



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AERO-LED35-SO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Aero-LED35-SO-SAL
 [TESTLAB] Intertek
 [ISSUE DATE] July 7, 2017
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4153
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.25 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14957	6790	4298
55	16414	6060	3103
65	18476	5402	2050
75	22853	4799	1152
85	38627	4291	383

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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	921.180	921.180	921.180	921.180	921.180	921.180	921.180	921.180	921.180	921.180
2.5	921.804	921.551	918.879	921.980	920.186	921.687	918.392	920.946	920.537	920.946
5.0	923.130	922.038	917.241	918.470	915.779	917.826	916.227	920.537	920.849	920.537
7.5	924.729	922.331	914.706	912.600	908.486	911.664	912.834	920.108	921.785	920.108
10.0	926.445	922.487	910.572	904.098	898.034	902.909	907.823	919.250	922.779	919.250
12.5	928.356	922.565	905.093	893.217	884.715	891.696	901.583	918.041	923.949	918.041
15.0	930.872	922.311	898.209	879.977	868.803	878.007	894.173	916.539	925.080	916.539
17.5	933.329	921.161	889.902	864.611	850.181	862.173	885.398	914.745	926.036	914.745
20.0	934.986	919.152	880.308	847.022	829.140	844.467	875.258	912.561	926.601	912.561
22.5	935.181	916.188	869.213	827.366	805.584	824.714	863.792	909.090	925.977	909.090
25.0	933.524	911.937	856.655	805.623	779.747	802.854	850.668	903.747	923.930	903.747
27.5	930.482	906.165	842.517	782.204	752.135	779.006	835.926	896.766	920.381	896.766
30.0	926.250	898.619	826.820	757.185	722.670	753.402	819.312	888.440	915.174	888.440
32.5	920.946	889.629	809.699	730.568	691.451	726.473	801.606	879.021	908.564	879.021
35.0	914.589	879.080	791.135	702.351	658.652	698.393	782.984	868.647	900.881	868.647
37.5	906.087	866.678	771.245	672.770	624.741	668.753	763.152	857.357	892.398	857.357
40.0	895.440	852.677	749.931	642.408	589.446	638.450	742.151	845.247	882.122	845.247
42.5	883.838	838.344	727.584	611.345	554.034	607.289	720.252	831.597	869.934	831.597
45.0	870.792	823.836	704.165	579.794	518.154	575.348	698.081	816.114	855.543	816.114
47.5	855.992	807.534	680.589	547.716	482.040	542.861	676.124	798.701	838.793	798.701
50.0	838.403	789.029	657.891	515.502	445.907	510.257	653.699	779.630	820.190	779.630
52.5	817.596	768.476	635.661	483.327	409.910	478.140	630.708	758.921	799.754	758.921
55.0	794.703	746.109	612.749	451.503	374.342	446.628	607.464	737.178	777.563	737.178
57.5	770.484	721.910	589.115	420.479	339.378	415.877	583.869	714.285	753.539	714.285
60.0	744.686	696.131	565.052	390.371	305.253	386.490	560.060	689.988	728.345	689.988
62.5	716.196	669.201	540.696	361.238	271.928	359.015	536.211	664.268	702.137	664.268
65.0	686.166	641.570	515.600	334.191	239.889	333.509	512.265	637.670	674.661	637.670
67.5	655.961	613.295	490.230	309.914	209.313	309.309	488.085	610.487	645.645	610.487
70.0	626.399	584.669	465.309	287.274	180.336	286.260	463.808	582.894	615.908	582.894
72.5	596.271	556.023	440.895	265.805	152.666	264.518	439.745	554.892	586.268	554.892
75.0	565.247	527.631	416.910	245.330	126.536	244.667	416.013	527.046	556.920	527.046
77.5	533.813	499.278	392.906	225.615	102.200	225.849	392.730	499.220	527.553	499.220
80.0	504.075	471.042	369.428	207.090	79.463	207.929	369.798	471.764	498.381	471.764
82.5	475.566	443.391	346.691	189.755	58.325	190.769	347.393	444.873	469.599	444.873
85.0	447.252	416.598	324.675	173.394	38.084	174.428	325.455	418.548	441.500	418.548
87.5	418.997	391.053	303.381	157.833	18.857	158.984	304.454	393.315	415.116	393.315
90.0	391.970	366.347	282.633	143.033	5.519	144.203	284.076	368.843	389.454	368.843
92.5	367.224	342.635	262.802	129.188	4.505	130.436	264.771	345.384	365.040	345.384
95.0	343.512	319.917	244.101	116.298	4.583	117.429	246.246	322.842	341.835	322.842
97.5	320.795	298.370	226.337	104.072	4.680	105.320	228.345	301.256	319.449	301.256
100.0	299.052	277.739	209.001	92.645	4.758	93.951	210.971	280.703	298.038	280.703
102.5	278.889	258.434	192.504	82.154	4.875	83.519	194.435	261.222	277.797	261.222
105.0	259.818	240.123	176.846	72.501	4.973	73.905	178.952	242.775	258.707	242.775
107.5	241.605	222.554	162.221	63.707	5.070	65.013	164.229	225.050	240.494	225.050
110.0	224.270	205.823	148.122	55.751	5.148	56.843	150.111	208.260	223.334	208.260
112.5	207.714	189.930	134.726	48.672	5.226	49.296	136.929	192.290	206.739	192.290
115.0	192.329	174.896	122.031	42.393	5.343	42.881	124.449	177.197	191.042	177.197
117.5	177.411	160.388	110.058	37.109	5.480	38.142	112.554	162.786	176.105	162.786
120.0	163.079	146.504	98.963	32.936	5.597	34.379	101.478	149.000	162.006	149.000
122.5	149.136	133.302	88.823	29.640	5.753	31.220	91.007	135.935	148.493	135.935
125.0	135.720	120.744	79.385	26.969	5.870	28.490	81.120	123.513	135.545	123.513
127.5	122.909	109.005	70.590	24.687	5.948	26.072	71.819	111.657	122.948	111.657
130.0	111.131	97.793	62.537	22.659	6.026	23.927	63.258	100.133	110.799	100.133
132.5	99.840	87.341	55.244	20.826	6.143	22.016	56.277	89.135	99.216	89.135

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CANDELA TABULATION - (Cont.)

135.0	88.920	77.649	48.672	18.486	6.279	20.339	50.525	78.878	88.140	78.878
137.5	78.741	68.543	43.212	16.848	6.455	18.798	45.416	69.440	77.610	69.440
140.0	69.245	59.904	38.396	15.269	6.552	17.375	40.814	61.211	67.899	61.211
142.5	60.528	52.202	33.053	13.923	6.728	15.620	36.641	54.308	59.904	54.308
145.0	52.397	45.669	28.529	12.773	6.884	13.065	32.916	48.263	52.982	48.263
147.5	45.396	40.014	24.551	11.778	7.079	12.344	29.387	42.647	46.566	42.647
150.0	39.390	35.061	20.865	10.745	7.313	11.427	26.150	37.577	40.697	37.577
152.5	34.125	30.596	17.823	9.672	7.527	11.018	23.186	32.799	35.393	32.799
155.0	29.328	25.818	15.678	9.438	7.761	10.296	20.553	28.392	30.381	28.392
157.5	25.116	21.080	13.865	9.204	7.976	10.004	17.648	24.434	25.838	24.434
160.0	21.314	16.946	12.558	9.185	8.190	9.809	13.962	20.885	21.762	20.885
162.5	17.901	13.514	11.018	8.970	8.405	9.633	12.110	16.985	18.077	16.985
165.0	14.918	11.096	9.614	8.795	8.561	9.692	11.115	13.007	12.812	13.007
167.5	12.071	7.703	8.912	8.775	8.756	9.711	10.160	11.037	10.316	11.037
170.0	8.639	6.864	8.658	8.697	8.951	9.594	9.614	9.516	8.580	9.516
172.5	7.430	6.689	8.229	8.619	9.048	9.497	9.614	8.795	5.655	8.795
175.0	6.240	6.669	8.034	8.034	0.000	9.477	9.185	8.405	5.402	8.405
177.5	4.680	6.591	0.000	0.000	0.000	9.243	8.873	7.664	5.109	7.664
180.0	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>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	921.180	921.180	921.180	921.180	921.180	921.180	921.180
2.5	918.392	921.687	920.186	921.980	918.879	921.551	921.804
5.0	916.227	917.826	915.779	918.470	917.241	922.038	923.130
7.5	912.834	911.664	908.486	912.600	914.706	922.331	924.729
10.0	907.823	902.909	898.034	904.098	910.572	922.487	926.445
12.5	901.583	891.696	884.715	893.217	905.093	922.565	928.356
15.0	894.173	878.007	868.803	879.977	898.209	922.311	930.872
17.5	885.398	862.173	850.181	864.611	889.902	921.161	933.329
20.0	875.258	844.467	829.140	847.022	880.308	919.152	934.986
22.5	863.792	824.714	805.584	827.366	869.213	916.188	935.181
25.0	850.668	802.854	779.747	805.623	856.655	911.937	933.524
27.5	835.926	779.006	752.135	782.204	842.517	906.165	930.482
30.0	819.312	753.402	722.670	757.185	826.820	898.619	926.250
32.5	801.606	726.473	691.451	730.568	809.699	889.629	920.946
35.0	782.984	698.393	658.652	702.351	791.135	879.080	914.589
37.5	763.152	668.753	624.741	672.770	771.245	866.678	906.087
40.0	742.151	638.450	589.446	642.408	749.931	852.677	895.440
42.5	720.252	607.289	554.034	611.345	727.584	838.344	883.838
45.0	698.081	575.348	518.154	579.794	704.165	823.836	870.792
47.5	676.124	542.861	482.040	547.716	680.589	807.534	855.992
50.0	653.699	510.257	445.907	515.502	657.891	789.029	838.403
52.5	630.708	478.140	409.910	483.327	635.661	768.476	817.596
55.0	607.464	446.628	374.342	451.503	612.749	746.109	794.703
57.5	583.869	415.877	339.378	420.479	589.115	721.910	770.484
60.0	560.060	386.490	305.253	390.371	565.052	696.131	744.686
62.5	536.211	359.015	271.928	361.238	540.696	669.201	716.196
65.0	512.265	333.509	239.889	334.191	515.600	641.570	686.166
67.5	488.085	309.309	209.313	309.914	490.230	613.295	655.961
70.0	463.808	286.260	180.336	287.274	465.309	584.669	626.399
72.5	439.745	264.518	152.666	265.805	440.895	556.023	596.271
75.0	416.013	244.667	126.536	245.330	416.910	527.631	565.247
77.5	392.730	225.849	102.200	225.615	392.906	499.278	533.813
80.0	369.798	207.929	79.463	207.090	369.428	471.042	504.075

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82.5	347.393	190.769	58.325	189.755	346.691	443.391	475.566
85.0	325.455	174.428	38.084	173.394	324.675	416.598	447.252
87.5	304.454	158.984	18.857	157.833	303.381	391.053	418.997
90.0	284.076	144.203	5.519	143.033	282.633	366.347	391.970
92.5	264.771	130.436	4.505	129.188	262.802	342.635	367.224
95.0	246.246	117.429	4.583	116.298	244.101	319.917	343.512
97.5	228.345	105.320	4.680	104.072	226.337	298.370	320.795
100.0	210.971	93.951	4.758	92.645	209.001	277.739	299.052
102.5	194.435	83.519	4.875	82.154	192.504	258.434	278.889
105.0	178.952	73.905	4.973	72.501	176.846	240.123	259.818
107.5	164.229	65.013	5.070	63.707	162.221	222.554	241.605
110.0	150.111	56.843	5.148	55.751	148.122	205.823	224.270
112.5	136.929	49.296	5.226	48.672	134.726	189.930	207.714
115.0	124.449	42.881	5.343	42.393	122.031	174.896	192.329
117.5	112.554	38.142	5.480	37.109	110.058	160.388	177.411
120.0	101.478	34.379	5.597	32.936	98.963	146.504	163.079
122.5	91.007	31.220	5.753	29.640	88.823	133.302	149.136
125.0	81.120	28.490	5.870	26.969	79.385	120.744	135.720
127.5	71.819	26.072	5.948	24.687	70.590	109.005	122.909
130.0	63.258	23.927	6.026	22.659	62.537	97.793	111.131
132.5	56.277	22.016	6.143	20.826	55.244	87.341	99.840
135.0	50.525	20.339	6.279	18.486	48.672	77.649	88.920
137.5	45.416	18.798	6.455	16.848	43.212	68.543	78.741
140.0	40.814	17.375	6.552	15.269	38.396	59.904	69.245
142.5	36.641	15.620	6.728	13.923	33.053	52.202	60.528
145.0	32.916	13.065	6.884	12.773	28.529	45.669	52.397
147.5	29.387	12.344	7.079	11.778	24.551	40.014	45.396
150.0	26.150	11.427	7.313	10.745	20.865	35.061	39.390
152.5	23.186	11.018	7.527	9.672	17.823	30.596	34.125
155.0	20.553	10.296	7.761	9.438	15.678	25.818	29.328
157.5	17.648	10.004	7.976	9.204	13.865	21.080	25.116
160.0	13.962	9.809	8.190	9.185	12.558	16.946	21.314
162.5	12.110	9.633	8.405	8.970	11.018	13.514	17.901
165.0	11.115	9.692	8.561	8.795	9.614	11.096	14.918
167.5	10.160	9.711	8.756	8.775	8.912	7.703	12.071
170.0	9.614	9.594	8.951	8.697	8.658	6.864	8.639
172.5	9.614	9.497	9.048	8.619	8.229	6.689	7.430
175.0	9.185	9.477	0.000	8.034	8.034	6.669	6.240
177.5	8.873	9.243	0.000	0.000	0.000	6.591	4.680
180.0	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	341.35	N.A.	8.20
0-30	735.75	N.A.	17.70
0-40	1227.99	N.A.	29.60
0-60	2299.38	N.A.	55.40
0-80	3187.66	N.A.	76.80
0-90	3504.15	N.A.	84.40
10-90	3416.69	N.A.	82.30
20-40	886.64	N.A.	21.30
20-50	1425.18	N.A.	34.30
40-70	1554.27	N.A.	37.40
60-80	888.28	N.A.	21.40
70-80	405.40	N.A.	9.80
80-90	316.49	N.A.	7.60
90-110	400.49	N.A.	9.60
90-120	510.59	N.A.	12.30
90-130	578.65	N.A.	13.90
90-150	636.23	N.A.	15.30
90-180	648.88	N.A.	15.60
110-180	248.39	N.A.	6.00
0-180	4153.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.47
10-20	253.88
20-30	394.40
30-40	492.24
40-50	538.53
50-60	532.85
60-70	482.88
70-80	405.40
80-90	316.49
90-100	234.50
100-110	165.99
110-120	110.10
120-130	68.06
130-140	38.24
140-150	19.34
150-160	8.75
160-170	3.20
170-180	0.71

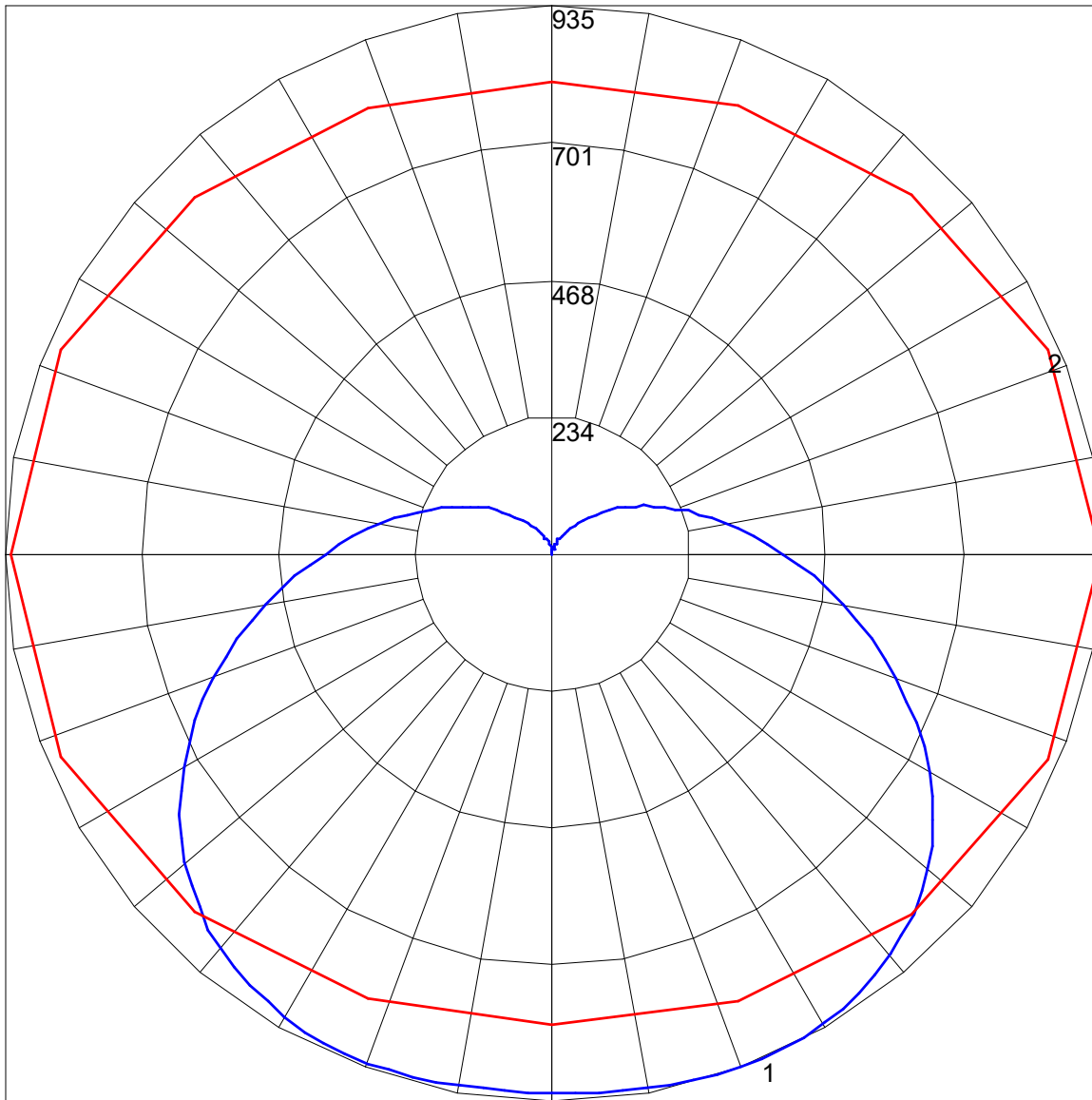
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64
2	92	82	74	68	87	79	72	65	73	67	62	67	62	58	62	58	54	51
3	83	71	62	55	79	68	60	53	63	56	50	58	52	48	54	49	45	42
4	76	63	53	46	72	60	51	45	56	48	42	51	45	40	47	42	38	35
5	69	55	46	39	66	53	45	38	49	42	36	46	39	34	42	37	32	30
6	64	50	40	33	61	48	39	33	44	37	31	41	35	30	38	33	28	26
7	59	45	36	29	56	43	35	29	40	33	27	37	31	26	35	29	25	23
8	55	41	32	26	52	39	31	25	37	29	24	34	28	23	32	26	22	20
9	51	37	29	23	49	36	28	23	34	27	22	31	25	21	29	24	20	18
10	48	34	26	21	46	33	25	20	31	24	20	29	23	19	27	22	18	16

POLAR GRAPH



Maximum Candela = 935.181 Located At Horizontal Angle = 0, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)