



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : STOV-LED35-SO-D1-NU.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L051506801  
 [TESTLAB]  
 [ISSUE DATE]  
 [MANUFAC] PRUDENTIAL LTG.  
 [LUMCAT] STOV-LED35-SO-D1-NU  
 [LUMINAIRE] 49"L. X 5"W. X 4-1/4"H. LED LUMINAIRE  
 [MORE] WHITE REFLECTOR  
 [BALLASTCAT] OSRAM OPTOTRONIC OT50W/PRG1400C/UNV/DIM/L  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3719
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.88 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16608	15852	15754
55	16417	15682	15531
65	16465	15763	14911
75	15774	13396	9819
85	13485	6720	6175

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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>
<b>0</b>	1279.293	1279.293	1279.293	1279.293	1279.293	1279.293	1279.293	1279.293	1279.293	1279.293
<b>5</b>	1272.430	1271.888	1270.985	1269.940	1270.263	1271.089	1271.901	1272.017	1270.676	1270.315
<b>10</b>	1256.537	1255.338	1253.751	1251.777	1251.506	1251.610	1251.571	1250.926	1249.352	1248.565
<b>15</b>	1230.634	1228.880	1226.493	1223.707	1222.675	1222.069	1221.037	1219.540	1217.334	1215.928
<b>20</b>	1195.778	1193.418	1189.767	1186.348	1184.542	1182.994	1181.240	1179.241	1176.183	1174.081
<b>25</b>	1151.041	1147.984	1143.688	1139.354	1137.135	1134.774	1132.233	1129.692	1126.260	1123.319
<b>30</b>	1097.958	1094.346	1089.095	1084.555	1081.704	1078.840	1075.834	1072.209	1068.275	1065.114
<b>35</b>	1036.837	1032.593	1026.672	1021.345	1018.003	1014.624	1010.908	1006.922	1002.781	999.660
<b>40</b>	967.319	962.521	956.148	950.343	946.460	942.526	938.797	934.386	930.529	927.291
<b>45</b>	889.803	884.488	877.574	872.040	867.731	863.732	859.630	855.154	851.903	849.271
<b>50</b>	805.334	799.774	792.782	787.184	782.798	779.070	774.967	771.239	768.866	767.111
<b>55</b>	713.447	707.849	700.947	695.890	692.033	688.963	685.583	683.068	681.752	681.533
<b>60</b>	628.153	622.735	616.207	611.873	608.674	606.235	604.262	603.036	602.430	601.643
<b>65</b>	527.236	521.960	516.193	513.162	511.588	510.363	509.627	508.647	507.305	504.751
<b>70</b>	420.759	416.180	411.923	410.633	410.620	410.401	409.278	406.492	401.899	395.965
<b>75</b>	309.342	306.478	305.214	306.504	306.801	304.646	298.957	289.399	277.298	262.708
<b>80</b>	198.260	197.525	200.143	200.827	195.667	183.167	165.146	146.815	131.799	120.525
<b>85</b>	89.049	92.312	90.584	76.136	62.165	53.793	49.807	47.472	45.756	44.376
<b>90</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**

	<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>
<b>0</b>	1279.293	1279.293	1279.293	1279.293	1279.293	1279.293	1279.293	1279.293	1279.293
<b>5</b>	1269.618	1269.012	1268.573	1266.470	1264.703	1264.587	1265.348	1266.445	1266.586
<b>10</b>	1246.862	1245.959	1245.031	1242.425	1240.864	1240.245	1240.412	1241.161	1241.173
<b>15</b>	1213.684	1212.329	1210.768	1208.149	1206.563	1205.789	1204.744	1205.492	1206.627
<b>20</b>	1171.307	1169.475	1167.669	1165.076	1163.851	1162.367	1160.755	1162.135	1163.103
<b>25</b>	1120.365	1118.185	1116.031	1113.863	1112.844	1111.077	1109.000	1110.858	1111.464
<b>30</b>	1061.863	1059.825	1057.684	1055.826	1054.665	1052.872	1050.873	1052.369	1052.563
<b>35</b>	996.486	994.680	992.707	991.249	990.139	987.830	986.682	987.043	988.050
<b>40</b>	924.698	923.459	921.628	920.673	919.576	917.654	917.345	917.345	918.764
<b>45</b>	847.840	846.691	845.427	844.821	843.557	842.396	842.538	842.434	844.034
<b>50</b>	766.376	765.344	764.557	763.809	762.016	761.474	761.822	762.119	763.048
<b>55</b>	680.539	679.275	678.514	676.876	675.418	674.476	674.322	675.457	674.941
<b>60</b>	600.018	598.354	596.548	593.851	591.852	591.091	589.285	590.433	589.491
<b>65</b>	501.900	498.224	493.322	489.361	485.246	482.434	479.338	478.822	477.481
<b>70</b>	387.838	378.757	370.707	361.909	355.563	349.009	344.959	342.598	341.231
<b>75</b>	245.964	234.483	222.693	212.850	204.633	199.008	195.745	193.358	192.558
<b>80</b>	113.507	108.154	104.929	99.807	95.666	94.415	93.448	92.983	92.880
<b>85</b>	43.318	42.531	41.951	41.499	41.138	40.919	40.816	40.790	40.777
<b>90</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	463.65	N.A.	12.50
0-30	982.55	N.A.	26.40
0-40	1610.92	N.A.	43.30
0-60	2885.73	N.A.	77.60
0-80	3651.93	N.A.	98.20
0-90	3718.62	N.A.	100.00
10-90	3598.13	N.A.	96.80
20-40	1147.27	N.A.	30.90
20-50	1807.62	N.A.	48.60
40-70	1767.43	N.A.	47.50
60-80	766.20	N.A.	20.60
70-80	273.57	N.A.	7.40
80-90	66.69	N.A.	1.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3718.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	120.49
10-20	343.16
20-30	518.91
30-40	628.37
40-50	660.35
50-60	614.46
60-70	492.63
70-80	273.57
80-90	66.69
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

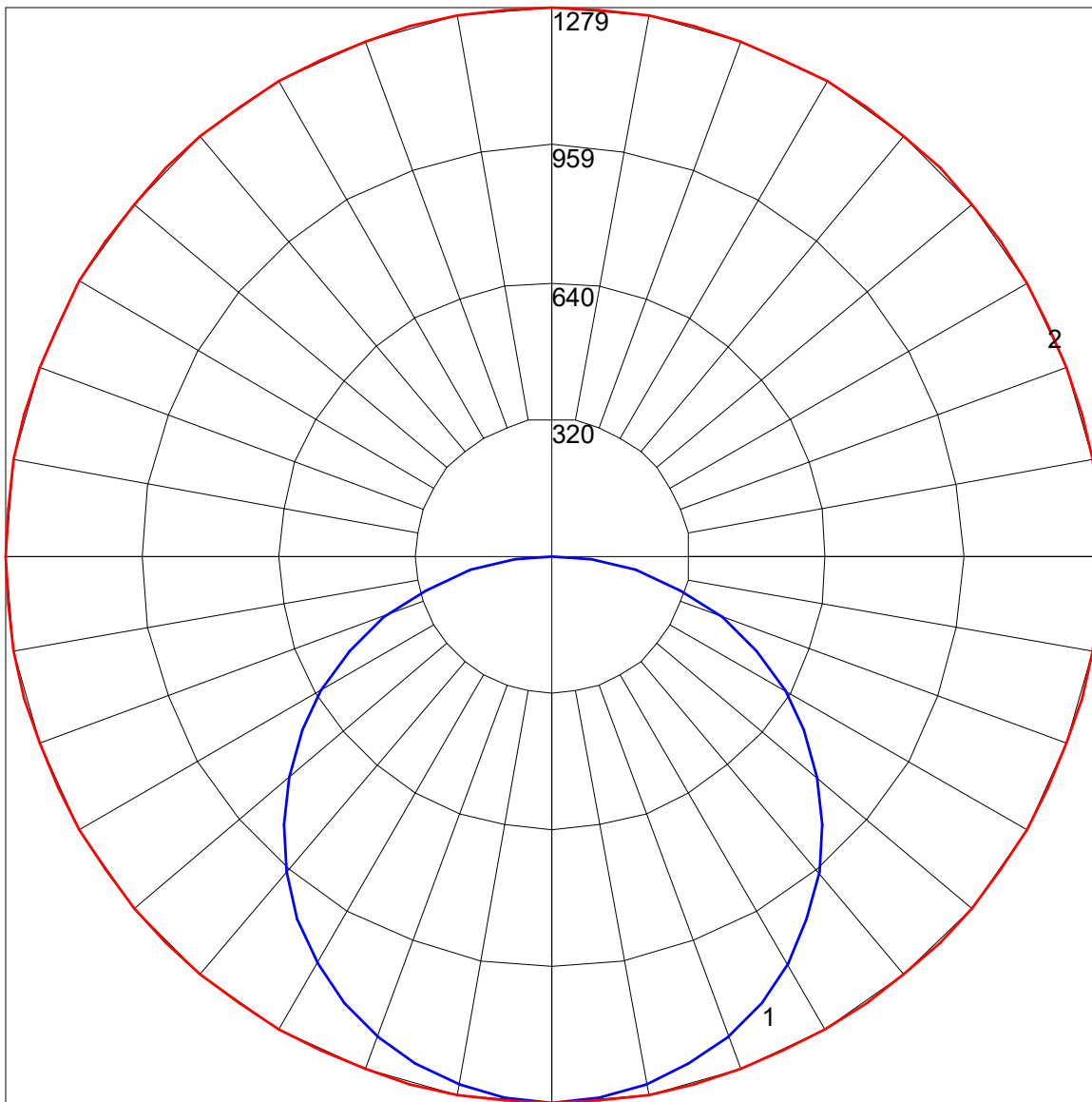
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

POLAR GRAPH



Maximum Candela = 1279.293 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)