



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3923
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	34
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	7709	4363	3721
55	7715	3699	2997
65	7748	2902	2115
75	7631	1719	868
85	6998	424	45

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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	725.662	725.662	725.662	725.662	725.662	725.662	725.662	725.662	725.662	725.662
2.5	727.531	725.116	724.465	725.508	725.543	725.151	723.380	725.193	728.287	725.193
5.0	725.354	722.988	722.505	724.066	724.129	723.499	722.169	723.436	725.606	723.436
7.5	723.366	719.656	719.306	720.069	720.384	720.363	718.746	721.364	722.624	721.364
10.0	720.272	715.246	715.162	716.247	716.415	716.226	715.134	717.542	718.942	717.542
12.5	714.889	710.738	709.709	710.990	710.857	711.375	710.500	712.873	713.895	712.873
15.0	709.492	703.885	703.416	704.676	704.452	705.103	704.312	705.824	707.175	705.824
17.5	702.016	696.850	696.696	697.207	698.068	697.907	696.759	699.517	698.614	699.517
20.0	693.588	688.135	687.694	689.339	689.535	689.815	688.499	690.900	690.970	690.900
22.5	683.991	678.153	679.224	679.763	679.931	678.860	679.161	681.058	680.820	681.058
25.0	673.288	667.359	667.807	668.927	669.165	668.395	667.905	671.055	669.249	671.055
27.5	660.702	655.277	655.606	656.586	656.607	655.606	656.033	659.449	657.062	659.449
30.0	647.052	641.200	642.418	642.187	641.816	642.222	643.202	646.345	643.881	646.345
32.5	631.736	627.361	627.494	626.836	626.850	626.759	629.405	632.520	628.670	632.520
35.0	615.993	611.835	612.829	611.324	609.826	611.275	613.165	616.616	612.738	616.616
37.5	599.984	595.630	595.644	593.978	592.424	593.061	597.394	600.922	597.198	600.922
40.0	582.169	578.102	577.941	575.414	573.300	574.364	579.747	583.275	579.593	583.275
42.5	564.592	558.747	559.083	555.100	552.790	554.232	559.811	564.529	560.084	564.529
45.0	543.858	537.698	538.314	533.407	530.068	533.106	539.560	545.020	541.142	545.020
47.5	521.563	516.124	516.516	510.832	506.191	510.692	517.664	524.055	519.785	524.055
50.0	499.968	493.038	493.024	487.396	481.432	486.381	494.809	502.551	498.309	502.551
52.5	477.113	469.273	469.147	461.650	454.972	460.656	472.157	479.738	475.846	479.738
55.0	454.349	443.807	444.241	434.154	426.216	434.084	446.782	454.762	451.983	454.762
57.5	428.750	417.739	417.627	405.195	396.438	405.391	420.140	430.129	426.412	430.129
60.0	402.682	390.334	389.662	374.073	363.181	374.437	391.909	402.451	399.903	402.451
62.5	377.307	361.648	359.835	341.474	328.769	341.719	363.125	375.095	372.988	375.095
65.0	352.107	332.297	328.447	306.376	291.046	307.230	331.177	346.283	344.722	346.283
67.5	323.071	300.391	294.574	268.590	249.438	268.737	298.109	313.775	316.771	313.775
70.0	295.330	267.351	258.496	227.108	206.878	227.157	261.926	281.862	288.148	281.862
72.5	264.152	232.827	219.226	182.889	160.867	182.525	221.599	246.113	258.496	246.113
75.0	233.639	196.553	176.743	135.814	111.853	135.597	179.109	208.173	227.675	208.173
77.5	201.187	157.654	132.713	88.326	63.987	86.975	133.833	168.028	196.567	168.028
80.0	170.170	118.510	86.758	50.022	32.452	50.351	87.311	127.834	164.906	127.834
82.5	138.215	91.371	57.029	26.502	12.873	25.550	50.400	88.767	132.125	88.767
85.0	103.985	64.554	37.905	17.150	5.215	16.254	35.875	56.777	99.064	56.777
87.5	69.062	46.172	32.606	13.125	1.953	12.117	30.723	46.697	62.104	46.697
90.0	24.493	51.730	45.451	30.366	19.236	30.121	46.452	59.472	18.711	59.472
92.5	29.981	60.424	55.272	39.718	27.594	38.843	56.224	72.534	40.313	72.534
95.0	56.616	71.015	66.654	49.203	37.611	50.505	73.612	89.600	64.148	89.600
97.5	74.333	88.424	84.203	67.746	52.969	66.941	89.453	103.068	82.194	103.068
100.0	89.355	103.831	100.044	83.104	68.278	81.879	105.161	118.573	100.268	118.573
102.5	106.792	119.329	116.627	99.120	84.336	97.853	120.078	133.182	119.658	133.182
105.0	123.053	134.967	132.265	113.596	100.051	114.422	135.940	149.037	139.650	149.037
107.5	141.225	150.500	149.422	129.290	117.362	130.466	150.983	164.843	158.963	164.843
110.0	159.838	168.406	166.565	146.902	134.659	147.987	167.685	179.697	176.491	179.697
112.5	177.982	184.891	181.972	164.549	152.985	165.676	183.855	195.979	194.173	195.979
115.0	193.732	198.884	197.967	182.980	171.374	184.891	202.363	212.478	212.296	212.478
117.5	213.605	215.362	216.272	201.537	190.316	203.742	221.214	231.252	236.614	231.252
120.0	231.595	234.815	235.228	220.710	210.252	222.936	240.387	249.431	253.498	249.431
122.5	250.684	252.091	255.353	239.946	230.846	242.368	259.378	269.290	274.561	269.290
125.0	272.104	271.985	275.107	260.512	249.655	263.137	275.765	287.168	296.184	287.168
127.5	290.164	289.947	291.970	280.637	269.948	282.807	296.856	307.475	314.272	307.475
130.0	308.721	310.891	309.652	300.972	290.927	302.904	318.577	324.478	334.040	324.478
132.5	328.664	328.426	328.216	320.747	311.773	321.006	333.228	344.561	354.214	344.561

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CANDELA TABULATION - (Cont.)

135.0	348.866	345.646	347.872	338.212	332.675	338.660	357.035	363.426	375.179	363.426
137.5	369.516	365.715	367.381	354.438	352.380	362.131	376.698	383.726	389.417	383.726
140.0	384.860	386.323	383.250	373.653	371.798	384.076	393.764	402.332	408.492	402.332
142.5	405.762	405.825	402.129	392.945	391.657	402.801	410.403	414.169	428.078	414.169
145.0	424.886	422.009	421.442	412.153	411.075	421.953	426.370	431.340	444.388	431.340
147.5	444.010	438.795	437.108	432.551	429.793	440.188	444.367	449.603	459.977	449.603
150.0	459.354	453.698	453.684	449.813	448.406	454.062	461.713	466.396	472.661	466.396
152.5	473.347	470.827	469.854	466.823	466.039	467.460	473.641	482.139	486.955	482.139
155.0	487.340	485.485	481.390	483.119	482.293	482.993	487.298	492.534	499.688	492.534
157.5	497.105	498.379	496.237	497.644	496.979	498.071	500.010	504.364	513.135	504.364
160.0	509.054	510.328	509.796	511.427	510.531	511.280	512.582	517.342	525.077	517.342
162.5	522.151	521.696	521.220	522.634	522.046	523.327	524.258	528.969	535.871	528.969
165.0	532.294	532.294	531.895	533.386	533.162	533.526	534.457	537.866	546.021	537.866
167.5	542.794	541.793	540.589	542.542	541.821	542.668	542.612	546.294	553.210	546.294
170.0	550.851	550.137	548.338	550.221	549.416	549.934	549.976	553.259	559.006	553.259
172.5	557.487	555.898	554.407	556.108	555.884	556.710	555.044	558.628	564.221	558.628
175.0	562.772	560.819	558.929	561.022	559.517	560.168	559.048	562.485	566.783	562.485
177.5	565.852	563.584	561.106	562.849	562.534	562.541	561.848	564.382	569.065	564.382
180.0	564.088	564.088	564.088	564.088	564.088	564.088	564.088	564.088	564.088	564.088

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	725.662	725.662	725.662	725.662	725.662	725.662	725.662
2.5	723.380	725.151	725.543	725.508	724.465	725.116	727.531
5.0	722.169	723.499	724.129	724.066	722.505	722.988	725.354
7.5	718.746	720.363	720.384	720.069	719.306	719.656	723.366
10.0	715.134	716.226	716.415	716.247	715.162	715.246	720.272
12.5	710.500	711.375	710.857	710.990	709.709	710.738	714.889
15.0	704.312	705.103	704.452	704.676	703.416	703.885	709.492
17.5	696.759	697.907	698.068	697.207	696.696	696.850	702.016
20.0	688.499	689.815	689.535	689.339	687.694	688.135	693.588
22.5	679.161	678.860	679.931	679.763	679.224	678.153	683.991
25.0	667.905	668.395	669.165	668.927	667.807	667.359	673.288
27.5	656.033	655.606	656.607	656.586	655.606	655.277	660.702
30.0	643.202	642.222	641.816	642.187	642.418	641.200	647.052
32.5	629.405	626.759	626.850	626.836	627.494	627.361	631.736
35.0	613.165	611.275	609.826	611.324	612.829	611.835	615.993
37.5	597.394	593.061	592.424	593.978	595.644	595.630	599.984
40.0	579.747	574.364	573.300	575.414	577.941	578.102	582.169
42.5	559.811	554.232	552.790	555.100	559.083	558.747	564.592
45.0	539.560	533.106	530.068	533.407	538.314	537.698	543.858
47.5	517.664	510.692	506.191	510.832	516.516	516.124	521.563
50.0	494.809	486.381	481.432	487.396	493.024	493.038	499.968
52.5	472.157	460.656	454.972	461.650	469.147	469.273	477.113
55.0	446.782	434.084	426.216	434.154	444.241	443.807	454.349
57.5	420.140	405.391	396.438	405.195	417.627	417.739	428.750
60.0	391.909	374.437	363.181	374.073	389.662	390.334	402.682
62.5	363.125	341.719	328.769	341.474	359.835	361.648	377.307
65.0	331.177	307.230	291.046	306.376	328.447	332.297	352.107
67.5	298.109	268.737	249.438	268.590	294.574	300.391	323.071
70.0	261.926	227.157	206.878	227.108	258.496	267.351	295.330
72.5	221.599	182.525	160.867	182.889	219.226	232.827	264.152
75.0	179.109	135.597	111.853	135.814	176.743	196.553	233.639
77.5	133.833	86.975	63.987	88.326	132.713	157.654	201.187
80.0	87.311	50.351	32.452	50.022	86.758	118.510	170.170

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CANDELA TABULATION - (Cont.)

82.5	50.400	25.550	12.873	26.502	57.029	91.371	138.215
85.0	35.875	16.254	5.215	17.150	37.905	64.554	103.985
87.5	30.723	12.117	1.953	13.125	32.606	46.172	69.062
90.0	46.452	30.121	19.236	30.366	45.451	51.730	24.493
92.5	56.224	38.843	27.594	39.718	55.272	60.424	29.981
95.0	73.612	50.505	37.611	49.203	66.654	71.015	56.616
97.5	89.453	66.941	52.969	67.746	84.203	88.424	74.333
100.0	105.161	81.879	68.278	83.104	100.044	103.831	89.355
102.5	120.078	97.853	84.336	99.120	116.627	119.329	106.792
105.0	135.940	114.422	100.051	113.596	132.265	134.967	123.053
107.5	150.983	130.466	117.362	129.290	149.422	150.500	141.225
110.0	167.685	147.987	134.659	146.902	166.565	168.406	159.838
112.5	183.855	165.676	152.985	164.549	181.972	184.891	177.982
115.0	202.363	184.891	171.374	182.980	197.967	198.884	193.732
117.5	221.214	203.742	190.316	201.537	216.272	215.362	213.605
120.0	240.387	222.936	210.252	220.710	235.228	234.815	231.595
122.5	259.378	242.368	230.846	239.946	255.353	252.091	250.684
125.0	275.765	263.137	249.655	260.512	275.107	271.985	272.104
127.5	296.856	282.807	269.948	280.637	291.970	289.947	290.164
130.0	318.577	302.904	290.927	300.972	309.652	310.891	308.721
132.5	333.228	321.006	311.773	320.747	328.216	328.426	328.664
135.0	357.035	338.660	332.675	338.212	347.872	345.646	348.866
137.5	376.698	362.131	352.380	354.438	367.381	365.715	369.516
140.0	393.764	384.076	371.798	373.653	383.250	386.323	384.860
142.5	410.403	402.801	391.657	392.945	402.129	405.825	405.762
145.0	426.370	421.953	411.075	412.153	421.442	422.009	424.886
147.5	444.367	440.188	429.793	432.551	437.108	438.795	444.010
150.0	461.713	454.062	448.406	449.813	453.684	453.698	459.354
152.5	473.641	467.460	466.039	466.823	469.854	470.827	473.347
155.0	487.298	482.993	482.293	483.119	481.390	485.485	487.340
157.5	500.010	498.071	496.979	497.644	496.237	498.379	497.105
160.0	512.582	511.280	510.531	511.427	509.796	510.328	509.054
162.5	524.258	523.327	522.046	522.634	521.220	521.696	522.151
165.0	534.457	533.526	533.162	533.386	531.895	532.294	532.294
167.5	542.612	542.668	541.821	542.542	540.589	541.793	542.794
170.0	549.976	549.934	549.416	550.221	548.338	550.137	550.851
172.5	555.044	556.710	555.884	556.108	554.407	555.898	557.487
175.0	559.048	560.168	559.517	561.022	558.929	560.819	562.772
177.5	561.848	562.541	562.534	562.849	561.106	563.584	565.852
180.0	564.088	564.088	564.088	564.088	564.088	564.088	564.088

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	268.10	N.A.	6.80
0-30	576.65	N.A.	14.70
0-40	960.24	N.A.	24.50
0-60	1769.65	N.A.	45.10
0-80	2269.17	N.A.	57.80
0-90	2323.12	N.A.	59.20
10-90	2254.29	N.A.	57.50
20-40	692.14	N.A.	17.60
20-50	1106.76	N.A.	28.20
40-70	1128.28	N.A.	28.80
60-80	499.52	N.A.	12.70
70-80	180.66	N.A.	4.60
80-90	53.95	N.A.	1.40
90-110	203.51	N.A.	5.20
90-120	396.70	N.A.	10.10
90-130	639.09	N.A.	16.30
90-150	1172.4	N.A.	29.90
90-180	1600.28	N.A.	40.80
110-180	1396.77	N.A.	35.60
0-180	3923.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.83
10-20	199.27
20-30	308.55
30-40	383.59
40-50	414.62
50-60	394.80
60-70	318.86
70-80	180.66
80-90	53.95
90-100	69.66
100-110	133.84
110-120	193.20
120-130	242.39
130-140	268.85
140-150	264.45
150-160	224.02
160-170	150.65
170-180	53.22

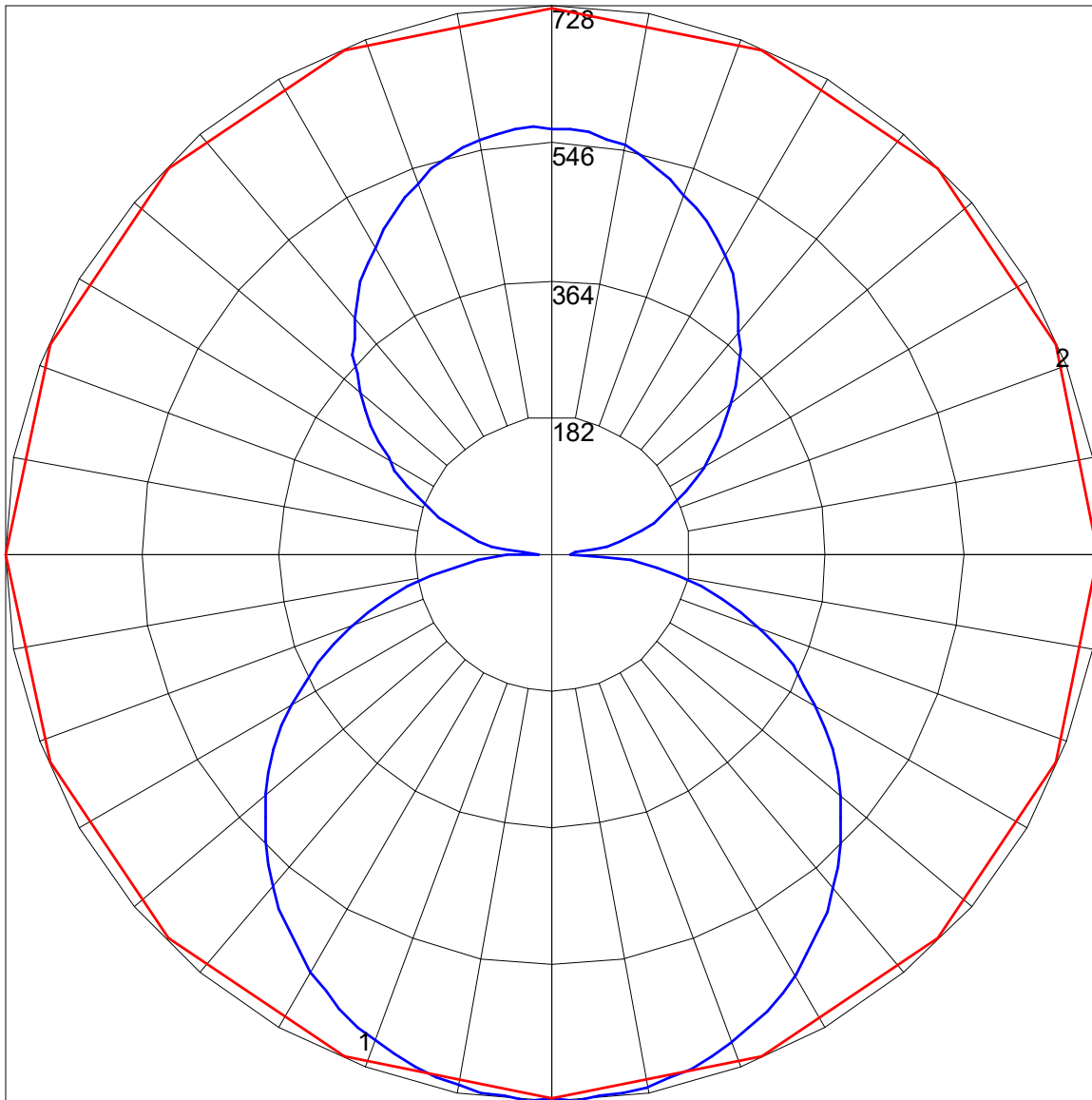
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 728.287 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.)