



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] STSQ-LED35-LO-LO-D1-SYM  
 [TESTLAB] Intertek  
 [ISSUE DATE]  
 [MANUFAC] Prudential Ltg.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2690
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	23
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	5286	2992	2551
55	5290	2536	2055
65	5313	1990	1450
75	5233	1179	595
85	4799	291	31

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

**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>
<b>0.0</b>	497.597	497.597	497.597	497.597	497.597	497.597	497.597	497.597	497.597	497.597
<b>2.5</b>	498.878	497.222	496.776	497.491	497.515	497.246	496.032	497.275	499.397	497.275
<b>5.0</b>	497.386	495.763	495.432	496.502	496.546	496.114	495.202	496.070	497.558	496.070
<b>7.5</b>	496.022	493.478	493.238	493.762	493.978	493.963	492.854	494.650	495.514	494.650
<b>10.0</b>	493.901	490.454	490.397	491.141	491.256	491.126	490.378	492.029	492.989	492.029
<b>12.5</b>	490.210	487.363	486.658	487.536	487.445	487.800	487.200	488.827	489.528	488.827
<b>15.0</b>	486.509	482.664	482.342	483.206	483.053	483.499	482.957	483.994	484.920	483.994
<b>17.5</b>	481.382	477.840	477.734	478.085	478.675	478.565	477.778	479.669	479.050	479.669
<b>20.0</b>	475.603	471.864	471.562	472.690	472.824	473.016	472.114	473.760	473.808	473.760
<b>22.5</b>	469.022	465.019	465.754	466.123	466.238	465.504	465.710	467.011	466.848	467.011
<b>25.0</b>	461.683	457.618	457.925	458.693	458.856	458.328	457.992	460.152	458.914	460.152
<b>27.5</b>	453.053	449.333	449.558	450.230	450.245	449.558	449.851	452.194	450.557	452.194
<b>30.0</b>	443.693	439.680	440.515	440.357	440.102	440.381	441.053	443.208	441.518	443.208
<b>32.5</b>	433.190	430.190	430.282	429.830	429.840	429.778	431.592	433.728	431.088	433.728
<b>35.0</b>	422.395	419.544	420.226	419.194	418.166	419.160	420.456	422.822	420.163	422.822
<b>37.5</b>	411.418	408.432	408.442	407.299	406.234	406.670	409.642	412.061	409.507	412.061
<b>40.0</b>	399.202	396.413	396.302	394.570	393.120	393.850	397.541	399.960	397.435	399.960
<b>42.5</b>	387.149	383.141	383.371	380.640	379.056	380.045	383.870	387.106	384.058	387.106
<b>45.0</b>	372.931	368.707	369.130	365.765	363.475	365.558	369.984	373.728	371.069	373.728
<b>47.5</b>	357.643	353.914	354.182	350.285	347.102	350.189	354.970	359.352	356.424	359.352
<b>50.0</b>	342.835	338.083	338.074	334.214	330.125	333.518	339.298	344.606	341.698	344.606
<b>52.5</b>	327.163	321.787	321.701	316.560	311.981	315.878	323.765	328.963	326.294	328.963
<b>55.0</b>	311.554	304.325	304.622	297.706	292.262	297.658	306.365	311.837	309.931	311.837
<b>57.5</b>	294.000	286.450	286.373	277.848	271.843	277.982	288.096	294.946	292.397	294.946
<b>60.0</b>	276.125	267.658	267.197	256.507	249.038	256.757	268.738	275.966	274.219	275.966
<b>62.5</b>	258.725	247.987	246.744	234.154	225.442	234.322	249.000	257.208	255.763	257.208
<b>65.0</b>	241.445	227.861	225.221	210.086	199.574	210.672	227.093	237.451	236.381	237.451
<b>67.5</b>	221.534	205.982	201.994	184.176	171.043	184.277	204.418	215.160	217.214	215.160
<b>70.0</b>	202.512	183.326	177.254	155.731	141.859	155.765	179.606	193.277	197.587	193.277
<b>72.5</b>	181.133	159.653	150.326	125.410	110.309	125.160	151.954	168.763	177.254	168.763
<b>75.0</b>	160.210	134.779	121.195	93.130	76.699	92.981	122.818	142.747	156.120	142.747
<b>77.5</b>	137.957	108.106	91.003	60.566	43.877	59.640	91.771	115.219	134.789	115.219
<b>80.0</b>	116.688	81.264	59.491	34.301	22.253	34.526	59.870	87.658	113.078	87.658
<b>82.5</b>	94.776	62.654	39.106	18.173	8.827	17.520	34.560	60.869	90.600	60.869
<b>85.0</b>	71.304	44.266	25.992	11.760	3.576	11.146	24.600	38.933	67.930	38.933
<b>87.5</b>	47.357	31.661	22.358	9.000	1.339	8.309	21.067	32.021	42.586	32.021
<b>90.0</b>	16.795	35.472	31.166	20.822	13.190	20.654	31.853	40.781	12.830	40.781
<b>92.5</b>	20.558	41.434	37.901	27.235	18.922	26.635	38.554	49.738	27.643	49.738
<b>95.0</b>	38.822	48.696	45.706	33.739	25.790	34.632	50.477	61.440	43.987	61.440
<b>97.5</b>	50.971	60.634	57.739	46.454	36.322	45.902	61.339	70.675	56.362	70.675
<b>100.0</b>	61.272	71.198	68.602	56.986	46.819	56.146	72.110	81.307	68.755	81.307
<b>102.5</b>	73.229	81.826	79.973	67.968	57.830	67.099	82.339	91.325	82.051	91.325
<b>105.0</b>	84.379	92.549	90.696	77.894	68.606	78.461	93.216	102.197	95.760	102.197
<b>107.5</b>	96.840	103.200	102.461	88.656	80.477	89.462	103.531	113.035	109.003	113.035
<b>110.0</b>	109.603	115.478	114.216	100.733	92.338	101.477	114.984	123.221	121.022	123.221
<b>112.5</b>	122.045	126.782	124.781	112.834	104.904	113.606	126.072	134.386	133.147	134.386
<b>115.0</b>	132.845	136.378	135.749	125.472	117.514	126.782	138.763	145.699	145.574	145.699
<b>117.5</b>	146.472	147.677	148.301	138.197	130.502	139.709	151.690	158.573	162.250	158.573
<b>120.0</b>	158.808	161.016	161.299	151.344	144.173	152.870	164.837	171.038	173.827	171.038
<b>122.5</b>	171.898	172.862	175.099	164.534	158.294	166.195	177.859	184.656	188.270	184.656
<b>125.0</b>	186.586	186.504	188.645	178.637	171.192	180.437	189.096	196.915	203.098	196.915
<b>127.5</b>	198.970	198.821	200.208	192.437	185.107	193.925	203.558	210.840	215.501	210.840
<b>130.0</b>	211.694	213.182	212.333	206.381	199.493	207.706	218.453	222.499	229.056	222.499
<b>132.5</b>	225.370	225.206	225.062	219.941	213.787	220.118	228.499	236.270	242.890	236.270

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**PHOTOMETRIC FILENAME : STSQ-LED35-LO-LO-D1-SYM.IES**

**CANDELA TABULATION - (Cont.)**

135.0	239.222	237.014	238.541	231.917	228.120	232.224	244.824	249.206	257.266	249.206
137.5	253.382	250.776	251.918	243.043	241.632	248.318	258.307	263.126	267.029	263.126
140.0	263.904	264.907	262.800	256.219	254.947	263.366	270.010	275.885	280.109	275.885
142.5	278.237	278.280	275.746	269.448	268.565	276.206	281.419	284.002	293.539	284.002
145.0	291.350	289.378	288.989	282.619	281.880	289.339	292.368	295.776	304.723	295.776
147.5	304.464	300.888	299.731	296.606	294.715	301.843	304.709	308.299	315.413	308.299
150.0	314.986	311.107	311.098	308.443	307.478	311.357	316.603	319.814	324.110	319.814
152.5	324.581	322.853	322.186	320.107	319.570	320.544	324.782	330.610	333.912	330.610
155.0	334.176	332.904	330.096	331.282	330.715	331.195	334.147	337.738	342.643	337.738
157.5	340.872	341.746	340.277	341.242	340.786	341.534	342.864	345.850	351.864	345.850
160.0	349.066	349.939	349.574	350.693	350.078	350.592	351.485	354.749	360.053	354.749
162.5	358.046	357.734	357.408	358.378	357.974	358.853	359.491	362.722	367.454	362.722
165.0	365.002	365.002	364.728	365.750	365.597	365.846	366.485	368.822	374.414	368.822
167.5	372.202	371.515	370.690	372.029	371.534	372.115	372.077	374.602	379.344	374.602
170.0	377.726	377.237	376.003	377.294	376.742	377.098	377.126	379.378	383.318	379.378
172.5	382.277	381.187	380.165	381.331	381.178	381.744	380.602	383.059	386.894	383.059
175.0	385.901	384.562	383.266	384.701	383.669	384.115	383.347	385.704	388.651	385.704
177.5	388.013	386.458	384.758	385.954	385.738	385.742	385.267	387.005	390.216	387.005
180.0	386.803	386.803	386.803	386.803	386.803	386.803	386.803	386.803	386.803	386.803

**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	497.597	497.597	497.597	497.597	497.597	497.597	497.597
2.5	496.032	497.246	497.515	497.491	496.776	497.222	498.878
5.0	495.202	496.114	496.546	496.502	495.432	495.763	497.386
7.5	492.854	493.963	493.978	493.762	493.238	493.478	496.022
10.0	490.378	491.126	491.256	491.141	490.397	490.454	493.901
12.5	487.200	487.800	487.445	487.536	486.658	487.363	490.210
15.0	482.957	483.499	483.053	483.206	482.342	482.664	486.509
17.5	477.778	478.565	478.675	478.085	477.734	477.840	481.382
20.0	472.114	473.016	472.824	472.690	471.562	471.864	475.603
22.5	465.710	465.504	466.238	466.123	465.754	465.019	469.022
25.0	457.992	458.328	458.856	458.693	457.925	457.618	461.683
27.5	449.851	449.558	450.245	450.230	449.558	449.333	453.053
30.0	441.053	440.381	440.102	440.357	440.515	439.680	443.693
32.5	431.592	429.778	429.840	429.830	430.282	430.190	433.190
35.0	420.456	419.160	418.166	419.194	420.226	419.544	422.395
37.5	409.642	406.670	406.234	407.299	408.442	408.432	411.418
40.0	397.541	393.850	393.120	394.570	396.302	396.413	399.202
42.5	383.870	380.045	379.056	380.640	383.371	383.141	387.149
45.0	369.984	365.558	363.475	365.765	369.130	368.707	372.931
47.5	354.970	350.189	347.102	350.285	354.182	353.914	357.643
50.0	339.298	333.518	330.125	334.214	338.074	338.083	342.835
52.5	323.765	315.878	311.981	316.560	321.701	321.787	327.163
55.0	306.365	297.658	292.262	297.706	304.622	304.325	311.554
57.5	288.096	277.982	271.843	277.848	286.373	286.450	294.000
60.0	268.738	256.757	249.038	256.507	267.197	267.658	276.125
62.5	249.000	234.322	225.442	234.154	246.744	247.987	258.725
65.0	227.093	210.672	199.574	210.086	225.221	227.861	241.445
67.5	204.418	184.277	171.043	184.176	201.994	205.982	221.534
70.0	179.606	155.765	141.859	155.731	177.254	183.326	202.512
72.5	151.954	125.160	110.309	125.410	150.326	159.653	181.133
75.0	122.818	92.981	76.699	93.130	121.195	134.779	160.210
77.5	91.771	59.640	43.877	60.566	91.003	108.106	137.957
80.0	59.870	34.526	22.253	34.301	59.491	81.264	116.688

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**PHOTOMETRIC FILENAME : STSQ-LED35-LO-LO-D1-SYM.IES**

**CANDELA TABULATION - (Cont.)**

82.5	34.560	17.520	8.827	18.173	39.106	62.654	94.776
85.0	24.600	11.146	3.576	11.760	25.992	44.266	71.304
87.5	21.067	8.309	1.339	9.000	22.358	31.661	47.357
90.0	31.853	20.654	13.190	20.822	31.166	35.472	16.795
92.5	38.554	26.635	18.922	27.235	37.901	41.434	20.558
95.0	50.477	34.632	25.790	33.739	45.706	48.696	38.822
97.5	61.339	45.902	36.322	46.454	57.739	60.634	50.971
100.0	72.110	56.146	46.819	56.986	68.602	71.198	61.272
102.5	82.339	67.099	57.830	67.968	79.973	81.826	73.229
105.0	93.216	78.461	68.606	77.894	90.696	92.549	84.379
107.5	103.531	89.462	80.477	88.656	102.461	103.200	96.840
110.0	114.984	101.477	92.338	100.733	114.216	115.478	109.603
112.5	126.072	113.606	104.904	112.834	124.781	126.782	122.045
115.0	138.763	126.782	117.514	125.472	135.749	136.378	132.845
117.5	151.690	139.709	130.502	138.197	148.301	147.677	146.472
120.0	164.837	152.870	144.173	151.344	161.299	161.016	158.808
122.5	177.859	166.195	158.294	164.534	175.099	172.862	171.898
125.0	189.096	180.437	171.192	178.637	188.645	186.504	186.586
127.5	203.558	193.925	185.107	192.437	200.208	198.821	198.970
130.0	218.453	207.706	199.493	206.381	212.333	213.182	211.694
132.5	228.499	220.118	213.787	219.941	225.062	225.206	225.370
135.0	244.824	232.224	228.120	231.917	238.541	237.014	239.222
137.5	258.307	248.318	241.632	243.043	251.918	250.776	253.382
140.0	270.010	263.366	254.947	256.219	262.800	264.907	263.904
142.5	281.419	276.206	268.565	269.448	275.746	278.280	278.237
145.0	292.368	289.339	281.880	282.619	288.989	289.378	291.350
147.5	304.709	301.843	294.715	296.606	299.731	300.888	304.464
150.0	316.603	311.357	307.478	308.443	311.098	311.107	314.986
152.5	324.782	320.544	319.570	320.107	322.186	322.853	324.581
155.0	334.147	331.195	330.715	331.282	330.096	332.904	334.176
157.5	342.864	341.534	340.786	341.242	340.277	341.746	340.872
160.0	351.485	350.592	350.078	350.693	349.574	349.939	349.066
162.5	359.491	358.853	357.974	358.378	357.408	357.734	358.046
165.0	366.485	365.846	365.597	365.750	364.728	365.002	365.002
167.5	372.077	372.115	371.534	372.029	370.690	371.515	372.202
170.0	377.126	377.098	376.742	377.294	376.003	377.237	377.726
172.5	380.602	381.744	381.178	381.331	380.165	381.187	382.277
175.0	383.347	384.115	383.669	384.701	383.266	384.562	385.901
177.5	385.267	385.742	385.738	385.954	384.758	386.458	388.013
180.0	386.803	386.803	386.803	386.803	386.803	386.803	386.803

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	183.84	N.A.	6.80
0-30	395.42	N.A.	14.70
0-40	658.45	N.A.	24.50
0-60	1213.48	N.A.	45.10
0-80	1556.00	N.A.	57.80
0-90	1593.00	N.A.	59.20
10-90	1545.8	N.A.	57.50
20-40	474.61	N.A.	17.60
20-50	758.92	N.A.	28.20
40-70	773.68	N.A.	28.80
60-80	342.53	N.A.	12.70
70-80	123.88	N.A.	4.60
80-90	36.99	N.A.	1.40
90-110	139.55	N.A.	5.20
90-120	272.03	N.A.	10.10
90-130	438.23	N.A.	16.30
90-150	803.93	N.A.	29.90
90-180	1097.33	N.A.	40.80
110-180	957.78	N.A.	35.60
0-180	2690.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.20
10-20	136.64
20-30	211.58
30-40	263.03
40-50	284.31
50-60	270.72
60-70	218.65
70-80	123.88
80-90	36.99
90-100	47.77
100-110	91.78
110-120	132.48
120-130	166.21
130-140	184.36
140-150	181.34
150-160	153.61
160-170	103.30
170-180	36.49

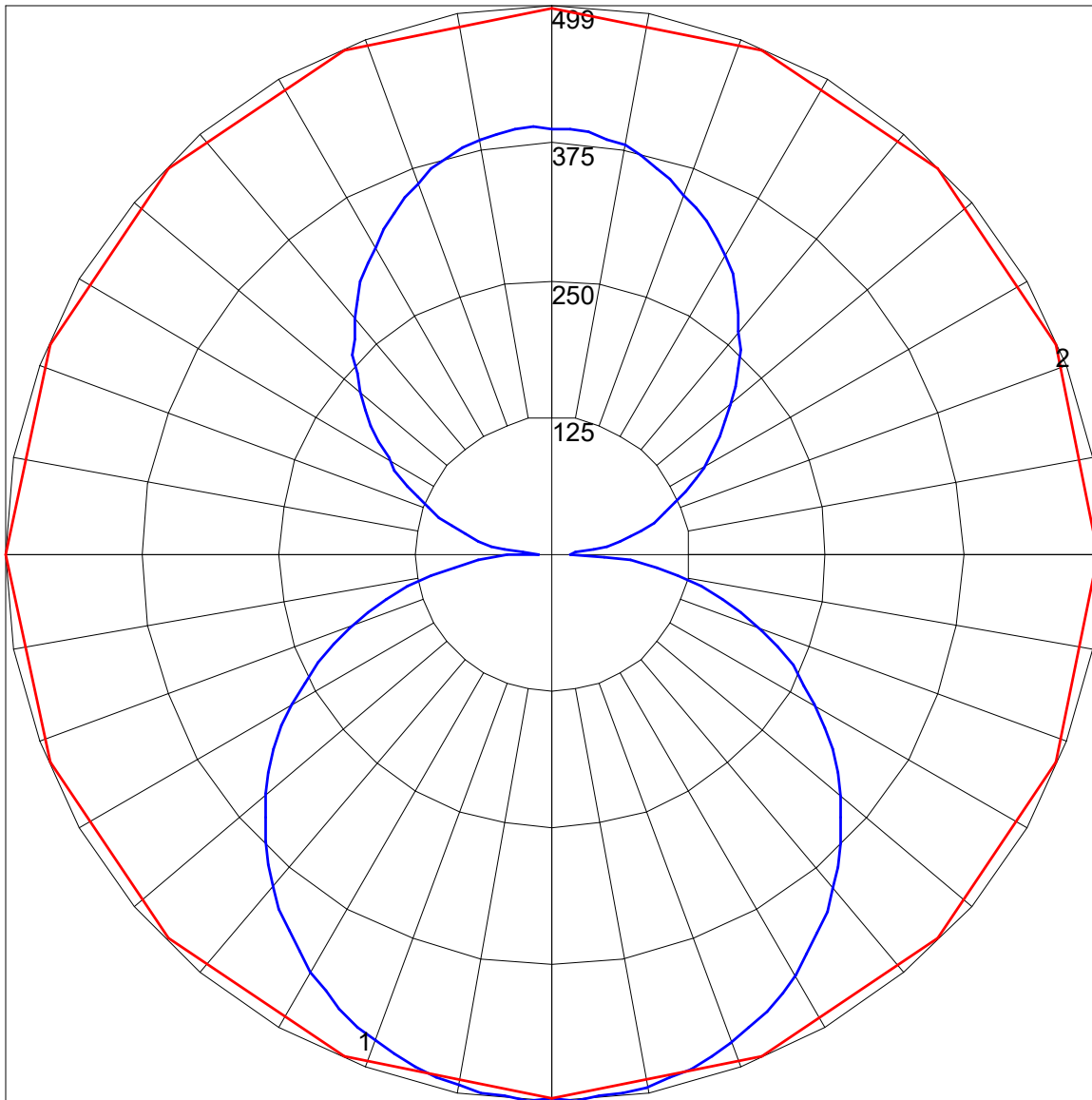
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 499.397 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.)