



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Aero-LED35-MO-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	2598
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	22
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	9358	4248	2689
55	10270	3791	1942
65	11559	3380	1282
75	14297	3002	720
85	24167	2684	240

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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	576.328	576.328	576.328	576.328	576.328	576.328	576.328	576.328	576.328	576.328
2.5	576.718	576.560	574.888	576.828	575.706	576.645	574.583	576.182	575.925	576.182
5.0	577.548	576.865	573.864	574.632	572.949	574.230	573.229	575.925	576.121	575.925
7.5	578.548	577.048	572.278	570.960	568.386	570.374	571.106	575.657	576.706	575.657
10.0	579.622	577.145	569.691	565.641	561.847	564.897	567.971	575.120	577.328	575.120
12.5	580.818	577.194	566.263	558.833	553.514	557.882	564.067	574.364	578.060	574.364
15.0	582.391	577.036	561.956	550.549	543.559	549.317	559.431	573.424	578.768	573.424
17.5	583.929	576.316	556.759	540.936	531.908	539.411	553.941	572.302	579.366	572.302
20.0	584.966	575.059	550.757	529.931	518.744	528.333	547.597	570.936	579.720	570.936
22.5	585.088	573.205	543.815	517.634	504.006	515.975	540.423	568.764	579.329	568.764
25.0	584.051	570.545	535.958	504.031	487.841	502.298	532.213	565.421	578.048	565.421
27.5	582.147	566.934	527.113	489.379	470.566	487.378	522.990	561.054	575.828	561.054
30.0	579.500	562.213	517.292	473.726	452.132	471.359	512.595	555.844	572.570	555.844
32.5	576.182	556.588	506.581	457.073	432.600	454.511	501.518	549.952	568.435	549.952
35.0	572.204	549.988	494.966	439.420	412.079	436.943	489.867	543.461	563.628	543.461
37.5	566.885	542.229	482.522	420.912	390.864	418.399	477.459	536.397	558.321	536.397
40.0	560.224	533.469	469.188	401.917	368.782	399.440	464.320	528.821	551.891	528.821
42.5	552.965	524.502	455.206	382.482	346.626	379.945	450.619	520.281	544.266	520.281
45.0	544.803	515.426	440.554	362.743	324.178	359.961	436.748	510.594	535.263	510.594
47.5	535.543	505.226	425.804	342.674	301.584	339.636	423.011	499.700	524.783	499.700
50.0	524.539	493.649	411.604	322.519	278.977	319.237	408.981	487.768	513.144	487.768
52.5	511.522	480.790	397.696	302.389	256.456	299.144	394.597	474.812	500.359	474.812
55.0	497.199	466.796	383.361	282.479	234.203	279.429	380.054	461.209	486.475	461.209
57.5	482.046	451.656	368.574	263.069	212.329	260.189	365.292	446.886	471.445	446.886
60.0	465.906	435.528	353.519	244.232	190.979	241.804	350.396	431.685	455.682	431.685
62.5	448.082	418.680	338.282	226.005	170.129	224.614	335.476	415.593	439.285	415.593
65.0	429.294	401.392	322.580	209.084	150.084	208.657	320.494	398.952	422.096	398.952
67.5	410.396	383.702	306.708	193.895	130.955	193.516	305.366	381.945	403.942	381.945
70.0	391.901	365.793	291.116	179.730	112.826	179.096	290.177	364.682	385.337	364.682
72.5	373.052	347.871	275.842	166.298	95.514	165.493	275.122	347.163	366.793	347.163
75.0	353.641	330.108	260.836	153.488	79.166	153.073	260.275	329.742	348.432	329.742
77.5	333.975	312.369	245.818	141.154	63.940	141.300	245.708	312.332	330.059	312.332
80.0	315.370	294.703	231.129	129.564	49.715	130.089	231.361	295.155	311.808	295.155
82.5	297.534	277.404	216.904	118.718	36.490	119.353	217.343	278.331	293.800	278.331
85.0	279.819	260.641	203.130	108.482	23.827	109.129	203.618	261.861	276.220	261.861
87.5	262.141	244.659	189.808	98.747	11.797	99.467	190.479	246.074	259.714	246.074
90.0	245.232	229.201	176.827	89.487	3.453	90.219	177.730	230.763	243.658	230.763
92.5	229.750	214.366	164.419	80.825	2.818	81.606	165.652	216.086	228.384	216.086
95.0	214.915	200.153	152.720	72.761	2.867	73.468	154.062	201.983	213.866	201.983
97.5	200.702	186.672	141.605	65.111	2.928	65.892	142.862	188.478	199.860	188.478
100.0	187.099	173.765	130.760	57.962	2.977	58.780	131.992	175.619	186.465	175.619
102.5	174.484	161.687	120.438	51.399	3.050	52.253	121.646	163.431	173.801	163.431
105.0	162.553	150.231	110.642	45.360	3.111	46.238	111.959	151.890	161.857	151.890
107.5	151.158	139.239	101.492	39.857	3.172	40.675	102.748	140.800	150.463	140.800
110.0	140.312	128.771	92.671	34.880	3.221	35.563	93.916	130.296	139.727	130.296
112.5	129.954	118.828	84.290	30.451	3.270	30.842	85.668	120.304	129.344	120.304
115.0	120.329	109.422	76.348	26.523	3.343	26.828	77.860	110.861	119.523	110.861
117.5	110.996	100.345	68.857	23.217	3.428	23.863	70.418	101.846	110.178	101.846
120.0	102.029	91.659	61.915	20.606	3.501	21.509	63.489	93.220	101.358	93.220
122.5	93.306	83.399	55.571	18.544	3.599	19.532	56.937	85.046	92.903	85.046
125.0	84.912	75.542	49.666	16.873	3.672	17.824	50.752	77.275	84.802	77.275
127.5	76.897	68.198	44.164	15.445	3.721	16.311	44.933	69.857	76.921	69.857
130.0	69.528	61.183	39.125	14.176	3.770	14.969	39.577	62.647	69.320	62.647
132.5	62.464	54.644	34.563	13.030	3.843	13.774	35.209	55.766	62.074	55.766

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CANDELA TABULATION - (Cont.)

135.0	55.632	48.580	30.451	11.566	3.928	12.725	31.610	49.349	55.144	49.349
137.5	49.264	42.883	27.035	10.541	4.038	11.761	28.414	43.444	48.556	43.444
140.0	43.322	37.478	24.022	9.553	4.099	10.870	25.535	38.296	42.480	38.296
142.5	37.869	32.659	20.679	8.711	4.209	9.772	22.924	33.977	37.478	33.977
145.0	32.781	28.572	17.849	7.991	4.307	8.174	20.594	30.195	33.147	30.195
147.5	28.402	25.034	15.360	7.369	4.429	7.723	18.385	26.681	29.134	26.681
150.0	24.644	21.936	13.054	6.722	4.575	7.149	16.360	23.509	25.461	23.509
152.5	21.350	19.142	11.151	6.051	4.709	6.893	14.506	20.520	22.143	20.520
155.0	18.349	16.153	9.809	5.905	4.856	6.442	12.859	17.763	19.008	17.763
157.5	15.714	13.188	8.674	5.758	4.990	6.259	11.041	15.287	16.165	15.287
160.0	13.335	10.602	7.857	5.746	5.124	6.137	8.735	13.066	13.615	13.066
162.5	11.200	8.455	6.893	5.612	5.258	6.027	7.576	10.626	11.309	10.626
165.0	9.333	6.942	6.015	5.502	5.356	6.063	6.954	8.137	8.015	8.137
167.5	7.552	4.819	5.575	5.490	5.478	6.076	6.356	6.905	6.454	6.905
170.0	5.405	4.294	5.417	5.441	5.600	6.002	6.015	5.954	5.368	5.954
172.5	4.648	4.185	5.148	5.392	5.661	5.941	6.015	5.502	3.538	5.502
175.0	3.904	4.172	5.026	5.026	0.000	5.929	5.746	5.258	3.379	5.258
177.5	2.928	4.124	0.000	0.000	0.000	5.783	5.551	4.795	3.196	4.795
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	576.328	576.328	576.328	576.328	576.328	576.328	576.328
2.5	574.583	576.645	575.706	576.828	574.888	576.560	576.718
5.0	573.229	574.230	572.949	574.632	573.864	576.865	577.548
7.5	571.106	570.374	568.386	570.960	572.278	577.048	578.548
10.0	567.971	564.897	561.847	565.641	569.691	577.145	579.622
12.5	564.067	557.882	553.514	558.833	566.263	577.194	580.818
15.0	559.431	549.317	543.559	550.549	561.956	577.036	582.391
17.5	553.941	539.411	531.908	540.936	556.759	576.316	583.929
20.0	547.597	528.333	518.744	529.931	550.757	575.059	584.966
22.5	540.423	515.975	504.006	517.634	543.815	573.205	585.088
25.0	532.213	502.298	487.841	504.031	535.958	570.545	584.051
27.5	522.990	487.378	470.566	489.379	527.113	566.934	582.147
30.0	512.595	471.359	452.132	473.726	517.292	562.213	579.500
32.5	501.518	454.511	432.600	457.073	506.581	556.588	576.182
35.0	489.867	436.943	412.079	439.420	494.966	549.988	572.204
37.5	477.459	418.399	390.864	420.912	482.522	542.229	566.885
40.0	464.320	399.440	368.782	401.917	469.188	533.469	560.224
42.5	450.619	379.945	346.626	382.482	455.206	524.502	552.965
45.0	436.748	359.961	324.178	362.743	440.554	515.426	544.803
47.5	423.011	339.636	301.584	342.674	425.804	505.226	535.543
50.0	408.981	319.237	278.977	322.519	411.604	493.649	524.539
52.5	394.597	299.144	256.456	302.389	397.696	480.790	511.522
55.0	380.054	279.429	234.203	282.479	383.361	466.796	497.199
57.5	365.292	260.189	212.329	263.069	368.574	451.656	482.046
60.0	350.396	241.804	190.979	244.232	353.519	435.528	465.906
62.5	335.476	224.614	170.129	226.005	338.282	418.680	448.082
65.0	320.494	208.657	150.084	209.084	322.580	401.392	429.294
67.5	305.366	193.516	130.955	193.895	306.708	383.702	410.396
70.0	290.177	179.096	112.826	179.730	291.116	365.793	391.901
72.5	275.122	165.493	95.514	166.298	275.842	347.871	373.052
75.0	260.275	153.073	79.166	153.488	260.836	330.108	353.641
77.5	245.708	141.300	63.940	141.154	245.818	312.369	333.975
80.0	231.361	130.089	49.715	129.564	231.129	294.703	315.370

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CANDELA TABULATION - (Cont.)

82.5	217.343	119.353	36.490	118.718	216.904	277.404	297.534
85.0	203.618	109.129	23.827	108.482	203.130	260.641	279.819
87.5	190.479	99.467	11.797	98.747	189.808	244.659	262.141
90.0	177.730	90.219	3.453	89.487	176.827	229.201	245.232
92.5	165.652	81.606	2.818	80.825	164.419	214.366	229.750
95.0	154.062	73.468	2.867	72.761	152.720	200.153	214.915
97.5	142.862	65.892	2.928	65.111	141.605	186.672	200.702
100.0	131.992	58.780	2.977	57.962	130.760	173.765	187.099
102.5	121.646	52.253	3.050	51.399	120.438	161.687	174.484
105.0	111.959	46.238	3.111	45.360	110.642	150.231	162.553
107.5	102.748	40.675	3.172	39.857	101.492	139.239	151.158
110.0	93.916	35.563	3.221	34.880	92.671	128.771	140.312
112.5	85.668	30.842	3.270	30.451	84.290	118.828	129.954
115.0	77.860	26.828	3.343	26.523	76.348	109.422	120.329
117.5	70.418	23.863	3.428	23.217	68.857	100.345	110.996
120.0	63.489	21.509	3.501	20.606	61.915	91.659	102.029
122.5	56.937	19.532	3.599	18.544	55.571	83.399	93.306
125.0	50.752	17.824	3.672	16.873	49.666	75.542	84.912
127.5	44.933	16.311	3.721	15.445	44.164	68.198	76.897
130.0	39.577	14.969	3.770	14.176	39.125	61.183	69.528
132.5	35.209	13.774	3.843	13.030	34.563	54.644	62.464
135.0	31.610	12.725	3.928	11.566	30.451	48.580	55.632
137.5	28.414	11.761	4.038	10.541	27.035	42.883	49.264
140.0	25.535	10.870	4.099	9.553	24.022	37.478	43.322
142.5	22.924	9.772	4.209	8.711	20.679	32.659	37.869
145.0	20.594	8.174	4.307	7.991	17.849	28.572	32.781
147.5	18.385	7.723	4.429	7.369	15.360	25.034	28.402
150.0	16.360	7.149	4.575	6.722	13.054	21.936	24.644
152.5	14.506	6.893	4.709	6.051	11.151	19.142	21.350
155.0	12.859	6.442	4.856	5.905	9.809	16.153	18.349
157.5	11.041	6.259	4.990	5.758	8.674	13.188	15.714
160.0	8.735	6.137	5.124	5.746	7.857	10.602	13.335
162.5	7.576	6.027	5.258	5.612	6.893	8.455	11.200
165.0	6.954	6.063	5.356	5.502	6.015	6.942	9.333
167.5	6.356	6.076	5.478	5.490	5.575	4.819	7.552
170.0	6.015	6.002	5.600	5.441	5.417	4.294	5.405
172.5	6.015	5.941	5.661	5.392	5.148	4.185	4.648
175.0	5.746	5.929	0.000	5.026	5.026	4.172	3.904
177.5	5.551	5.783	0.000	0.000	0.000	4.124	2.928
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	213.56	N.A.	8.20
0-30	460.31	N.A.	17.70
0-40	768.28	N.A.	29.60
0-60	1438.58	N.A.	55.40
0-80	1994.33	N.A.	76.80
0-90	2192.34	N.A.	84.40
10-90	2137.62	N.A.	82.30
20-40	554.72	N.A.	21.30
20-50	891.65	N.A.	34.30
40-70	972.41	N.A.	37.40
60-80	555.75	N.A.	21.40
70-80	253.63	N.A.	9.80
80-90	198.01	N.A.	7.60
90-110	250.56	N.A.	9.60
90-120	319.44	N.A.	12.30
90-130	362.02	N.A.	13.90
90-150	398.05	N.A.	15.30
90-180	405.97	N.A.	15.60
110-180	155.40	N.A.	6.00
0-180	2598.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.72
10-20	158.84
20-30	246.75
30-40	307.97
40-50	336.93
50-60	333.37
60-70	302.11
70-80	253.63
80-90	198.01
90-100	146.71
100-110	103.85
110-120	68.88
120-130	42.58
130-140	23.93
140-150	12.10
150-160	5.47
160-170	2.00
170-180	0.44

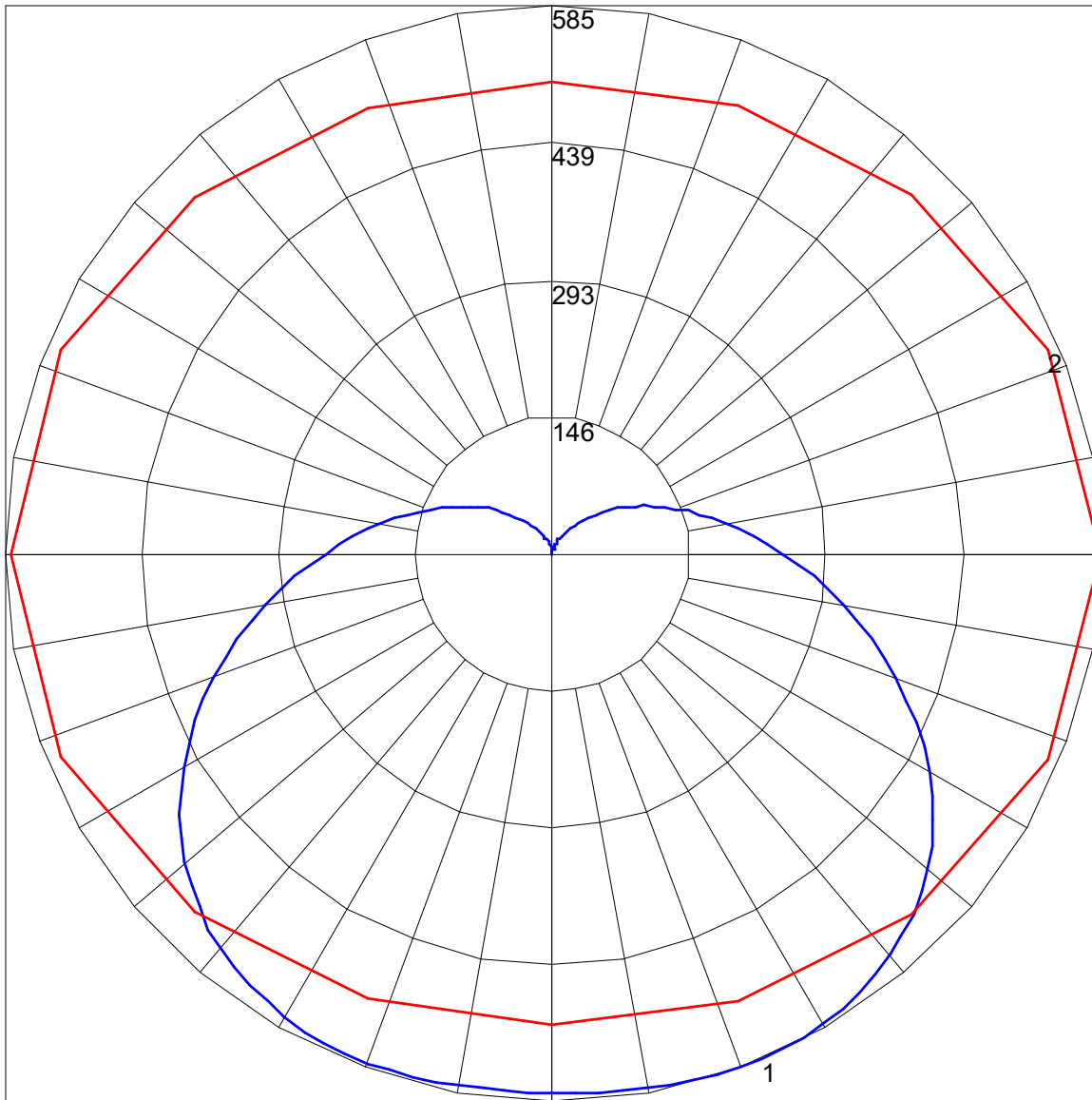
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	66	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 = 585.088 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.)