



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L061501501
 [TESTLAB]
 [ISSUEDATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] STSQ-LED35-LO-LO-D1-CW1-SC
 [LUMINAIRE] 4-1/2"SQ. X 49-1/2"L. LED LUMINAIRE
 [MORE] WHITE REFLECTOR AND LEDS WITH OPTICS
 [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	2709
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	23.5
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3755	2125	1820
55	3640	1762	1445
65	3544	1397	1054
75	3251	862	472
85	2462	269	100

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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	543.995	543.995	543.995	543.995	543.995	543.995	543.995	543.995	543.995	543.995
5	541.172	540.930	540.673	540.454	540.704	541.211	541.585	541.562	541.102	541.094
10	534.573	534.230	533.910	533.395	533.403	533.551	533.738	533.434	532.709	532.420
15	523.903	523.520	522.935	522.070	521.828	521.726	521.578	520.829	520.057	519.425
20	509.683	509.090	508.069	507.070	506.532	506.119	505.518	504.410	503.279	502.328
25	491.072	490.651	489.161	487.890	487.009	486.377	485.293	483.795	482.274	480.971
30	469.685	468.803	467.048	465.527	464.373	463.242	461.861	459.888	458.039	456.386
35	444.670	443.633	441.558	439.803	438.376	436.940	435.139	432.845	430.895	428.735
40	416.543	415.412	413.143	411.146	409.313	407.729	405.592	403.120	400.920	398.783
45	385.382	383.978	381.381	379.345	377.364	375.328	372.887	370.422	367.871	365.937
50	351.148	349.627	347.162	345.017	342.974	340.673	338.068	335.556	333.271	331.001
55	314.090	312.523	309.972	308.038	306.228	303.872	301.470	299.083	296.595	293.935
60	279.887	278.296	276.214	274.661	273.039	270.988	268.577	266.074	263.133	260.122
65	238.610	237.198	235.669	234.694	233.454	231.504	229.226	226.145	222.370	218.603
70	195.062	194.298	193.822	193.690	192.933	190.975	187.676	183.448	178.448	173.144
75	150.548	150.907	152.615	153.535	152.420	149.042	143.879	137.202	129.675	121.813
80	104.863	108.022	112.889	113.701	109.754	102.414	92.804	82.555	72.431	63.742
85	58.828	70.184	74.038	68.117	59.459	51.987	46.012	41.231	36.847	32.815
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	37.167	49.959	61.636	65.122	64.841	64.015	65.559	75.091	92.633	112.515
100	51.067	57.127	68.375	76.003	80.590	81.767	82.274	90.488	108.592	127.912
105	64.475	68.570	76.658	84.146	88.795	91.104	95.035	101.236	115.097	136.344
110	78.101	81.432	87.040	93.038	99.505	103.381	107.328	114.449	127.405	144.121
115	90.769	92.126	97.172	103.529	110.081	116.587	122.000	130.361	140.954	158.613
120	101.345	103.498	108.319	115.549	122.983	129.589	136.219	147.919	156.390	173.971
125	113.123	113.217	119.753	125.557	133.013	140.985	150.283	157.849	172.146	190.297
130	122.897	125.915	130.073	135.533	142.646	151.297	158.098	174.806	185.359	200.803
135	136.321	135.611	138.232	144.331	150.719	157.279	167.622	180.352	194.025	208.907
140	142.093	144.846	148.208	154.346	158.933	165.360	177.122	187.824	197.402	207.761
145	151.195	152.435	155.282	159.097	163.894	168.925	179.072	187.551	196.810	205.631
150	162.178	163.059	164.346	165.836	169.205	175.422	182.091	188.963	196.583	203.135
155	169.970	170.009	170.547	173.074	175.945	180.305	184.954	186.685	191.303	196.186
160	173.995	174.065	174.244	174.962	177.037	179.930	183.323	187.083	190.679	194.883
165	178.901	179.057	179.751	180.586	182.395	183.807	186.420	188.635	190.796	193.440
170	184.727	184.883	185.141	185.344	186.490	187.340	188.495	189.634	190.320	191.724
175	188.120	188.245	188.066	188.362	188.721	189.049	189.696	190.078	190.180	190.273
180	189.953	189.953	189.953	189.953	189.953	189.953	189.953	189.953	189.953	189.953

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	543.995	543.995	543.995	543.995	543.995	543.995	543.995	543.995	543.995
5	540.805	540.563	540.462	539.464	538.668	538.559	539.105	539.347	539.986
10	531.968	531.547	531.063	530.150	529.136	528.996	529.378	529.643	530.096
15	518.552	518.037	517.187	516.009	514.839	514.628	514.956	515.112	515.198
20	501.150	500.432	499.231	497.765	496.626	496.376	496.439	496.704	496.525
25	479.661	478.795	477.243	475.644	474.513	474.263	474.248	474.209	474.107
30	454.849	453.796	452.033	450.466	449.381	449.108	449.132	448.562	448.711
35	427.276	425.545	423.751	422.261	421.450	421.013	420.927	420.420	420.560
40	397.051	394.898	392.894	391.583	390.889	390.304	390.218	389.750	390.000
45	363.862	361.475	359.432	357.942	357.388	356.850	356.647	356.421	356.366
50	328.489	326.040	323.957	322.304	321.344	320.728	320.284	320.174	320.135
55	291.158	288.514	286.088	283.897	282.602	281.697	281.291	280.855	280.784
60	256.955	253.859	250.832	248.235	246.316	245.216	244.920	243.976	243.976

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65	214.594	210.616	206.708	203.455	200.546	199.142	197.933	197.106	196.895
70	166.600	162.217	156.944	152.311	148.567	146.008	143.980	143.161	142.802
75	113.989	106.431	99.450	93.647	88.631	85.285	83.382	82.306	81.916
80	56.410	49.967	44.413	39.842	36.325	34.375	33.446	32.854	32.674
85	29.071	25.639	22.963	20.015	17.230	16.021	15.764	15.592	15.522
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	123.490	119.067	104.949	89.271	74.724	65.177	59.888	55.910	54.639
100	180.203	215.389	233.594	238.594	230.030	221.645	214.765	207.995	207.581
105	176.912	226.738	261.401	288.327	300.222	308.755	310.799	312.460	313.739
110	174.603	215.506	249.413	281.198	304.356	323.934	336.196	343.286	345.704
115	184.712	213.283	238.883	264.740	285.698	304.512	318.373	327.046	329.979
120	195.406	218.743	238.064	257.751	274.833	289.903	302.219	309.566	312.078
125	206.365	226.356	241.753	256.877	271.799	285.152	295.503	301.158	303.194
130	218.377	233.087	247.190	258.835	270.691	283.062	290.566	296.002	298.100
135	220.997	234.671	249.561	257.759	269.077	279.911	286.588	291.494	293.327
140	219.453	232.042	242.518	251.113	261.456	271.190	277.399	280.948	283.218
145	216.473	222.238	230.584	240.185	248.492	255.372	261.651	264.412	266.425
150	207.402	214.024	221.107	227.963	234.055	239.608	243.883	246.184	247.494
155	201.692	207.589	212.605	217.207	221.559	225.264	227.815	229.499	230.350
160	198.299	202.379	205.624	208.190	210.920	212.893	214.718	215.639	216.707
165	195.406	197.941	199.797	201.240	202.667	203.884	205.319	205.078	206.482
170	192.746	193.978	195.164	195.530	196.201	196.786	197.683	197.270	198.674
175	190.804	191.318	191.420	191.334	191.279	191.467	191.880	191.849	192.559
180	189.953	189.953	189.953	189.953	189.953	189.953	189.953	189.953	189.953

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	197.84	N.A.	7.30
0-30	419.79	N.A.	15.50
0-40	689.04	N.A.	25.40
0-60	1237.26	N.A.	45.70
0-80	1578.61	N.A.	58.30
0-90	1618.17	N.A.	59.70
10-90	1566.84	N.A.	57.80
20-40	491.21	N.A.	18.10
20-50	774.80	N.A.	28.60
40-70	762.75	N.A.	28.20
60-80	341.36	N.A.	12.60
70-80	126.82	N.A.	4.70
80-90	39.55	N.A.	1.50
90-110	265.67	N.A.	9.80
90-120	454.85	N.A.	16.80
90-130	634.10	N.A.	23.40
90-150	925.97	N.A.	34.20
90-180	1090.84	N.A.	40.30
110-180	825.17	N.A.	30.50
0-180	2709.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.32
10-20	146.51
20-30	221.95
30-40	269.25
40-50	283.59
50-60	264.62
60-70	214.53
70-80	126.82
80-90	39.55
90-100	82.04
100-110	183.63
110-120	189.18
120-130	179.26
130-140	162.03
140-150	129.84
150-160	91.97
160-170	54.70
170-180	18.20

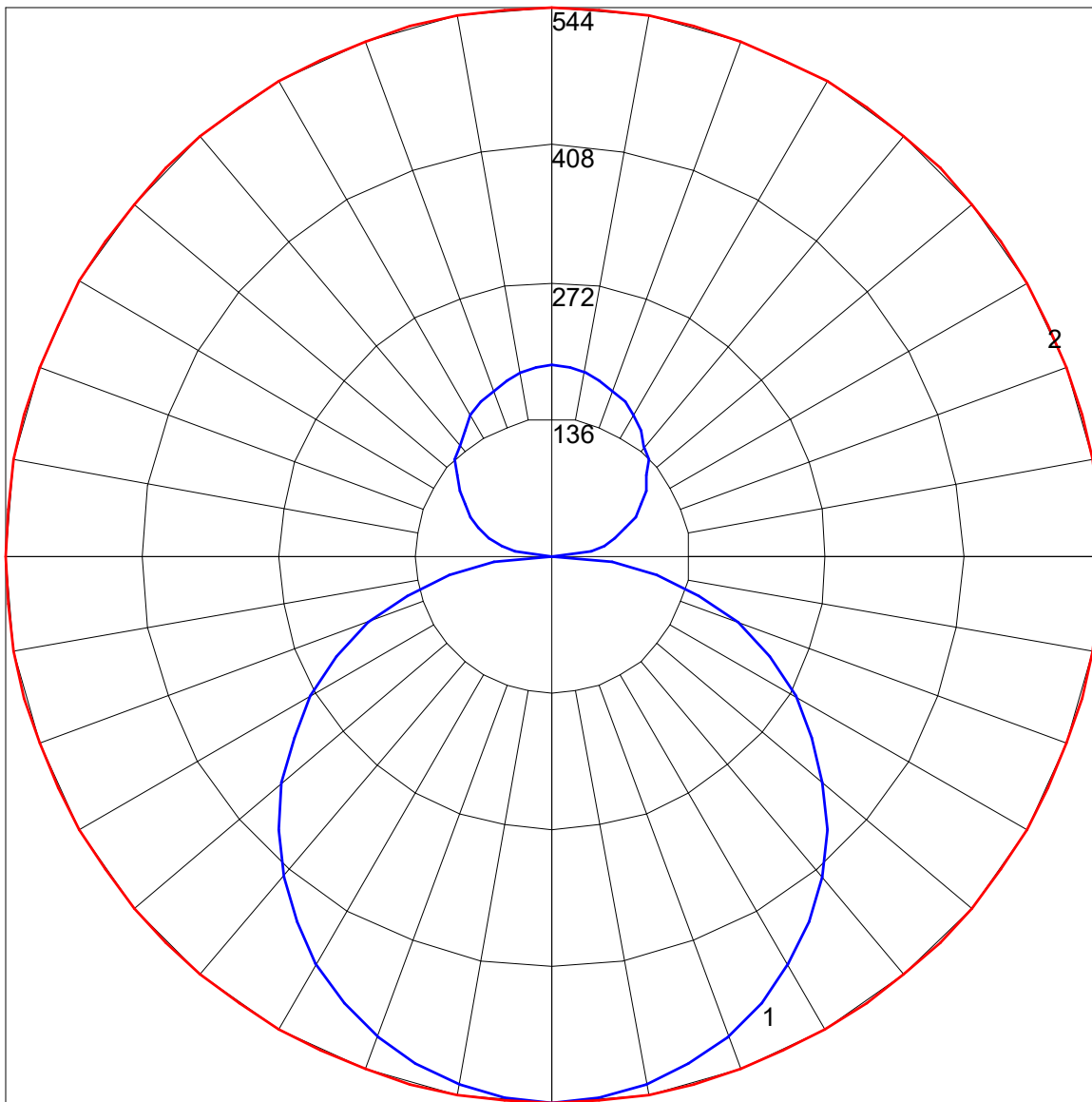
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 543.995 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.)