



IES INDOOR REPORT

PHOTOMETRIC FILENAME : STSQ-LED35-SO-SO-CW-D1-SC.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L061501501
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] SQ-LED35-SO-SO-D1-CW-SC
 [LUMINAIRE] 4-1/2"SQ. X 49-1/2"L. LED LUMINAIRE
 [MORE] WHITE REFLECTOR AND LEDS WITH OPTICS
 [BALLASTCAT] OSRAM OPTOTRONIC

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5626
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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)	4.08 ft
Luminous Width (90-270)	0.35 ft
Luminous Height	0.38 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7798	4414	3779
55	7559	3659	3002
65	7361	2902	2189
75	6751	1791	980
85	5113	559	208

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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>
0	1129.837	1129.837	1129.837	1129.837	1129.837	1129.837	1129.837	1129.837	1129.837	1129.837
5	1123.972	1123.470	1122.935	1122.482	1123.000	1124.053	1124.831	1124.782	1123.826	1123.810
10	1110.267	1109.554	1108.890	1107.821	1107.837	1108.145	1108.534	1107.902	1106.395	1105.796
15	1088.105	1087.312	1086.097	1084.298	1083.796	1083.586	1083.278	1081.723	1080.119	1078.807
20	1058.573	1057.342	1055.219	1053.146	1052.028	1051.169	1049.922	1047.622	1045.273	1043.296
25	1019.920	1019.045	1015.951	1013.310	1011.479	1010.167	1007.915	1004.805	1001.646	998.941
30	975.499	973.669	970.024	966.865	964.467	962.118	959.251	955.152	951.313	947.878
35	923.546	921.391	917.082	913.437	910.472	907.492	903.749	898.987	894.937	890.449
40	865.129	862.780	858.065	853.918	850.111	846.823	842.384	837.248	832.680	828.241
45	800.410	797.494	792.099	787.871	783.756	779.528	774.457	769.338	764.041	760.023
50	729.308	726.149	721.030	716.575	712.330	707.551	702.140	696.924	692.177	687.463
55	652.342	649.085	643.788	639.770	636.012	631.120	626.130	621.173	616.005	610.481
60	581.305	578.000	573.674	570.451	567.081	562.820	557.815	552.614	546.507	540.254
65	495.574	492.642	489.467	487.442	484.866	480.816	476.086	469.687	461.846	454.021
70	405.130	403.542	402.554	402.278	400.707	396.641	389.788	381.008	370.624	359.608
75	312.676	313.421	316.969	318.881	316.564	309.550	298.825	284.958	269.325	252.995
80	217.793	224.354	234.463	236.147	227.950	212.706	192.748	171.461	150.433	132.386
85	122.180	145.768	153.770	141.475	123.493	107.973	95.564	85.633	76.529	68.153
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	77.193	103.761	128.012	135.254	134.671	132.953	136.161	155.957	192.391	233.685
100	106.061	118.649	142.009	157.853	167.378	169.825	170.878	187.936	225.536	265.664
105	133.909	142.414	159.214	174.766	184.421	189.216	197.381	210.260	239.047	283.176
110	162.211	169.128	180.776	193.234	206.663	214.715	222.912	237.703	264.611	299.327
115	188.519	191.338	201.820	215.023	228.631	242.141	253.384	270.751	292.750	329.427
120	210.487	214.958	224.969	239.987	255.425	269.147	282.917	307.217	324.810	361.325
125	234.949	235.143	248.719	260.771	276.259	292.815	312.125	327.839	357.534	395.231
130	255.247	261.517	270.151	281.491	296.266	314.231	328.358	363.058	384.977	417.053
135	283.127	281.653	287.096	299.765	313.033	326.657	348.138	374.576	402.975	433.885
140	295.115	300.834	307.816	320.566	330.091	343.440	367.870	390.096	409.990	431.503
145	314.021	316.597	322.510	330.431	340.394	350.843	371.920	389.529	408.758	427.081
150	336.830	338.661	341.334	344.428	351.427	364.338	378.189	392.461	408.289	421.897
155	353.014	353.095	354.213	359.462	365.423	374.479	384.134	387.731	397.321	407.462
160	361.373	361.519	361.892	363.382	367.691	373.702	380.749	388.557	396.025	404.757
165	371.563	371.887	373.329	375.062	378.821	381.753	387.180	391.781	396.268	401.760
170	383.665	383.989	384.523	384.944	387.326	389.092	391.489	393.854	395.280	398.196
175	390.712	390.971	390.598	391.214	391.959	392.639	393.984	394.778	394.988	395.183
180	394.519	394.519	394.519	394.519	394.519	394.519	394.519	394.519	394.519	394.519

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>
0	1129.837	1129.837	1129.837	1129.837	1129.837	1129.837	1129.837	1129.837	1129.837
5	1123.211	1122.709	1122.498	1120.424	1118.772	1118.545	1119.679	1120.181	1121.510
10	1104.856	1103.981	1102.977	1101.082	1098.976	1098.684	1099.478	1100.029	1100.968
15	1076.992	1075.923	1074.157	1071.711	1069.281	1068.844	1069.524	1069.848	1070.026
20	1040.850	1039.360	1036.865	1033.819	1031.454	1030.936	1031.065	1031.616	1031.243
25	996.219	994.421	991.197	987.876	985.527	985.009	984.976	984.895	984.685
30	944.687	942.500	938.839	935.582	933.331	932.764	932.812	931.630	931.937
35	887.420	883.823	880.097	877.003	875.318	874.411	874.233	873.180	873.472
40	824.645	820.174	816.010	813.289	811.847	810.632	810.454	809.482	810.000
45	755.714	750.757	746.512	743.418	742.268	741.150	740.729	740.259	740.146
50	682.247	677.160	672.835	669.400	667.408	666.128	665.204	664.978	664.897
55	604.714	599.222	594.184	589.631	586.942	585.063	584.221	583.313	583.168
60	533.677	527.245	520.960	515.565	511.580	509.296	508.680	506.720	506.720

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65	445.694	437.432	429.316	422.561	416.518	413.602	411.091	409.374	408.937
70	346.016	336.911	325.960	316.337	308.561	303.248	299.036	297.335	296.590
75	236.747	221.049	206.550	194.497	184.081	177.131	173.178	170.942	170.132
80	117.158	103.777	92.243	82.750	75.443	71.393	69.466	68.234	67.862
85	60.377	53.249	47.693	41.569	35.786	33.275	32.740	32.384	32.238
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	256.478	247.293	217.971	185.409	155.196	135.367	124.384	116.122	113.481
100	374.269	447.347	485.158	495.542	477.754	460.339	446.051	431.989	431.131
105	367.432	470.918	542.911	598.833	623.538	641.261	645.505	648.956	651.613
110	362.637	447.590	518.011	584.026	632.124	672.786	698.252	712.978	718.000
115	383.632	442.973	496.141	549.844	593.374	632.448	661.235	679.250	685.341
120	405.842	454.313	494.440	535.329	570.807	602.105	627.685	642.946	648.162
125	428.603	470.124	502.103	533.515	564.505	592.240	613.737	625.482	629.710
130	453.551	484.105	513.394	537.581	562.205	587.898	603.482	614.774	619.132
135	458.995	487.393	518.319	535.345	558.851	581.353	595.220	605.410	609.217
140	455.787	481.934	503.690	521.543	543.024	563.242	576.137	583.508	588.222
145	449.599	461.570	478.904	498.847	516.100	530.388	543.429	549.164	553.343
150	430.758	444.512	459.221	473.461	486.113	497.648	506.525	511.304	514.026
155	418.900	431.147	441.563	451.121	460.161	467.856	473.153	476.653	478.418
160	411.853	420.325	427.064	432.394	438.064	442.163	445.954	447.865	450.085
165	405.842	411.107	414.963	417.960	420.925	423.452	426.433	425.930	428.846
170	400.318	402.878	405.340	406.102	407.495	408.710	410.573	409.714	412.630
175	396.284	397.354	397.564	397.386	397.273	397.661	398.520	398.455	399.929
180	394.519	394.519	394.519	394.519	394.519	394.519	394.519	394.519	394.519

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	410.89	N.A.	7.30
0-30	871.87	N.A.	15.50
0-40	1431.09	N.A.	25.40
0-60	2569.69	N.A.	45.70
0-80	3278.66	N.A.	58.30
0-90	3360.81	N.A.	59.70
10-90	3254.21	N.A.	57.80
20-40	1020.2	N.A.	18.10
20-50	1609.2	N.A.	28.60
40-70	1584.16	N.A.	28.20
60-80	708.97	N.A.	12.60
70-80	263.40	N.A.	4.70
80-90	82.15	N.A.	1.50
90-110	551.78	N.A.	9.80
90-120	944.68	N.A.	16.80
90-130	1316.98	N.A.	23.40
90-150	1923.17	N.A.	34.20
90-180	2265.59	N.A.	40.30
110-180	1713.82	N.A.	30.50
0-180	5626.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.60
10-20	304.29
20-30	460.98
30-40	559.22
40-50	589.00
50-60	549.59
60-70	445.57
70-80	263.40
80-90	82.15
90-100	170.40
100-110	381.38
110-120	392.90
120-130	372.31
130-140	336.53
140-150	269.66
150-160	191.02
160-170	113.60
170-180	37.80

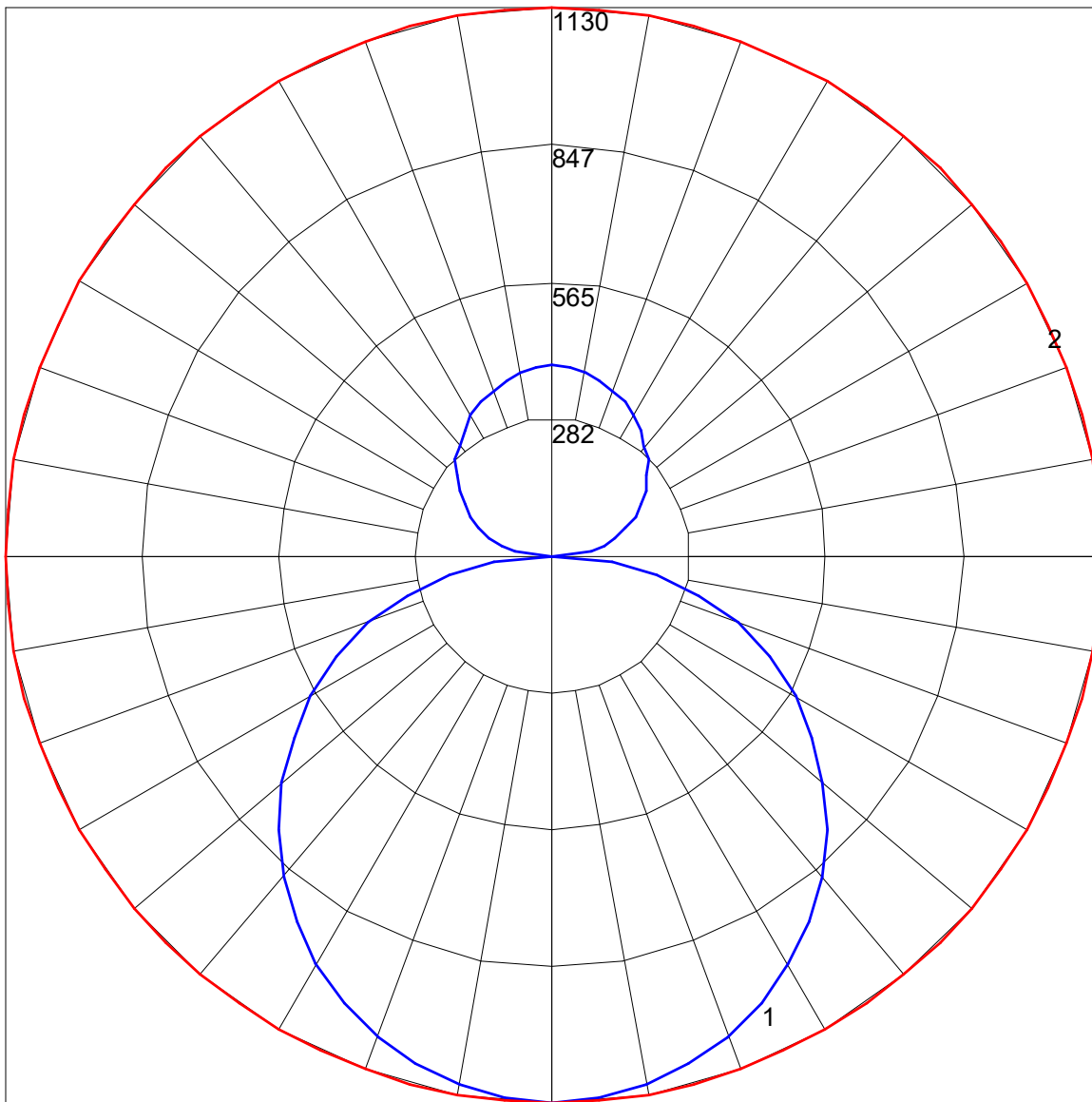
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	100	95	91	87	93	89	85	82	77	74	72	67	65	63	57	55	54	49
2	90	82	76	71	84	77	71	67	67	63	59	58	55	52	50	47	45	41
3	82	72	64	58	76	68	61	55	59	54	49	51	47	43	44	40	38	34
4	75	64	55	49	70	60	52	47	52	46	42	45	41	37	39	35	32	29
5	69	57	48	42	64	53	46	40	47	40	36	40	36	32	35	31	28	25
6	63	51	42	36	59	48	40	34	42	36	31	36	31	28	31	27	24	22
7	58	46	37	32	54	43	36	30	38	32	27	33	28	24	29	25	22	19
8	54	42	33	28	51	39	32	27	35	29	24	30	25	22	26	22	19	17
9	51	38	30	25	47	36	29	24	32	26	22	28	23	19	24	20	17	15
10	47	35	27	22	44	33	26	21	29	23	19	26	21	18	22	19	16	14

POLAR GRAPH



Maximum Candela = 1129.837 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.)