



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L021507504R02  
 [TESTLAB]  
 [ISSUE DATE]  
 [MANUFAC] PRUDENTIAL LTG.  
 [LUMCAT] STSQ-LED35-SO-CW  
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE  
 [MORE] LEDS WITH OPTICS  
 [BALLASTCAT] OSRAM OPTOTRONIC  
 [BALLAST] INPUT: 120-277VAC  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1860
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	17.3
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.94 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	89.573	92.939	101.112	118.041	143.341	179.322	215.974	226.270	193.424	132.088
<b>100</b>	529.859	541.288	555.962	575.729	582.835	552.332	467.159	350.515	234.278	135.311
<b>105</b>	641.993	639.034	621.797	593.329	543.422	473.704	392.810	312.829	235.862	161.711
<b>110</b>	633.358	628.045	610.335	578.094	528.583	466.290	395.692	324.115	258.610	199.683
<b>115</b>	604.648	598.598	583.704	552.200	510.884	460.427	401.720	342.254	286.352	239.349
<b>120</b>	586.718	582.076	567.116	542.124	506.506	463.111	414.480	363.957	315.557	274.351
<b>125</b>	576.741	572.880	558.415	536.855	507.562	470.800	429.143	384.703	343.244	305.789
<b>130</b>	564.773	561.330	549.549	528.792	503.371	473.066	436.337	399.124	363.319	331.738
<b>135</b>	544.082	540.375	530.409	512.589	491.205	464.915	434.423	403.546	374.429	349.316
<b>140</b>	512.347	507.991	498.311	484.979	468.578	447.799	423.995	401.544	379.423	360.195
<b>145</b>	474.221	471.273	464.057	454.344	442.442	427.625	411.939	396.000	380.039	365.123
<b>150</b>	441.023	438.724	434.247	428.428	421.410	411.840	401.390	390.049	378.730	366.377
<b>155</b>	417.967	417.197	414.139	409.937	405.372	399.432	392.150	383.801	375.342	365.805
<b>160</b>	399.608	400.433	397.727	395.296	392.271	388.190	382.899	377.234	371.250	364.628
<b>165</b>	384.560	384.472	382.954	381.381	379.302	376.926	373.747	370.337	366.839	363.231
<b>170</b>	372.691	372.240	370.612	370.425	369.512	368.654	367.477	365.849	364.562	363.077
<b>175</b>	366.003	364.793	365.222	364.562	364.331	364.386	364.683	364.342	364.122	363.737
<b>180</b>	363.000	363.000	363.000	363.000	363.000	363.000	363.000	363.000	363.000	363.000

**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>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	78.320	49.269	35.783	29.865	27.577	27.302	25.201	18.898	15.686
<b>100</b>	100.430	74.998	65.428	61.765	58.773	53.504	46.618	38.929	35.057
<b>105</b>	131.648	107.712	96.294	90.442	85.745	79.299	70.180	61.721	58.124
<b>110</b>	162.899	143.638	131.263	124.256	117.260	107.184	95.876	87.230	83.798
<b>115</b>	202.708	182.204	171.204	161.095	149.380	135.641	123.266	114.741	111.639
<b>120</b>	242.979	222.101	205.722	191.587	178.233	163.229	150.535	142.351	139.458
<b>125</b>	277.156	256.289	239.327	223.113	204.314	189.112	178.321	170.588	168.091
<b>130</b>	306.548	286.231	268.510	250.866	233.387	216.458	204.996	198.968	196.779
<b>135</b>	328.042	309.375	291.863	273.801	256.663	242.187	231.110	224.686	222.838
<b>140</b>	342.221	325.116	308.528	291.280	275.803	262.702	253.264	247.753	246.191
<b>145</b>	349.712	334.983	319.803	305.041	291.973	281.424	273.790	269.621	268.455
<b>150</b>	353.892	341.352	328.823	316.943	307.032	298.991	293.744	290.697	289.839
<b>155</b>	355.883	346.720	337.062	328.878	321.992	315.986	312.378	310.750	310.178
<b>160</b>	357.841	351.813	345.587	340.098	335.500	331.199	329.494	328.372	328.328
<b>165</b>	359.711	355.861	352.880	349.767	346.885	344.608	343.706	342.848	342.452
<b>170</b>	360.954	359.931	358.622	356.939	355.531	353.859	353.969	353.628	353.782
<b>175</b>	363.011	362.780	361.955	361.394	360.954	359.623	359.865	360.052	359.788
<b>180</b>	363.000	363.000	363.000	363.000	363.000	363.000	363.000	363.000	363.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	421.67	N.A.	22.70
90-120	729.70	N.A.	39.20
90-130	1038.77	N.A.	55.80
90-150	1553.86	N.A.	83.50
90-180	1860.18	N.A.	100.00
110-180	1438.51	N.A.	77.30
0-180	1860.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	125.09
100-110	296.58
110-120	308.03
120-130	309.07
130-140	284.28
140-150	230.81
150-160	168.67
160-170	103.01
170-180	34.64

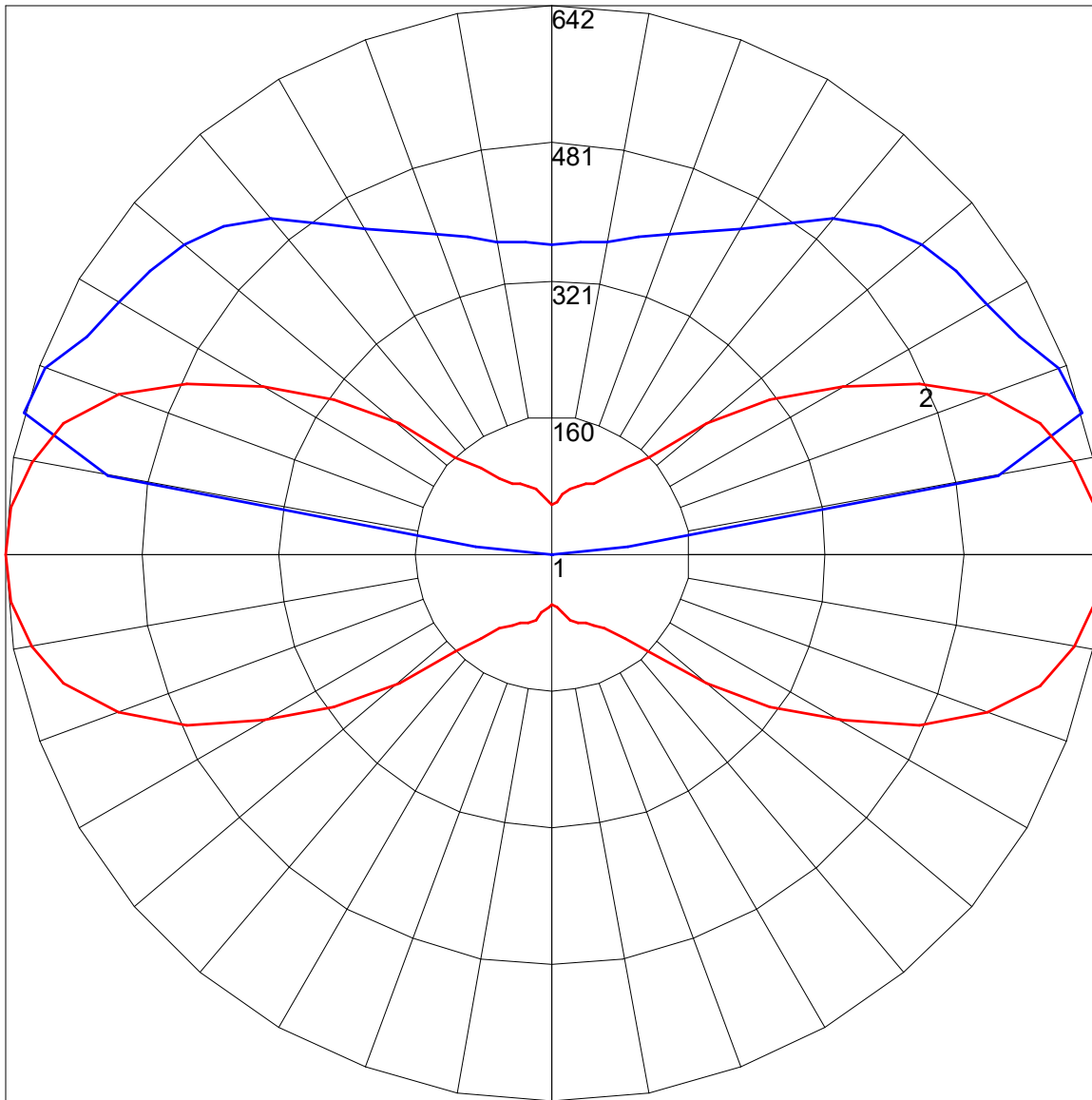
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 641.993 Located At Horizontal Angle = 0, Vertical Angle = 105  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (105) (Through Max. Cd.)