



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L051506801
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] STSQ-LED35-HO-D1-NU
 [LUMINAIRE] 49"L. X 5"W. X 4-1/4"H. LED LUMINAIRE
 [MORE] WHITE REFLECTOR
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4324
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	42
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.88 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19312	18432	18318
55	19089	18235	18059
65	19146	18329	17339
75	18342	15577	11418
85	15680	7814	7180

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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	1487.550	1487.550	1487.550	1487.550	1487.550	1487.550	1487.550	1487.550	1487.550	1487.550
5	1479.570	1478.940	1477.890	1476.675	1477.050	1478.010	1478.955	1479.090	1477.530	1477.110
10	1461.090	1459.695	1457.850	1455.555	1455.240	1455.360	1455.315	1454.565	1452.735	1451.820
15	1430.970	1428.930	1426.155	1422.915	1421.715	1421.010	1419.810	1418.070	1415.505	1413.870
20	1390.440	1387.695	1383.450	1379.475	1377.375	1375.575	1373.535	1371.210	1367.655	1365.210
25	1338.420	1334.865	1329.870	1324.830	1322.250	1319.505	1316.550	1313.595	1309.605	1306.185
30	1276.695	1272.495	1266.390	1261.110	1257.795	1254.465	1250.970	1246.755	1242.180	1238.505
35	1205.625	1200.690	1193.805	1187.610	1183.725	1179.795	1175.475	1170.840	1166.025	1162.395
40	1124.790	1119.210	1111.800	1105.050	1100.535	1095.960	1091.625	1086.495	1082.010	1078.245
45	1034.655	1028.475	1020.435	1014.000	1008.990	1004.340	999.570	994.365	990.585	987.525
50	936.435	929.970	921.840	915.330	910.230	905.895	901.125	896.790	894.030	891.990
55	829.590	823.080	815.055	809.175	804.690	801.120	797.190	794.265	792.735	792.480
60	730.410	724.110	716.520	711.480	707.760	704.925	702.630	701.205	700.500	699.585
65	613.065	606.930	600.225	596.700	594.870	593.445	592.590	591.450	589.890	586.920
70	489.255	483.930	478.980	477.480	477.465	477.210	475.905	472.665	467.325	460.425
75	359.700	356.370	354.900	356.400	356.745	354.240	347.625	336.510	322.440	305.475
80	230.535	229.680	232.725	233.520	227.520	212.985	192.030	170.715	153.255	140.145
85	103.545	107.340	105.330	88.530	72.285	62.550	57.915	55.200	53.205	51.600
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>
0	1487.550	1487.550	1487.550	1487.550	1487.550	1487.550	1487.550	1487.550	1487.550
5	1476.300	1475.595	1475.085	1472.640	1470.585	1470.450	1471.335	1472.610	1472.775
10	1449.840	1448.790	1447.710	1444.680	1442.865	1442.145	1442.340	1443.210	1443.225
15	1411.260	1409.685	1407.870	1404.825	1402.980	1402.080	1400.865	1401.735	1403.055
20	1361.985	1359.855	1357.755	1354.740	1353.315	1351.590	1349.715	1351.320	1352.445
25	1302.750	1300.215	1297.710	1295.190	1294.005	1291.950	1289.535	1291.695	1292.400
30	1234.725	1232.355	1229.865	1227.705	1226.355	1224.270	1221.945	1223.685	1223.910
35	1158.705	1156.605	1154.310	1152.615	1151.325	1148.640	1147.305	1147.725	1148.895
40	1075.230	1073.790	1071.660	1070.550	1069.275	1067.040	1066.680	1066.680	1068.330
45	985.860	984.525	983.055	982.350	980.880	979.530	979.695	979.575	981.435
50	891.135	889.935	889.020	888.150	886.065	885.435	885.840	886.185	887.265
55	791.325	789.855	788.970	787.065	785.370	784.275	784.095	785.415	784.815
60	697.695	695.760	693.660	690.525	688.200	687.315	685.215	686.550	685.455
65	583.605	579.330	573.630	569.025	564.240	560.970	557.370	556.770	555.210
70	450.975	440.415	431.055	420.825	413.445	405.825	401.115	398.370	396.780
75	286.005	272.655	258.945	247.500	237.945	231.405	227.610	224.835	223.905
80	131.985	125.760	122.010	116.055	111.240	109.785	108.660	108.120	108.000
85	50.370	49.455	48.780	48.255	47.835	47.580	47.460	47.430	47.415
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	539.13	N.A.	12.50
0-30	1142.5	N.A.	26.40
0-40	1873.16	N.A.	43.30
0-60	3355.5	N.A.	77.60
0-80	4246.43	N.A.	98.20
0-90	4323.98	N.A.	100.00
10-90	4183.87	N.A.	96.80
20-40	1334.04	N.A.	30.90
20-50	2101.89	N.A.	48.60
40-70	2055.16	N.A.	47.50
60-80	890.93	N.A.	20.60
70-80	318.11	N.A.	7.40
80-90	77.55	N.A.	1.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4323.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	140.11
10-20	399.02
20-30	603.38
30-40	730.66
40-50	767.85
50-60	714.49
60-70	572.82
70-80	318.11
80-90	77.55
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

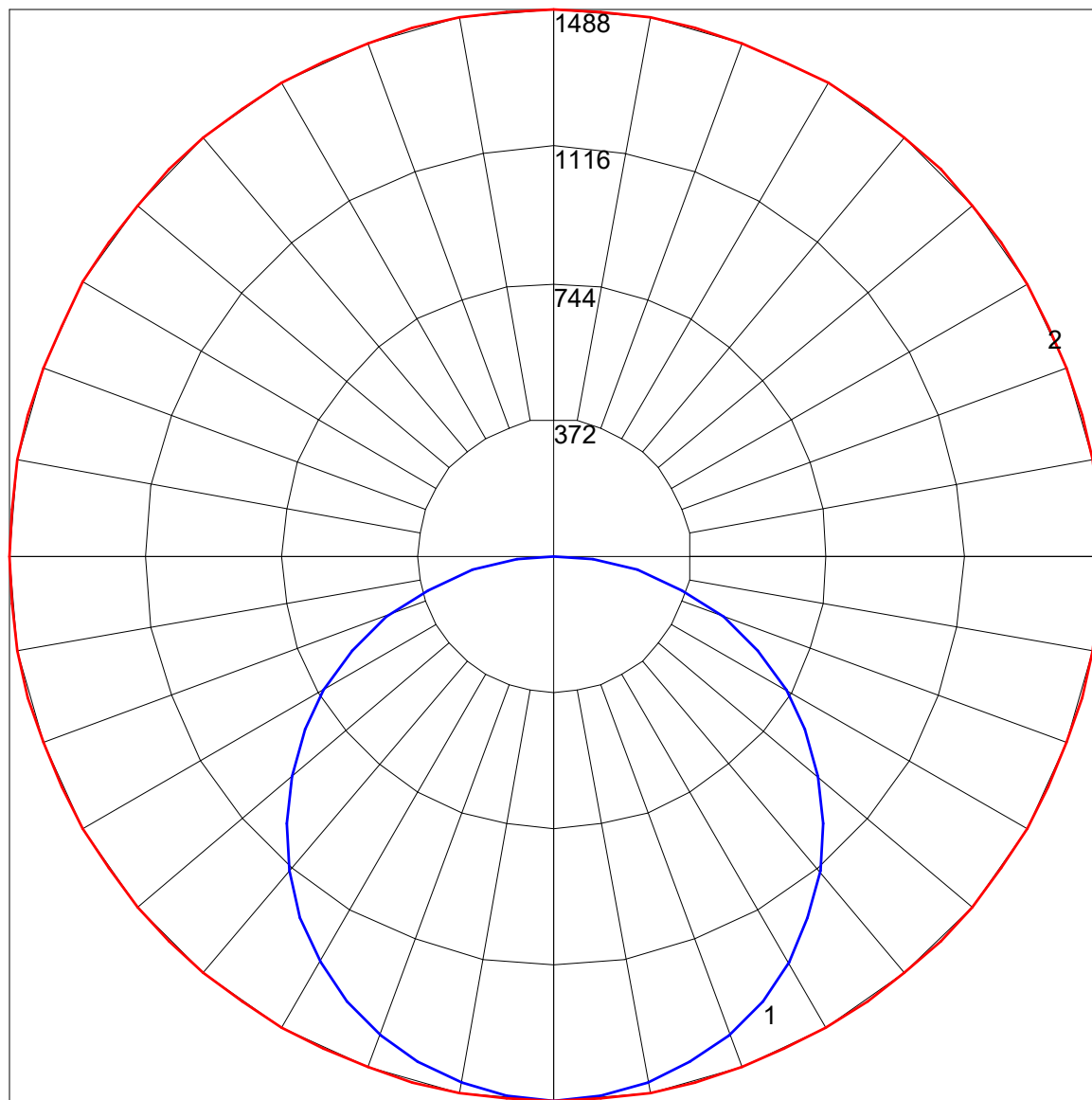
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

POLAR GRAPH



Maximum Candela = 1487.55 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.)