



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : S1-LED4-SO-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-SO-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	3384
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	35
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	6765	6679	7137
55	6572	6402	6761
65	6348	6069	6139
75	6093	5649	4918
85	5998	5376	2259

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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>	608.346	608.346	608.346	608.346	608.346	608.346	608.346	608.346	608.346	608.346
<b>5</b>	615.753	615.708	615.600	615.447	614.691	614.115	613.665	613.017	612.297	611.838
<b>10</b>	627.354	627.165	626.562	625.761	625.194	624.933	624.627	623.223	620.721	618.408
<b>15</b>	636.993	636.651	636.084	635.859	636.156	633.348	630.621	628.839	626.634	623.187
<b>20</b>	642.906	642.420	642.114	643.023	639.837	638.019	635.931	631.647	621.477	614.646
<b>25</b>	644.427	643.743	644.922	642.645	641.358	638.775	629.595	621.747	615.141	608.427
<b>30</b>	640.935	640.485	641.736	638.892	637.866	627.885	620.946	614.457	605.889	597.654
<b>35</b>	632.664	632.403	632.628	631.755	624.132	616.545	609.912	601.713	595.152	580.887
<b>40</b>	619.848	619.317	619.200	617.913	607.932	601.371	593.253	586.467	572.013	560.214
<b>45</b>	601.938	601.146	600.462	598.833	588.474	581.004	573.336	560.628	548.793	536.202
<b>50</b>	579.258	578.304	577.323	574.515	564.426	556.308	548.109	534.231	520.992	506.880
<b>55</b>	552.024	551.106	549.783	545.571	536.121	526.941	518.184	503.316	488.781	473.229
<b>60</b>	520.686	519.588	517.842	512.721	503.460	493.713	483.894	468.333	453.123	436.473
<b>65</b>	485.334	484.191	482.184	475.920	466.974	456.732	445.914	429.912	413.748	396.378
<b>70</b>	446.868	445.770	443.151	436.590	427.554	416.520	403.623	388.602	371.754	353.358
<b>75</b>	405.747	404.685	401.571	394.893	385.524	374.373	360.909	345.312	327.942	309.087
<b>80</b>	364.698	363.672	359.883	353.205	344.178	332.415	318.609	303.777	286.173	266.679
<b>85</b>	328.131	327.150	323.280	316.602	307.269	296.685	282.915	266.526	248.049	228.249
<b>90</b>	307.422	306.432	302.679	296.649	287.280	275.634	261.936	245.511	227.079	207.351
<b>95</b>	301.275	300.060	296.001	289.557	280.377	268.686	254.844	238.833	221.085	201.276
<b>100</b>	292.554	291.717	287.730	281.358	272.259	260.721	247.329	231.516	213.840	194.607
<b>105</b>	281.925	281.133	277.416	271.080	262.467	251.199	237.960	222.597	205.380	186.678
<b>110</b>	269.406	268.650	265.086	259.020	250.668	239.823	227.304	212.247	195.669	177.264
<b>115</b>	254.997	254.277	250.974	245.169	237.204	226.773	214.821	200.484	184.284	167.103
<b>120</b>	238.680	238.041	234.963	229.689	221.913	212.130	200.826	187.281	171.990	155.529
<b>125</b>	220.779	220.095	217.287	212.283	204.993	196.011	185.310	172.719	158.301	143.055
<b>130</b>	201.429	200.673	198.135	193.428	186.831	178.443	168.579	156.897	143.694	129.132
<b>135</b>	180.639	179.883	177.651	173.358	167.328	159.741	150.750	139.860	125.604	110.691
<b>140</b>	158.562	157.959	155.952	152.154	146.691	139.905	131.139	118.278	105.228	92.709
<b>145</b>	135.801	135.162	133.416	130.113	125.217	118.089	107.316	96.768	86.112	75.942
<b>150</b>	111.978	111.447	109.971	107.244	102.123	92.943	84.672	76.518	68.697	61.830
<b>155</b>	88.011	87.552	86.337	83.907	76.248	69.687	63.765	58.833	53.865	48.294
<b>160</b>	64.485	64.071	62.973	58.113	52.992	48.861	46.170	43.092	39.150	34.335
<b>165</b>	41.877	41.580	38.880	35.316	32.697	31.563	30.042	27.765	24.624	21.852
<b>170</b>	21.015	20.484	17.829	16.956	16.884	16.461	15.777	14.715	13.509	12.402
<b>175</b>	7.965	7.092	7.056	7.281	7.398	7.326	7.281	7.092	6.867	6.642
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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>	608.346	608.346	608.346	608.346	608.346	608.346	608.346	608.346	608.346	
<b>5</b>	611.424	610.857	610.587	610.101	609.570	609.183	608.886	608.922	608.769	
<b>10</b>	616.014	614.160	612.450	610.704	608.733	606.870	605.358	604.404	604.062	
<b>15</b>	619.164	612.450	605.277	599.517	595.035	590.598	587.340	584.910	583.731	
<b>20</b>	608.202	601.938	595.530	589.158	582.822	576.792	571.446	567.576	566.127	
<b>25</b>	600.309	591.588	583.578	576.828	569.772	561.771	553.464	547.281	544.662	
<b>30</b>	591.129	578.232	565.641	554.490	543.942	533.619	524.331	517.311	514.008	
<b>35</b>	568.827	556.686	544.239	531.045	518.220	506.115	495.765	487.800	483.894	
<b>40</b>	546.939	534.987	519.966	503.010	488.403	473.841	460.863	450.279	445.347	
<b>45</b>	520.686	505.098	488.817	471.447	455.436	438.561	423.081	410.832	405.063	
<b>50</b>	490.266	473.724	455.481	436.320	417.996	399.411	382.338	368.568	361.890	
<b>55</b>	456.120	437.688	418.419	397.665	377.640	357.264	338.373	323.046	315.459	
<b>60</b>	418.185	398.502	377.901	355.752	334.008	312.048	291.906	275.103	266.679	

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	376.722	356.085	334.242	310.950	288.189	264.591	242.856	224.802	215.775
<b>70</b>	332.946	311.517	288.684	264.096	239.976	215.163	192.096	172.980	163.269
<b>75</b>	287.955	265.158	241.794	216.225	191.151	165.204	141.228	121.203	110.997
<b>80</b>	244.674	221.499	197.073	170.703	144.873	118.017	92.412	73.629	61.758
<b>85</b>	206.136	183.150	157.923	131.598	105.309	78.831	52.731	31.599	21.015
<b>90</b>	185.535	161.865	137.511	111.222	84.861	57.321	32.400	11.682	1.215
<b>95</b>	179.316	156.177	131.823	105.498	79.659	53.568	28.485	9.558	0.000
<b>100</b>	173.097	150.444	126.477	100.719	75.528	50.337	26.748	8.802	0.000
<b>105</b>	165.429	143.694	120.438	95.517	71.280	47.151	24.768	8.343	0.000
<b>110</b>	157.050	135.846	113.382	89.829	66.690	44.154	22.986	7.551	0.000
<b>115</b>	147.717	127.386	106.065	84.024	62.100	40.662	21.393	6.939	0.000
<b>120</b>	137.250	118.053	98.019	77.346	56.601	36.801	19.044	6.111	0.000
<b>125</b>	126.243	108.000	88.767	69.075	49.887	32.130	16.272	5.463	0.000
<b>130</b>	111.681	94.077	76.896	59.409	43.056	27.045	13.887	4.968	0.000
<b>135</b>	95.292	80.190	65.403	50.337	36.225	22.383	11.385	4.707	0.000
<b>140</b>	80.001	67.140	54.891	41.877	29.547	18.477	9.450	4.554	0.000
<b>145</b>	66.078	56.295	44.919	33.498	23.859	14.643	8.118	4.437	0.000
<b>150</b>	54.054	44.919	35.352	26.703	18.738	11.718	7.092	0.000	0.000
<b>155</b>	41.193	33.948	27.090	20.520	14.526	9.594	6.408	0.000	0.000
<b>160</b>	28.908	24.048	19.422	14.760	10.962	7.965	5.841	0.000	0.000
<b>165</b>	18.819	15.669	12.897	10.512	8.424	6.714	5.499	0.000	0.000
<b>170</b>	11.151	9.900	8.766	7.704	6.831	6.147	5.652	0.000	0.000
<b>175</b>	6.408	6.183	5.994	5.805	5.616	5.535	5.427	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	232.92	N.A.	6.90
0-30	511.37	N.A.	15.10
0-40	869.44	N.A.	25.70
0-60	1681.98	N.A.	49.70
0-80	2361.28	N.A.	69.80
0-90	2591.39	N.A.	76.60
10-90	2532.82	N.A.	74.80
20-40	636.52	N.A.	18.80
20-50	1040.00	N.A.	30.70
40-70	1186.51	N.A.	35.10
60-80	679.31	N.A.	20.10
70-80	305.33	N.A.	9.00
80-90	230.11	N.A.	6.80
90-110	373.54	N.A.	11.00
90-120	522.51	N.A.	15.40
90-130	637.83	N.A.	18.80
90-150	763.79	N.A.	22.60
90-180	792.54	N.A.	23.40
110-180	419.00	N.A.	12.40
0-180	3383.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	58.57
10-20	174.35
20-30	278.45
30-40	358.07
40-50	403.49
50-60	409.05
60-70	373.97
70-80	305.33
80-90	230.11
90-100	196.67
100-110	176.87
110-120	148.97
120-130	115.31
130-140	79.35
140-150	46.62
150-160	21.60
160-170	6.44
170-180	0.71

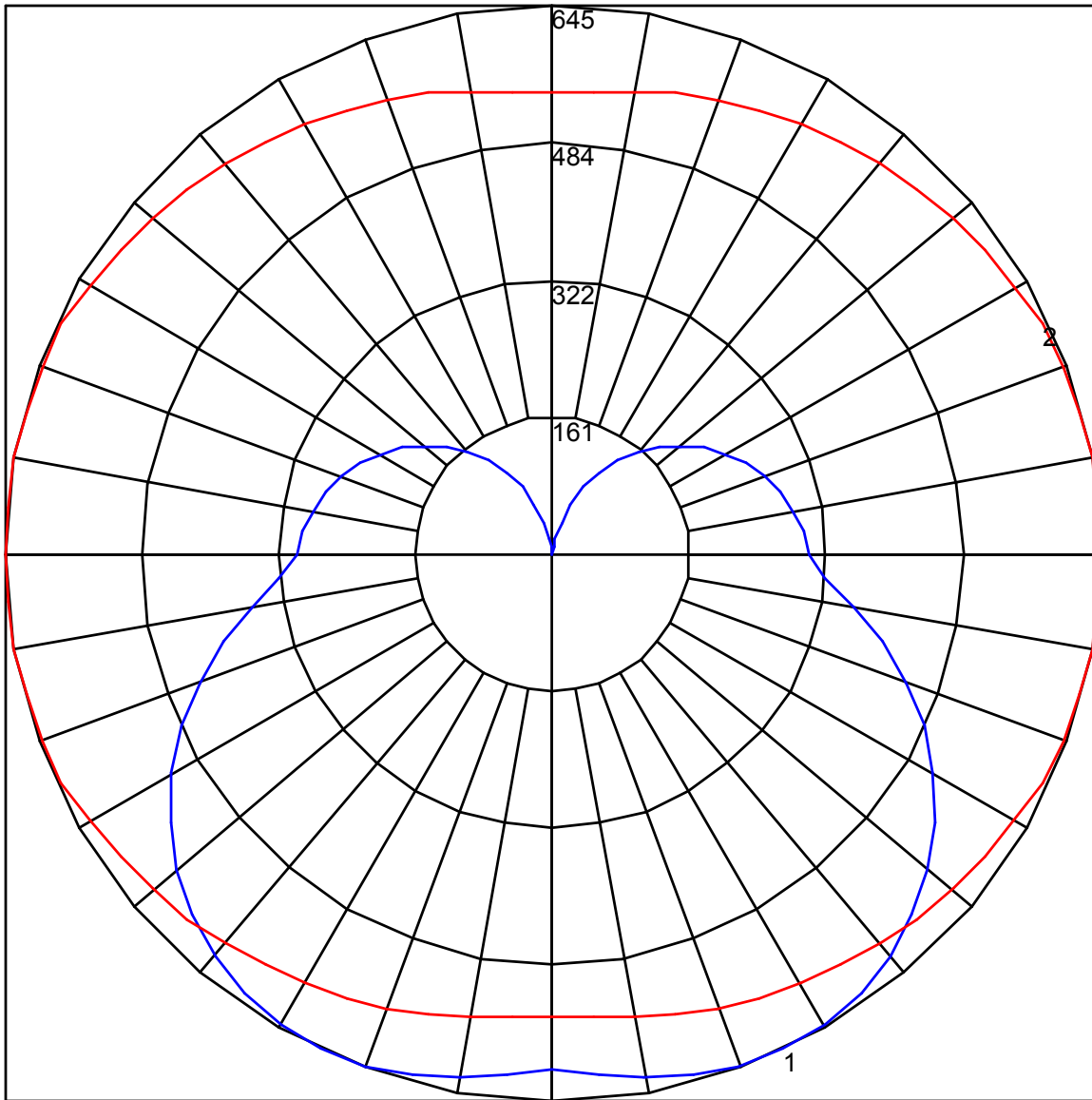
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	29	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 = 644.922 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.)