



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5605
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	51
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	11013	6233	5315
55	11022	5284	4282
65	11069	4146	3021
75	10901	2456	1240
85	9997	606	64

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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	1036.66	1036.66	1036.66	1036.66	1036.66	1036.66	1036.66	1036.66	1036.66	1036.66
2.5	1039.33	1035.88	1034.95	1036.44	1036.49	1035.93	1033.40	1035.99	1040.41	1035.99
5.0	1036.22	1032.84	1032.15	1034.38	1034.47	1033.57	1031.67	1033.48	1036.58	1033.48
7.5	1033.38	1028.08	1027.58	1028.67	1029.12	1029.09	1026.78	1030.52	1032.32	1030.52
10.0	1028.96	1021.78	1021.66	1023.21	1023.45	1023.18	1021.62	1025.06	1027.06	1025.06
12.5	1021.27	1015.34	1013.87	1015.70	1015.51	1016.25	1015.00	1018.39	1019.85	1018.39
15.0	1013.56	1005.55	1004.88	1006.68	1006.36	1007.29	1006.16	1008.32	1010.25	1008.32
17.5	1002.88	995.50	995.28	996.01	997.24	997.01	995.37	999.31	998.02	999.31
20.0	990.84	983.05	982.42	984.77	985.05	985.45	983.57	987.00	987.10	987.00
22.5	977.13	968.79	970.32	971.09	971.33	969.80	970.23	972.94	972.60	972.94
25.0	961.84	953.37	954.01	955.61	955.95	954.85	954.15	958.65	956.07	958.65
27.5	943.86	936.11	936.58	937.98	938.01	936.58	937.19	942.07	938.66	942.07
30.0	924.36	916.00	917.74	917.41	916.88	917.46	918.86	923.35	919.83	923.35
32.5	902.48	896.23	896.42	895.48	895.50	895.37	899.15	903.60	898.10	903.60
35.0	879.99	874.05	875.47	873.32	871.18	873.25	875.95	880.88	875.34	880.88
37.5	857.12	850.90	850.92	848.54	846.32	847.23	853.42	858.46	853.14	858.46
40.0	831.67	825.86	825.63	822.02	819.00	820.52	828.21	833.25	827.99	833.25
42.5	806.56	798.21	798.69	793.00	789.70	791.76	799.73	806.47	800.12	806.47
45.0	776.94	768.14	769.02	762.01	757.24	761.58	770.80	778.60	773.06	778.60
47.5	745.09	737.32	737.88	729.76	723.13	729.56	739.52	748.65	742.55	748.65
50.0	714.24	704.34	704.32	696.28	687.76	694.83	706.87	717.93	711.87	717.93
52.5	681.59	670.39	670.21	659.50	649.96	658.08	674.51	685.34	679.78	685.34
55.0	649.07	634.01	634.63	620.22	608.88	620.12	638.26	649.66	645.69	649.66
57.5	612.50	596.77	596.61	578.85	566.34	579.13	600.20	614.47	609.16	614.47
60.0	575.26	557.62	556.66	534.39	518.83	534.91	559.87	574.93	571.29	574.93
62.5	539.01	516.64	514.05	487.82	469.67	488.17	518.75	535.85	532.84	535.85
65.0	503.01	474.71	469.21	437.68	415.78	438.90	473.11	494.69	492.46	494.69
67.5	461.53	429.13	420.82	383.70	356.34	383.91	425.87	448.25	452.53	448.25
70.0	421.90	381.93	369.28	324.44	295.54	324.51	374.18	402.66	411.64	402.66
72.5	377.36	332.61	313.18	261.27	229.81	260.75	316.57	351.59	369.28	351.59
75.0	333.77	280.79	252.49	194.02	159.79	193.71	255.87	297.39	325.25	297.39
77.5	287.41	225.22	189.59	126.18	91.41	124.25	191.19	240.04	280.81	240.04
80.0	243.10	169.30	123.94	71.46	46.36	71.93	124.73	182.62	235.58	182.62
82.5	197.45	130.53	81.47	37.86	18.39	36.50	72.00	126.81	188.75	126.81
85.0	148.55	92.22	54.15	24.50	7.45	23.22	51.25	81.11	141.52	81.11
87.5	98.66	65.96	46.58	18.75	2.79	17.31	43.89	66.71	88.72	66.71
90.0	34.99	73.90	64.93	43.38	27.48	43.03	66.36	84.96	26.73	84.96
92.5	42.83	86.32	78.96	56.74	39.42	55.49	80.32	103.62	57.59	103.62
95.0	80.88	101.45	95.22	70.29	53.73	72.15	105.16	128.00	91.64	128.00
97.5	106.19	126.32	120.29	96.78	75.67	95.63	127.79	147.24	117.42	147.24
100.0	127.65	148.33	142.92	118.72	97.54	116.97	150.23	169.39	143.24	169.39
102.5	152.56	170.47	166.61	141.60	120.48	139.79	171.54	190.26	170.94	190.26
105.0	175.79	192.81	188.95	162.28	142.93	163.46	194.20	212.91	199.50	212.91
107.5	201.75	215.00	213.46	184.70	167.66	186.38	215.69	235.49	227.09	235.49
110.0	228.34	240.58	237.95	209.86	192.37	211.41	239.55	256.71	252.13	256.71
112.5	254.26	264.13	259.96	235.07	218.55	236.68	262.65	279.97	277.39	279.97
115.0	276.76	284.12	282.81	261.40	244.82	264.13	289.09	303.54	303.28	303.54
117.5	305.15	307.66	308.96	287.91	271.88	291.06	316.02	330.36	338.02	330.36
120.0	330.85	335.45	336.04	315.30	300.36	318.48	343.41	356.33	362.14	356.33
122.5	358.12	360.13	364.79	342.78	329.78	346.24	370.54	384.70	392.23	384.70
125.0	388.72	388.55	393.01	372.16	356.65	375.91	393.95	410.24	423.12	410.24
127.5	414.52	414.21	417.10	400.91	385.64	404.01	424.08	439.25	448.96	439.25
130.0	441.03	444.13	442.36	429.96	415.61	432.72	455.11	463.54	477.20	463.54
132.5	469.52	469.18	468.88	458.21	445.39	458.58	476.04	492.23	506.02	492.23

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CANDELA TABULATION - (Cont.)

135.0	498.38	493.78	496.96	483.16	475.25	483.80	510.05	519.18	535.97	519.18
137.5	527.88	522.45	524.83	506.34	503.40	517.33	538.14	548.18	556.31	548.18
140.0	549.80	551.89	547.50	533.79	531.14	548.68	562.52	574.76	583.56	574.76
142.5	579.66	579.75	574.47	561.35	559.51	575.43	586.29	591.67	611.54	591.67
145.0	606.98	602.87	602.06	588.79	587.25	602.79	609.10	616.20	634.84	616.20
147.5	634.30	626.85	624.44	617.93	613.99	628.84	634.81	642.29	657.11	642.29
150.0	656.22	648.14	648.12	642.59	640.58	648.66	659.59	666.28	675.23	666.28
152.5	676.21	672.61	671.22	666.89	665.77	667.80	676.63	688.77	695.65	688.77
155.0	696.20	693.55	687.70	690.17	688.99	689.99	696.14	703.62	713.84	703.62
157.5	710.15	711.97	708.91	710.92	709.97	711.53	714.30	720.52	733.05	720.52
160.0	727.22	729.04	728.28	730.61	729.33	730.40	732.26	739.06	750.11	739.06
162.5	745.93	745.28	744.60	746.62	745.78	747.61	748.94	755.67	765.53	755.67
165.0	760.42	760.42	759.85	761.98	761.66	762.18	763.51	768.38	780.03	768.38
167.5	775.42	773.99	772.27	775.06	774.03	775.24	775.16	780.42	790.30	780.42
170.0	786.93	785.91	783.34	786.03	784.88	785.62	785.68	790.37	798.58	790.37
172.5	796.41	794.14	792.01	794.44	794.12	795.30	792.92	798.04	806.03	798.04
175.0	803.96	801.17	798.47	801.46	799.31	800.24	798.64	803.55	809.69	803.55
177.5	808.36	805.12	801.58	804.07	803.62	803.63	802.64	806.26	812.95	806.26
180.0	805.84	805.84	805.84	805.84	805.84	805.84	805.84	805.84	805.84	805.84

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	1036.66	1036.66	1036.66	1036.66	1036.66	1036.66	1036.66
2.5	1033.40	1035.93	1036.49	1036.44	1034.95	1035.88	1039.33
5.0	1031.67	1033.57	1034.47	1034.38	1032.15	1032.84	1036.22
7.5	1026.78	1029.09	1029.12	1028.67	1027.58	1028.08	1033.38
10.0	1021.62	1023.18	1023.45	1023.21	1021.66	1021.78	1028.96
12.5	1015.00	1016.25	1015.51	1015.70	1013.87	1015.34	1021.27
15.0	1006.16	1007.29	1006.36	1006.68	1004.88	1005.55	1013.56
17.5	995.37	997.01	997.24	996.01	995.28	995.50	1002.88
20.0	983.57	985.45	985.05	984.77	982.42	983.05	990.84
22.5	970.23	969.80	971.33	971.09	970.32	968.79	977.13
25.0	954.15	954.85	955.95	955.61	954.01	953.37	961.84
27.5	937.19	936.58	938.01	937.98	936.58	936.11	943.86
30.0	918.86	917.46	916.88	917.41	917.74	916.00	924.36
32.5	899.15	895.37	895.50	895.48	896.42	896.23	902.48
35.0	875.95	873.25	871.18	873.32	875.47	874.05	879.99
37.5	853.42	847.23	846.32	848.54	850.92	850.90	857.12
40.0	828.21	820.52	819.00	822.02	825.63	825.86	831.67
42.5	799.73	791.76	789.70	793.00	798.69	798.21	806.56
45.0	770.80	761.58	757.24	762.01	769.02	768.14	776.94
47.5	739.52	729.56	723.13	729.76	737.88	737.32	745.09
50.0	706.87	694.83	687.76	696.28	704.32	704.34	714.24
52.5	674.51	658.08	649.96	659.50	670.21	670.39	681.59
55.0	638.26	620.12	608.88	620.22	634.63	634.01	649.07
57.5	600.20	579.13	566.34	578.85	596.61	596.77	612.50
60.0	559.87	534.91	518.83	534.39	556.66	557.62	575.26
62.5	518.75	488.17	469.67	487.82	514.05	516.64	539.01
65.0	473.11	438.90	415.78	437.68	469.21	474.71	503.01
67.5	425.87	383.91	356.34	383.70	420.82	429.13	461.53
70.0	374.18	324.51	295.54	324.44	369.28	381.93	421.90
72.5	316.57	260.75	229.81	261.27	313.18	332.61	377.36
75.0	255.87	193.71	159.79	194.02	252.49	280.79	333.77
77.5	191.19	124.25	91.41	126.18	189.59	225.22	287.41
80.0	124.73	71.93	46.36	71.46	123.94	169.30	243.10

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CANDELA TABULATION - (Cont.)

82.5	72.00	36.50	18.39	37.86	81.47	130.53	197.45
85.0	51.25	23.22	7.45	24.50	54.15	92.22	148.55
87.5	43.89	17.31	2.79	18.75	46.58	65.96	98.66
90.0	66.36	43.03	27.48	43.38	64.93	73.90	34.99
92.5	80.32	55.49	39.42	56.74	78.96	86.32	42.83
95.0	105.16	72.15	53.73	70.29	95.22	101.45	80.88
97.5	127.79	95.63	75.67	96.78	120.29	126.32	106.19
100.0	150.23	116.97	97.54	118.72	142.92	148.33	127.65
102.5	171.54	139.79	120.48	141.60	166.61	170.47	152.56
105.0	194.20	163.46	142.93	162.28	188.95	192.81	175.79
107.5	215.69	186.38	167.66	184.70	213.46	215.00	201.75
110.0	239.55	211.41	192.37	209.86	237.95	240.58	228.34
112.5	262.65	236.68	218.55	235.07	259.96	264.13	254.26
115.0	289.09	264.13	244.82	261.40	282.81	284.12	276.76
117.5	316.02	291.06	271.88	287.91	308.96	307.66	305.15
120.0	343.41	318.48	300.36	315.30	336.04	335.45	330.85
122.5	370.54	346.24	329.78	342.78	364.79	360.13	358.12
125.0	393.95	375.91	356.65	372.16	393.01	388.55	388.72
127.5	424.08	404.01	385.64	400.91	417.10	414.21	414.52
130.0	455.11	432.72	415.61	429.96	442.36	444.13	441.03
132.5	476.04	458.58	445.39	458.21	468.88	469.18	469.52
135.0	510.05	483.80	475.25	483.16	496.96	493.78	498.38
137.5	538.14	517.33	503.40	506.34	524.83	522.45	527.88
140.0	562.52	548.68	531.14	533.79	547.50	551.89	549.80
142.5	586.29	575.43	559.51	561.35	574.47	579.75	579.66
145.0	609.10	602.79	587.25	588.79	602.06	602.87	606.98
147.5	634.81	628.84	613.99	617.93	624.44	626.85	634.30
150.0	659.59	648.66	640.58	642.59	648.12	648.14	656.22
152.5	676.63	667.80	665.77	666.89	671.22	672.61	676.21
155.0	696.14	689.99	688.99	690.17	687.70	693.55	696.20
157.5	714.30	711.53	709.97	710.92	708.91	711.97	710.15
160.0	732.26	730.40	729.33	730.61	728.28	729.04	727.22
162.5	748.94	747.61	745.78	746.62	744.60	745.28	745.93
165.0	763.51	762.18	761.66	761.98	759.85	760.42	760.42
167.5	775.16	775.24	774.03	775.06	772.27	773.99	775.42
170.0	785.68	785.62	784.88	786.03	783.34	785.91	786.93
172.5	792.92	795.30	794.12	794.44	792.01	794.14	796.41
175.0	798.64	800.24	799.31	801.46	798.47	801.17	803.96
177.5	802.64	803.63	803.62	804.07	801.58	805.12	808.36
180.0	805.84	805.84	805.84	805.84	805.84	805.84	805.84

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	383.00	N.A.	6.80
0-30	823.79	N.A.	14.70
0-40	1371.77	N.A.	24.50
0-60	2528.08	N.A.	45.10
0-80	3241.68	N.A.	57.80
0-90	3318.74	N.A.	59.20
10-90	3220.41	N.A.	57.50
20-40	988.77	N.A.	17.60
20-50	1581.08	N.A.	28.20
40-70	1611.83	N.A.	28.80
60-80	713.60	N.A.	12.70
70-80	258.08	N.A.	4.60
80-90	77.07	N.A.	1.40
90-110	290.73	N.A.	5.20
90-120	566.72	N.A.	10.10
90-130	912.99	N.A.	16.30
90-150	1674.85	N.A.	29.90
90-180	2286.11	N.A.	40.80
110-180	1995.38	N.A.	35.60
0-180	5604.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.33
10-20	284.67
20-30	440.79
30-40	547.98
40-50	592.31
50-60	564.00
60-70	455.52
70-80	258.08
80-90	77.07
90-100	99.52
100-110	191.21
110-120	275.99
120-130	346.27
130-140	384.08
140-150	377.78
150-160	320.03
160-170	215.21
170-180	76.02

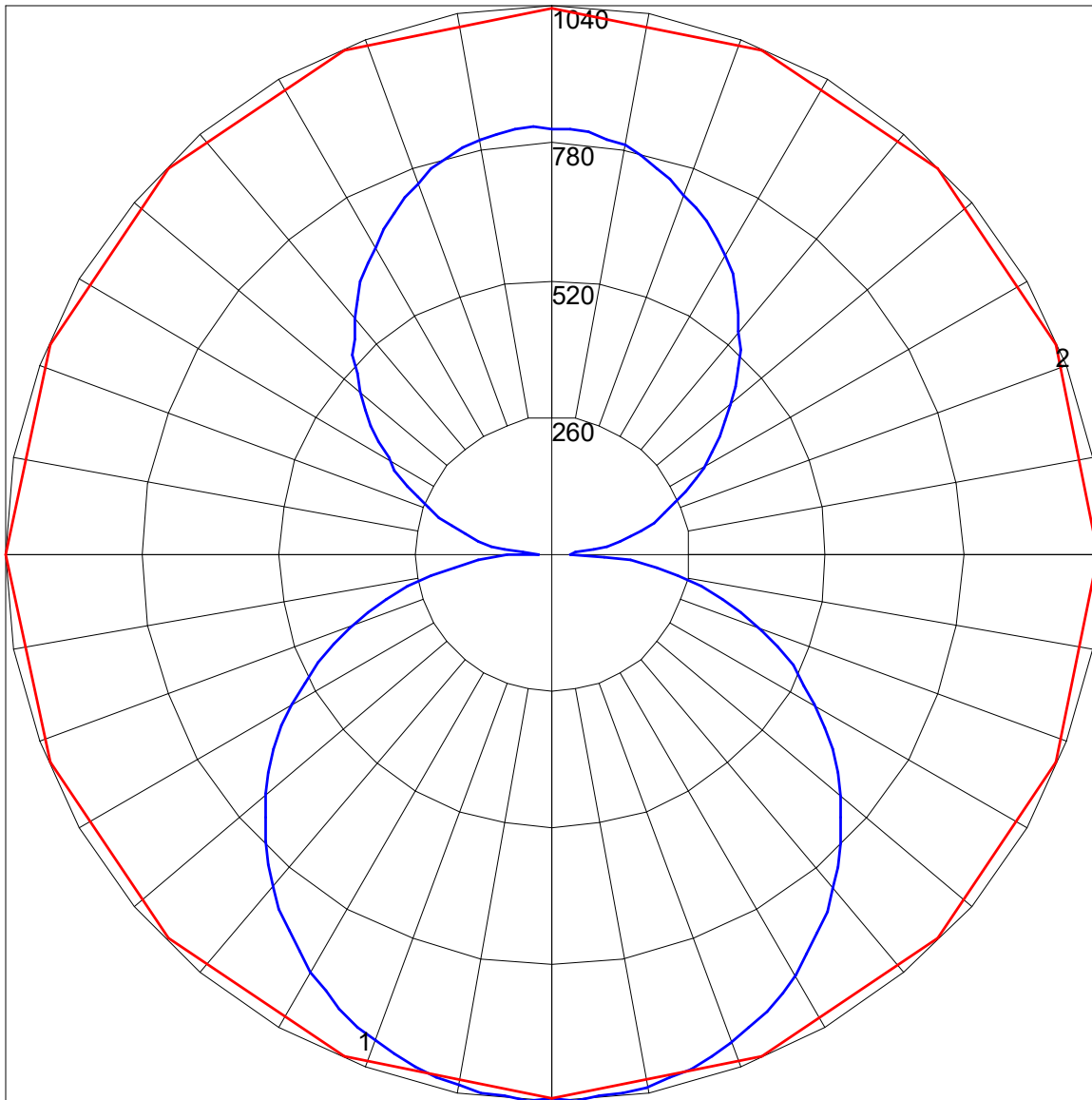
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1040.41 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.)