



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AIWP33-4-L11-835-S-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13362254.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 3-JUN-2020

[MANUFAC] H E Williams Inc

[LUMCAT] AIWP33-4-L11/835-S-DIM-UNV

[LUMINAIRE] Formed white steel housing, prismatic lens enclosure

[LAMP] 112 White LEDs

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4471
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	37.5
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.29 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4107	3147	1483
55	4830	3475	1190
65	5833	3907	878
75	7835	4681	715
85	17160	8676	833

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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>
0.0	208.814	208.814	208.814	208.814	208.814	208.814	208.814	208.814	208.814
0.5	206.987	210.185	209.842	210.985	212.698	209.271	206.644	205.958	202.988
1.0	209.043	212.355	211.327	211.784	212.698	208.357	204.930	203.674	200.932
1.5	210.985	214.412	212.927	212.584	212.698	207.444	203.217	201.618	198.876
2.0	213.041	216.582	214.526	213.384	212.584	206.415	201.503	199.447	196.820
2.5	215.097	218.638	215.897	214.183	212.470	205.502	199.790	197.163	194.878
3.0	217.039	220.809	217.382	214.869	212.355	204.473	198.077	195.107	192.708
3.5	219.095	222.865	218.867	215.554	212.241	203.560	196.363	192.822	190.766
4.0	221.151	224.921	220.352	216.239	212.013	202.417	194.535	190.652	188.595
4.5	223.093	226.977	221.837	216.925	211.784	201.389	192.822	188.481	186.425
5.0	225.264	228.919	223.207	217.496	211.556	200.247	190.994	186.197	184.483
5.5	227.320	230.975	224.578	218.067	211.327	199.105	189.167	184.026	182.313
6.0	229.604	233.031	225.949	218.638	210.985	197.962	187.339	181.856	180.257
6.5	231.775	234.859	227.320	219.209	210.528	196.820	185.511	179.685	178.200
7.0	234.059	236.801	228.576	219.780	210.185	195.678	183.683	177.401	176.144
7.5	236.230	238.857	229.947	220.237	209.842	194.421	181.856	175.116	173.974
8.0	238.400	240.685	231.204	220.694	209.385	193.165	180.028	172.946	172.032
8.5	240.570	242.512	232.460	221.037	208.929	192.022	178.200	170.661	169.862
9.0	242.741	244.340	233.602	221.494	208.357	190.766	176.258	168.491	167.805
9.5	244.797	246.168	234.745	221.951	207.900	189.509	174.431	166.320	165.749
10.0	246.739	247.881	236.001	222.179	207.329	188.253	172.603	164.150	163.693
10.5	248.795	249.595	237.029	222.522	206.872	186.882	170.775	161.865	161.523
11.0	250.737	251.308	238.172	222.865	206.187	185.625	168.833	159.695	159.466
11.5	252.565	253.022	239.200	223.093	205.616	184.255	166.891	157.525	157.296
12.0	254.507	254.735	240.228	223.322	204.930	182.770	164.950	155.354	155.126
12.5	256.334	256.220	241.256	223.550	204.245	181.399	163.122	153.184	152.955
13.0	258.276	257.934	242.170	223.664	203.560	180.028	161.180	151.013	150.785
13.5	260.104	259.419	243.198	223.779	202.874	178.657	159.238	148.843	148.615
14.0	261.932	260.904	243.997	223.893	202.075	177.172	157.296	146.787	146.330
14.5	263.645	262.503	245.025	224.007	201.389	175.687	155.354	144.502	144.274
15.0	265.473	263.988	245.825	224.121	200.590	174.202	153.412	142.446	142.103
15.5	267.301	265.473	246.625	224.121	199.790	172.717	151.470	140.276	139.933
16.0	269.128	266.958	247.424	224.121	199.105	171.118	149.528	138.105	137.648
16.5	270.842	268.329	248.110	224.007	198.191	169.633	147.586	135.935	135.478
17.0	272.555	269.699	248.909	224.007	197.391	168.034	145.530	133.765	133.422
17.5	274.269	271.070	249.595	223.893	196.592	166.435	143.588	131.594	131.137
18.0	275.982	272.327	250.280	223.779	195.678	164.950	141.646	129.538	128.967
18.5	277.581	273.583	250.966	223.664	194.764	163.350	139.705	127.368	126.796
19.0	279.181	274.840	251.651	223.550	193.850	161.751	137.763	125.197	124.512
19.5	280.666	275.982	252.336	223.436	192.936	160.152	135.706	123.141	122.227
20.0	282.493	277.124	252.793	223.207	191.908	158.553	133.765	120.971	119.943
20.5	284.207	278.267	253.364	222.979	190.880	156.839	131.823	118.914	117.658
21.0	285.806	279.409	253.936	222.865	189.966	155.240	129.881	116.858	115.488
21.5	287.177	280.666	254.507	222.522	188.824	153.526	127.824	114.688	113.203
22.0	288.548	281.694	254.964	222.294	187.796	151.813	125.883	112.632	110.918
22.5	289.918	282.722	255.535	221.951	186.653	150.214	123.941	110.576	108.634
23.0	291.518	283.864	255.992	221.608	185.511	148.386	121.884	108.634	106.463
23.5	292.888	284.892	256.334	221.380	184.369	146.673	119.828	106.578	104.179
24.0	294.488	286.034	256.791	220.923	183.112	144.959	117.886	104.636	101.894
24.5	295.973	287.063	257.248	220.580	181.856	143.131	115.944	102.579	99.838
25.0	297.229	288.091	257.591	220.237	180.713	141.418	114.003	100.638	97.553
25.5	298.371	289.119	257.934	219.780	179.457	139.590	112.061	98.581	95.269
26.0	299.628	290.033	258.162	219.438	178.200	137.763	110.119	96.525	93.098
26.5	300.770	290.946	258.391	218.981	176.830	136.049	108.177	94.583	90.928

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CANDELA TABULATION - (Cont.)

27.0	302.141	291.746	258.619	218.295	175.459	134.107	106.121	92.527	88.872
27.5	303.398	292.546	258.847	217.724	174.088	132.280	104.179	90.471	86.587
28.0	304.654	293.459	259.076	217.039	172.717	130.452	102.123	88.529	84.531
28.5	305.682	294.259	259.304	216.354	171.347	128.624	100.181	86.473	82.361
29.0	306.368	295.173	259.533	215.782	169.976	126.796	98.239	84.531	80.304
29.5	307.053	295.973	259.419	214.983	168.376	124.854	96.297	82.475	78.248
30.0	307.853	296.658	259.190	214.297	167.006	123.027	94.241	80.533	76.192
30.5	308.652	296.886	259.076	213.498	165.406	121.085	92.413	78.591	74.136
31.0	309.566	297.229	259.076	212.812	163.921	119.143	90.357	76.649	72.080
31.5	310.480	297.686	259.190	212.013	162.436	117.315	88.415	74.707	70.138
32.0	311.051	298.257	259.533	211.099	160.837	115.373	86.473	72.651	68.196
32.5	311.508	299.171	259.876	210.414	159.352	113.431	84.531	70.823	66.254
33.0	312.079	299.971	259.990	209.500	157.639	111.489	82.475	68.881	64.312
33.5	312.764	300.542	259.647	208.472	156.154	109.548	80.533	66.939	62.370
34.0	313.450	300.428	258.505	207.329	154.326	107.720	78.591	64.997	60.542
34.5	314.249	299.742	257.705	206.073	152.727	105.778	76.535	63.170	58.715
35.0	314.935	299.514	257.362	204.930	151.128	103.836	74.593	61.228	56.887
35.5	315.163	299.742	256.906	203.902	149.300	101.894	72.765	59.400	55.059
36.0	315.163	299.971	256.449	202.760	147.586	99.952	70.823	57.572	53.346
36.5	315.392	300.085	255.877	201.618	145.759	98.010	68.881	55.859	51.632
37.0	315.620	299.742	255.421	200.475	144.045	96.068	67.054	54.031	50.033
37.5	315.963	299.171	254.849	199.219	142.218	94.126	65.226	52.318	48.320
38.0	316.420	298.600	254.164	197.962	140.390	92.299	63.398	50.719	46.835
38.5	316.763	298.371	253.364	196.706	138.562	90.357	61.571	49.005	45.235
39.0	316.763	298.486	252.565	195.335	136.735	88.643	59.857	47.406	43.750
39.5	316.763	298.828	251.765	193.964	134.793	86.701	58.144	45.807	42.265
40.0	316.877	298.828	250.851	192.593	132.965	84.759	56.430	44.322	40.895
40.5	316.877	298.029	249.937	191.223	131.023	83.046	54.717	42.837	39.524
41.0	317.219	297.001	248.909	189.738	129.195	81.218	53.003	41.352	38.153
41.5	317.334	296.201	247.881	188.367	127.368	79.391	51.404	39.981	36.897
42.0	317.334	295.630	246.967	186.882	125.426	77.563	49.805	38.610	35.526
42.5	316.877	295.287	245.939	185.283	123.484	75.735	48.205	37.354	34.269
43.0	316.420	294.944	245.254	183.798	121.542	74.022	46.606	36.097	33.013
43.5	316.077	294.373	245.368	182.198	119.600	72.194	45.121	34.840	31.870
44.0	315.849	293.916	244.911	180.713	117.772	70.481	43.750	33.698	30.728
44.5	315.734	293.345	243.540	179.114	115.830	68.653	42.265	32.556	29.586
45.0	315.392	292.774	241.713	177.629	113.888	66.939	40.895	31.414	28.558
45.5	314.935	292.203	240.228	176.144	111.946	65.226	39.638	30.385	27.530
46.0	314.364	291.632	238.971	174.545	109.890	63.512	38.382	29.243	26.502
46.5	314.021	290.946	238.057	173.060	108.063	61.799	37.125	28.215	25.474
47.0	313.678	290.261	237.144	171.461	106.121	60.200	35.869	27.187	24.445
47.5	313.450	289.461	236.230	169.862	104.179	58.486	34.726	26.159	23.532
48.0	313.221	288.776	234.859	168.376	102.123	56.887	33.698	25.245	22.618
48.5	312.650	287.976	233.602	167.006	100.181	55.288	32.556	24.331	21.818
49.0	311.851	287.177	232.232	165.749	98.124	53.689	31.642	23.417	20.904
49.5	311.165	286.377	231.089	164.036	96.068	52.089	30.614	22.504	20.105
50.0	310.480	285.578	229.947	162.094	94.126	50.490	29.586	21.590	19.305
50.5	310.023	284.664	228.690	160.266	92.070	49.005	28.672	20.790	18.505
51.0	309.223	283.750	227.548	158.438	90.014	47.520	27.758	19.990	17.706
51.5	308.424	282.607	226.292	156.611	88.072	46.035	26.730	19.191	16.906
52.0	307.396	281.579	224.921	154.897	86.016	44.664	25.816	18.391	16.221
52.5	306.368	280.551	223.550	153.184	83.960	43.179	24.788	17.706	15.535
53.0	305.339	279.409	222.294	151.470	81.904	41.694	23.989	17.020	14.850
53.5	304.540	278.152	220.923	149.757	79.962	40.324	23.075	16.221	14.279
54.0	303.512	276.896	219.666	147.815	78.020	38.953	22.275	15.650	13.593
54.5	302.255	276.096	218.295	145.759	76.078	37.696	21.475	14.964	13.022

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CANDELA TABULATION - (Cont.)

55.0	300.884	275.982	216.468	143.703	74.136	36.440	20.562	14.279	12.451
55.5	299.628	275.639	214.526	141.761	72.194	35.183	19.762	13.708	11.880
56.0	298.371	273.812	212.812	139.819	70.252	33.927	19.077	13.137	11.423
56.5	297.115	270.956	211.099	137.877	68.424	32.784	18.277	12.565	10.852
57.0	295.744	268.557	209.385	135.821	66.597	31.642	17.592	11.994	10.395
57.5	294.145	267.186	207.558	133.879	64.769	30.500	16.906	11.537	9.938
58.0	292.546	266.158	205.730	131.823	62.941	29.472	16.335	11.080	9.481
58.5	291.061	264.902	203.902	129.652	61.114	28.444	15.650	10.623	9.024
59.0	289.576	262.617	202.075	127.596	59.286	27.415	15.078	10.167	8.682
59.5	287.976	260.218	200.247	125.654	57.572	26.502	14.393	9.710	8.339
60.0	286.149	258.847	198.305	123.484	55.745	25.474	13.822	9.367	7.996
60.5	284.435	257.362	196.363	121.428	54.031	24.560	13.251	9.024	7.653
61.0	282.607	255.421	194.535	119.257	52.318	23.646	12.794	8.567	7.425
61.5	281.008	253.022	192.822	117.201	50.604	22.846	12.337	8.225	7.082
62.0	279.295	251.537	191.223	115.031	49.005	21.932	11.880	7.996	6.854
62.5	277.467	250.851	189.395	113.089	47.520	21.133	11.423	7.653	6.625
63.0	275.525	249.937	186.768	111.147	45.921	20.333	10.966	7.425	6.397
63.5	273.583	247.310	185.168	108.976	44.436	19.534	10.509	7.197	6.168
64.0	271.756	243.883	184.369	106.578	43.065	18.848	10.167	6.968	5.940
64.5	269.814	241.256	182.770	104.293	41.580	18.163	9.824	6.740	5.712
65.0	267.757	239.200	179.343	102.123	40.324	17.477	9.481	6.511	5.597
65.5	265.701	237.029	176.373	99.952	38.953	16.792	9.138	6.397	5.369
66.0	263.645	234.973	174.202	97.896	37.696	16.107	8.796	6.168	5.255
66.5	261.589	232.917	172.032	95.611	36.440	15.421	8.453	6.054	5.026
67.0	259.533	230.861	169.747	93.441	35.297	14.850	8.225	5.826	4.912
67.5	257.362	228.690	167.577	91.271	34.155	14.165	7.996	5.712	4.798
68.0	255.078	226.292	165.292	89.100	33.013	13.593	7.653	5.597	4.683
68.5	252.793	224.121	162.893	86.930	31.985	13.022	7.425	5.369	4.569
69.0	250.509	221.722	160.495	84.759	30.957	12.451	7.197	5.255	4.455
69.5	248.224	219.324	158.438	82.589	29.929	11.994	7.082	5.140	4.341
70.0	245.825	217.039	156.611	80.304	28.900	11.537	6.854	5.026	4.227
70.5	243.426	214.526	154.326	78.134	27.872	11.080	6.625	4.912	4.112
71.0	240.913	212.127	151.470	75.964	26.959	10.623	6.511	4.798	3.998
71.5	238.400	209.614	149.528	74.022	26.045	10.167	6.397	4.683	3.884
72.0	236.001	207.101	148.043	71.851	25.131	9.824	6.168	4.569	3.770
72.5	233.374	204.702	145.073	69.567	24.331	9.367	6.054	4.569	3.770
73.0	230.747	202.075	141.646	67.396	23.417	9.024	5.940	4.455	3.770
73.5	228.234	199.562	139.133	65.340	22.618	8.682	5.826	4.341	3.655
74.0	225.606	196.934	136.506	63.398	21.818	8.453	5.712	4.341	3.541
74.5	222.979	194.307	133.993	61.456	21.019	8.110	5.597	4.227	3.541
75.0	220.237	191.680	131.594	59.514	20.105	7.882	5.483	4.227	3.427
75.5	217.496	188.938	129.081	57.687	19.191	7.653	5.369	4.112	3.427
76.0	214.869	186.311	126.682	55.859	18.391	7.425	5.369	4.112	3.313
76.5	212.127	183.798	124.055	54.260	17.592	7.197	5.255	3.998	3.313
77.0	209.385	181.970	121.542	52.546	16.792	6.968	5.255	3.998	3.313
77.5	206.644	180.942	119.143	51.061	16.107	6.854	5.140	3.884	3.313
78.0	203.902	177.743	116.973	49.462	15.421	6.625	5.140	3.884	3.198
78.5	201.161	173.517	115.145	47.977	14.850	6.511	5.026	3.884	3.198
79.0	198.305	171.118	112.061	46.606	14.393	6.397	5.026	3.884	3.198
79.5	195.449	169.062	109.205	45.235	13.708	6.283	4.912	3.884	3.198
80.0	192.708	165.635	106.578	43.865	13.137	6.168	4.912	3.884	3.198
80.5	189.623	162.208	104.064	42.608	12.565	6.054	4.912	3.770	3.198
81.0	186.768	159.581	101.551	41.466	11.994	5.940	4.912	3.770	3.198
81.5	183.798	156.496	99.038	40.209	11.537	5.940	4.798	3.884	3.198
82.0	180.713	153.755	96.525	38.953	10.966	5.826	4.798	3.770	3.198
82.5	177.743	152.613	94.012	37.810	10.395	5.826	4.798	3.884	3.198

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83.0	174.659	149.985	91.613	36.782	9.824	5.712	4.798	3.884	3.313
83.5	171.575	145.416	89.557	35.640	9.253	5.712	4.798	3.884	3.313
84.0	168.605	141.646	88.301	34.498	8.796	5.597	4.798	3.884	3.427
84.5	165.406	138.676	85.102	33.470	8.339	5.597	4.798	3.998	3.541
85.0	162.436	135.821	82.132	32.442	7.882	5.597	4.912	3.998	3.655
85.5	159.238	133.193	79.733	31.414	7.539	5.597	4.912	4.112	3.770
86.0	156.154	130.452	77.449	30.385	7.197	5.597	5.026	4.227	3.998
86.5	153.298	127.710	75.278	29.357	6.968	5.597	5.026	4.341	4.227
87.0	150.100	124.512	73.108	28.329	6.740	5.597	5.140	4.569	4.455
87.5	147.130	121.770	71.052	27.301	6.511	5.597	5.369	4.683	4.683
88.0	144.160	119.029	68.996	26.387	6.397	5.712	5.483	5.026	4.912
88.5	141.190	116.173	67.168	25.474	6.283	5.712	5.712	5.255	5.255
89.0	138.334	113.546	65.683	24.560	6.283	6.054	6.054	5.597	5.597
89.5	135.250	110.918	63.398	23.874	7.311	7.653	7.082	6.397	6.283
90.0	127.824	104.293	56.887	18.505	2.856	4.912	5.026	5.597	6.740
90.5	124.854	101.894	55.516	19.077	5.140	8.682	8.453	8.453	10.623
91.0	122.113	99.724	54.945	21.932	8.225	12.794	13.251	12.794	16.335
91.5	119.600	98.124	55.859	25.930	12.794	18.505	19.305	18.848	23.417
92.0	117.544	97.668	58.715	31.756	18.163	25.131	26.616	26.045	31.414
92.5	116.401	98.924	63.398	38.610	23.760	31.528	34.269	33.812	39.181
93.0	116.630	102.008	69.795	45.578	29.472	37.468	41.466	41.694	46.606
93.5	118.800	106.920	77.106	52.546	35.412	43.065	48.320	49.234	53.917
94.0	123.255	113.317	84.988	59.400	41.237	48.662	54.831	56.430	61.228
94.5	129.195	120.742	93.327	66.254	47.177	54.374	60.885	63.398	68.310
95.0	136.392	128.624	101.666	73.222	53.232	59.971	66.825	70.024	74.707
95.5	144.388	137.077	110.119	80.304	59.286	65.797	72.422	76.192	80.647
96.0	152.613	145.530	118.800	87.387	65.340	71.623	78.020	82.132	86.244
96.5	161.294	154.212	127.368	94.469	71.509	77.563	83.617	87.844	92.299
97.0	170.204	163.122	136.163	101.666	77.677	83.389	89.329	93.441	98.010
97.5	179.000	172.375	145.073	108.862	83.846	89.329	94.926	99.038	103.608
98.0	188.253	181.970	154.326	116.401	90.128	95.269	100.638	104.750	109.091
98.5	197.848	191.565	163.693	123.941	96.411	101.094	106.235	110.461	114.574
99.0	207.558	201.503	173.288	131.480	102.579	106.920	111.946	115.944	120.285
99.5	217.839	211.784	183.112	139.133	108.976	112.860	117.772	121.656	126.111
100.0	228.119	222.408	193.393	146.901	115.145	118.800	123.484	127.368	131.708
100.5	238.971	233.602	203.902	154.783	121.428	124.740	129.309	133.079	137.420
101.0	250.509	245.368	214.983	162.893	127.824	130.566	135.021	138.905	142.903
101.5	262.503	257.248	226.177	171.347	134.107	136.392	140.847	144.502	148.729
102.0	275.068	269.814	237.829	179.685	140.504	142.332	146.558	150.214	154.555
102.5	287.976	282.950	249.937	188.253	146.901	148.272	152.384	156.154	160.380
103.0	301.913	296.772	262.617	197.048	153.184	154.212	158.210	161.980	165.978
103.5	316.306	311.394	275.639	206.187	159.581	160.152	164.036	167.805	171.689
104.0	331.156	326.358	289.119	215.554	166.092	165.978	169.862	173.517	177.287
104.5	347.262	341.893	302.941	225.035	172.603	171.918	175.459	179.343	183.112
105.0	363.826	358.114	317.562	234.630	179.228	177.972	181.285	185.054	188.938
105.5	381.189	375.135	332.526	244.454	185.740	184.026	187.110	190.880	194.421
106.0	399.237	393.183	347.833	254.735	192.365	190.195	192.822	196.592	200.018
106.5	418.200	411.803	363.597	265.244	199.219	196.135	198.533	202.303	205.616
107.0	438.190	430.765	379.932	275.982	206.073	202.189	204.245	207.786	211.213
107.5	458.752	450.299	396.839	286.720	213.041	208.129	210.071	213.498	216.810
108.0	480.113	470.974	414.202	297.914	220.009	214.297	215.782	219.209	222.408
108.5	502.388	492.450	431.907	309.338	227.091	220.352	221.608	225.035	228.005
109.0	525.120	514.611	449.956	321.103	234.402	226.406	227.434	230.632	233.488
109.5	548.994	537.228	468.576	333.098	241.713	232.574	233.145	236.230	239.085
110.0	573.325	560.075	487.652	345.206	249.138	238.743	238.971	241.827	244.797
110.5	598.342	583.949	507.300	357.543	256.563	245.025	244.911	247.653	250.394

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111.0	624.387	608.965	527.290	370.337	264.331	251.537	250.851	253.593	256.106
111.5	650.546	634.439	547.623	383.131	272.098	257.934	256.791	259.419	261.589
112.0	677.847	660.484	568.528	396.267	280.094	264.445	262.846	265.130	267.415
112.5	705.605	686.414	589.889	409.632	288.091	270.956	269.128	270.956	273.126
113.0	734.163	713.144	611.707	423.340	296.315	277.696	275.297	276.896	278.952
113.5	763.177	740.902	633.982	437.048	304.768	284.664	281.579	283.179	284.892
114.0	792.763	769.232	656.600	451.212	313.221	291.632	287.862	289.233	290.718
114.5	822.920	798.018	679.674	465.377	321.903	298.486	294.373	295.401	296.772
115.0	853.534	826.576	703.549	479.884	330.585	305.568	300.999	301.341	302.598
115.5	880.721	855.819	727.766	494.620	339.380	312.764	307.624	307.624	308.652
116.0	912.706	881.064	752.325	509.699	348.290	320.189	314.364	314.021	314.821
116.5	944.576	910.992	777.342	524.777	357.543	327.615	321.218	320.418	321.103
117.0	977.018	941.835	802.701	539.970	366.682	335.268	328.071	326.815	327.272
117.5	1010.373	972.334	828.517	555.505	376.163	342.921	335.154	333.212	333.326
118.0	1043.500	1003.405	853.648	571.612	385.644	350.689	342.122	339.951	339.609
118.5	1078.112	1034.247	876.837	588.175	395.239	358.685	349.204	346.805	346.120
119.0	1112.267	1065.318	902.768	604.510	405.177	366.910	356.629	353.545	352.745
119.5	1145.737	1096.960	929.612	620.617	415.115	375.135	364.168	360.399	359.371
120.0	1181.149	1129.059	956.799	637.181	424.939	383.588	371.708	367.367	366.110
120.5	1214.276	1160.587	983.986	654.315	434.992	392.155	379.247	374.792	372.850
121.0	1248.545	1193.714	1011.059	671.678	445.615	400.951	387.015	382.331	380.161
121.5	1282.814	1225.699	1037.789	688.927	456.239	409.975	394.897	389.985	387.472
122.0	1317.083	1258.826	1065.204	705.948	466.748	419.114	403.121	397.638	395.011
122.5	1351.353	1291.953	1092.163	722.968	477.257	428.366	411.232	405.406	402.436
123.0	1386.764	1326.222	1119.464	740.331	488.109	437.847	419.570	413.630	409.975
123.5	1422.176	1359.349	1146.879	757.808	499.304	447.443	428.024	421.855	417.857
124.0	1458.730	1392.476	1174.295	775.629	510.498	457.267	436.591	430.080	426.082
124.5	1494.142	1426.745	1200.568	793.106	521.579	466.976	445.387	438.419	434.192
125.0	1529.553	1458.730	1227.983	809.898	532.659	477.029	454.525	446.757	442.188
125.5	1566.107	1492.999	1253.114	826.233	543.740	487.195	463.664	455.439	450.299
126.0	1603.803	1526.126	1277.103	842.225	555.048	497.476	472.802	464.235	458.409
126.5	1639.215	1556.969	1301.091	856.618	566.357	507.757	482.055	473.031	466.862
127.0	1672.342	1585.526	1322.795	869.869	577.438	518.152	491.650	481.712	475.658
127.5	1705.469	1610.657	1341.072	881.863	588.404	528.775	501.474	490.508	484.339
128.0	1734.027	1633.503	1355.922	892.944	599.256	539.513	511.184	499.418	493.135
128.5	1759.157	1651.780	1369.630	903.681	610.108	550.365	521.008	508.556	502.045
129.0	1779.719	1666.630	1379.911	914.076	620.731	561.331	530.946	517.809	510.955
129.5	1796.854	1676.911	1387.907	921.958	631.126	572.183	541.112	526.833	520.208
130.0	1809.419	1684.907	1393.618	929.840	641.293	582.921	551.279	536.315	529.575
130.5	1817.415	1690.619	1397.045	936.580	651.231	593.773	561.560	545.910	539.170
131.0	1821.984	1694.046	1399.330	942.063	660.941	604.739	571.726	555.734	548.766
131.5	1824.269	1694.046	1400.472	946.975	670.308	615.477	582.121	565.558	558.361
132.0	1823.127	1694.046	1400.472	950.516	679.332	625.872	592.288	575.496	568.071
132.5	1820.842	1690.619	1398.187	954.057	687.899	635.924	602.454	585.548	578.237
133.0	1817.415	1687.192	1397.045	956.570	696.466	646.091	612.849	595.715	588.518
133.5	1811.704	1683.765	1394.761	959.312	704.691	656.029	622.902	606.110	598.913
134.0	1805.992	1678.053	1390.191	961.140	712.687	665.167	633.068	616.390	609.194
134.5	1799.138	1672.342	1387.907	963.310	720.112	674.420	642.892	626.443	619.360
135.0	1792.284	1666.630	1383.337	964.338	727.309	683.216	652.716	636.609	629.413
135.5	1785.431	1659.776	1379.911	965.709	734.391	692.011	662.083	646.547	639.579
136.0	1777.434	1652.923	1375.341	967.080	741.359	700.465	671.336	656.600	649.974
136.5	1770.581	1646.069	1370.772	967.308	747.870	708.689	680.246	666.195	660.027
137.0	1761.442	1636.930	1367.345	968.679	754.267	716.571	688.927	675.676	669.622
137.5	1752.304	1627.792	1361.634	969.707	760.322	724.339	697.495	684.929	678.989
138.0	1742.023	1619.796	1357.064	970.964	766.262	731.992	705.491	693.839	688.128
138.5	1731.742	1610.657	1352.495	971.877	772.087	739.303	713.258	702.178	697.152

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CANDELA TABULATION - (Cont.)

139.0	1721.461	1601.519	1346.784	972.106	777.799	746.500	720.683	710.403	705.948
139.5	1711.180	1593.522	1342.214	972.791	783.282	753.468	728.223	718.285	714.401
140.0	1700.900	1584.384	1336.503	973.248	788.537	760.207	735.305	726.738	722.511
140.5	1690.619	1575.246	1331.933	973.477	793.791	766.947	742.273	734.163	730.279
141.0	1680.338	1567.249	1326.222	973.705	798.817	773.572	748.898	741.245	737.818
141.5	1670.057	1559.253	1319.368	973.934	803.615	779.969	755.295	748.099	745.357
142.0	1659.776	1551.257	1312.514	974.276	808.299	786.024	761.578	754.724	752.782
142.5	1648.353	1543.261	1305.660	974.733	812.754	791.849	767.632	761.350	759.979
143.0	1636.930	1535.265	1298.806	974.505	817.323	797.675	773.687	767.861	767.290
143.5	1626.649	1528.411	1291.953	974.847	821.778	803.387	779.398	774.144	774.372
144.0	1615.226	1520.415	1286.241	975.076	826.004	808.984	784.767	780.312	781.454
144.5	1603.803	1512.418	1279.387	975.761	830.002	814.239	790.022	786.138	788.651
145.0	1591.238	1503.280	1272.533	975.990	834.229	819.493	795.162	791.964	795.733
145.5	1579.815	1494.142	1265.680	976.332	838.227	824.519	800.074	797.447	802.587
146.0	1568.392	1485.003	1258.826	975.875	842.225	829.774	804.872	802.930	809.098
146.5	1555.826	1474.722	1251.972	976.447	846.109	834.686	809.669	807.956	815.267
147.0	1542.119	1465.584	1245.118	976.332	849.764	839.484	814.239	812.868	820.978
147.5	1528.411	1455.303	1238.264	975.875	853.420	844.281	818.694	817.437	826.461
148.0	1514.703	1445.022	1231.410	975.419	857.075	848.965	823.034	821.778	831.259
148.5	1500.995	1434.741	1225.699	975.076	860.616	853.648	827.489	826.004	835.714
149.0	1487.288	1424.461	1218.845	974.505	863.929	858.218	831.716	830.231	839.598
149.5	1473.580	1414.180	1213.133	973.591	865.985	862.673	836.057	834.115	842.796
150.0	1461.015	1403.899	1206.279	973.362	867.013	866.899	840.512	838.113	845.995
150.5	1447.307	1392.476	1200.568	973.362	868.955	867.242	844.624	841.768	848.851
151.0	1433.599	1381.053	1193.714	972.791	872.268	871.011	848.622	845.538	851.592
151.5	1421.034	1370.772	1188.002	972.677	875.238	875.809	852.734	849.422	854.219
152.0	1408.468	1359.349	1181.149	972.220	878.322	879.579	856.618	853.191	856.961
152.5	1395.903	1346.784	1174.295	971.306	881.178	883.577	859.131	857.075	859.817
153.0	1385.622	1335.360	1168.583	971.078	884.262	887.232	862.558	860.502	862.901
153.5	1374.199	1325.080	1161.729	970.392	886.775	891.687	866.214	862.101	865.985
154.0	1362.776	1313.657	1154.875	969.935	889.860	895.343	869.983	865.871	869.184
154.5	1352.495	1303.376	1149.164	969.707	892.487	898.884	871.583	869.641	868.156
155.0	1342.214	1293.095	1142.310	969.136	895.114	902.311	875.466	873.068	871.583
155.5	1334.218	1281.672	1137.055	969.250	897.970	905.738	879.236	874.438	874.895
156.0	1325.080	1272.533	1131.115	969.250	900.483	909.393	882.549	877.979	878.094
156.5	1315.941	1262.253	1125.175	968.793	902.996	912.591	886.433	881.064	881.863
157.0	1306.803	1251.972	1119.121	968.222	904.938	915.790	890.431	884.491	885.404
157.5	1296.522	1242.833	1113.295	967.651	907.794	918.646	893.972	887.918	888.260
158.0	1287.383	1232.553	1107.812	967.194	910.078	921.616	897.627	891.687	891.459
158.5	1277.103	1222.272	1102.215	967.080	912.363	924.472	901.625	895.000	895.114
159.0	1265.680	1211.991	1096.503	966.280	915.105	927.213	905.395	898.313	897.741
159.5	1254.256	1201.710	1090.678	966.623	917.389	929.726	909.050	901.854	901.740
160.0	1242.833	1192.572	1085.537	966.623	919.445	932.125	912.820	905.281	904.824
160.5	1231.410	1182.291	1080.397	965.937	921.958	934.524	916.818	908.936	909.507
161.0	1218.845	1173.152	1075.142	966.509	924.243	936.808	920.131	912.020	912.820
161.5	1207.422	1162.872	1070.002	966.509	926.299	938.865	923.443	915.447	916.133
162.0	1195.999	1152.591	1064.633	966.623	928.698	941.149	927.784	918.760	919.902
162.5	1184.575	1142.310	1059.264	966.737	930.868	943.548	930.640	921.958	922.872
163.0	1172.010	1132.715	1054.238	967.080	932.696	945.376	933.610	924.928	926.870
163.5	1159.445	1123.576	1048.869	967.765	934.981	946.747	937.151	928.241	929.726
164.0	1148.022	1113.638	1043.957	967.651	936.923	948.460	940.350	931.440	933.039
164.5	1136.827	1104.614	1038.931	967.765	938.979	950.288	943.320	934.524	936.123
165.0	1126.318	1095.590	1034.019	968.222	940.921	951.773	945.604	937.494	939.322
165.5	1115.237	1087.136	1028.307	968.108	943.205	953.600	948.574	941.035	942.863
166.0	1105.870	1079.369	1023.167	968.336	944.919	954.743	950.745	944.462	945.262
166.5	1095.932	1071.487	1018.484	968.336	946.290	956.342	952.915	946.975	948.232

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167.0	1086.565	1063.833	1013.914	968.108	948.003	957.713	954.971	950.288	951.202
167.5	1077.884	1055.723	1009.002	968.108	949.488	958.284	956.685	953.372	954.400
168.0	1069.659	1048.526	1004.547	967.537	951.658	959.426	958.170	956.456	956.685
168.5	1060.635	1040.530	1000.778	967.537	952.458	960.568	959.655	958.741	960.112
169.0	1052.068	1033.791	996.665	967.422	954.286	961.140	961.025	961.140	962.739
169.5	1044.757	1026.594	992.782	967.422	955.428	961.825	962.054	963.995	964.452
170.0	1036.418	1020.426	989.355	967.194	957.142	962.510	962.739	965.366	967.422
170.5	1028.650	1014.143	986.499	967.537	958.284	962.739	963.424	967.080	969.250
171.0	1023.167	1008.774	982.958	967.994	959.198	963.196	963.539	968.565	970.392
171.5	1016.313	1003.062	980.445	967.537	960.340	963.767	963.424	969.707	972.449
172.0	1010.031	998.607	978.046	967.879	961.025	963.767	963.424	969.935	973.020
172.5	1004.433	993.810	975.875	967.765	961.939	964.338	963.995	970.621	973.362
173.0	999.064	990.269	973.819	967.879	962.967	964.909	963.539	971.192	973.705
173.5	994.267	985.928	971.763	968.108	963.881	964.452	963.196	970.392	973.591
174.0	990.725	982.158	969.935	967.994	964.224	965.024	962.510	970.164	972.449
174.5	985.585	978.617	968.336	968.108	964.795	965.138	961.825	969.364	971.420
175.0	980.902	975.761	967.080	968.222	964.909	964.909	961.368	968.108	970.050
175.5	977.018	972.791	965.595	967.879	965.480	964.909	961.025	967.422	968.907
176.0	974.276	970.507	964.110	967.194	965.709	964.567	960.454	966.052	966.509
176.5	970.964	968.336	962.853	967.194	965.823	964.681	960.112	964.795	965.252
177.0	968.679	966.052	961.597	966.965	966.166	964.795	959.312	963.881	963.653
177.5	966.166	963.995	960.454	966.509	966.623	964.567	959.198	962.739	962.168
178.0	965.024	962.853	959.883	966.166	966.280	964.909	958.855	961.368	961.368
178.5	963.082	961.711	959.312	965.823	966.394	965.138	957.827	960.454	959.655
179.0	961.825	960.226	958.512	965.709	966.509	964.795	957.941	959.883	959.769
179.5	960.454	960.226	958.398	965.366	966.509	965.138	957.370	959.769	960.683
180.0	961.482	961.482	961.482	961.482	961.482	961.482	961.482	961.482	961.482

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-4-L11-835-S-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	76.52	N.A.	1.70
0-30	162.93	N.A.	3.60
0-40	267.61	N.A.	6.00
0-60	482.27	N.A.	10.80
0-80	643.41	N.A.	14.40
0-90	692.33	N.A.	15.50
10-90	672.56	N.A.	15.00
20-40	191.10	N.A.	4.30
20-50	300.96	N.A.	6.70
40-70	305.24	N.A.	6.80
60-80	161.14	N.A.	3.60
70-80	70.56	N.A.	1.60
80-90	48.92	N.A.	1.10
90-110	348.33	N.A.	7.80
90-120	824.38	N.A.	18.40
90-130	1534.47	N.A.	34.30
90-150	2938.51	N.A.	65.70
90-180	3778.57	N.A.	84.50
110-180	3430.25	N.A.	76.70
0-180	4470.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	19.77
10-20	56.75
20-30	86.41
30-40	104.68
40-50	109.86
50-60	104.80
60-70	90.58
70-80	70.56
80-90	48.92
90-100	92.52
100-110	255.80
110-120	476.05
120-130	710.09
130-140	762.72
140-150	641.32
150-160	466.80
160-170	280.51
170-180	92.76

IES INDOOR REPORT
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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	184	184	184	184	161	161	161	161	119	119	119	81	81	81	45	45	45	29
1	167	159	151	145	146	139	133	128	103	99	96	69	67	65	39	38	36	23
2	151	138	127	118	132	121	112	104	90	84	78	60	57	54	34	32	30	18
3	138	121	108	97	120	106	95	86	79	71	65	53	49	45	29	27	25	15
4	126	106	92	82	109	94	82	73	69	61	55	47	42	38	26	24	21	13
5	115	94	80	69	100	83	71	62	62	53	47	42	37	33	23	21	18	11
6	105	84	70	59	92	74	62	53	55	47	40	38	32	28	21	18	16	9
7	97	75	61	51	85	67	55	46	50	41	35	34	29	25	19	16	14	8
8	90	68	54	45	78	60	48	40	45	37	31	31	25	22	17	15	12	7
9	83	62	48	40	73	55	43	35	41	33	27	28	23	19	16	13	11	7
10	77	56	43	35	68	50	39	31	37	30	24	26	21	17	15	12	10	6

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-4-L11-835-S-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

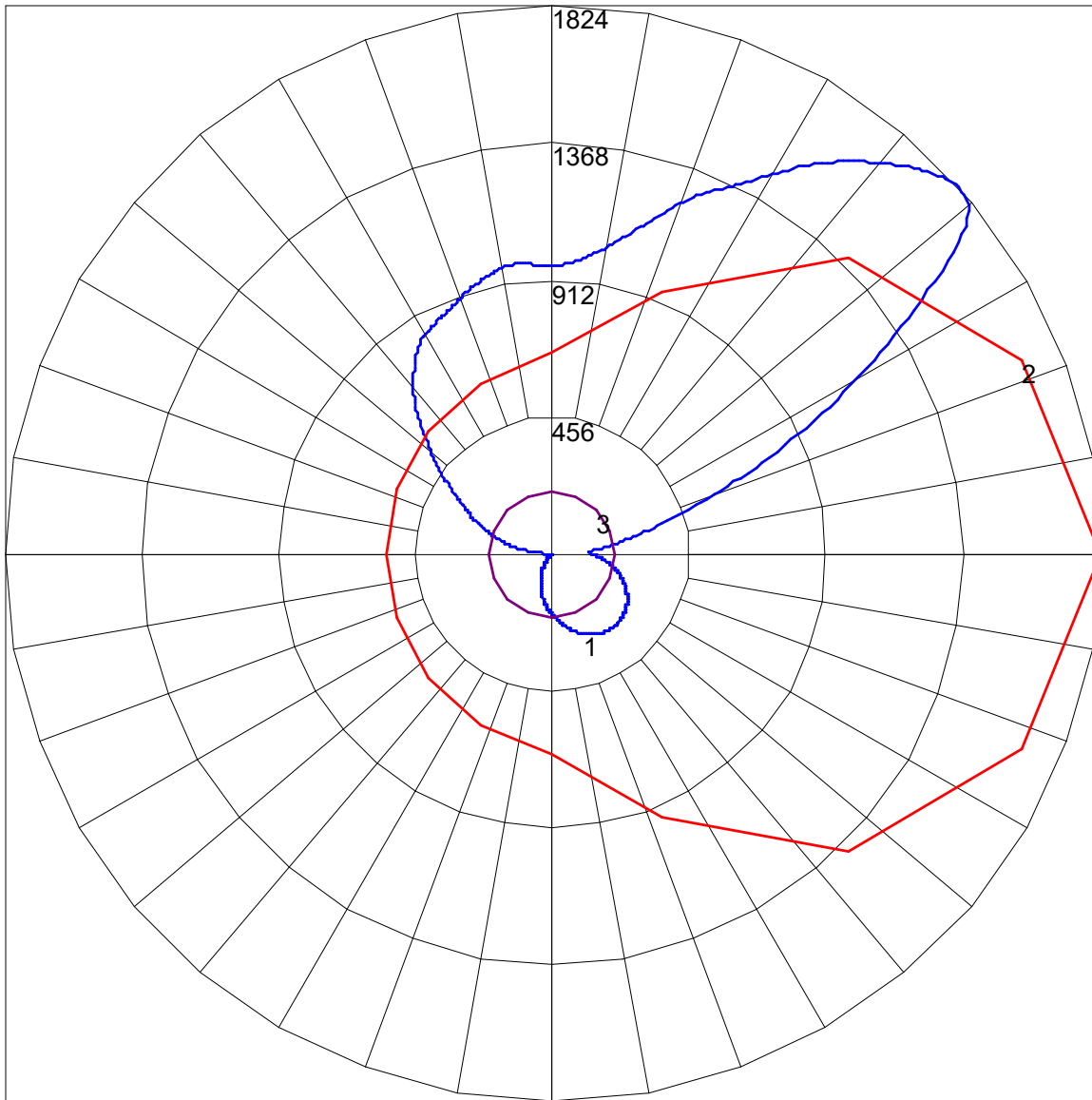
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	9.9	10.5	11.1	11.7	13.4	UGR Viewed Endwise				
	3H	12.8	13.4	14.0	14.6	16.3	3.1	3.1	3.3	3.9	5.6
	4H	14.3	14.8	15.5	16.0	17.7	3.3	3.9	4.5	5.1	6.8
	6H	15.8	16.3	17.0	17.5	19.2	3.7	4.2	4.9	5.4	7.1
	8H	16.6	17.0	17.8	18.2	19.9	4.0	4.5	5.2	5.6	7.4
	12H	17.4	17.9	18.7	19.1	20.8	4.1	4.5	5.3	5.7	7.5
							4.2	4.6	5.4	5.8	7.5
4H	2H	10.2	10.7	11.4	11.9	13.6	4.2	4.7	5.4	5.9	7.6
	3H	13.5	13.9	14.7	15.1	16.8	5.7	6.2	7.0	7.4	9.1
	4H	15.1	15.5	16.4	16.8	18.5	6.2	6.6	7.4	7.8	9.6
	6H	16.9	17.3	18.1	18.5	20.2	6.6	6.9	7.8	8.2	9.9
	8H	17.8	18.2	19.0	19.4	21.1	6.7	7.1	7.9	8.3	10.0
	12H	18.8	19.1	20.1	20.4	22.1	6.8	7.1	8.1	8.4	10.1
8H	4H	15.3	15.7	16.5	16.9	18.6	7.9	8.3	9.1	9.5	11.2
	6H	17.4	17.6	18.6	18.9	20.6	8.6	8.9	9.9	10.2	11.9
	8H	18.5	18.7	19.8	20.0	21.7	8.9	9.1	10.2	10.4	12.1
	12H	19.8	20.0	21.0	21.2	23.0	9.1	9.3	10.4	10.5	12.3
12H	4H	15.3	15.6	16.5	16.8	18.6	8.5	8.8	9.7	10.0	11.7
	6H	17.4	17.6	18.6	18.9	20.6	9.4	9.7	10.7	10.9	12.7
	8H	18.6	18.8	19.9	20.1	21.8	9.9	10.1	11.1	11.3	13.1

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 1824.269 Located At Horizontal Angle = 0, Vertical Angle = 131.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (131.5) (Through Max. Cd.)
3 - Horizontal Cone Through Vertical Angle (0)