



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : S1-LED4-LO-04-WA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L021508901  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 3/5/2015  
 [MANUFAC] PRUDENTIAL LTG.  
 [LUMCAT] S1-LED4-LO-04-WA  
 [LUMINAIRE] 2-1/2"L. X 48"W. X 3-1/4"H. LINEAR DIRECT 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.  
 [TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1993
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.60
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.21 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.13 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3984	3933	4203
55	3870	3770	3981
65	3738	3574	3615
75	3588	3327	2896
85	3532	3166	1330

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	358.248	358.248	358.248	358.248	358.248	358.248	358.248	358.248	358.248	358.248
<b>5</b>	362.610	362.584	362.520	362.430	361.985	361.645	361.380	360.999	360.575	360.305
<b>10</b>	369.442	369.330	368.975	368.504	368.170	368.016	367.836	367.009	365.536	364.174
<b>15</b>	375.118	374.917	374.583	374.450	374.625	372.972	371.366	370.316	369.018	366.988
<b>20</b>	378.600	378.314	378.134	378.669	376.793	375.722	374.493	371.970	365.981	361.958
<b>25</b>	379.496	379.093	379.787	378.446	377.689	376.167	370.761	366.140	362.250	358.296
<b>30</b>	377.439	377.174	377.911	376.236	375.632	369.754	365.668	361.847	356.801	351.952
<b>35</b>	372.569	372.415	372.548	372.033	367.544	363.076	359.170	354.342	350.478	342.078
<b>40</b>	365.022	364.709	364.640	363.882	358.004	354.141	349.360	345.364	336.852	329.904
<b>45</b>	354.475	354.008	353.605	352.646	346.546	342.147	337.631	330.148	323.178	315.763
<b>50</b>	341.119	340.557	339.979	338.325	332.384	327.604	322.775	314.603	306.806	298.496
<b>55</b>	325.081	324.540	323.761	321.281	315.716	310.310	305.153	296.397	287.838	278.679
<b>60</b>	306.626	305.980	304.951	301.936	296.482	290.742	284.960	275.796	266.839	257.034
<b>65</b>	285.808	285.135	283.953	280.264	274.996	268.964	262.594	253.170	243.652	233.423
<b>70</b>	263.156	262.509	260.967	257.103	251.782	245.284	237.689	228.843	218.922	208.089
<b>75</b>	238.940	238.314	236.481	232.548	227.031	220.464	212.535	203.350	193.121	182.018
<b>80</b>	214.767	214.162	211.931	207.998	202.683	195.755	187.625	178.891	168.524	157.044
<b>85</b>	193.233	192.655	190.376	186.443	180.947	174.714	166.605	156.954	146.073	134.413
<b>90</b>	181.037	180.454	178.244	174.693	169.176	162.318	154.251	144.579	133.724	122.107
<b>95</b>	177.417	176.702	174.312	170.517	165.111	158.226	150.075	140.646	130.194	118.529
<b>100</b>	172.282	171.789	169.441	165.689	160.330	153.536	145.649	136.337	125.928	114.602
<b>105</b>	166.022	165.556	163.367	159.636	154.564	147.928	140.132	131.085	120.946	109.933
<b>110</b>	158.650	158.205	156.106	152.534	147.616	141.229	133.857	124.990	115.227	104.389
<b>115</b>	150.165	149.741	147.796	144.377	139.687	133.544	126.506	118.063	108.523	98.405
<b>120</b>	140.556	140.180	138.367	135.261	130.682	124.921	118.264	110.288	101.283	91.589
<b>125</b>	130.014	129.611	127.958	125.011	120.718	115.429	109.127	101.712	93.222	84.243
<b>130</b>	118.619	118.174	116.679	113.908	110.023	105.083	99.274	92.395	84.620	76.044
<b>135</b>	106.376	105.931	104.617	102.089	98.538	94.070	88.775	82.362	73.967	65.185
<b>140</b>	93.375	93.020	91.838	89.602	86.385	82.388	77.226	69.653	61.968	54.595
<b>145</b>	79.972	79.595	78.567	76.622	73.739	69.541	63.197	56.986	50.710	44.721
<b>150</b>	65.943	65.630	64.761	63.155	60.139	54.733	49.862	45.061	40.455	36.411
<b>155</b>	51.829	51.558	50.843	49.412	44.902	41.038	37.550	34.646	31.720	28.440
<b>160</b>	37.974	37.731	37.084	34.222	31.206	28.774	27.189	25.376	23.055	20.219
<b>165</b>	24.661	24.486	22.896	20.797	19.255	18.587	17.691	16.350	14.501	12.868
<b>170</b>	12.375	12.063	10.499	9.985	9.943	9.694	9.291	8.665	7.955	7.303
<b>175</b>	4.690	4.176	4.155	4.288	4.357	4.314	4.288	4.176	4.044	3.911
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles**      **Horizontal Angles**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	358.248	358.248	358.248	358.248	358.248	358.248	358.248	358.248	358.248
<b>5</b>	360.061	359.727	359.568	359.282	358.969	358.741	358.566	358.587	358.497
<b>10</b>	362.764	361.672	360.665	359.637	358.476	357.379	356.489	355.927	355.725
<b>15</b>	364.619	360.665	356.441	353.049	350.409	347.797	345.878	344.447	343.753
<b>20</b>	358.163	354.475	350.701	346.949	343.217	339.666	336.518	334.239	333.386
<b>25</b>	353.515	348.380	343.663	339.688	335.532	330.821	325.929	322.288	320.745
<b>30</b>	348.109	340.514	333.100	326.533	320.321	314.242	308.773	304.639	302.694
<b>35</b>	334.976	327.826	320.496	312.726	305.174	298.045	291.950	287.260	284.960
<b>40</b>	322.086	315.048	306.202	296.217	287.615	279.040	271.397	265.164	262.260
<b>45</b>	306.626	297.447	287.859	277.630	268.201	258.264	249.148	241.934	238.537
<b>50</b>	288.712	278.971	268.228	256.944	246.153	235.209	225.155	217.046	213.113
<b>55</b>	268.604	257.750	246.402	234.180	222.388	210.389	199.264	190.238	185.770
<b>60</b>	246.264	234.673	222.542	209.498	196.694	183.762	171.900	162.005	157.044

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	221.847	209.694	196.831	183.115	169.711	155.815	143.015	132.383	127.067
<b>70</b>	196.068	183.449	170.003	155.523	141.319	126.707	113.123	101.866	96.147
<b>75</b>	169.573	156.149	142.390	127.332	112.567	97.287	83.168	71.375	65.365
<b>80</b>	144.086	130.438	116.054	100.525	85.314	69.499	54.420	43.359	36.369
<b>85</b>	121.391	107.855	92.999	77.497	62.015	46.423	31.053	18.608	12.375
<b>90</b>	109.259	95.320	80.979	65.497	49.974	33.756	19.080	6.879	0.715
<b>95</b>	105.597	91.971	77.629	62.127	46.910	31.546	16.774	5.629	0.000
<b>100</b>	101.935	88.595	74.481	59.312	44.478	29.643	15.752	5.183	0.000
<b>105</b>	97.419	84.620	70.925	56.249	41.976	27.767	14.586	4.913	0.000
<b>110</b>	92.485	79.998	66.769	52.899	39.273	26.002	13.536	4.447	0.000
<b>115</b>	86.989	75.016	62.460	49.481	36.570	23.945	12.598	4.086	0.000
<b>120</b>	80.825	69.520	57.722	45.548	33.332	21.672	11.215	3.599	0.000
<b>125</b>	74.343	63.600	52.274	40.677	29.378	18.921	9.582	3.217	0.000
<b>130</b>	65.768	55.401	45.283	34.985	25.355	15.926	8.178	2.926	0.000
<b>135</b>	56.116	47.223	38.515	29.643	21.332	13.181	6.704	2.772	0.000
<b>140</b>	47.112	39.538	32.325	24.661	17.400	10.881	5.565	2.682	0.000
<b>145</b>	38.913	33.151	26.452	19.727	14.050	8.623	4.781	2.613	0.000
<b>150</b>	31.832	26.452	20.818	15.725	11.035	6.901	4.176	0.000	0.000
<b>155</b>	24.258	19.992	15.953	12.084	8.554	5.650	3.774	0.000	0.000
<b>160</b>	17.024	14.162	11.437	8.692	6.455	4.690	3.440	0.000	0.000
<b>165</b>	11.082	9.227	7.595	6.190	4.961	3.954	3.238	0.000	0.000
<b>170</b>	6.567	5.830	5.162	4.537	4.023	3.620	3.328	0.000	0.000
<b>175</b>	3.774	3.641	3.530	3.418	3.307	3.259	3.196	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	137.17	N.A.	6.90
0-30	301.14	N.A.	15.10
0-40	512.00	N.A.	25.70
0-60	990.50	N.A.	49.70
0-80	1390.53	N.A.	69.80
0-90	1526.04	N.A.	76.60
10-90	1491.55	N.A.	74.80
20-40	374.84	N.A.	18.80
20-50	612.45	N.A.	30.70
40-70	698.72	N.A.	35.10
60-80	400.04	N.A.	20.10
70-80	179.81	N.A.	9.00
80-90	135.51	N.A.	6.80
90-110	219.97	N.A.	11.00
90-120	307.70	N.A.	15.40
90-130	375.61	N.A.	18.80
90-150	449.79	N.A.	22.60
90-180	466.72	N.A.	23.40
110-180	246.74	N.A.	12.40
0-180	1992.76	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	34.49
10-20	102.67
20-30	163.97
30-40	210.86
40-50	237.61
50-60	240.89
60-70	220.23
70-80	179.81
80-90	135.51
90-100	115.82
100-110	104.16
110-120	87.73
120-130	67.91
130-140	46.73
140-150	27.45
150-160	12.72
160-170	3.79
170-180	0.42

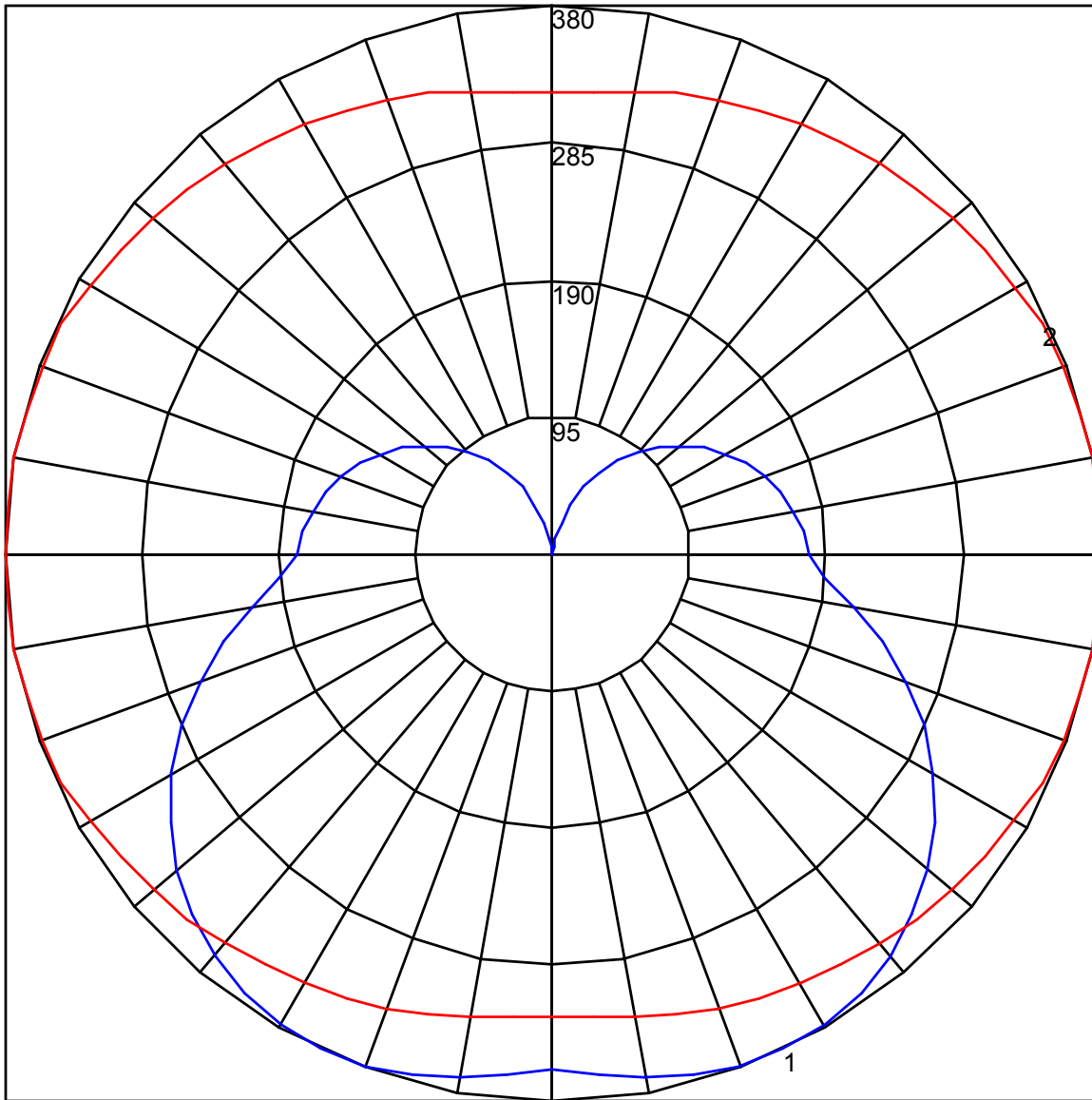
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	101	95	89	85	95	90	85	81	81	78	74	74	71	68	66	64	62	58
2	90	81	73	67	85	77	70	64	70	64	59	63	58	54	56	53	50	46
3	82	70	61	54	77	67	59	52	60	54	48	54	49	44	49	44	41	37
4	74	61	52	45	70	58	50	43	53	46	40	48	42	37	43	38	34	31
5	68	54	45	38	64	52	43	37	47	40	34	43	36	32	38	33	29	26
6	62	49	39	33	59	46	38	32	42	35	29	38	32	27	35	29	25	23
7	58	44	35	28	54	42	33	27	38	31	26	35	28	24	31	26	22	20
8	53	40	31	25	51	38	30	24	35	28	23	32	26	21	29	24	20	17
9	50	36	28	22	47	35	27	22	32	25	20	29	23	19	26	21	18	16
10	47	33	25	20	44	32	24	19	29	23	18	27	21	17	24	19	16	14

POLAR GRAPH



Maximum Candela = 379.787 Located At Horizontal Angle = 10, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)