



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AERO-PRO-LED35-LO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] AERO-PRO-LED35-LO-SAL
 [TESTLAB] Intertek
 [ISSUE DATE] 11/20/19
 [MANUFAC] Prudential Lighting
 [_TOTALLUMINAIRELUMENS] 5029.4

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.56
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.19 ft
Luminous Height	0.19 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5022	4132	4495
55	4447	3836	4270
65	3819	3570	3982
75	3153	3345	3666
85	2220	3165	3370

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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	447.587	447.587	447.587	447.587	447.587	447.587	447.587	447.587	447.587	447.587
2.5	449.780	448.146	445.824	447.458	446.942	447.028	445.222	447.716	449.264	447.716
5.0	447.888	446.469	444.835	447.243	446.813	446.555	443.975	445.781	446.985	445.781
7.5	444.405	443.846	443.244	446.856	447.071	446.211	442.341	442.642	443.459	442.642
10.0	439.288	439.374	441.094	446.555	447.759	445.996	440.320	438.428	438.514	438.428
12.5	434.300	434.429	438.213	446.469	448.834	445.910	437.525	433.096	432.236	433.096
15.0	425.270	428.151	435.203	446.598	450.081	445.738	434.214	426.603	423.980	426.603
17.5	416.799	420.411	432.021	446.383	451.285	445.265	429.871	418.777	414.907	418.777
20.0	405.963	412.886	428.022	445.910	452.446	444.448	424.883	410.048	404.845	410.048
22.5	394.912	403.555	422.303	445.007	453.177	443.373	419.336	400.846	392.633	400.846
25.0	383.431	392.719	416.498	443.674	453.521	441.825	413.316	389.752	380.593	389.752
27.5	370.531	381.926	410.177	441.825	453.607	439.761	406.909	378.486	366.532	378.486
30.0	357.244	369.542	403.598	439.589	453.693	437.826	399.943	366.575	352.256	366.575
32.5	341.979	356.900	396.202	437.439	453.521	435.848	392.547	353.890	336.819	353.890
35.0	325.725	343.570	388.118	434.902	453.263	433.741	384.936	340.560	321.081	340.560
37.5	309.901	329.939	380.249	432.150	452.489	430.903	376.852	326.714	304.655	326.714
40.0	293.690	315.921	372.165	429.097	450.640	427.377	368.596	312.438	287.799	312.438
42.5	276.791	301.301	363.651	425.098	447.630	423.077	359.824	297.431	270.642	297.431
45.0	259.290	286.552	354.621	419.895	443.373	417.788	351.052	282.553	253.614	282.553
47.5	242.262	271.588	345.505	413.617	437.826	411.553	341.936	267.675	236.328	267.675
50.0	225.363	256.538	335.959	406.135	431.118	404.329	332.648	252.754	218.741	252.754
52.5	207.561	241.574	325.940	397.879	423.378	396.374	323.016	237.962	201.283	237.962
55.0	189.802	226.997	315.706	388.892	414.735	387.559	312.911	223.772	183.997	223.772
57.5	173.075	212.979	304.999	379.131	404.802	377.841	301.559	210.227	167.055	210.227
60.0	156.735	199.563	294.120	368.424	393.708	367.091	289.863	196.983	150.500	196.983
62.5	140.051	186.706	283.198	356.771	381.840	355.094	278.468	184.298	134.375	184.298
65.0	123.883	174.494	272.276	344.473	369.026	342.237	267.202	172.258	118.680	172.258
67.5	109.005	163.099	261.225	331.831	355.524	328.606	255.721	159.788	103.501	159.788
70.0	94.514	152.177	249.959	318.888	341.463	315.018	244.025	147.576	89.053	147.576
72.5	80.195	141.685	238.607	305.386	327.445	301.129	232.544	136.482	75.465	136.482
75.0	66.865	131.795	227.212	291.927	313.126	287.670	221.966	126.463	62.565	126.463
77.5	54.567	122.378	215.688	278.081	298.119	274.039	211.001	117.605	50.267	117.605
80.0	42.785	113.305	204.164	264.321	283.241	260.365	199.864	109.134	38.614	109.134
82.5	31.390	104.447	192.984	250.776	268.707	246.863	188.899	100.749	27.649	100.749
85.0	20.726	96.019	182.019	237.661	254.603	233.576	178.235	92.751	17.372	92.751
87.5	10.793	87.978	171.183	224.675	240.671	220.590	167.829	85.097	7.654	85.097
90.0	0.000	80.152	160.562	211.861	226.868	208.292	157.595	77.701	0.000	77.701
92.5	0.000	72.885	150.457	199.520	213.495	196.252	147.748	70.778	0.000	70.778
95.0	0.000	66.005	140.610	187.523	200.466	184.556	138.245	64.199	0.000	64.199
97.5	0.000	59.555	131.064	176.042	188.082	173.247	128.914	57.921	0.000	57.921
100.0	0.000	53.449	121.819	164.905	176.171	162.540	119.884	51.901	0.000	51.901
102.5	0.000	47.214	112.875	154.155	164.733	152.005	111.241	45.795	0.000	45.795
105.0	0.000	40.334	104.275	143.878	153.682	141.943	102.899	39.173	0.000	39.173
107.5	0.000	34.314	96.019	133.859	143.147	132.354	94.772	33.282	0.000	33.282
110.0	0.000	29.369	87.935	124.313	132.784	122.980	86.774	27.520	0.000	27.520
112.5	0.000	25.284	79.636	115.111	122.937	113.907	77.959	22.403	0.000	22.403
115.0	0.000	21.801	71.208	106.253	113.606	105.049	66.994	18.232	0.000	18.232
117.5	0.000	18.877	62.909	97.223	104.533	96.191	55.986	14.964	0.000	14.964
120.0	0.000	16.469	55.427	88.021	95.503	86.989	46.655	12.556	0.000	12.556
122.5	0.000	14.534	48.762	78.733	86.645	77.658	39.044	10.707	0.000	10.707
125.0	0.000	12.857	42.914	69.789	78.088	67.897	32.938	9.460	0.000	9.460
127.5	0.000	11.567	37.754	61.791	69.445	57.448	27.907	8.600	0.000	8.600
130.0	0.000	10.492	33.110	54.567	61.490	47.902	23.392	8.127	0.000	8.127
132.5	0.000	9.460	28.939	48.074	54.266	39.818	19.651	7.654	0.000	7.654

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135.0	0.000	8.643	25.241	42.183	47.730	33.067	16.512	7.224	0.000	7.224
137.5	0.000	7.912	22.188	36.722	41.839	26.832	14.534	6.837	0.000	6.837
140.0	0.000	7.224	19.350	31.906	36.163	22.059	13.244	6.493	0.000	6.493
142.5	0.000	6.579	16.813	27.434	31.304	18.275	12.040	6.149	0.000	6.149
145.0	0.000	6.106	14.964	23.736	26.746	15.308	11.094	5.805	0.000	5.805
147.5	0.000	5.719	13.158	20.253	22.962	12.384	10.062	5.504	0.000	5.504
150.0	0.000	5.375	11.309	17.157	19.178	10.191	8.987	5.246	0.000	5.246
152.5	0.000	5.203	9.847	14.749	16.082	8.944	8.127	5.117	0.000	5.117
155.0	0.000	4.988	8.643	12.255	13.631	7.525	7.396	4.945	0.000	4.945
157.5	0.000	4.859	7.568	10.234	11.008	6.364	6.665	4.902	0.000	4.902
160.0	0.000	4.773	6.536	8.729	8.987	5.547	5.891	4.816	0.000	4.816
162.5	0.000	4.730	5.762	7.353	7.009	5.117	5.332	4.773	0.000	4.773
165.0	0.000	4.644	5.289	6.106	0.000	4.558	4.988	4.687	0.000	4.687
167.5	0.000	4.687	5.117	5.289	0.000	4.214	4.859	4.730	0.000	4.730
170.0	0.000	4.945	4.988	4.859	0.000	0.000	4.773	4.773	0.000	4.773
172.5	0.000	4.988	4.902	4.558	0.000	0.000	4.644	4.730	0.000	4.730
175.0	0.000	4.945	4.773	4.257	0.000	0.000	4.472	4.644	0.000	4.644
177.5	0.000	4.816	4.515	0.000	0.000	0.000	4.257	4.515	0.000	4.515
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	447.587	447.587	447.587	447.587	447.587	447.587	447.587
2.5	445.222	447.028	446.942	447.458	445.824	448.146	449.780
5.0	443.975	446.555	446.813	447.243	444.835	446.469	447.888
7.5	442.341	446.211	447.071	446.856	443.244	443.846	444.405
10.0	440.320	445.996	447.759	446.555	441.094	439.374	439.288
12.5	437.525	445.910	448.834	446.469	438.213	434.429	434.300
15.0	434.214	445.738	450.081	446.598	435.203	428.151	425.270
17.5	429.871	445.265	451.285	446.383	432.021	420.411	416.799
20.0	424.883	444.448	452.446	445.910	428.022	412.886	405.963
22.5	419.336	443.373	453.177	445.007	422.303	403.555	394.912
25.0	413.316	441.825	453.521	443.674	416.498	392.719	383.431
27.5	406.909	439.761	453.607	441.825	410.177	381.926	370.531
30.0	399.943	437.826	453.693	439.589	403.598	369.542	357.244
32.5	392.547	435.848	453.521	437.439	396.202	356.900	341.979
35.0	384.936	433.741	453.263	434.902	388.118	343.570	325.725
37.5	376.852	430.903	452.489	432.150	380.249	329.939	309.901
40.0	368.596	427.377	450.640	429.097	372.165	315.921	293.690
42.5	359.824	423.077	447.630	425.098	363.651	301.301	276.791
45.0	351.052	417.788	443.373	419.895	354.621	286.552	259.290
47.5	341.936	411.553	437.826	413.617	345.505	271.588	242.262
50.0	332.648	404.329	431.118	406.135	335.959	256.538	225.363
52.5	323.016	396.374	423.378	397.879	325.940	241.574	207.561
55.0	312.911	387.559	414.735	388.892	315.706	226.997	189.802
57.5	301.559	377.841	404.802	379.131	304.999	212.979	173.075
60.0	289.863	367.091	393.708	368.424	294.120	199.563	156.735
62.5	278.468	355.094	381.840	356.771	283.198	186.706	140.051
65.0	267.202	342.237	369.026	344.473	272.276	174.494	123.883
67.5	255.721	328.606	355.524	331.831	261.225	163.099	109.005
70.0	244.025	315.018	341.463	318.888	249.959	152.177	94.514
72.5	232.544	301.129	327.445	305.386	238.607	141.685	80.195
75.0	221.966	287.670	313.126	291.927	227.212	131.795	66.865
77.5	211.001	274.039	298.119	278.081	215.688	122.378	54.567
80.0	199.864	260.365	283.241	264.321	204.164	113.305	42.785

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82.5	188.899	246.863	268.707	250.776	192.984	104.447	31.390
85.0	178.235	233.576	254.603	237.661	182.019	96.019	20.726
87.5	167.829	220.590	240.671	224.675	171.183	87.978	10.793
90.0	157.595	208.292	226.868	211.861	160.562	80.152	0.000
92.5	147.748	196.252	213.495	199.520	150.457	72.885	0.000
95.0	138.245	184.556	200.466	187.523	140.610	66.005	0.000
97.5	128.914	173.247	188.082	176.042	131.064	59.555	0.000
100.0	119.884	162.540	176.171	164.905	121.819	53.449	0.000
102.5	111.241	152.005	164.733	154.155	112.875	47.214	0.000
105.0	102.899	141.943	153.682	143.878	104.275	40.334	0.000
107.5	94.772	132.354	143.147	133.859	96.019	34.314	0.000
110.0	86.774	122.980	132.784	124.313	87.935	29.369	0.000
112.5	77.959	113.907	122.937	115.111	79.636	25.284	0.000
115.0	66.994	105.049	113.606	106.253	71.208	21.801	0.000
117.5	55.986	96.191	104.533	97.223	62.909	18.877	0.000
120.0	46.655	86.989	95.503	88.021	55.427	16.469	0.000
122.5	39.044	77.658	86.645	78.733	48.762	14.534	0.000
125.0	32.938	67.897	78.088	69.789	42.914	12.857	0.000
127.5	27.907	57.448	69.445	61.791	37.754	11.567	0.000
130.0	23.392	47.902	61.490	54.567	33.110	10.492	0.000
132.5	19.651	39.818	54.266	48.074	28.939	9.460	0.000
135.0	16.512	33.067	47.730	42.183	25.241	8.643	0.000
137.5	14.534	26.832	41.839	36.722	22.188	7.912	0.000
140.0	13.244	22.059	36.163	31.906	19.350	7.224	0.000
142.5	12.040	18.275	31.304	27.434	16.813	6.579	0.000
145.0	11.094	15.308	26.746	23.736	14.964	6.106	0.000
147.5	10.062	12.384	22.962	20.253	13.158	5.719	0.000
150.0	8.987	10.191	19.178	17.157	11.309	5.375	0.000
152.5	8.127	8.944	16.082	14.749	9.847	5.203	0.000
155.0	7.396	7.525	13.631	12.255	8.643	4.988	0.000
157.5	6.665	6.364	11.008	10.234	7.568	4.859	0.000
160.0	5.891	5.547	8.987	8.729	6.536	4.773	0.000
162.5	5.332	5.117	7.009	7.353	5.762	4.730	0.000
165.0	4.988	4.558	0.000	6.106	5.289	4.644	0.000
167.5	4.859	4.214	0.000	5.289	5.117	4.687	0.000
170.0	4.773	0.000	0.000	4.859	4.988	4.945	0.000
172.5	4.644	0.000	0.000	4.558	4.902	4.988	0.000
175.0	4.472	0.000	0.000	4.257	4.773	4.945	0.000
177.5	4.257	0.000	0.000	0.000	4.515	4.816	0.000
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	165.83	N.A.	7.70
0-30	358.17	N.A.	16.60
0-40	601.23	N.A.	27.80
0-60	1147.72	N.A.	53.10
0-80	1623.45	N.A.	75.10
0-90	1800.11	N.A.	83.30
10-90	1757.65	N.A.	81.40
20-40	435.39	N.A.	20.20
20-50	706.92	N.A.	32.70
40-70	802.12	N.A.	37.10
60-80	475.72	N.A.	22.00
70-80	220.10	N.A.	10.20
80-90	176.67	N.A.	8.20
90-110	230.61	N.A.	10.70
90-120	293.37	N.A.	13.60
90-130	329.01	N.A.	15.20
90-150	355.20	N.A.	16.40
90-180	360.23	N.A.	16.70
110-180	129.61	N.A.	6.00
0-180	2160.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.47
10-20	123.37
20-30	192.34
30-40	243.05
40-50	271.53
50-60	274.97
60-70	255.62
70-80	220.10
80-90	176.67
90-100	134.19
100-110	96.42
110-120	62.75
120-130	35.64
130-140	17.88
140-150	8.32
150-160	3.53
160-170	1.23
170-180	0.27

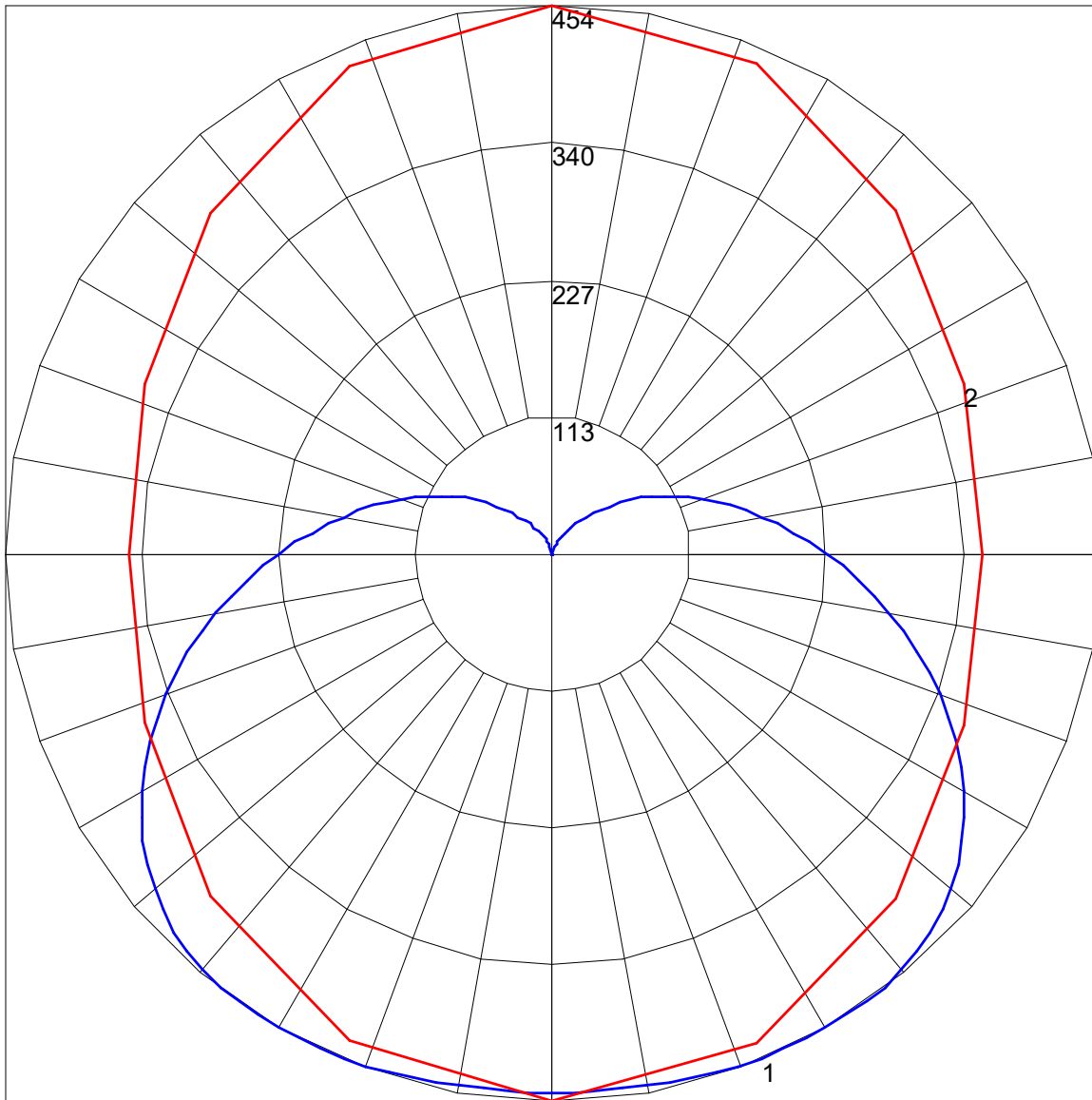
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	101	95	90	85	97	91	86	82	84	80	76	77	74	71	71	68	66	62
2	91	81	73	66	87	78	71	64	71	65	60	66	61	56	60	56	53	49
3	82	70	61	54	78	67	59	52	62	55	49	57	51	46	52	47	43	40
4	75	62	52	45	71	59	50	43	54	47	41	50	44	39	46	41	36	33
5	68	55	45	38	65	52	43	37	48	41	35	45	38	33	41	36	31	28
6	63	49	39	33	60	47	38	32	43	36	30	40	34	29	37	31	27	24
7	58	44	35	28	55	42	34	28	39	32	26	36	30	25	34	28	24	21
8	54	40	31	25	51	39	30	24	36	29	23	33	27	22	31	25	21	19
9	50	37	28	22	48	35	27	22	33	26	21	31	24	20	28	23	19	17
10	47	34	25	20	45	32	25	20	30	23	19	28	22	18	26	21	17	15

POLAR GRAPH



Maximum Candela = 453.693 Located At Horizontal Angle = 90, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)