



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-LO-LO-04-D3.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021502301
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 2/16/2015
 [MANUFACT] PRUDENTIAL LTG.
 [LUMCAT] Wave2-LED4-LO-LO-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	2900
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	28
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WAVE2-LED4-LO-LO-04-D3.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3485	2387	2155
55	3158	1939	1716
65	2843	1519	1332
75	2287	1029	922
85	1415	565	561

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WAVE2-LED4-LO-LO-04-D3.IES

CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	506.287	506.287	506.287	506.287	506.287	506.287	506.287	506.287	506.287	506.287
5	502.070	502.254	501.974	501.952	502.246	502.703	503.225	503.520	503.726	503.969
10	493.878	493.988	493.635	493.407	493.495	493.724	493.944	493.974	493.834	493.966
15	477.141	477.178	476.921	476.980	477.333	477.716	478.113	478.569	479.114	479.960
20	456.423	456.416	456.268	456.372	456.688	457.071	457.586	458.042	458.337	458.660
25	431.451	431.502	431.635	432.231	432.775	432.989	433.151	433.379	433.747	434.049
30	402.040	401.952	401.974	402.253	402.805	403.527	404.358	405.455	405.985	405.705
35	371.393	371.283	371.187	371.297	371.430	371.952	372.755	373.196	373.439	374.160
40	335.859	335.800	335.910	336.411	337.125	338.221	339.149	339.590	339.296	339.583
45	300.479	300.435	301.090	301.745	302.113	302.364	303.026	303.350	303.784	304.645
50	263.481	263.297	263.503	264.217	265.070	265.821	266.469	267.381	267.220	267.911
55	226.018	226.077	226.548	227.321	228.108	228.999	229.669	230.007	230.802	231.722
60	193.031	193.178	193.708	194.503	195.364	196.475	196.799	197.704	198.610	199.449
65	155.649	155.892	156.753	157.305	158.144	159.160	160.257	161.346	162.560	163.782
70	118.481	118.967	119.453	120.410	121.300	122.640	124.104	125.606	127.137	128.660
75	82.888	83.197	84.007	84.927	86.340	88.062	89.976	91.897	93.708	95.511
80	49.930	50.342	51.343	52.845	54.758	57.011	59.388	61.692	64.061	66.343
85	23.559	24.023	25.193	26.901	29.153	31.692	34.415	37.087	39.722	42.349
90	9.480	10.407	11.798	13.226	16.008	18.371	20.696	23.868	28.189	33.724
95	16.413	19.408	27.328	34.953	38.699	42.313	51.211	71.620	100.663	181.623
100	30.618	33.208	39.163	47.774	59.785	72.761	85.869	97.233	111.018	167.124
105	48.311	50.799	56.554	63.539	70.075	80.511	94.392	109.487	147.627	196.534
110	66.821	69.530	75.860	83.963	91.588	97.616	107.088	120.108	141.665	179.106
115	87.650	90.197	96.799	105.918	115.655	124.075	130.890	141.202	161.618	189.623
120	109.642	112.108	118.643	126.938	139.340	148.724	159.984	171.135	187.724	211.997
125	129.764	132.038	138.132	146.516	159.292	171.326	182.712	194.613	210.253	232.480
130	151.476	152.970	158.645	167.837	179.584	192.383	204.601	217.120	231.671	250.983
135	170.171	171.576	176.758	185.229	196.365	209.076	222.228	234.615	248.025	264.261
140	186.392	187.658	192.059	199.441	209.650	221.610	234.350	246.464	259.131	272.651
145	202.113	203.099	206.566	212.505	220.984	231.207	242.556	253.920	265.438	276.699
150	218.327	218.982	221.477	225.694	232.215	240.010	249.254	258.586	268.132	277.965
155	233.754	233.974	235.513	238.560	243.101	248.555	255.451	262.509	270.024	277.700
160	246.994	247.392	248.474	250.100	253.309	257.033	261.435	266.145	270.900	276.640
165	258.314	258.594	259.330	260.088	262.200	264.231	266.852	269.862	272.062	275.330
170	266.741	266.955	267.389	267.551	268.692	269.560	271.017	272.129	273.431	274.734
175	272.026	271.842	271.878	271.724	272.710	272.953	273.674	274.189	274.351	274.940
180	274.506	274.506	274.506	274.506	274.506	274.506	274.506	274.506	274.506	274.506

**Vert.
Angles**

Horizontal Angles

	50	55	60	65	70	75	80	85	90
0	506.287	506.287	506.287	506.287	506.287	506.287	506.287	506.287	506.287
5	504.425	504.535	504.285	503.740	503.115	502.813	502.747	503.093	503.225
10	494.261	494.460	494.482	494.231	494.143	493.981	493.554	493.591	493.812
15	479.982	479.703	479.423	479.129	478.790	479.004	479.202	478.856	478.900
20	459.161	460.169	460.250	459.500	458.844	458.712	459.087	459.117	458.521
25	434.328	434.586	434.858	435.086	434.512	433.982	434.093	434.372	433.666
30	405.661	405.823	405.875	406.169	406.117	405.551	405.359	405.536	405.426
35	374.433	374.168	374.138	374.190	374.528	374.374	373.800	373.984	374.043
40	340.017	340.238	340.385	340.275	340.371	340.194	340.187	340.437	341.011
45	304.380	304.748	304.984	305.131	305.050	305.411	305.366	305.366	306.051
50	268.368	268.625	269.244	269.244	269.104	269.685	269.818	269.391	269.788
55	232.201	232.760	233.113	233.341	233.334	233.680	233.982	233.651	233.790
60	200.413	201.112	201.554	201.789	202.076	202.452	202.694	202.474	202.628

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WAVE2-LED4-LO-LO-04-D3.IES

CANDELA TABULATION - (Cont.)

65	164.871	165.755	166.380	167.006	167.558	168.058	168.132	168.036	168.220
70	129.948	131.067	132.171	133.164	133.908	134.379	134.511	134.651	134.798
75	97.255	98.823	100.206	101.406	102.363	102.981	103.305	103.548	103.695
80	68.455	70.288	71.937	73.342	74.380	75.109	75.572	75.867	75.970
85	44.786	46.927	48.819	50.409	51.630	52.514	53.117	53.412	53.470
90	38.404	40.075	39.472	38.706	38.427	38.427	38.522	38.537	38.485
95	251.587	280.394	260.706	219.372	179.783	156.562	140.694	132.024	129.551
100	254.818	374.837	483.729	539.444	539.701	515.826	488.145	469.193	462.745
105	247.200	304.873	378.885	458.778	525.511	573.867	601.709	615.237	618.924
110	223.994	276.854	334.990	393.149	444.507	485.252	515.001	531.804	537.803
115	226.865	270.885	318.622	365.645	407.545	439.120	462.061	475.368	480.314
120	244.264	282.006	322.280	361.082	395.284	421.551	440.754	451.484	456.364
125	261.162	294.039	328.712	362.495	391.655	415.347	432.275	441.100	445.022
130	275.573	303.961	333.857	362.487	387.188	407.597	421.522	430.354	433.320
135	284.295	307.148	331.524	355.701	377.090	394.260	407.199	414.721	417.393
140	287.813	305.043	323.568	342.063	358.910	373.056	383.022	390.249	393.024
145	288.402	300.730	313.580	326.438	337.993	348.062	355.341	360.581	362.016
150	287.276	296.556	304.726	313.161	320.263	326.475	331.156	333.570	334.689
155	284.854	291.795	297.491	303.217	307.655	311.681	314.375	316.097	316.068
160	281.373	286.282	290.705	294.474	297.263	300.273	301.826	303.217	303.843
165	278.267	281.159	283.669	285.914	287.710	289.410	290.013	291.375	291.971
170	275.985	277.354	278.311	279.224	279.812	280.512	280.931	281.756	282.028
175	275.404	275.595	275.419	275.610	275.522	275.809	275.794	276.162	276.854
180	274.506	274.506	274.506	274.506	274.506	274.506	274.506	274.506	274.506

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WAVE2-LED4-LO-LO-04-D3.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	182.63	N.A.	6.30
0-30	382.23	N.A.	13.20
0-40	615.59	N.A.	21.20
0-60	1057.57	N.A.	36.50
0-80	1319.79	N.A.	45.50
0-90	1367.3	N.A.	47.10
10-90	1319.56	N.A.	45.50
20-40	432.96	N.A.	14.90
20-50	667.33	N.A.	23.00
40-70	603.51	N.A.	20.80
60-80	262.22	N.A.	9.00
70-80	100.69	N.A.	3.50
80-90	47.51	N.A.	1.60
90-110	424.17	N.A.	14.60
90-120	670.43	N.A.	23.10
90-130	908.43	N.A.	31.30
90-150	1301.12	N.A.	44.90
90-180	1533.1	N.A.	52.90
110-180	1108.93	N.A.	38.20
0-180	2900.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.74
10-20	134.89
20-30	199.60
30-40	233.36
40-50	234.36
50-60	207.62
60-70	161.53
70-80	100.69
80-90	47.51
90-100	146.16
100-110	278.01
110-120	246.26
120-130	238.00
130-140	217.17
140-150	175.52
150-160	127.81
160-170	77.99
170-180	26.19

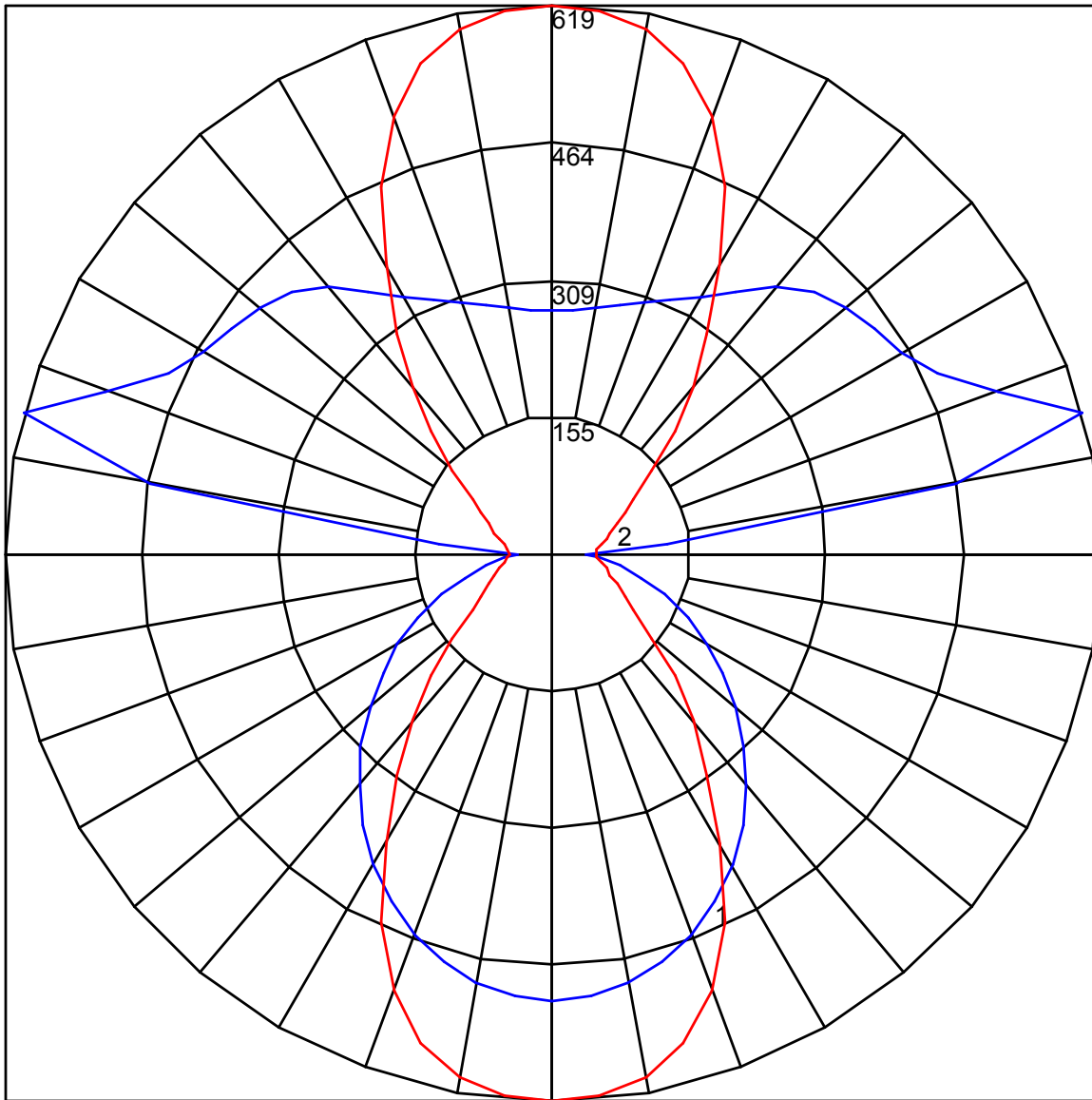
IES INDOOR REPORT
PHOTOMETRIC FILENAME : WAVE2-LED4-LO-LO-04-D3.IES

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	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	81	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	30	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 = 618.924 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.)