



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021502301
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 2/16/2015
 [MANUFACTURER] PRUDENTIAL LTG.
 [LUMCAT] Wave2-LED4-SO-SO-04-D3
 [LUMINAIRE] 48-1/4"L. X 9"W. X 2-3/4"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] I
 [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	5202
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	52
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-SO-SO-04-D3.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6250	4281	3865
55	5664	3477	3078
65	5100	2725	2389
75	4101	1846	1653
85	2537	1013	1007

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

CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	908.015	908.015	908.015	908.015	908.015	908.015	908.015	908.015	908.015	908.015
5	900.451	900.781	900.280	900.240	900.768	901.586	902.524	903.052	903.421	903.857
10	885.760	885.958	885.324	884.915	885.073	885.482	885.878	885.931	885.680	885.918
15	855.743	855.809	855.347	855.452	856.086	856.772	857.485	858.304	859.280	860.798
20	818.585	818.572	818.308	818.492	819.060	819.746	820.670	821.489	822.017	822.598
25	773.797	773.890	774.127	775.196	776.173	776.556	776.846	777.256	777.916	778.457
30	721.050	720.892	720.931	721.433	722.423	723.716	725.208	727.175	728.125	727.624
35	666.085	665.887	665.716	665.914	666.151	667.088	668.527	669.319	669.755	671.048
40	602.356	602.250	602.448	603.346	604.626	606.593	608.256	609.048	608.520	609.035
45	538.903	538.824	539.999	541.174	541.834	542.282	543.470	544.051	544.830	546.374
50	472.547	472.217	472.586	473.867	475.398	476.744	477.906	479.543	479.252	480.493
55	405.359	405.464	406.309	407.695	409.108	410.705	411.906	412.513	413.939	415.589
60	346.196	346.460	347.411	348.836	350.381	352.374	352.955	354.578	356.202	357.707
65	279.154	279.589	281.134	282.124	283.628	285.450	287.417	289.370	291.548	293.740
70	212.494	213.365	214.236	215.952	217.549	219.952	222.578	225.271	228.017	230.749
75	148.658	149.213	150.665	152.315	154.849	157.938	161.370	164.815	168.062	171.296
80	89.549	90.288	92.083	94.776	98.208	102.247	106.511	110.642	114.893	118.985
85	42.253	43.085	45.184	48.246	52.285	56.839	61.723	66.515	71.240	75.953
90	17.002	18.665	21.160	23.720	28.710	32.947	37.118	42.808	50.556	60.482
95	29.436	34.808	49.012	62.687	69.406	75.887	91.846	128.449	180.536	325.736
100	54.912	59.558	70.237	85.681	107.224	130.495	154.004	174.385	199.109	299.732
105	86.645	91.106	101.429	113.956	125.677	144.395	169.290	196.363	264.766	352.480
110	119.843	124.700	136.052	150.586	164.261	175.072	192.060	215.411	254.074	321.222
115	157.199	161.766	173.606	189.961	207.425	222.526	234.749	253.242	289.859	340.085
120	196.640	201.062	212.784	227.660	249.902	266.732	286.928	306.926	336.679	380.213
125	232.729	236.808	247.738	262.772	285.688	307.270	327.690	349.034	377.084	416.948
130	271.669	274.349	284.526	301.013	322.080	345.035	366.947	389.400	415.496	450.133
135	305.197	307.718	317.011	332.204	352.176	374.972	398.561	420.776	444.827	473.946
140	334.290	336.560	344.454	357.694	376.002	397.452	420.301	442.028	464.746	488.994
145	362.485	364.254	370.471	381.124	396.330	414.665	435.019	455.400	476.058	496.254
150	391.565	392.740	397.214	404.778	416.473	430.452	447.031	463.769	480.889	498.524
155	419.232	419.628	422.387	427.852	435.996	445.777	458.146	470.804	484.282	498.049
160	442.979	443.692	445.632	448.549	454.304	460.984	468.877	477.325	485.852	496.148
165	463.280	463.782	465.102	466.462	470.250	473.893	478.592	483.991	487.938	493.799
170	478.394	478.777	479.556	479.846	481.892	483.450	486.064	488.057	490.393	492.730
175	487.872	487.542	487.608	487.331	489.100	489.535	490.829	491.753	492.043	493.099
180	492.320	492.320	492.320	492.320	492.320	492.320	492.320	492.320	492.320	492.320

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	908.015	908.015	908.015	908.015	908.015	908.015	908.015	908.015	908.015
5	904.675	904.873	904.424	903.448	902.326	901.784	901.666	902.286	902.524
10	886.446	886.802	886.842	886.393	886.235	885.944	885.179	885.245	885.641
15	860.838	860.336	859.835	859.307	858.700	859.082	859.439	858.818	858.898
20	823.495	825.304	825.449	824.102	822.928	822.690	823.363	823.416	822.347
25	778.958	779.420	779.909	780.318	779.288	778.338	778.536	779.038	777.770
30	727.544	727.835	727.927	728.455	728.363	727.346	727.003	727.320	727.122
35	671.537	671.062	671.009	671.101	671.708	671.431	670.402	670.732	670.837
40	609.814	610.210	610.474	610.276	610.447	610.130	610.117	610.566	611.596
45	545.899	546.559	546.982	547.246	547.100	547.747	547.668	547.668	548.896
50	481.312	481.774	482.882	482.882	482.632	483.674	483.912	483.146	483.859
55	416.447	417.450	418.084	418.493	418.480	419.100	419.641	419.047	419.298
60	359.436	360.690	361.482	361.904	362.419	363.092	363.528	363.132	363.409

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

CANDELA TABULATION - (Cont.)

65	295.693	297.277	298.399	299.521	300.511	301.409	301.541	301.369	301.699
70	233.059	235.066	237.046	238.828	240.161	241.006	241.243	241.494	241.758
75	174.425	177.236	179.718	181.870	183.586	184.694	185.275	185.711	185.975
80	122.773	126.060	129.017	131.538	133.399	134.706	135.538	136.066	136.250
85	80.322	84.163	87.556	90.407	92.598	94.182	95.264	95.792	95.898
90	68.878	71.874	70.792	69.419	68.917	68.917	69.089	69.115	69.023
95	451.216	502.880	467.570	393.439	322.436	280.790	252.331	236.782	232.346
100	457.010	672.263	867.557	967.481	967.943	925.122	875.477	841.487	829.924
105	443.348	546.784	679.523	822.809	942.493	1029.217	1079.153	1103.414	1110.028
110	401.729	496.531	600.798	705.104	797.214	870.289	923.644	953.779	964.537
115	406.877	485.826	571.441	655.776	730.924	787.552	828.696	852.562	861.432
120	438.082	505.771	578.002	647.592	708.932	756.043	790.482	809.728	818.479
125	468.389	527.353	589.538	650.126	702.425	744.916	775.276	791.102	798.138
130	494.234	545.147	598.765	650.113	694.412	731.016	755.990	771.830	777.150
135	509.876	550.862	594.581	637.943	676.302	707.098	730.303	743.794	748.585
140	516.186	547.087	580.312	613.483	643.698	669.068	686.941	699.904	704.880
145	517.242	539.352	562.399	585.460	606.184	624.241	637.296	646.694	649.268
150	515.222	531.868	546.520	561.647	574.385	585.526	593.921	598.250	600.257
155	510.880	523.327	533.544	543.814	551.773	558.994	563.825	566.914	566.861
160	504.636	513.440	521.374	528.132	533.135	538.534	541.319	543.814	544.936
165	499.066	504.253	508.754	512.780	516.001	519.050	520.133	522.575	523.644
170	494.974	497.429	499.145	500.782	501.838	503.092	503.844	505.322	505.811
175	493.931	494.274	493.957	494.300	494.142	494.657	494.630	495.290	496.531
180	492.320	492.320	492.320	492.320	492.320	492.320	492.320	492.320	492.320

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

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	327.53	N.A.	6.30
0-30	685.52	N.A.	13.20
0-40	1104.04	N.A.	21.20
0-60	1896.72	N.A.	36.50
0-80	2367.01	N.A.	45.50
0-90	2452.22	N.A.	47.10
10-90	2366.61	N.A.	45.50
20-40	776.51	N.A.	14.90
20-50	1196.83	N.A.	23.00
40-70	1082.39	N.A.	20.80
60-80	470.29	N.A.	9.00
70-80	180.58	N.A.	3.50
80-90	85.21	N.A.	1.60
90-110	760.74	N.A.	14.60
90-120	1202.4	N.A.	23.10
90-130	1629.25	N.A.	31.30
90-150	2333.53	N.A.	44.90
90-180	2749.59	N.A.	52.90
110-180	1988.85	N.A.	38.20
0-180	5201.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.61
10-20	241.92
20-30	357.99
30-40	418.52
40-50	420.33
50-60	372.36
60-70	289.70
70-80	180.58
80-90	85.21
90-100	262.14
100-110	498.60
110-120	441.66
120-130	426.84
130-140	389.49
140-150	314.79
150-160	229.22
160-170	139.86
170-180	46.98

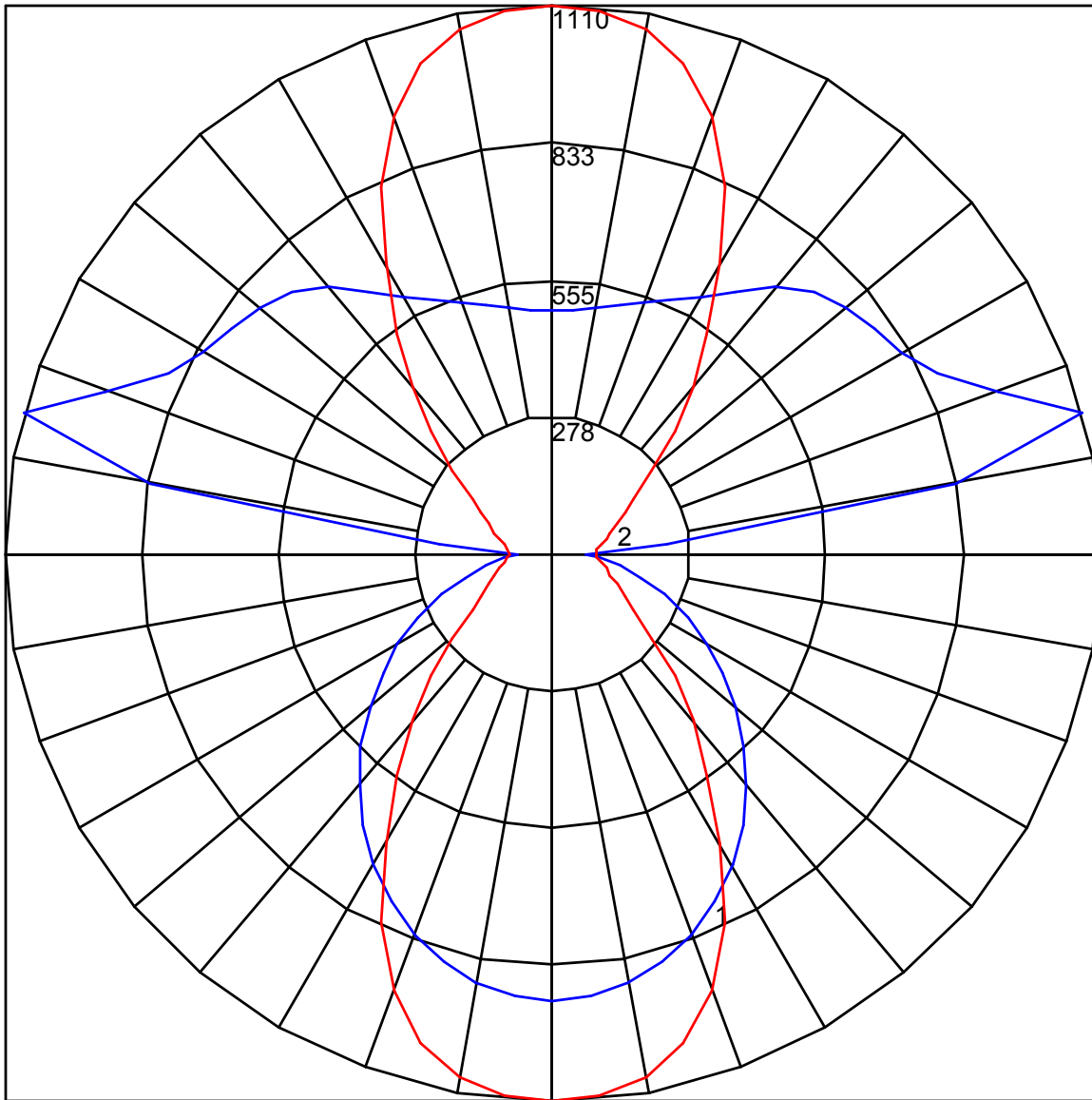
IES INDOOR REPORT
PHOTOMETRIC FILENAME : WAVE2-LED4-SO-SO-04-D3.IES

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	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	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 = 1110.028 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.)