259	109.086	131.993	154.909	175.145	191.200	202.922	209.542	211.906
115	89.390	106.734	125.544	144.072	160.582	173.023	182.062	187.305	189.254
120	96.245	111.116	126.985	142.274	155.750	166.100	173.666	177.895	179.817
125	102.904	115.858	129.520	142.831	154.321	163.656	170.326	173.803	175.348
130	108.582	119.767	131.547	142.828	152.560	160.602	166.089	169.569	170.737
135	112.018	121.023	130.628	140.154	148.581	155.347	160.445	163.409	164.462
140	113.404	120.193	127.493	134.780	141.418	146.992	150.919	153.767	154.860
145	113.636	118.494	123.557	128.624	133.177	137.144	140.012	142.077	142.642
150	113.193	116.850	120.069	123.392	126.191	128.638	130.483	131.434	131.875
155	112.239	114.973	117.218	119.474	121.223	122.809	123.871	124.549	124.538
160	110.867	112.801	114.544	116.029	117.128	118.314	118.926	119.474	119.721
165	109.643	110.783	111.772	112.656	113.364	114.034	114.272	114.808	115.043
170	108.744	109.284	109.661	110.020	110.252	110.528	110.693	111.018	111.125
175	108.515	108.590	108.521	108.596	108.561	108.675	108.669	108.814	109.086
180	108.161	108.161	108.161	108.161	108.161	108.161	108.161	108.161	108.161

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	71.96	N.A.	6.30
0-30	150.61	N.A.	13.20
0-40	242.55	N.A.	21.20
0-60	416.70	N.A.	36.50
0-80	520.02	N.A.	45.50
0-90	538.75	N.A.	47.10
10-90	519.94	N.A.	45.50
20-40	170.60	N.A.	14.90
20-50	262.94	N.A.	23.00
40-70	237.80	N.A.	20.80
60-80	103.32	N.A.	9.00
70-80	39.67	N.A.	3.50
80-90	18.72	N.A.	1.60
90-110	167.13	N.A.	14.60
90-120	264.16	N.A.	23.10
90-130	357.94	N.A.	31.30
90-150	512.67	N.A.	44.90
90-180	604.08	N.A.	52.90
110-180	436.94	N.A.	38.20
0-180	1142.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	18.81
10-20	53.15
20-30	78.65
30-40	91.95
40-50	92.34
50-60	81.81
60-70	63.65
70-80	39.67
80-90	18.72
90-100	57.59
100-110	109.54
110-120	97.03
120-130	93.78
130-140	85.57
140-150	69.16
150-160	50.36
160-170	30.73
170-180	10.32

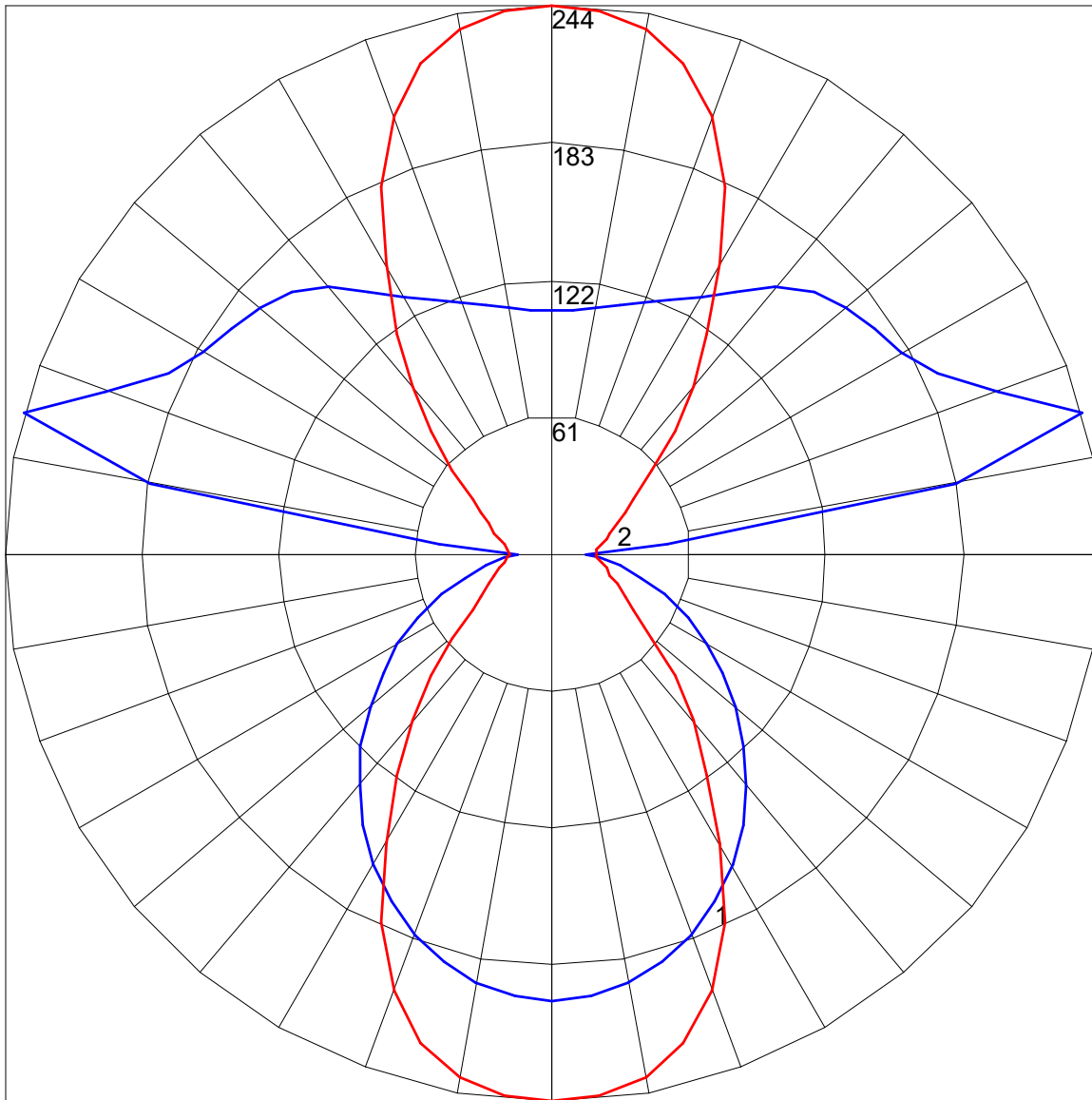
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	97	92	88	85	89	85	81	78	71	69	66	58	57	55	47	45	44	39
2	88	80	74	69	80	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	57	73	65	59	53	55	50	46	45	41	38	36	34	31	27
4	73	62	54	48	67	58	51	45	48	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	24	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	30	24	20	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

POLAR GRAPH



Maximum Candela = 243.87 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.)