



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6599
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	64
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	9146	5177	4433
55	8866	4292	3521
65	8633	3404	2568
75	7918	2100	1149
85	5997	656	244

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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	1325.117	1325.117	1325.117	1325.117	1325.117	1325.117	1325.117	1325.117	1325.117	1325.117
5	1318.239	1317.650	1317.023	1316.491	1317.099	1318.334	1319.246	1319.189	1318.068	1318.049
10	1302.165	1301.329	1300.550	1299.296	1299.315	1299.676	1300.132	1299.391	1297.624	1296.921
15	1276.173	1275.242	1273.817	1271.708	1271.119	1270.872	1270.511	1268.687	1266.806	1265.267
20	1241.536	1240.092	1237.603	1235.171	1233.860	1232.853	1231.390	1228.692	1225.937	1223.619
25	1196.202	1195.176	1191.547	1188.450	1186.303	1184.764	1182.123	1178.475	1174.770	1171.597
30	1144.104	1141.957	1137.682	1133.977	1131.165	1128.410	1125.047	1120.240	1115.737	1111.709
35	1083.171	1080.644	1075.590	1071.315	1067.838	1064.342	1059.953	1054.367	1049.617	1044.354
40	1014.657	1011.902	1006.373	1001.509	997.044	993.187	987.981	981.958	976.600	971.394
45	938.752	935.332	929.005	924.046	919.220	914.261	908.314	902.310	896.097	891.385
50	855.361	851.656	845.652	840.427	835.449	829.844	823.498	817.380	811.813	806.284
55	765.092	761.273	755.060	750.348	745.940	740.202	734.350	728.536	722.475	715.996
60	681.777	677.901	672.828	669.047	665.095	660.098	654.227	648.128	640.965	633.631
65	581.229	577.790	574.066	571.691	568.670	563.920	558.372	550.867	541.671	532.494
70	475.152	473.290	472.131	471.808	469.965	465.196	457.159	446.861	434.682	421.762
75	366.719	367.593	371.754	373.996	371.279	363.052	350.474	334.210	315.875	296.723
80	255.436	263.131	274.987	276.963	267.349	249.470	226.062	201.096	176.434	155.268
85	143.298	170.962	180.348	165.927	144.837	126.635	112.081	100.434	89.756	79.933
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	90.535	121.695	150.138	158.631	157.947	155.933	159.695	182.913	225.644	274.075
100	124.393	139.156	166.554	185.136	196.308	199.177	200.412	220.419	264.518	311.581
105	157.054	167.029	186.732	204.972	216.296	221.920	231.496	246.601	280.364	332.120
110	190.247	198.360	212.021	226.632	242.383	251.826	261.440	278.787	310.346	351.063
115	221.103	224.409	236.702	252.187	268.147	283.993	297.179	317.547	343.349	386.365
120	246.867	252.111	263.853	281.466	299.573	315.666	331.816	360.316	380.950	423.776
125	275.557	275.785	291.707	305.843	324.007	343.425	366.073	384.503	419.330	463.543
130	299.364	306.717	316.844	330.144	347.472	368.543	385.111	425.809	451.516	489.136
135	332.063	330.334	336.718	351.576	367.137	383.116	408.310	439.318	472.625	508.877
140	346.123	352.830	361.019	375.972	387.144	402.800	431.452	457.520	480.852	506.084
145	368.296	371.317	378.252	387.543	399.228	411.483	436.202	456.855	479.408	500.897
150	395.048	397.195	400.330	403.959	412.167	427.310	443.555	460.294	478.857	494.817
155	414.029	414.124	415.435	421.591	428.583	439.204	450.528	454.746	465.994	477.888
160	423.833	424.004	424.441	426.189	431.243	438.292	446.557	455.715	464.474	474.715
165	435.784	436.164	437.855	439.888	444.296	447.735	454.100	459.496	464.759	471.200
170	449.977	450.357	450.984	451.478	454.271	456.342	459.154	461.928	463.600	467.020
175	458.242	458.546	458.109	458.831	459.705	460.503	462.080	463.011	463.258	463.486
180	462.707	462.707	462.707	462.707	462.707	462.707	462.707	462.707	462.707	462.707

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	1325.117	1325.117	1325.117	1325.117	1325.117	1325.117	1325.117	1325.117	1325.117
5	1317.346	1316.757	1316.510	1314.078	1312.140	1311.874	1313.204	1313.793	1315.351
10	1295.819	1294.793	1293.615	1291.392	1288.922	1288.580	1289.511	1290.157	1291.259
15	1263.139	1261.885	1259.814	1256.945	1254.095	1253.582	1254.380	1254.760	1254.969
20	1220.750	1219.002	1216.076	1212.504	1209.730	1209.122	1209.274	1209.920	1209.483
25	1168.405	1166.296	1162.515	1158.620	1155.865	1155.257	1155.219	1155.124	1154.877
30	1107.966	1105.401	1101.107	1097.288	1094.647	1093.982	1094.039	1092.652	1093.013
35	1040.801	1036.583	1032.213	1028.584	1026.608	1025.544	1025.335	1024.100	1024.442
40	967.176	961.932	957.049	953.857	952.166	950.741	950.532	949.392	950.000
45	886.331	880.517	875.539	871.910	870.561	869.250	868.756	868.205	868.072
50	800.166	794.200	789.127	785.099	782.762	781.261	780.178	779.912	779.817
55	709.232	702.791	696.882	691.543	688.389	686.185	685.197	684.133	683.962
60	625.917	618.374	611.002	604.675	600.001	597.322	596.600	594.301	594.301

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65	522.728	513.038	503.519	495.596	488.509	485.089	482.144	480.130	479.617
70	405.821	395.143	382.299	371.013	361.893	355.661	350.721	348.726	347.852
75	277.666	259.255	242.250	228.114	215.897	207.746	203.110	200.488	199.538
80	137.408	121.714	108.186	97.052	88.483	83.733	81.472	80.028	79.591
85	70.813	62.453	55.936	48.754	41.971	39.026	38.399	37.981	37.810
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	300.808	290.035	255.645	217.455	182.020	158.764	145.882	136.192	133.095
100	438.957	524.666	569.012	581.191	560.329	539.904	523.146	506.654	505.647
105	430.939	552.311	636.747	702.335	731.310	752.096	757.074	761.121	764.237
110	425.315	524.951	607.544	684.969	741.380	789.070	818.938	836.209	842.099
115	449.939	519.536	581.894	644.879	695.932	741.760	775.523	796.651	803.795
120	475.988	532.836	579.899	627.855	669.465	706.173	736.174	754.072	760.190
125	502.683	551.380	588.886	625.727	662.074	694.602	719.815	733.590	738.549
130	531.943	567.777	602.129	630.496	659.376	689.510	707.788	721.031	726.142
135	538.327	571.634	607.905	627.874	655.443	681.834	698.098	710.049	714.514
140	534.565	565.231	590.748	611.686	636.880	660.592	675.716	684.361	689.890
145	527.307	541.348	561.678	585.067	605.302	622.060	637.355	644.081	648.983
150	505.210	521.341	538.593	555.294	570.133	583.661	594.073	599.678	602.870
155	491.302	505.666	517.883	529.093	539.695	548.720	554.933	559.037	561.108
160	483.037	492.974	500.878	507.129	513.779	518.586	523.032	525.274	527.877
165	475.988	482.163	486.685	490.200	493.677	496.641	500.137	499.548	502.968
170	469.509	472.511	475.399	476.292	477.926	479.351	481.536	480.529	483.949
175	464.778	466.032	466.279	466.070	465.937	466.393	467.400	467.324	469.053
180	462.707	462.707	462.707	462.707	462.707	462.707	462.707	462.707	462.707

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	481.91	N.A.	7.30
0-30	1022.56	N.A.	15.50
0-40	1678.44	N.A.	25.40
0-60	3013.83	N.A.	45.70
0-80	3845.34	N.A.	58.30
0-90	3941.69	N.A.	59.70
10-90	3816.67	N.A.	57.80
20-40	1196.53	N.A.	18.10
20-50	1887.34	N.A.	28.60
40-70	1857.97	N.A.	28.20
60-80	831.51	N.A.	12.60
70-80	308.93	N.A.	4.70
80-90	96.35	N.A.	1.50
90-110	647.14	N.A.	9.80
90-120	1107.96	N.A.	16.80
90-130	1544.61	N.A.	23.40
90-150	2255.57	N.A.	34.20
90-180	2657.18	N.A.	40.30
110-180	2010.03	N.A.	30.50
0-180	6598.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.02
10-20	356.89
20-30	540.65
30-40	655.88
40-50	690.81
50-60	644.58
60-70	522.58
70-80	308.93
80-90	96.35
90-100	199.85
100-110	447.30
110-120	460.81
120-130	436.65
130-140	394.69
140-150	316.27
150-160	224.03
160-170	133.24
170-180	44.33

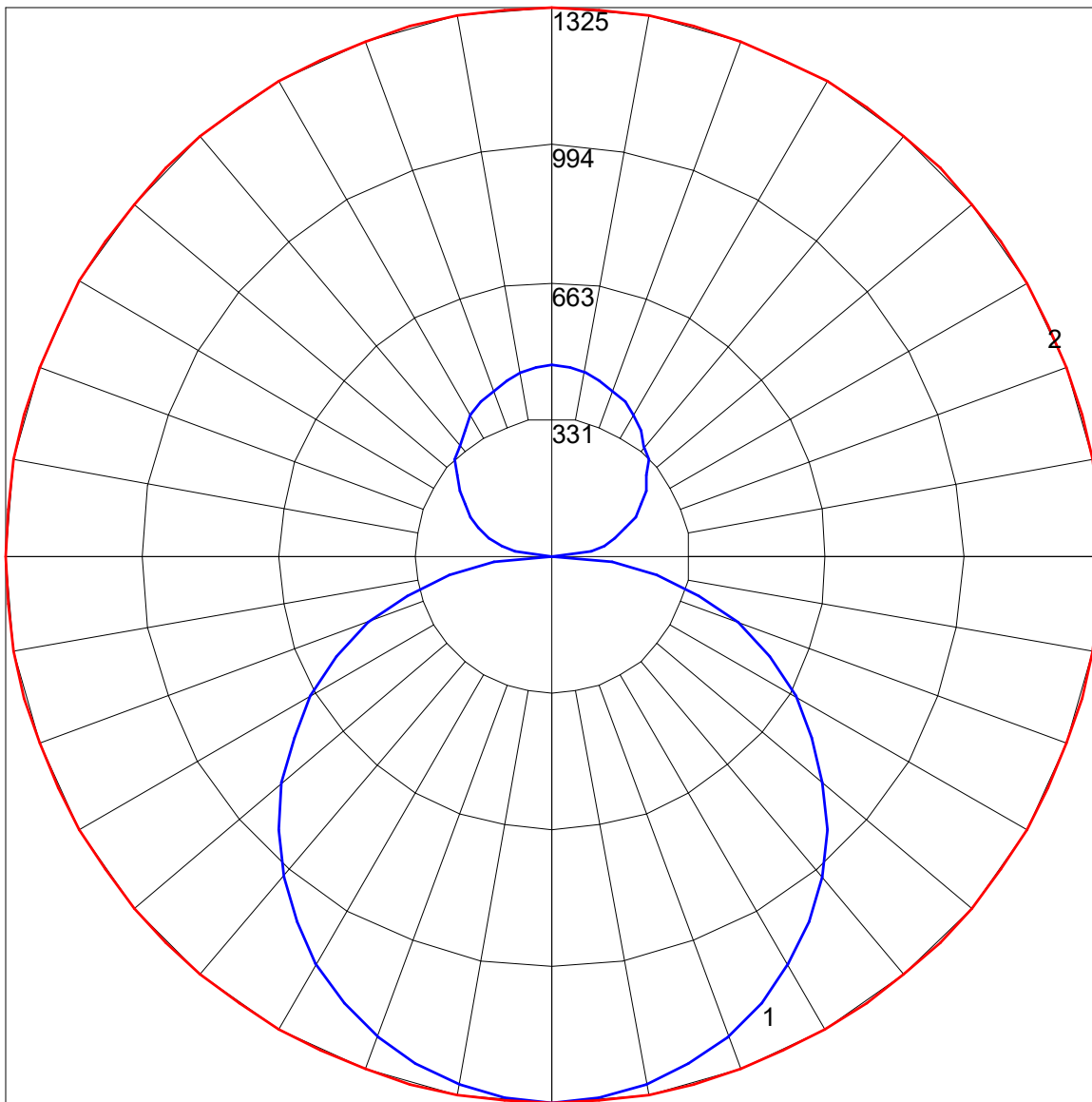
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	49	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	28	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 = 1325.117 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.)