



IES INDOOR REPORT

PHOTOMETRIC FILENAME : STSQ-LED35-HO-HO-D1-SYM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] STSQ-LWS35-HO-HO-D1-SYM
 [TESTLAB] Intertek
 [ISSUE DATE]
 [MANUFAC] Prudential Ltg.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6558
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	61.8
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)	0.25 ft
Luminous Height	0.29 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12885	7292	6219
55	12895	6182	5010
65	12950	4851	3535
75	12755	2874	1451
85	11697	709	75

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1212.892	1212.892	1212.892	1212.892	1212.892	1212.892	1212.892	1212.892	1212.892	1212.892
2.5	1216.016	1211.980	1210.891	1212.635	1212.693	1212.038	1209.078	1212.108	1217.280	1212.108
5.0	1212.377	1208.423	1207.615	1210.225	1210.330	1209.277	1207.054	1209.172	1212.799	1209.172
7.5	1209.055	1202.854	1202.269	1203.544	1204.070	1204.035	1201.333	1205.708	1207.814	1205.708
10.0	1203.883	1195.483	1195.342	1197.156	1197.436	1197.121	1195.295	1199.320	1201.660	1199.320
12.5	1194.886	1187.948	1186.228	1188.369	1188.147	1189.012	1187.550	1191.516	1193.224	1191.516
15.0	1185.865	1176.493	1175.710	1177.816	1177.441	1178.529	1177.207	1179.734	1181.992	1179.734
17.5	1173.370	1164.735	1164.478	1165.332	1166.771	1166.502	1164.583	1169.193	1167.683	1169.193
20.0	1159.283	1150.168	1149.431	1152.181	1152.508	1152.976	1150.777	1154.790	1154.907	1154.790
22.5	1143.242	1133.484	1135.274	1136.175	1136.456	1134.666	1135.169	1138.340	1137.942	1138.340
25.0	1125.353	1115.443	1116.192	1118.064	1118.461	1117.174	1116.355	1121.620	1118.602	1121.620
27.5	1104.316	1095.249	1095.799	1097.437	1097.472	1095.799	1096.512	1102.222	1098.232	1102.222
30.0	1081.501	1071.720	1073.756	1073.370	1072.750	1073.428	1075.066	1080.319	1076.201	1080.319
32.5	1055.902	1048.589	1048.811	1047.712	1047.735	1047.583	1052.005	1057.212	1050.777	1057.212
35.0	1029.588	1022.638	1024.300	1021.784	1019.281	1021.702	1024.861	1030.630	1024.148	1030.630
37.5	1002.830	995.553	995.576	992.792	990.194	991.259	998.501	1004.398	998.174	1004.398
40.0	973.054	966.256	965.987	961.763	958.230	960.008	969.006	974.902	968.748	974.902
42.5	943.675	933.906	934.467	927.810	923.949	926.359	935.684	943.570	936.140	943.570
45.0	909.020	898.724	899.753	891.552	885.971	891.049	901.836	910.962	904.480	910.962
47.5	871.755	862.664	863.320	853.819	846.062	853.585	865.238	875.920	868.783	875.920
50.0	835.661	824.078	824.054	814.648	804.679	812.951	827.038	839.978	832.888	839.978
52.5	797.460	784.356	784.146	771.615	760.453	769.954	789.177	801.848	795.343	801.848
55.0	759.412	741.792	742.517	725.657	712.390	725.540	746.764	760.102	755.457	760.102
57.5	716.625	698.221	698.034	677.254	662.618	677.582	702.234	718.930	712.717	718.930
60.0	673.054	652.415	651.292	625.236	607.031	625.845	655.048	672.668	668.409	672.668
62.5	630.642	604.469	601.438	570.749	549.514	571.159	606.937	626.944	623.423	626.944
65.0	588.522	555.411	548.976	512.086	486.463	513.513	553.539	578.787	576.178	578.787
67.5	539.990	502.082	492.359	448.929	416.918	449.175	498.268	524.452	529.460	524.452
70.0	493.623	446.858	432.058	379.595	345.782	379.677	437.791	471.112	481.619	471.112
72.5	441.511	389.154	366.421	305.686	268.878	305.077	370.387	411.360	432.058	411.360
75.0	390.511	328.524	295.413	227.003	186.954	226.641	299.368	347.946	380.542	347.946
77.5	336.270	263.507	221.820	147.631	106.950	145.372	223.692	280.847	328.548	280.847
80.0	284.427	198.081	145.010	83.608	54.241	84.158	145.934	213.665	275.629	213.665
82.5	231.016	152.720	95.320	44.296	21.516	42.705	84.240	148.368	220.837	148.368
85.0	173.803	107.897	63.355	28.665	8.716	27.167	59.962	94.899	165.578	94.899
87.5	115.432	77.173	54.499	21.937	3.264	20.253	51.351	78.051	103.802	78.051
90.0	40.938	86.463	75.968	50.755	32.152	50.345	77.641	99.403	31.274	99.403
92.5	50.111	100.994	92.383	66.386	46.121	64.923	93.974	121.235	67.380	121.235
95.0	94.630	118.696	111.407	82.239	62.864	84.415	123.037	149.760	107.219	149.760
97.5	124.242	147.794	140.739	113.233	88.534	111.887	149.514	172.271	137.381	172.271
100.0	149.350	173.546	167.216	138.902	114.122	136.855	175.769	198.186	167.591	198.186
102.5	178.495	199.450	194.934	165.672	140.962	163.554	200.702	222.604	200.000	222.604
105.0	205.674	225.588	221.071	189.868	167.228	191.248	227.214	249.105	233.415	249.105
107.5	236.047	251.550	249.748	216.099	196.162	218.065	252.357	275.523	265.695	275.523
110.0	267.158	281.479	278.401	245.536	225.073	247.350	280.273	300.351	294.992	300.351
112.5	297.484	309.032	304.153	275.032	255.703	276.916	307.300	327.565	324.546	327.565
115.0	323.809	332.420	330.888	305.838	286.439	309.032	338.235	355.142	354.838	355.142
117.5	357.025	359.962	361.483	336.855	318.100	340.540	369.743	386.521	395.483	386.521
120.0	387.094	392.476	393.167	368.901	351.421	372.622	401.790	416.906	423.704	416.906
122.5	419.000	421.352	426.804	401.053	385.843	405.101	433.532	450.099	458.909	450.099
125.0	454.802	454.603	459.822	435.427	417.280	439.815	460.921	479.981	495.050	479.981
127.5	484.988	484.626	488.007	469.065	451.199	472.692	496.174	513.922	525.283	513.922
130.0	516.005	519.632	517.561	503.053	486.264	506.282	532.479	542.342	558.324	542.342
132.5	549.338	548.941	548.590	536.106	521.106	536.539	556.967	575.909	592.043	575.909

IES INDOOR REPORT
PHOTOMETRIC FILENAME : STSQ-LED35-HO-HO-D1-SYM.IES

CANDELA TABULATION - (Cont.)

135.0	583.105	577.723	581.443	565.297	556.042	566.046	596.758	607.441	627.085	607.441
137.5	617.620	611.266	614.051	592.418	588.978	605.276	629.624	641.371	650.883	641.371
140.0	643.266	645.711	640.575	624.534	621.434	641.956	658.148	672.469	682.765	672.469
142.5	678.202	678.307	672.130	656.779	654.627	673.253	685.959	692.254	715.502	692.254
145.0	710.167	705.358	704.410	688.884	687.082	705.264	712.647	720.954	742.763	720.954
147.5	742.131	733.414	730.595	722.978	718.368	735.743	742.728	751.479	768.819	751.479
150.0	767.777	758.324	758.300	751.830	749.479	758.932	771.720	779.548	790.019	779.548
152.5	791.166	786.954	785.327	780.261	778.951	781.326	791.657	805.861	813.910	805.861
155.0	814.554	811.453	804.609	807.499	806.118	807.288	814.484	823.235	835.193	823.235
157.5	830.875	833.005	829.425	831.776	830.665	832.490	835.731	843.008	857.668	843.008
160.0	850.847	852.977	852.088	854.814	853.316	854.568	856.744	864.700	877.629	864.700
162.5	872.738	871.978	871.182	873.545	872.563	874.704	876.260	884.134	895.670	884.134
165.0	889.691	889.691	889.024	891.517	891.142	891.751	893.307	899.005	912.635	899.005
167.5	907.241	905.568	903.556	906.820	905.615	907.031	906.937	913.091	924.651	913.091
170.0	920.708	919.515	916.508	919.655	918.310	919.175	919.246	924.733	934.339	924.733
172.5	931.800	929.144	926.652	929.495	929.120	930.501	927.716	933.707	943.055	933.707
175.0	940.633	937.369	934.210	937.708	935.193	936.281	934.409	940.153	947.337	940.153
177.5	945.781	941.990	937.849	940.762	940.235	940.247	939.089	943.324	951.151	943.324
180.0	942.833	942.833	942.833	942.833	942.833	942.833	942.833	942.833	942.833	942.833

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1212.892	1212.892	1212.892	1212.892	1212.892	1212.892	1212.892
2.5	1209.078	1212.038	1212.693	1212.635	1210.891	1211.980	1216.016
5.0	1207.054	1209.277	1210.330	1210.225	1207.615	1208.423	1212.377
7.5	1201.333	1204.035	1204.070	1203.544	1202.269	1202.854	1209.055
10.0	1195.295	1197.121	1197.436	1197.156	1195.342	1195.483	1203.883
12.5	1187.550	1189.012	1188.147	1188.369	1186.228	1187.948	1194.886
15.0	1177.207	1178.529	1177.441	1177.816	1175.710	1176.493	1185.865
17.5	1164.583	1166.502	1166.771	1165.332	1164.478	1164.735	1173.370
20.0	1150.777	1152.976	1152.508	1152.181	1149.431	1150.168	1159.283
22.5	1135.169	1134.666	1136.456	1136.175	1135.274	1133.484	1143.242
25.0	1116.355	1117.174	1118.461	1118.064	1116.192	1115.443	1125.353
27.5	1096.512	1095.799	1097.472	1097.437	1095.799	1095.249	1104.316
30.0	1075.066	1073.428	1072.750	1073.370	1073.756	1071.720	1081.501
32.5	1052.005	1047.583	1047.735	1047.712	1048.811	1048.589	1055.902
35.0	1024.861	1021.702	1019.281	1021.784	1024.300	1022.638	1029.588
37.5	998.501	991.259	990.194	992.792	995.576	995.553	1002.830
40.0	969.006	960.008	958.230	961.763	965.987	966.256	973.054
42.5	935.684	926.359	923.949	927.810	934.467	933.906	943.675
45.0	901.836	891.049	885.971	891.552	899.753	898.724	909.020
47.5	865.238	853.585	846.062	853.819	863.320	862.664	871.755
50.0	827.038	812.951	804.679	814.648	824.054	824.078	835.661
52.5	789.177	769.954	760.453	771.615	784.146	784.356	797.460
55.0	746.764	725.540	712.390	725.657	742.517	741.792	759.412
57.5	702.234	677.582	662.618	677.254	698.034	698.221	716.625
60.0	655.048	625.845	607.031	625.236	651.292	652.415	673.054
62.5	606.937	571.159	549.514	570.749	601.438	604.469	630.642
65.0	553.539	513.513	486.463	512.086	548.976	555.411	588.522
67.5	498.268	449.175	416.918	448.929	492.359	502.082	539.990
70.0	437.791	379.677	345.782	379.595	432.058	446.858	493.623
72.5	370.387	305.077	268.878	305.686	366.421	389.154	441.511
75.0	299.368	226.641	186.954	227.003	295.413	328.524	390.511
77.5	223.692	145.372	106.950	147.631	221.820	263.507	336.270
80.0	145.934	84.158	54.241	83.608	145.010	198.081	284.427

IES INDOOR REPORT
PHOTOMETRIC FILENAME : STSQ-LED35-HO-HO-D1-SYM.IES

CANDELA TABULATION - (Cont.)

82.5	84.240	42.705	21.516	44.296	95.320	152.720	231.016
85.0	59.962	27.167	8.716	28.665	63.355	107.897	173.803
87.5	51.351	20.253	3.264	21.937	54.499	77.173	115.432
90.0	77.641	50.345	32.152	50.755	75.968	86.463	40.938
92.5	93.974	64.923	46.121	66.386	92.383	100.994	50.111
95.0	123.037	84.415	62.864	82.239	111.407	118.696	94.630
97.5	149.514	111.887	88.534	113.233	140.739	147.794	124.242
100.0	175.769	136.855	114.122	138.902	167.216	173.546	149.350
102.5	200.702	163.554	140.962	165.672	194.934	199.450	178.495
105.0	227.214	191.248	167.228	189.868	221.071	225.588	205.674
107.5	252.357	218.065	196.162	216.099	249.748	251.550	236.047
110.0	280.273	247.350	225.073	245.536	278.401	281.479	267.158
112.5	307.300	276.916	255.703	275.032	304.153	309.032	297.484
115.0	338.235	309.032	286.439	305.838	330.888	332.420	323.809
117.5	369.743	340.540	318.100	336.855	361.483	359.962	357.025
120.0	401.790	372.622	351.421	368.901	393.167	392.476	387.094
122.5	433.532	405.101	385.843	401.053	426.804	421.352	419.000
125.0	460.921	439.815	417.280	435.427	459.822	454.603	454.802
127.5	496.174	472.692	451.199	469.065	488.007	484.626	484.988
130.0	532.479	506.282	486.264	503.053	517.561	519.632	516.005
132.5	556.967	536.539	521.106	536.106	548.590	548.941	549.338
135.0	596.758	566.046	556.042	565.297	581.443	577.723	583.105
137.5	629.624	605.276	588.978	592.418	614.051	611.266	617.620
140.0	658.148	641.956	621.434	624.534	640.575	645.711	643.266
142.5	685.959	673.253	654.627	656.779	672.130	678.307	678.202
145.0	712.647	705.264	687.082	688.884	704.410	705.358	710.167
147.5	742.728	735.743	718.368	722.978	730.595	733.414	742.131
150.0	771.720	758.932	749.479	751.830	758.300	758.324	767.777
152.5	791.657	781.326	778.951	780.261	785.327	786.954	791.166
155.0	814.484	807.288	806.118	807.499	804.609	811.453	814.554
157.5	835.731	832.490	830.665	831.776	829.425	833.005	830.875
160.0	856.744	854.568	853.316	854.814	852.088	852.977	850.847
162.5	876.260	874.704	872.563	873.545	871.182	871.978	872.738
165.0	893.307	891.751	891.142	891.517	889.024	889.691	889.691
167.5	906.937	907.031	905.615	906.820	903.556	905.568	907.241
170.0	919.246	919.175	918.310	919.655	916.508	919.515	920.708
172.5	927.716	930.501	929.120	929.495	926.652	929.144	931.800
175.0	934.409	936.281	935.193	937.708	934.210	937.369	940.633
177.5	939.089	940.247	940.235	940.762	937.849	941.990	945.781
180.0	942.833	942.833	942.833	942.833	942.833	942.833	942.833

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	448.11	N.A.	6.80
0-30	963.83	N.A.	14.70
0-40	1604.97	N.A.	24.50
0-60	2957.85	N.A.	45.10
0-80	3792.76	N.A.	57.80
0-90	3882.93	N.A.	59.20
10-90	3767.88	N.A.	57.50
20-40	1156.86	N.A.	17.60
20-50	1849.87	N.A.	28.20
40-70	1885.84	N.A.	28.80
60-80	834.91	N.A.	12.70
70-80	301.96	N.A.	4.60
80-90	90.17	N.A.	1.40
90-110	340.15	N.A.	5.20
90-120	663.06	N.A.	10.10
90-130	1068.2	N.A.	16.30
90-150	1959.58	N.A.	29.90
90-180	2674.75	N.A.	40.80
110-180	2334.6	N.A.	35.60
0-180	6557.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.05
10-20	333.06
20-30	515.72
30-40	641.14
40-50	693.01
50-60	659.88
60-70	532.95
70-80	301.96
80-90	90.17
90-100	116.44
100-110	223.71
110-120	322.91
120-130	405.13
130-140	449.37
140-150	442.01
150-160	374.43
160-170	251.80
170-180	88.95

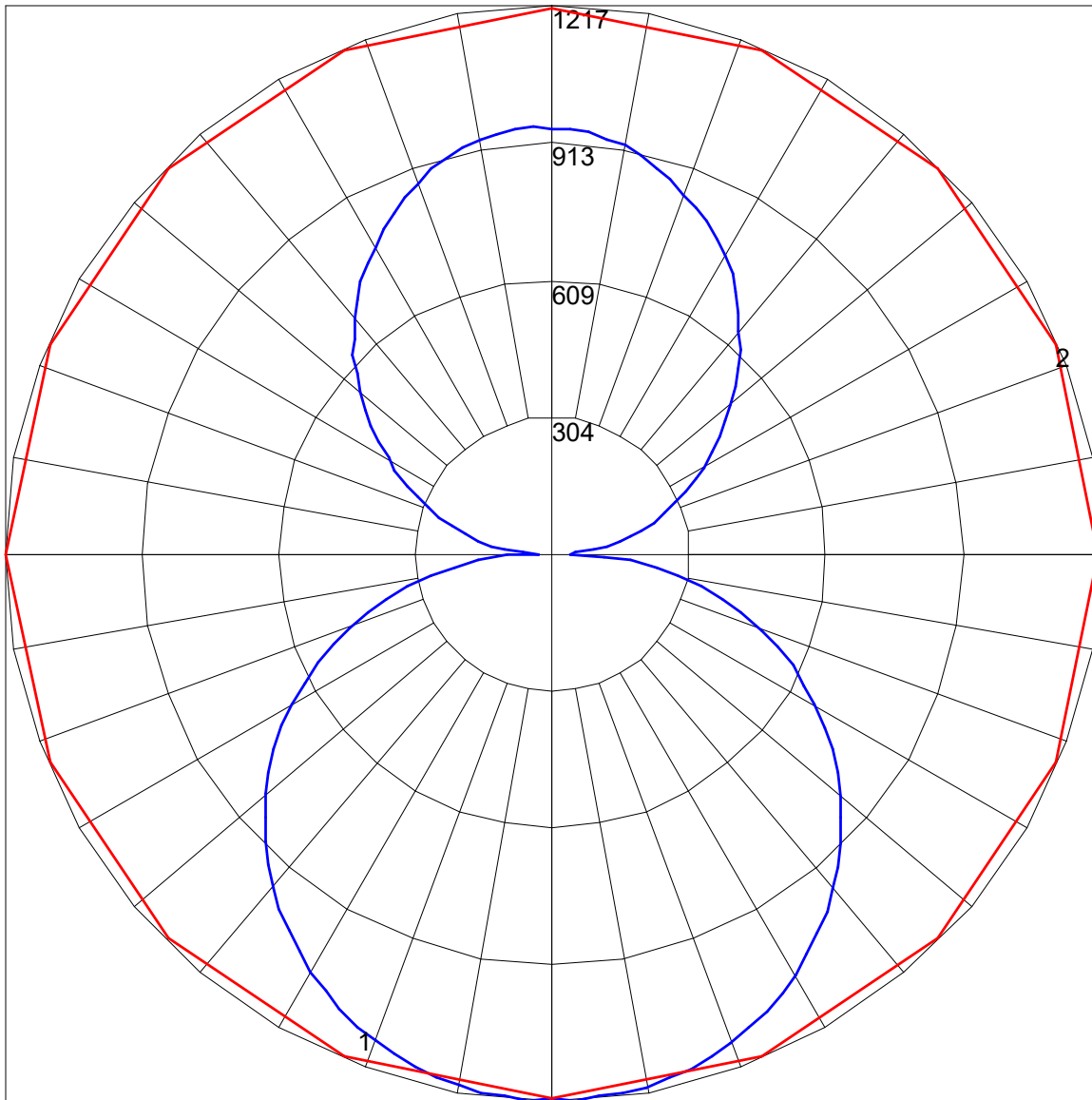
IES INDOOR REPORT
PHOTOMETRIC FILENAME : STSQ-LED35-HO-HO-D1-SYM.IES

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	99	95	91	87	93	89	85	82	77	74	72	66	64	62	56	55	54	49
2	90	82	76	70	84	77	71	66	67	62	59	58	54	51	49	47	44	40
3	82	72	64	58	76	67	60	55	59	53	49	50	46	43	43	40	37	33
4	75	63	55	49	69	59	52	46	52	46	41	45	40	36	38	35	32	28
5	68	56	48	41	64	53	45	39	46	40	35	40	35	31	34	30	27	24
6	63	50	42	36	58	47	40	34	41	35	31	36	31	27	31	27	24	21
7	58	45	37	31	54	43	35	30	37	31	27	33	28	24	28	24	21	18
8	54	41	33	28	50	39	31	26	34	28	24	30	25	21	26	22	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	24	20	17	15
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15	13

POLAR GRAPH



Maximum Candela = 1217.28 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)