



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SQ-LED35-MO-MO-CW-D1-SC.IES

DESCRIPTION INFORMATION (From Photometric File)

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	33.45
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	5295	2997	2566
55	5133	2485	2038
65	4998	1971	1487
75	4584	1216	665
85	3472	380	141

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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	767.173	767.173	767.173	767.173	767.173	767.173	767.173	767.173	767.173	767.173
5	763.191	762.850	762.487	762.179	762.531	763.246	763.774	763.741	763.092	763.081
10	753.885	753.401	752.950	752.224	752.235	752.444	752.708	752.279	751.256	750.849
15	738.837	738.298	737.473	736.252	735.911	735.768	735.559	734.503	733.414	732.523
20	718.784	717.948	716.507	715.099	714.340	713.757	712.910	711.348	709.753	708.411
25	692.538	691.944	689.843	688.050	686.807	685.916	684.387	682.275	680.130	678.293
30	662.376	661.133	658.658	656.513	654.885	653.290	651.343	648.560	645.953	643.621
35	627.099	625.636	622.710	620.235	618.222	616.198	613.657	610.423	607.673	604.626
40	587.433	585.838	582.637	579.821	577.236	575.003	571.989	568.502	565.400	562.386
45	543.488	541.508	537.845	534.974	532.180	529.309	525.866	522.390	518.793	516.065
50	495.209	493.064	489.588	486.563	483.681	480.436	476.762	473.220	469.997	466.796
55	442.948	440.737	437.140	434.412	431.860	428.538	425.150	421.784	418.275	414.524
60	394.713	392.469	389.532	387.343	385.055	382.162	378.763	375.232	371.085	366.839
65	336.501	334.510	332.354	330.979	329.230	326.480	323.268	318.923	313.599	308.286
70	275.088	274.010	273.339	273.152	272.085	269.324	264.671	258.709	251.658	244.178
75	212.311	212.817	215.226	216.524	214.951	210.188	202.906	193.490	182.875	171.787
80	147.884	152.339	159.203	160.347	154.781	144.430	130.878	116.424	102.146	89.892
85	82.962	98.978	104.412	96.063	83.853	73.315	64.889	58.146	51.964	46.277
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	52.415	70.455	86.922	91.839	91.443	90.277	92.455	105.897	130.636	158.675
100	72.017	80.564	96.426	107.184	113.652	115.313	116.028	127.611	153.142	180.389
105	90.926	96.701	108.108	118.668	125.224	128.480	134.024	142.769	162.316	192.280
110	110.143	114.840	122.749	131.208	140.327	145.794	151.360	161.403	179.674	203.247
115	128.007	129.921	137.038	146.003	155.243	164.417	172.051	183.843	198.781	223.685
120	142.923	145.959	152.757	162.954	173.437	182.754	192.104	208.604	220.550	245.344
125	159.533	159.665	168.883	177.067	187.583	198.825	211.937	222.607	242.770	268.367
130	173.316	177.573	183.436	191.136	201.168	213.367	222.959	246.521	261.404	283.184
135	192.247	191.246	194.942	203.544	212.553	221.804	236.390	254.342	273.625	294.613
140	200.387	204.270	209.011	217.668	224.136	233.200	249.788	264.880	278.388	292.996
145	213.224	214.973	218.988	224.367	231.132	238.227	252.538	264.495	277.552	289.993
150	228.712	229.955	231.770	233.871	238.623	247.390	256.795	266.486	277.233	286.473
155	239.701	239.756	240.515	244.079	248.127	254.276	260.832	263.274	269.786	276.672
160	245.377	245.476	245.729	246.741	249.667	253.748	258.533	263.835	268.906	274.835
165	252.296	252.516	253.495	254.672	257.224	259.215	262.900	266.024	269.071	272.800
170	260.513	260.733	261.096	261.382	262.999	264.198	265.826	267.432	268.400	270.380
175	265.298	265.474	265.221	265.639	266.145	266.607	267.520	268.059	268.202	268.334
180	267.883	267.883	267.883	267.883	267.883	267.883	267.883	267.883	267.883	267.883

**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	767.173	767.173	767.173	767.173	767.173	767.173	767.173	767.173	767.173
5	762.674	762.333	762.190	760.782	759.660	759.506	760.276	760.617	761.519
10	750.211	749.617	748.935	747.648	746.218	746.020	746.559	746.933	747.571
15	731.291	730.565	729.366	727.705	726.055	725.758	726.220	726.440	726.561
20	706.750	705.738	704.044	701.976	700.370	700.018	700.106	700.480	700.227
25	676.445	675.224	673.035	670.780	669.185	668.833	668.811	668.756	668.613
30	641.454	639.969	637.483	635.272	633.743	633.358	633.391	632.588	632.797
35	602.569	600.127	597.597	595.496	594.352	593.736	593.615	592.900	593.098
40	559.944	556.908	554.081	552.233	551.254	550.429	550.308	549.648	550.000
45	513.139	509.773	506.891	504.790	504.009	503.250	502.964	502.645	502.568
50	463.254	459.800	456.863	454.531	453.178	452.309	451.682	451.528	451.473
55	410.608	406.879	403.458	400.367	398.541	397.265	396.693	396.077	395.978
60	362.373	358.006	353.738	350.075	347.369	345.818	345.400	344.069	344.069

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65	302.632	297.022	291.511	286.924	282.821	280.841	279.136	277.970	277.673
70	234.949	228.767	221.331	214.797	209.517	205.909	203.049	201.894	201.388
75	160.754	150.095	140.250	132.066	124.993	120.274	117.590	116.072	115.522
80	79.552	70.466	62.634	56.188	51.227	48.477	47.168	46.332	46.079
85	40.997	36.157	32.384	28.226	24.299	22.594	22.231	21.989	21.890
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	174.152	167.915	148.005	125.895	105.380	91.916	84.458	78.848	77.055
100	254.133	303.754	329.428	336.479	324.401	312.576	302.874	293.326	292.743
105	249.491	319.759	368.643	406.615	423.390	435.424	438.306	440.649	442.453
110	246.235	303.919	351.736	396.561	429.220	456.830	474.122	484.121	487.531
115	260.491	300.784	336.886	373.351	402.908	429.440	448.987	461.219	465.355
120	275.572	308.484	335.731	363.495	387.585	408.837	426.206	436.568	440.110
125	291.027	319.220	340.934	362.263	383.306	402.138	416.735	424.710	427.581
130	307.967	328.713	348.601	365.024	381.744	399.190	409.772	417.439	420.398
135	311.663	330.946	351.945	363.506	379.467	394.746	404.162	411.081	413.666
140	309.485	327.239	342.012	354.134	368.720	382.448	391.204	396.209	399.410
145	305.283	313.412	325.182	338.723	350.438	360.140	368.995	372.889	375.727
150	292.490	301.829	311.817	321.486	330.077	337.909	343.937	347.182	349.030
155	284.438	292.754	299.827	306.317	312.455	317.680	321.277	323.653	324.852
160	279.653	285.406	289.982	293.601	297.451	300.234	302.808	304.106	305.613
165	275.572	279.147	281.765	283.800	285.813	287.529	289.553	289.212	291.192
170	271.821	273.559	275.231	275.748	276.694	277.519	278.784	278.201	280.181
175	269.082	269.808	269.951	269.830	269.753	270.017	270.600	270.556	271.557
180	267.883	267.883	267.883	267.883	267.883	267.883	267.883	267.883	267.883

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	279.00	N.A.	7.30
0-30	592.01	N.A.	15.50
0-40	971.73	N.A.	25.40
0-60	1744.85	N.A.	45.70
0-80	2226.25	N.A.	58.30
0-90	2282.03	N.A.	59.70
10-90	2209.65	N.A.	57.80
20-40	692.73	N.A.	18.10
20-50	1092.67	N.A.	28.60
40-70	1075.67	N.A.	28.20
60-80	481.40	N.A.	12.60
70-80	178.85	N.A.	4.70
80-90	55.78	N.A.	1.50
90-110	374.66	N.A.	9.80
90-120	641.45	N.A.	16.80
90-130	894.25	N.A.	23.40
90-150	1305.86	N.A.	34.20
90-180	1538.37	N.A.	40.30
110-180	1163.7	N.A.	30.50
0-180	3820.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.38
10-20	206.62
20-30	313.01
30-40	379.72
40-50	399.94
50-60	373.18
60-70	302.55
70-80	178.85
80-90	55.78
90-100	115.70
100-110	258.96
110-120	266.79
120-130	252.80
130-140	228.50
140-150	183.10
150-160	129.70
160-170	77.14
170-180	25.67

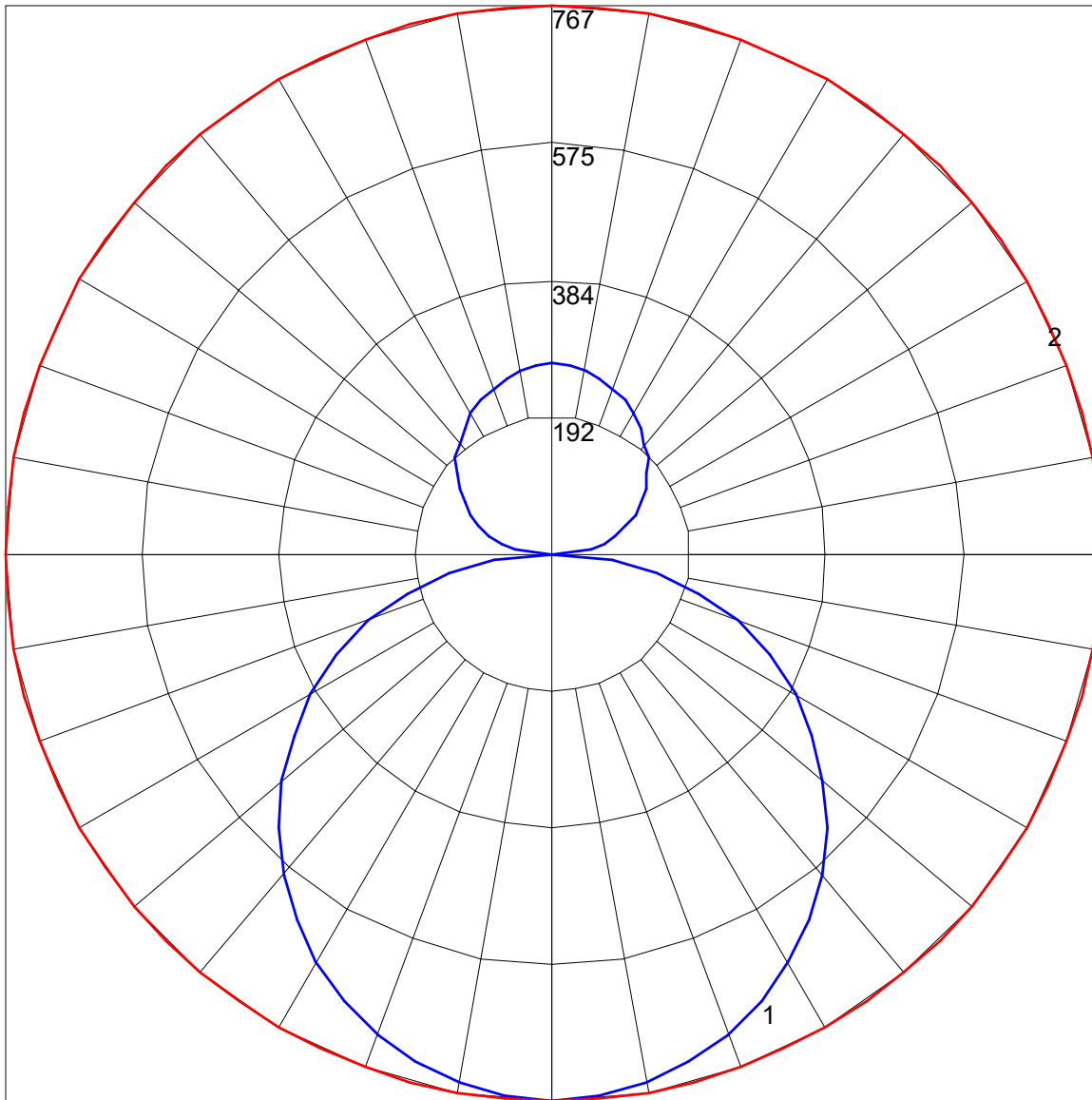
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	75	72	67	65	63	57	55	54	49
2	90	82	76	71	84	77	71	67	67	63	59	58	55	52	50	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	32	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	29	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 = 767.173 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.)