



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3693
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	26
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	8585	7063	7684
55	7601	6557	7298
65	6528	6102	6806
75	5389	5718	6266
85	3795	5410	5760

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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	765.062	765.062	765.062	765.062	765.062	765.062	765.062	765.062	765.062	765.062
2.5	768.810	766.017	762.048	764.841	763.959	764.106	761.019	765.282	767.928	765.282
5.0	765.576	763.151	760.358	764.474	763.739	763.298	758.888	761.975	764.033	761.975
7.5	759.623	758.667	757.638	763.812	764.180	762.710	756.095	756.609	758.006	756.609
10.0	750.876	751.023	753.963	763.298	765.356	762.342	752.640	749.406	749.553	749.406
12.5	742.350	742.571	749.039	763.151	767.193	762.195	747.863	740.292	738.822	740.292
15.0	726.915	731.840	743.894	763.371	769.325	761.901	742.203	729.194	724.710	729.194
17.5	712.436	718.610	738.455	763.004	771.383	761.093	734.780	715.817	709.202	715.817
20.0	693.914	705.747	731.619	762.195	773.367	759.696	726.254	700.896	692.003	700.896
22.5	675.024	689.798	721.844	760.652	774.617	757.859	716.772	685.167	671.129	685.167
25.0	655.400	671.276	711.921	758.373	775.205	755.213	706.482	666.204	650.549	666.204
27.5	633.350	652.827	701.117	755.213	775.352	751.685	695.531	646.947	626.514	646.947
30.0	610.638	631.659	689.871	751.391	775.499	748.377	683.624	626.588	602.112	626.588
32.5	584.546	610.050	677.229	747.716	775.205	744.996	670.982	604.905	575.726	604.905
35.0	556.763	587.265	663.411	743.379	774.764	741.395	657.972	582.120	548.825	582.120
37.5	529.715	563.966	649.961	738.675	773.441	736.544	644.154	558.453	520.748	558.453
40.0	502.005	540.005	636.143	733.457	770.280	730.517	630.042	534.051	491.936	534.051
42.5	473.120	515.015	621.590	726.621	765.135	723.167	615.048	508.400	462.609	508.400
45.0	443.205	489.804	606.155	717.728	757.859	714.126	600.054	482.969	433.503	482.969
47.5	414.099	464.226	590.573	706.997	748.377	703.469	584.472	457.538	403.956	457.538
50.0	385.214	438.501	574.256	694.208	736.911	691.121	568.596	432.033	373.895	432.033
52.5	354.785	412.923	557.130	680.096	723.681	677.523	552.132	406.749	344.054	406.749
55.0	324.429	388.007	539.637	664.734	708.908	662.456	534.860	382.494	314.507	382.494
57.5	295.838	364.046	521.336	648.050	691.929	645.845	515.456	359.342	285.548	359.342
60.0	267.908	341.114	502.740	629.748	672.966	627.470	495.464	336.704	257.250	336.704
62.5	239.390	319.137	484.071	609.830	652.680	606.963	475.986	315.021	229.688	315.021
65.0	211.754	298.263	465.402	588.809	630.777	584.987	456.729	294.441	202.860	294.441
67.5	186.323	278.786	446.513	567.200	607.698	561.687	437.105	273.126	176.915	273.126
70.0	161.553	260.117	427.256	545.076	583.664	538.461	417.113	252.252	152.219	252.252
72.5	137.078	242.183	407.852	521.997	559.703	514.721	397.488	233.289	128.993	233.289
75.0	114.293	225.278	388.374	498.992	535.227	491.715	379.407	216.164	106.943	216.164
77.5	93.272	209.181	368.676	475.325	509.576	468.416	360.665	201.023	85.922	201.023
80.0	73.133	193.673	348.978	451.805	484.145	445.043	341.628	186.543	66.003	186.543
82.5	53.655	178.532	329.868	428.652	459.302	421.964	322.886	172.211	47.261	172.211
85.0	35.427	164.126	311.126	406.235	435.194	399.252	304.658	158.540	29.694	158.540
87.5	18.449	150.381	292.604	384.038	411.380	377.055	286.871	145.457	13.083	145.457
90.0	0.000	137.004	274.449	362.135	387.786	356.034	269.378	132.815	0.000	132.815
92.5	0.000	124.583	257.177	341.040	364.928	335.454	252.546	120.981	0.000	120.981
95.0	0.000	112.823	240.345	320.534	342.657	315.462	236.303	109.736	0.000	109.736
97.5	0.000	101.798	224.028	300.909	321.489	296.132	220.353	99.005	0.000	99.005
100.0	0.000	91.361	208.226	281.873	301.130	277.830	204.918	88.715	0.000	88.715
102.5	0.000	80.703	192.938	263.498	281.579	259.823	190.145	78.278	0.000	78.278
105.0	0.000	68.943	178.238	245.931	262.689	242.624	175.886	66.959	0.000	66.959
107.5	0.000	58.653	164.126	228.806	244.682	226.233	161.994	56.889	0.000	56.889
110.0	0.000	50.201	150.308	212.489	226.968	210.210	148.323	47.040	0.000	47.040
112.5	0.000	43.218	136.122	196.760	210.137	194.702	133.256	38.294	0.000	38.294
115.0	0.000	37.265	121.716	181.619	194.187	179.561	114.513	31.164	0.000	31.164
117.5	0.000	32.267	107.531	166.184	178.679	164.420	95.697	25.578	0.000	25.578
120.0	0.000	28.151	94.742	150.455	163.244	148.691	79.748	21.462	0.000	21.462
122.5	0.000	24.843	83.349	134.579	148.103	132.741	66.738	18.302	0.000	18.302
125.0	0.000	21.977	73.353	119.291	133.476	116.057	56.301	16.170	0.000	16.170
127.5	0.000	19.772	64.533	105.620	118.703	98.196	47.702	14.700	0.000	14.700
130.0	0.000	17.934	56.595	93.272	105.105	81.879	39.984	13.892	0.000	13.892
132.5	0.000	16.170	49.466	82.173	92.757	68.061	33.590	13.083	0.000	13.083

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135.0	0.000	14.774	43.145	72.104	81.585	56.522	28.224	12.348	0.000	12.348
137.5	0.000	13.524	37.926	62.769	71.516	45.864	24.843	11.687	0.000	11.687
140.0	0.000	12.348	33.075	54.537	61.814	37.706	22.638	11.099	0.000	11.099
142.5	0.000	11.246	28.739	46.893	53.508	31.238	20.580	10.511	0.000	10.511
145.0	0.000	10.437	25.578	40.572	45.717	26.166	18.963	9.923	0.000	9.923
147.5	0.000	9.776	22.491	34.619	39.249	21.168	17.199	9.408	0.000	9.408
150.0	0.000	9.188	19.331	29.327	32.781	17.420	15.362	8.967	0.000	8.967
152.5	0.000	8.894	16.832	25.211	27.489	15.288	13.892	8.747	0.000	8.747
155.0	0.000	8.526	14.774	20.948	23.300	12.863	12.642	8.453	0.000	8.453
157.5	0.000	8.306	12.936	17.493	18.816	10.878	11.393	8.379	0.000	8.379
160.0	0.000	8.159	11.172	14.921	15.362	9.482	10.070	8.232	0.000	8.232
162.5	0.000	8.085	9.849	12.569	11.981	8.747	9.114	8.159	0.000	8.159
165.0	0.000	7.938	9.041	10.437	0.000	7.791	8.526	8.012	0.000	8.012
167.5	0.000	8.012	8.747	9.041	0.000	7.203	8.306	8.085	0.000	8.085
170.0	0.000	8.453	8.526	8.306	0.000	0.000	8.159	8.159	0.000	8.159
172.5	0.000	8.526	8.379	7.791	0.000	0.000	7.938	8.085	0.000	8.085
175.0	0.000	8.453	8.159	7.277	0.000	0.000	7.644	7.938	0.000	7.938
177.5	0.000	8.232	7.718	0.000	0.000	0.000	7.277	7.718	0.000	7.718
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	765.062	765.062	765.062	765.062	765.062	765.062	765.062
2.5	761.019	764.106	763.959	764.841	762.048	766.017	768.810
5.0	758.888	763.298	763.739	764.474	760.358	763.151	765.576
7.5	756.095	762.710	764.180	763.812	757.638	758.667	759.623
10.0	752.640	762.342	765.356	763.298	753.963	751.023	750.876
12.5	747.863	762.195	767.193	763.151	749.039	742.571	742.350
15.0	742.203	761.901	769.325	763.371	743.894	731.840	726.915
17.5	734.780	761.093	771.383	763.004	738.455	718.610	712.436
20.0	726.254	759.696	773.367	762.195	731.619	705.747	693.914
22.5	716.772	757.859	774.617	760.652	721.844	689.798	675.024
25.0	706.482	755.213	775.205	758.373	711.921	671.276	655.400
27.5	695.531	751.685	775.352	755.213	701.117	652.827	633.350
30.0	683.624	748.377	775.499	751.391	689.871	631.659	610.638
32.5	670.982	744.996	775.205	747.716	677.229	610.050	584.546
35.0	657.972	741.395	774.764	743.379	663.411	587.265	556.763
37.5	644.154	736.544	773.441	738.675	649.961	563.966	529.715
40.0	630.042	730.517	770.280	733.457	636.143	540.005	502.005
42.5	615.048	723.167	765.135	726.621	621.590	515.015	473.120
45.0	600.054	714.126	757.859	717.728	606.155	489.804	443.205
47.5	584.472	703.469	748.377	706.997	590.573	464.226	414.099
50.0	568.596	691.121	736.911	694.208	574.256	438.501	385.214
52.5	552.132	677.523	723.681	680.096	557.130	412.923	354.785
55.0	534.860	662.456	708.908	664.734	539.637	388.007	324.429
57.5	515.456	645.845	691.929	648.050	521.336	364.046	295.838
60.0	495.464	627.470	672.966	629.748	502.740	341.114	267.908
62.5	475.986	606.963	652.680	609.830	484.071	319.137	239.390
65.0	456.729	584.987	630.777	588.809	465.402	298.263	211.754
67.5	437.105	561.687	607.698	567.200	446.513	278.786	186.323
70.0	417.113	538.461	583.664	545.076	427.256	260.117	161.553
72.5	397.488	514.721	559.703	521.997	407.852	242.183	137.078
75.0	379.407	491.715	535.227	498.992	388.374	225.278	114.293
77.5	360.665	468.416	509.576	475.325	368.676	209.181	93.272
80.0	341.628	445.043	484.145	451.805	348.978	193.673	73.133

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CANDELA TABULATION - (Cont.)

82.5	322.886	421.964	459.302	428.652	329.868	178.532	53.655
85.0	304.658	399.252	435.194	406.235	311.126	164.126	35.427
87.5	286.871	377.055	411.380	384.038	292.604	150.381	18.449
90.0	269.378	356.034	387.786	362.135	274.449	137.004	0.000
92.5	252.546	335.454	364.928	341.040	257.177	124.583	0.000
95.0	236.303	315.462	342.657	320.534	240.345	112.823	0.000
97.5	220.353	296.132	321.489	300.909	224.028	101.798	0.000
100.0	204.918	277.830	301.130	281.873	208.226	91.361	0.000
102.5	190.145	259.823	281.579	263.498	192.938	80.703	0.000
105.0	175.886	242.624	262.689	245.931	178.238	68.943	0.000
107.5	161.994	226.233	244.682	228.806	164.126	58.653	0.000
110.0	148.323	210.210	226.968	212.489	150.308	50.201	0.000
112.5	133.256	194.702	210.137	196.760	136.122	43.218	0.000
115.0	114.513	179.561	194.187	181.619	121.716	37.265	0.000
117.5	95.697	164.420	178.679	166.184	107.531	32.267	0.000
120.0	79.748	148.691	163.244	150.455	94.742	28.151	0.000
122.5	66.738	132.741	148.103	134.579	83.349	24.843	0.000
125.0	56.301	116.057	133.476	119.291	73.353	21.977	0.000
127.5	47.702	98.196	118.703	105.620	64.533	19.772	0.000
130.0	39.984	81.879	105.105	93.272	56.595	17.934	0.000
132.5	33.590	68.061	92.757	82.173	49.466	16.170	0.000
135.0	28.224	56.522	81.585	72.104	43.145	14.774	0.000
137.5	24.843	45.864	71.516	62.769	37.926	13.524	0.000
140.0	22.638	37.706	61.814	54.537	33.075	12.348	0.000
142.5	20.580	31.238	53.508	46.893	28.739	11.246	0.000
145.0	18.963	26.166	45.717	40.572	25.578	10.437	0.000
147.5	17.199	21.168	39.249	34.619	22.491	9.776	0.000
150.0	15.362	17.420	32.781	29.327	19.331	9.188	0.000
152.5	13.892	15.288	27.489	25.211	16.832	8.894	0.000
155.0	12.642	12.863	23.300	20.948	14.774	8.526	0.000
157.5	11.393	10.878	18.816	17.493	12.936	8.306	0.000
160.0	10.070	9.482	15.362	14.921	11.172	8.159	0.000
162.5	9.114	8.747	11.981	12.569	9.849	8.085	0.000
165.0	8.526	7.791	0.000	10.437	9.041	7.938	0.000
167.5	8.306	7.203	0.000	9.041	8.747	8.012	0.000
170.0	8.159	0.000	0.000	8.306	8.526	8.453	0.000
172.5	7.938	0.000	0.000	7.791	8.379	8.526	0.000
175.0	7.644	0.000	0.000	7.277	8.159	8.453	0.000
177.5	7.277	0.000	0.000	0.000	7.718	8.232	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	283.46	N.A.	7.70
0-30	612.23	N.A.	16.60
0-40	1027.68	N.A.	27.80
0-60	1961.81	N.A.	53.10
0-80	2774.96	N.A.	75.10
0-90	3076.94	N.A.	83.30
10-90	3004.35	N.A.	81.40
20-40	744.22	N.A.	20.20
20-50	1208.34	N.A.	32.70
40-70	1371.07	N.A.	37.10
60-80	813.16	N.A.	22.00
70-80	376.22	N.A.	10.20
80-90	301.98	N.A.	8.20
90-110	394.19	N.A.	10.70
90-120	501.46	N.A.	13.60
90-130	562.37	N.A.	15.20
90-150	607.15	N.A.	16.40
90-180	615.74	N.A.	16.70
110-180	221.55	N.A.	6.00
0-180	3692.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.59
10-20	210.87
20-30	328.77
30-40	415.45
40-50	464.12
50-60	470.01
60-70	436.94
70-80	376.22
80-90	301.98
90-100	229.37
100-110	164.82
110-120	107.27
120-130	60.91
130-140	30.56
140-150	14.22
150-160	6.04
160-170	2.10
170-180	0.45

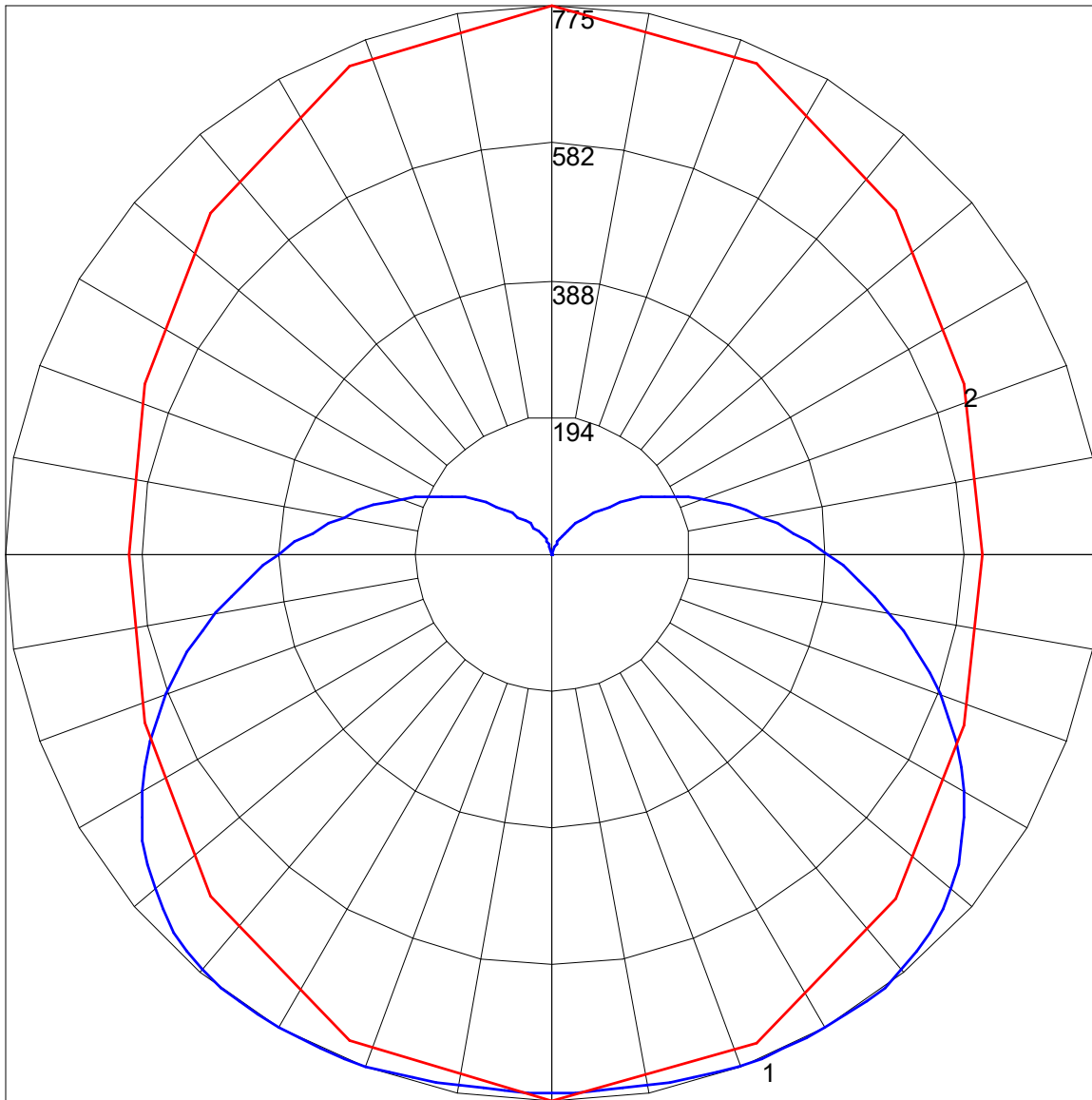
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 775.499 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.)