



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-4-L11-950-S-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from UL #13362254.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 02-18-2022
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E.WILLIAMS INC - CARTHAGE, MO. 64836
[LUMINAIRE] 4' DIRECT-INDIRECT WALL MOUNT LUMINAIRE
[OTHER] WITH FROSTED ACRYLIC
[LUMCAT] AIWP33-4-L11/950-S-DIM-UNV
[LAMPCAT] HLM 90 CRI, 5000K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR, CORRIDOR, HEALTHCARE, EDUCATION, DIRECT-INDIRECT
[_SEARCH_MOUNTING] WALL
[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	3979
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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



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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3655	2801	1320
55	4299	3093	1059
65	5192	3477	782
75	6973	4166	637
85	15272	7722	741

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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	185.845	185.845	185.845	185.845	185.845	185.845	185.845	185.845	185.845
0.5	184.218	187.065	186.760	187.776	189.301	186.251	183.913	183.303	180.660
1.0	186.048	188.996	188.081	188.488	189.301	185.438	182.388	181.270	178.830
1.5	187.776	190.826	189.505	189.200	189.301	184.625	180.863	179.440	177.000
2.0	189.606	192.758	190.928	189.911	189.200	183.710	179.338	177.508	175.170
2.5	191.436	194.588	192.148	190.623	189.098	182.896	177.813	175.475	173.442
3.0	193.165	196.520	193.470	191.233	188.996	181.981	176.288	173.645	171.510
3.5	194.995	198.350	194.791	191.843	188.895	181.168	174.763	171.612	169.782
4.0	196.825	200.180	196.113	192.453	188.691	180.151	173.137	169.680	167.850
4.5	198.553	202.010	197.435	193.063	188.488	179.236	171.612	167.748	165.918
5.0	200.485	203.738	198.655	193.571	188.285	178.220	169.985	165.715	164.190
5.5	202.315	205.568	199.875	194.080	188.081	177.203	168.358	163.783	162.258
6.0	204.348	207.398	201.095	194.588	187.776	176.186	166.732	161.852	160.428
6.5	206.280	209.024	202.315	195.096	187.370	175.170	165.105	159.920	158.598
7.0	208.313	210.753	203.433	195.605	187.065	174.153	163.478	157.887	156.768
7.5	210.244	212.583	204.653	196.011	186.760	173.035	161.852	155.853	154.837
8.0	212.176	214.209	205.771	196.418	186.353	171.917	160.225	153.922	153.108
8.5	214.108	215.836	206.890	196.723	185.946	170.900	158.598	151.888	151.177
9.0	216.039	217.463	207.906	197.130	185.438	169.782	156.870	149.957	149.347
9.5	217.869	219.089	208.923	197.536	185.031	168.663	155.243	148.025	147.517
10.0	219.598	220.614	210.041	197.740	184.523	167.545	153.617	146.093	145.687
10.5	221.428	222.139	210.956	198.045	184.116	166.325	151.990	144.060	143.755
11.0	223.156	223.664	211.973	198.350	183.506	165.207	150.262	142.129	141.925
11.5	224.783	225.189	212.888	198.553	182.998	163.987	148.533	140.197	139.994
12.0	226.511	226.714	213.803	198.756	182.388	162.665	146.805	138.265	138.062
12.5	228.138	228.036	214.718	198.960	181.778	161.445	145.178	136.334	136.130
13.0	229.866	229.561	215.531	199.061	181.168	160.225	143.450	134.402	134.199
13.5	231.493	230.883	216.446	199.163	180.558	159.005	141.722	132.470	132.267
14.0	233.119	232.204	217.158	199.265	179.846	157.683	139.994	130.640	130.234
14.5	234.644	233.628	218.073	199.366	179.236	156.362	138.265	128.607	128.404
15.0	236.271	234.949	218.784	199.468	178.525	155.040	136.537	126.777	126.472
15.5	237.898	236.271	219.496	199.468	177.813	153.718	134.809	124.845	124.540
16.0	239.524	237.593	220.208	199.468	177.203	152.295	133.080	122.914	122.507
16.5	241.049	238.813	220.818	199.366	176.390	150.973	131.352	120.982	120.575
17.0	242.574	240.032	221.529	199.366	175.678	149.550	129.522	119.050	118.745
17.5	244.099	241.252	222.139	199.265	174.967	148.127	127.794	117.119	116.712
18.0	245.624	242.371	222.749	199.163	174.153	146.805	126.065	115.289	114.780
18.5	247.047	243.489	223.359	199.061	173.340	145.382	124.337	113.357	112.849
19.0	248.471	244.607	223.969	198.960	172.527	143.958	122.609	111.426	110.816
19.5	249.792	245.624	224.579	198.858	171.713	142.535	120.779	109.596	108.782
20.0	251.419	246.641	224.986	198.655	170.798	141.112	119.050	107.664	106.749
20.5	252.944	247.657	225.494	198.451	169.883	139.587	117.322	105.834	104.716
21.0	254.367	248.674	226.003	198.350	169.070	138.164	115.594	104.004	102.784
21.5	255.587	249.792	226.511	198.045	168.053	136.639	113.764	102.072	100.751
22.0	256.807	250.707	226.918	197.841	167.138	135.114	112.035	100.242	98.717
22.5	258.027	251.622	227.426	197.536	166.122	133.690	110.307	98.412	96.684
23.0	259.451	252.639	227.833	197.231	165.105	132.064	108.477	96.684	94.752
23.5	260.671	253.554	228.138	197.028	164.088	130.539	106.647	94.854	92.719
24.0	262.094	254.571	228.544	196.621	162.970	129.014	104.919	93.126	90.686
24.5	263.416	255.486	228.951	196.316	161.852	127.387	103.191	91.296	88.856
25.0	264.534	256.401	229.256	196.011	160.835	125.862	101.462	89.567	86.822
25.5	265.551	257.316	229.561	195.605	159.717	124.235	99.734	87.737	84.789
26.0	266.669	258.129	229.764	195.300	158.598	122.609	98.006	85.907	82.857
26.5	267.686	258.942	229.968	194.893	157.378	121.084	96.277	84.179	80.926

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27.0	268.906	259.654	230.171	194.283	156.158	119.355	94.447	82.349	79.096
27.5	270.024	260.366	230.374	193.775	154.938	117.729	92.719	80.519	77.063
28.0	271.142	261.179	230.578	193.165	153.718	116.102	90.889	78.791	75.233
28.5	272.057	261.891	230.781	192.555	152.498	114.475	89.161	76.961	73.301
29.0	272.667	262.704	230.984	192.046	151.278	112.849	87.432	75.233	71.471
29.5	273.277	263.416	230.883	191.335	149.855	111.121	85.704	73.403	69.641
30.0	273.989	264.026	230.679	190.725	148.635	109.494	83.874	71.674	67.811
30.5	274.700	264.229	230.578	190.013	147.212	107.766	82.247	69.946	65.981
31.0	275.514	264.534	230.578	189.403	145.890	106.037	80.417	68.218	64.151
31.5	276.327	264.941	230.679	188.691	144.568	104.411	78.689	66.489	62.423
32.0	276.835	265.449	230.984	187.878	143.145	102.682	76.961	64.659	60.694
32.5	277.242	266.262	231.289	187.268	141.824	100.954	75.233	63.033	58.966
33.0	277.750	266.974	231.391	186.455	140.299	99.226	73.403	61.304	57.238
33.5	278.360	267.482	231.086	185.540	138.977	97.497	71.674	59.576	55.509
34.0	278.970	267.381	230.069	184.523	137.350	95.871	69.946	57.848	53.883
34.5	279.682	266.771	229.358	183.405	135.927	94.142	68.116	56.221	52.256
35.0	280.292	266.567	229.053	182.388	134.504	92.414	66.388	54.493	50.629
35.5	280.495	266.771	228.646	181.473	132.877	90.686	64.761	52.866	49.003
36.0	280.495	266.974	228.239	180.456	131.352	88.957	63.033	51.239	47.478
36.5	280.699	267.076	227.731	179.440	129.725	87.229	61.304	49.714	45.953
37.0	280.902	266.771	227.324	178.423	128.200	85.501	59.678	48.088	44.530
37.5	281.207	266.262	226.816	177.305	126.574	83.772	58.051	46.563	43.005
38.0	281.614	265.754	226.206	176.186	124.947	82.146	56.424	45.140	41.683
38.5	281.919	265.551	225.494	175.068	123.320	80.417	54.798	43.615	40.260
39.0	281.919	265.652	224.783	173.848	121.694	78.893	53.273	42.191	38.938
39.5	281.919	265.957	224.071	172.628	119.965	77.164	51.748	40.768	37.616
40.0	282.020	265.957	223.258	171.408	118.339	75.436	50.223	39.446	36.396
40.5	282.020	265.246	222.444	170.188	116.610	73.911	48.698	38.125	35.176
41.0	282.325	264.331	221.529	168.867	114.984	72.284	47.173	36.803	33.956
41.5	282.427	263.619	220.614	167.647	113.357	70.658	45.750	35.583	32.838
42.0	282.427	263.111	219.801	166.325	111.629	69.031	44.326	34.363	31.618
42.5	282.020	262.806	218.886	164.902	109.901	67.404	42.903	33.245	30.500
43.0	281.614	262.501	218.276	163.580	108.172	65.879	41.480	32.126	29.381
43.5	281.309	261.992	218.378	162.157	106.444	64.253	40.158	31.008	28.365
44.0	281.105	261.586	217.971	160.835	104.817	62.728	38.938	29.991	27.348
44.5	281.004	261.077	216.751	159.412	103.089	61.101	37.616	28.975	26.331
45.0	280.699	260.569	215.124	158.090	101.361	59.576	36.396	27.958	25.416
45.5	280.292	260.061	213.803	156.768	99.632	58.051	35.278	27.043	24.501
46.0	279.784	259.552	212.684	155.345	97.802	56.526	34.160	26.026	23.586
46.5	279.479	258.942	211.871	154.023	96.176	55.001	33.041	25.111	22.671
47.0	279.174	258.332	211.058	152.600	94.447	53.578	31.923	24.196	21.756
47.5	278.970	257.621	210.244	151.177	92.719	52.053	30.906	23.281	20.943
48.0	278.767	257.011	209.024	149.855	90.889	50.629	29.991	22.468	20.130
48.5	278.259	256.299	207.906	148.635	89.161	49.206	28.975	21.655	19.418
49.0	277.547	255.587	206.686	147.517	87.331	47.783	28.161	20.841	18.605
49.5	276.937	254.876	205.670	145.992	85.501	46.360	27.246	20.028	17.893
50.0	276.327	254.164	204.653	144.263	83.772	44.936	26.331	19.215	17.181
50.5	275.920	253.351	203.535	142.637	81.942	43.615	25.518	18.503	16.470
51.0	275.209	252.537	202.518	141.010	80.112	42.293	24.705	17.791	15.758
51.5	274.497	251.521	201.400	139.384	78.384	40.971	23.790	17.080	15.047
52.0	273.582	250.606	200.180	137.859	76.554	39.751	22.976	16.368	14.437
52.5	272.667	249.691	198.960	136.334	74.724	38.430	22.061	15.758	13.827
53.0	271.752	248.674	197.841	134.809	72.894	37.108	21.350	15.148	13.217
53.5	271.041	247.556	196.621	133.284	71.166	35.888	20.536	14.437	12.708
54.0	270.126	246.437	195.503	131.555	69.438	34.668	19.825	13.928	12.098
54.5	269.007	245.726	194.283	129.725	67.709	33.550	19.113	13.318	11.590

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55.0	267.787	245.624	192.656	127.895	65.981	32.431	18.300	12.708	11.082
55.5	266.669	245.319	190.928	126.167	64.253	31.313	17.588	12.200	10.573
56.0	265.551	243.692	189.403	124.439	62.524	30.195	16.978	11.692	10.167
56.5	264.432	241.151	187.878	122.710	60.898	29.178	16.266	11.183	9.658
57.0	263.212	239.016	186.353	120.880	59.271	28.161	15.657	10.675	9.252
57.5	261.789	237.796	184.726	119.152	57.644	27.145	15.047	10.268	8.845
58.0	260.366	236.881	183.100	117.322	56.018	26.230	14.538	9.862	8.438
58.5	259.044	235.763	181.473	115.390	54.391	25.315	13.928	9.455	8.032
59.0	257.722	233.729	179.846	113.560	52.764	24.400	13.420	9.048	7.727
59.5	256.299	231.594	178.220	111.832	51.239	23.586	12.810	8.642	7.422
60.0	254.672	230.374	176.491	109.901	49.613	22.671	12.302	8.337	7.117
60.5	253.147	229.053	174.763	108.071	48.088	21.858	11.793	8.032	6.812
61.0	251.521	227.324	173.137	106.139	46.563	21.045	11.387	7.625	6.608
61.5	250.097	225.189	171.612	104.309	45.038	20.333	10.980	7.320	6.303
62.0	248.572	223.868	170.188	102.377	43.615	19.520	10.573	7.117	6.100
62.5	246.946	223.258	168.562	100.649	42.293	18.808	10.167	6.812	5.897
63.0	245.217	222.444	166.223	98.921	40.870	18.096	9.760	6.608	5.693
63.5	243.489	220.106	164.800	96.989	39.548	17.385	9.353	6.405	5.490
64.0	241.862	217.056	164.088	94.854	38.328	16.775	9.048	6.202	5.287
64.5	240.134	214.718	162.665	92.821	37.006	16.165	8.743	5.998	5.083
65.0	238.304	212.888	159.615	90.889	35.888	15.555	8.438	5.795	4.982
65.5	236.474	210.956	156.972	88.957	34.668	14.945	8.133	5.693	4.778
66.0	234.644	209.126	155.040	87.127	33.550	14.335	7.828	5.490	4.677
66.5	232.814	207.296	153.108	85.094	32.431	13.725	7.523	5.388	4.473
67.0	230.984	205.466	151.075	83.162	31.415	13.217	7.320	5.185	4.372
67.5	229.053	203.535	149.143	81.231	30.398	12.607	7.117	5.083	4.270
68.0	227.019	201.400	147.110	79.299	29.381	12.098	6.812	4.982	4.168
68.5	224.986	199.468	144.975	77.368	28.466	11.590	6.608	4.778	4.067
69.0	222.953	197.333	142.840	75.436	27.551	11.082	6.405	4.677	3.965
69.5	220.919	195.198	141.010	73.504	26.636	10.675	6.303	4.575	3.863
70.0	218.784	193.165	139.384	71.471	25.721	10.268	6.100	4.473	3.762
70.5	216.649	190.928	137.350	69.539	24.806	9.862	5.897	4.372	3.660
71.0	214.413	188.793	134.809	67.608	23.993	9.455	5.795	4.270	3.558
71.5	212.176	186.556	133.080	65.879	23.180	9.048	5.693	4.168	3.457
72.0	210.041	184.320	131.759	63.948	22.366	8.743	5.490	4.067	3.355
72.5	207.703	182.185	129.115	61.914	21.655	8.337	5.388	4.067	3.355
73.0	205.365	179.846	126.065	59.983	20.841	8.032	5.287	3.965	3.355
73.5	203.128	177.610	123.829	58.153	20.130	7.727	5.185	3.863	3.253
74.0	200.790	175.272	121.490	56.424	19.418	7.523	5.083	3.863	3.152
74.5	198.451	172.933	119.254	54.696	18.706	7.218	4.982	3.762	3.152
75.0	196.011	170.595	117.119	52.968	17.893	7.015	4.880	3.762	3.050
75.5	193.571	168.155	114.882	51.341	17.080	6.812	4.778	3.660	3.050
76.0	191.233	165.817	112.747	49.714	16.368	6.608	4.778	3.660	2.948
76.5	188.793	163.580	110.409	48.291	15.657	6.405	4.677	3.558	2.948
77.0	186.353	161.953	108.172	46.766	14.945	6.202	4.677	3.558	2.948
77.5	183.913	161.038	106.037	45.445	14.335	6.100	4.575	3.457	2.948
78.0	181.473	158.192	104.106	44.021	13.725	5.897	4.575	3.457	2.847
78.5	179.033	154.430	102.479	42.700	13.217	5.795	4.473	3.457	2.847
79.0	176.491	152.295	99.734	41.480	12.810	5.693	4.473	3.457	2.847
79.5	173.950	150.465	97.192	40.260	12.200	5.592	4.372	3.457	2.847
80.0	171.510	147.415	94.854	39.040	11.692	5.490	4.372	3.457	2.847
80.5	168.765	144.365	92.617	37.921	11.183	5.388	4.372	3.355	2.847
81.0	166.223	142.027	90.381	36.905	10.675	5.287	4.372	3.355	2.847
81.5	163.580	139.282	88.144	35.786	10.268	5.287	4.270	3.457	2.847
82.0	160.835	136.842	85.907	34.668	9.760	5.185	4.270	3.355	2.847
82.5	158.192	135.825	83.671	33.651	9.252	5.185	4.270	3.457	2.847

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83.0	155.447	133.487	81.536	32.736	8.743	5.083	4.270	3.457	2.948
83.5	152.702	129.420	79.706	31.720	8.235	5.083	4.270	3.457	2.948
84.0	150.058	126.065	78.588	30.703	7.828	4.982	4.270	3.457	3.050
84.5	147.212	123.422	75.741	29.788	7.422	4.982	4.270	3.558	3.152
85.0	144.568	120.880	73.098	28.873	7.015	4.982	4.372	3.558	3.253
85.5	141.722	118.542	70.963	27.958	6.710	4.982	4.372	3.660	3.355
86.0	138.977	116.102	68.929	27.043	6.405	4.982	4.473	3.762	3.558
86.5	136.435	113.662	66.998	26.128	6.202	4.982	4.473	3.863	3.762
87.0	133.589	110.816	65.066	25.213	5.998	4.982	4.575	4.067	3.965
87.5	130.945	108.376	63.236	24.298	5.795	4.982	4.778	4.168	4.168
88.0	128.302	105.936	61.406	23.485	5.693	5.083	4.880	4.473	4.372
88.5	125.659	103.394	59.779	22.671	5.592	5.083	5.083	4.677	4.677
89.0	123.117	101.056	58.458	21.858	5.592	5.388	5.388	4.982	4.982
89.5	120.372	98.717	56.424	21.248	6.507	6.812	6.303	5.693	5.592
90.0	113.764	92.821	50.629	16.470	2.542	4.372	4.473	4.982	5.998
90.5	111.121	90.686	49.409	16.978	4.575	7.727	7.523	7.523	9.455
91.0	108.681	88.754	48.901	19.520	7.320	11.387	11.793	11.387	14.538
91.5	106.444	87.331	49.714	23.078	11.387	16.470	17.181	16.775	20.841
92.0	104.614	86.924	52.256	28.263	16.165	22.366	23.688	23.180	27.958
92.5	103.597	88.042	56.424	34.363	21.146	28.060	30.500	30.093	34.871
93.0	103.801	90.787	62.118	40.565	26.230	33.346	36.905	37.108	41.480
93.5	105.732	95.159	68.624	46.766	31.516	38.328	43.005	43.818	47.986
94.0	109.697	100.852	75.639	52.866	36.701	43.310	48.799	50.223	54.493
94.5	114.984	107.461	83.061	58.966	41.988	48.393	54.188	56.424	60.796
95.0	121.389	114.475	90.482	65.168	47.376	53.374	59.474	62.321	66.489
95.5	128.505	121.999	98.006	71.471	52.764	58.559	64.456	67.811	71.776
96.0	135.825	129.522	105.732	77.774	58.153	63.744	69.438	73.098	76.758
96.5	143.552	137.249	113.357	84.077	63.643	69.031	74.419	78.181	82.146
97.0	151.482	145.178	121.185	90.482	69.133	74.216	79.503	83.162	87.229
97.5	159.310	153.413	129.115	96.887	74.623	79.503	84.484	88.144	92.211
98.0	167.545	161.953	137.350	103.597	80.214	84.789	89.567	93.227	97.091
98.5	176.085	170.493	145.687	110.307	85.806	89.974	94.549	98.311	101.971
99.0	184.726	179.338	154.227	117.017	91.296	95.159	99.632	103.191	107.054
99.5	193.876	188.488	162.970	123.829	96.989	100.446	104.817	108.274	112.239
100.0	203.026	197.943	172.120	130.742	102.479	105.732	109.901	113.357	117.220
100.5	212.684	207.906	181.473	137.757	108.071	111.019	115.085	118.440	122.304
101.0	222.953	218.378	191.335	144.975	113.764	116.204	120.169	123.625	127.184
101.5	233.628	228.951	201.298	152.498	119.355	121.389	125.354	128.607	132.369
102.0	244.811	240.134	211.668	159.920	125.049	126.675	130.437	133.690	137.554
102.5	256.299	251.826	222.444	167.545	130.742	131.962	135.622	138.977	142.739
103.0	268.702	264.127	233.729	175.373	136.334	137.249	140.807	144.162	147.720
103.5	281.512	277.140	245.319	183.506	142.027	142.535	145.992	149.347	152.803
104.0	294.729	290.459	257.316	191.843	147.822	147.720	151.177	154.430	157.785
104.5	309.063	304.285	269.617	200.281	153.617	153.007	156.158	159.615	162.970
105.0	323.805	318.722	282.630	208.821	159.513	158.395	161.343	164.698	168.155
105.5	339.258	333.870	295.949	217.564	165.308	163.783	166.528	169.883	173.035
106.0	355.321	349.933	309.572	226.714	171.205	169.273	171.612	174.967	178.016
106.5	372.198	366.505	323.602	236.068	177.305	174.560	176.695	180.050	182.998
107.0	389.989	383.381	338.140	245.624	183.405	179.948	181.778	184.930	187.980
107.5	408.289	400.766	353.186	255.181	189.606	185.235	186.963	190.013	192.961
108.0	427.301	419.167	368.639	265.144	195.808	190.725	192.046	195.096	197.943
108.5	447.125	438.280	384.398	275.310	202.111	196.113	197.231	200.281	202.925
109.0	467.357	458.004	400.461	285.782	208.618	201.501	202.416	205.263	207.804
109.5	488.605	478.133	417.032	296.457	215.124	206.991	207.499	210.244	212.786
110.0	510.260	498.466	434.010	307.233	221.733	212.481	212.684	215.226	217.869
110.5	532.524	519.715	451.497	318.213	228.341	218.073	217.971	220.411	222.851

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CANDELA TABULATION - (Cont.)

111.0	555.704	541.979	469.288	329.600	235.254	223.868	223.258	225.698	227.934
111.5	578.986	564.651	487.385	340.986	242.167	229.561	228.544	230.883	232.814
112.0	603.284	587.831	505.990	352.678	249.284	235.356	233.933	235.966	237.999
112.5	627.988	610.909	525.001	364.573	256.401	241.151	239.524	241.151	243.082
113.0	653.405	634.698	544.419	376.773	263.721	247.149	245.014	246.437	248.267
113.5	679.228	659.403	564.244	388.973	271.244	253.351	250.606	252.029	253.554
114.0	705.559	684.616	584.374	401.579	278.767	259.552	256.197	257.417	258.739
114.5	732.399	710.236	604.910	414.186	286.494	265.652	261.992	262.907	264.127
115.0	759.645	735.652	626.158	427.097	294.220	271.955	267.889	268.194	269.312
115.5	783.842	761.679	647.712	440.212	302.049	278.360	273.785	273.785	274.700
116.0	812.308	784.147	669.570	453.632	309.978	284.969	279.784	279.479	280.190
116.5	840.673	810.783	691.834	467.052	318.213	291.577	285.884	285.172	285.782
117.0	869.546	838.233	714.404	480.573	326.347	298.389	291.984	290.865	291.272
117.5	899.232	865.378	737.381	494.400	334.785	305.200	298.287	296.559	296.660
118.0	928.715	893.031	759.747	508.735	343.223	312.113	304.488	302.557	302.252
118.5	959.520	920.480	780.385	523.476	351.763	319.230	310.792	308.657	308.047
119.0	989.918	948.133	803.463	538.014	360.608	326.550	317.400	314.655	313.943
119.5	1019.706	976.295	827.355	552.349	369.453	333.870	324.110	320.755	319.840
120.0	1051.222	1004.863	851.551	567.091	378.196	341.393	330.820	326.957	325.838
120.5	1080.705	1032.923	875.748	582.341	387.143	349.018	337.530	333.565	331.837
121.0	1111.205	1062.406	899.842	597.794	396.598	356.846	344.443	340.275	338.343
121.5	1141.705	1090.872	923.632	613.145	406.052	364.878	351.458	347.086	344.850
122.0	1172.204	1120.355	948.032	628.293	415.406	373.011	358.778	353.898	351.560
122.5	1202.704	1149.838	972.025	643.442	424.759	381.246	365.996	360.811	358.168
123.0	1234.220	1180.338	996.323	658.895	434.417	389.684	373.418	368.131	364.878
123.5	1265.737	1209.821	1020.723	674.450	444.380	398.224	380.941	375.451	371.893
124.0	1298.270	1239.304	1045.122	690.309	454.344	406.967	388.566	382.771	379.213
124.5	1329.786	1269.803	1068.505	705.864	464.205	415.609	396.394	390.193	386.431
125.0	1361.302	1298.270	1092.905	720.809	474.067	424.556	404.527	397.614	393.548
125.5	1393.835	1328.769	1115.272	735.347	483.928	433.604	412.661	405.341	400.766
126.0	1427.385	1358.252	1136.621	749.580	493.993	442.754	420.794	413.169	407.984
126.5	1458.901	1385.702	1157.971	762.390	504.058	451.904	429.029	420.997	415.507
127.0	1488.384	1411.119	1177.288	774.184	513.920	461.155	437.569	428.724	423.336
127.5	1517.867	1433.485	1193.554	784.858	523.680	470.610	446.312	436.552	431.062
128.0	1543.284	1453.818	1206.771	794.720	533.338	480.167	454.954	444.482	438.890
128.5	1565.650	1470.085	1218.971	804.277	542.996	489.825	463.697	452.615	446.820
129.0	1583.950	1483.301	1228.120	813.528	552.451	499.585	472.542	460.850	454.750
129.5	1599.200	1492.451	1235.237	820.543	561.702	509.243	481.590	468.882	462.985
130.0	1610.383	1499.568	1240.320	827.558	570.751	518.800	490.638	477.320	471.322
130.5	1617.500	1504.651	1243.370	833.556	579.596	528.458	499.788	485.860	479.862
131.0	1621.566	1507.701	1245.404	838.436	588.237	538.218	508.836	494.603	488.402
131.5	1623.600	1507.701	1246.420	842.808	596.574	547.774	518.088	503.346	496.941
132.0	1622.583	1507.701	1246.420	845.959	604.605	557.026	527.136	512.191	505.583
132.5	1620.550	1504.651	1244.387	849.111	612.230	565.972	536.184	521.138	514.631
133.0	1617.500	1501.601	1243.370	851.348	619.855	575.021	545.436	530.186	523.781
133.5	1612.416	1498.551	1241.337	853.788	627.175	583.866	554.383	539.438	533.033
134.0	1607.333	1493.468	1237.270	855.414	634.292	591.999	563.431	548.588	542.183
134.5	1601.233	1488.384	1235.237	857.346	640.900	600.234	572.174	557.534	551.231
135.0	1595.133	1483.301	1231.170	858.261	647.305	608.062	580.917	566.582	560.177
135.5	1589.033	1477.201	1228.120	859.481	653.608	615.890	589.254	575.427	569.226
136.0	1581.917	1471.101	1224.054	860.701	659.810	623.413	597.489	584.374	578.477
136.5	1575.817	1465.001	1219.987	860.904	665.605	630.733	605.419	592.914	587.424
137.0	1567.684	1456.868	1216.937	862.124	671.298	637.748	613.145	601.352	595.964
137.5	1559.550	1448.735	1211.854	863.039	676.686	644.662	620.770	609.587	604.300
138.0	1550.400	1441.618	1207.787	864.158	681.973	651.473	627.887	617.517	612.434
138.5	1541.251	1433.485	1203.721	864.971	687.158	657.980	634.800	624.938	620.465

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CANDELA TABULATION - (Cont.)

139.0	1532.101	1425.352	1198.637	865.174	692.241	664.385	641.408	632.258	628.293
139.5	1522.951	1418.235	1194.571	865.784	697.121	670.586	648.118	639.273	635.817
140.0	1513.801	1410.102	1189.488	866.191	701.798	676.585	654.421	646.797	643.035
140.5	1504.651	1401.969	1185.421	866.394	706.474	682.583	660.623	653.405	649.948
141.0	1495.501	1394.852	1180.338	866.598	710.948	688.479	666.520	659.708	656.658
141.5	1486.351	1387.735	1174.238	866.801	715.218	694.173	672.213	665.808	663.368
142.0	1477.201	1380.619	1168.138	867.106	719.386	699.561	677.805	671.705	669.976
142.5	1467.035	1373.502	1162.038	867.513	723.351	704.746	683.193	677.601	676.381
143.0	1456.868	1366.386	1155.938	867.309	727.417	709.931	688.581	683.396	682.888
143.5	1447.718	1360.286	1149.838	867.614	731.382	715.014	693.664	688.988	689.191
144.0	1437.552	1353.169	1144.755	867.818	735.144	719.996	698.443	694.478	695.494
144.5	1427.385	1346.053	1138.655	868.428	738.702	724.672	703.119	699.663	701.899
145.0	1416.202	1337.919	1132.555	868.631	742.464	729.349	707.694	704.848	708.203
145.5	1406.035	1329.786	1126.455	868.936	746.022	733.822	712.066	709.728	714.303
146.0	1395.869	1321.653	1120.355	868.529	749.580	738.499	716.336	714.608	720.097
146.5	1384.686	1312.503	1114.255	869.038	753.037	742.871	720.606	719.081	725.587
147.0	1372.486	1304.370	1108.155	868.936	756.290	747.141	724.672	723.452	730.671
147.5	1360.286	1295.220	1102.055	868.529	759.544	751.410	728.637	727.519	735.551
148.0	1348.086	1286.070	1095.955	868.123	762.797	755.579	732.501	731.382	739.821
148.5	1335.886	1276.920	1090.872	867.818	765.949	759.747	736.466	735.144	743.786
149.0	1323.686	1267.770	1084.772	867.309	768.897	763.814	740.227	738.906	747.242
149.5	1311.486	1258.620	1079.689	866.496	770.727	767.779	744.091	742.362	750.089
150.0	1300.303	1249.470	1073.589	866.293	771.642	771.540	748.056	745.921	752.935
150.5	1288.103	1239.304	1068.505	866.293	773.370	771.845	751.715	749.174	755.477
151.0	1275.903	1229.137	1062.406	865.784	776.319	775.200	755.274	752.529	757.917
151.5	1264.720	1219.987	1057.322	865.683	778.962	779.470	758.934	755.985	760.255
152.0	1253.537	1209.821	1051.222	865.276	781.707	782.825	762.390	759.340	762.695
152.5	1242.354	1198.637	1045.122	864.463	784.248	786.383	764.627	762.797	765.237
153.0	1233.204	1188.471	1040.039	864.259	786.993	789.637	767.677	765.847	767.982
153.5	1223.037	1179.321	1033.939	863.649	789.230	793.602	770.930	767.270	770.727
154.0	1212.871	1169.154	1027.839	863.243	791.975	796.855	774.285	770.625	773.574
154.5	1203.721	1160.005	1022.756	863.039	794.313	800.007	775.709	773.980	772.659
155.0	1194.571	1150.855	1016.656	862.531	796.652	803.057	779.165	777.030	775.709
155.5	1187.454	1140.688	1011.979	862.633	799.193	806.107	782.520	778.250	778.657
156.0	1179.321	1132.555	1006.693	862.633	801.430	809.360	785.468	781.402	781.503
156.5	1171.188	1123.405	1001.406	862.226	803.667	812.207	788.925	784.147	784.858
157.0	1163.055	1114.255	996.018	861.718	805.395	815.053	792.483	787.197	788.010
157.5	1153.905	1106.122	990.833	861.209	807.937	817.595	795.635	790.247	790.552
158.0	1145.771	1096.972	985.953	860.803	809.970	820.238	798.888	793.602	793.398
158.5	1136.621	1087.822	980.971	860.701	812.003	822.780	802.447	796.550	796.652
159.0	1126.455	1078.672	975.888	859.989	814.443	825.220	805.802	799.498	798.990
159.5	1116.288	1069.522	970.703	860.294	816.476	827.456	809.055	802.650	802.548
160.0	1106.122	1061.389	966.128	860.294	818.306	829.591	812.410	805.700	805.293
160.5	1095.955	1052.239	961.553	859.684	820.543	831.726	815.968	808.953	809.462
161.0	1084.772	1044.106	956.877	860.193	822.576	833.760	818.916	811.698	812.410
161.5	1074.605	1034.956	952.302	860.193	824.406	835.590	821.865	814.748	815.358
162.0	1064.439	1025.806	947.523	860.294	826.541	837.623	825.728	817.696	818.713
162.5	1054.272	1016.656	942.745	860.396	828.473	839.758	828.270	820.543	821.356
163.0	1043.089	1008.116	938.272	860.701	830.100	841.385	830.913	823.186	824.915
163.5	1031.906	999.983	933.494	861.311	832.133	842.605	834.065	826.135	827.456
164.0	1021.739	991.138	929.122	861.209	833.861	844.130	836.911	828.981	830.405
164.5	1011.776	983.106	924.649	861.311	835.691	845.756	839.555	831.726	833.150
165.0	1002.423	975.075	920.277	861.718	837.420	847.078	841.588	834.370	835.996
165.5	992.561	967.552	915.194	861.616	839.453	848.704	844.231	837.521	839.148
166.0	984.225	960.638	910.619	861.819	840.978	849.721	846.163	840.571	841.283
166.5	975.380	953.623	906.451	861.819	842.198	851.144	848.094	842.808	843.926

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167.0	967.043	946.812	902.384	861.616	843.723	852.364	849.924	845.756	846.569
167.5	959.317	939.594	898.012	861.616	845.045	852.873	851.449	848.501	849.416
168.0	951.997	933.189	894.047	861.108	846.976	853.889	852.771	851.246	851.449
168.5	943.965	926.072	890.692	861.108	847.688	854.906	854.093	853.279	854.499
169.0	936.340	920.074	887.032	861.006	849.314	855.414	855.313	855.414	856.838
169.5	929.834	913.669	883.576	861.006	850.331	856.024	856.228	857.956	858.363
170.0	922.412	908.179	880.526	860.803	851.856	856.634	856.838	859.176	861.006
170.5	915.499	902.587	877.984	861.108	852.873	856.838	857.448	860.701	862.633
171.0	910.619	897.809	874.833	861.514	853.686	857.244	857.549	862.023	863.649
171.5	904.519	892.726	872.596	861.108	854.703	857.753	857.448	863.039	865.479
172.0	898.927	888.761	870.461	861.413	855.313	857.753	857.448	863.243	865.988
172.5	893.946	884.491	868.529	861.311	856.126	858.261	857.956	863.853	866.293
173.0	889.167	881.339	866.699	861.413	857.041	858.769	857.549	864.361	866.598
173.5	884.897	877.476	864.869	861.616	857.854	858.363	857.244	863.649	866.496
174.0	881.746	874.121	863.243	861.514	858.159	858.871	856.634	863.446	865.479
174.5	877.171	870.969	861.819	861.616	858.668	858.973	856.024	862.734	864.564
175.0	873.003	868.428	860.701	861.718	858.769	858.769	855.618	861.616	863.344
175.5	869.546	865.784	859.379	861.413	859.278	858.769	855.313	861.006	862.328
176.0	867.106	863.751	858.058	860.803	859.481	858.464	854.804	859.786	860.193
176.5	864.158	861.819	856.939	860.803	859.583	858.566	854.499	858.668	859.074
177.0	862.124	859.786	855.821	860.599	859.888	858.668	853.788	857.854	857.651
177.5	859.888	857.956	854.804	860.193	860.294	858.464	853.686	856.838	856.329
178.0	858.871	856.939	854.296	859.888	859.989	858.769	853.381	855.618	855.618
178.5	857.143	855.923	853.788	859.583	860.091	858.973	852.466	854.804	854.093
179.0	856.024	854.601	853.076	859.481	860.193	858.668	852.568	854.296	854.194
179.5	854.804	854.601	852.974	859.176	860.193	858.973	852.059	854.194	855.008
180.0	855.719	855.719	855.719	855.719	855.719	855.719	855.719	855.719	855.719

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-4-L11-950-S-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	68.10	N.A.	1.70
0-30	145.01	N.A.	3.60
0-40	238.18	N.A.	6.00
0-60	429.22	N.A.	10.80
0-80	572.64	N.A.	14.40
0-90	616.18	N.A.	15.50
10-90	598.58	N.A.	15.00
20-40	170.08	N.A.	4.30
20-50	267.85	N.A.	6.70
40-70	271.66	N.A.	6.80
60-80	143.42	N.A.	3.60
70-80	62.80	N.A.	1.60
80-90	43.54	N.A.	1.10
90-110	310.01	N.A.	7.80
90-120	733.70	N.A.	18.40
90-130	1365.67	N.A.	34.30
90-150	2615.27	N.A.	65.70
90-180	3362.93	N.A.	84.50
110-180	3052.92	N.A.	76.70
0-180	3979.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	17.60
10-20	50.50
20-30	76.91
30-40	93.17
40-50	97.77
50-60	93.27
60-70	80.61
70-80	62.80
80-90	43.54
90-100	82.35
100-110	227.66
110-120	423.69
120-130	631.98
130-140	678.83
140-150	570.77
150-160	415.45
160-170	249.65
170-180	82.55

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	99	99	99	99	87	87	87	87	64	64	64	43	43	43	24	24	24	15
1	90	85	81	78	78	75	72	69	55	53	51	37	36	35	21	20	20	12
2	81	74	68	63	71	65	60	56	48	45	42	33	31	29	18	17	16	10
3	74	65	58	52	65	57	51	46	42	38	35	29	26	24	16	15	14	8
4	68	57	50	44	59	50	44	39	37	33	30	25	23	20	14	13	12	7
5	62	51	43	37	54	45	38	33	33	29	25	23	20	18	13	11	10	6
6	57	45	38	32	49	40	33	29	30	25	22	20	17	15	11	10	9	5
7	52	41	33	28	46	36	29	25	27	22	19	18	15	13	10	9	8	4
8	48	37	29	24	42	32	26	22	24	20	17	17	14	12	9	8	7	4
9	45	33	26	21	39	29	23	19	22	18	15	15	12	10	9	7	6	4
10	42	30	23	19	36	27	21	17	20	16	13	14	11	9	8	6	5	3

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-4-L11-950-S-DIM-UNV_.IES

UGR TABLE - CORRECTED

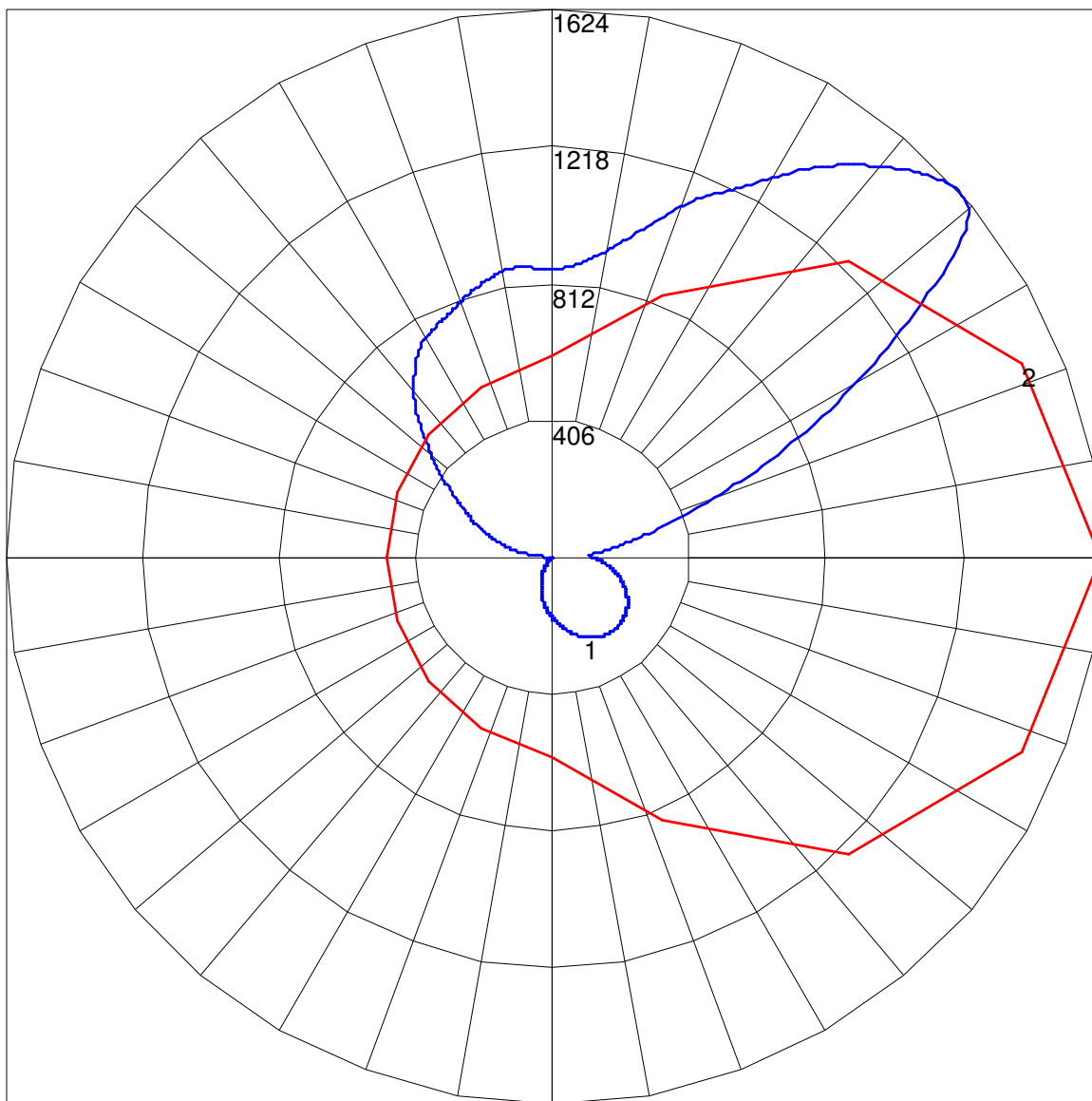
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	11.6	12.2	12.8	13.4	15.1	4.8	4.8	5.0	5.6	7.3
	3H	14.5	15.1	15.7	16.3	18.0	5.0	5.6	6.2	6.8	8.5
	4H	16.0	16.5	17.2	17.7	19.4	5.4	5.9	6.6	7.1	8.8
	6H	17.5	18.0	18.7	19.2	20.9	5.7	6.2	6.9	7.3	9.1
	8H	18.3	18.7	19.5	19.9	21.6	5.8	6.2	7.0	7.4	9.2
	12H	19.1	19.6	20.4	20.8	22.5	5.9	6.3	7.1	7.5	9.2
4H	2H	11.9	12.4	13.1	13.6	15.3	5.9	6.4	7.1	7.6	9.3
	3H	15.2	15.6	16.4	16.8	18.5	7.4	7.9	8.7	9.1	10.8
	4H	16.8	17.2	18.1	18.5	20.2	7.9	8.3	9.1	9.5	11.3
	6H	18.6	19.0	19.8	20.2	21.9	8.3	8.6	9.5	9.9	11.6
	8H	19.5	19.9	20.7	21.1	22.8	8.4	8.8	9.6	10.0	11.7
	12H	20.5	20.8	21.8	22.1	23.8	8.5	8.8	9.8	10.1	11.8
8H	4H	17.0	17.4	18.2	18.6	20.3	9.6	10.0	10.8	11.2	12.9
	6H	19.1	19.3	20.3	20.6	22.3	10.3	10.6	11.6	11.9	13.6
	8H	20.2	20.4	21.5	21.7	23.4	10.6	10.8	11.9	12.1	13.8
	12H	21.5	21.7	22.7	22.9	24.7	10.8	11.0	12.1	12.2	14.0
12H	4H	17.0	17.3	18.2	18.5	20.3	10.2	10.5	11.4	11.7	13.4
	6H	19.1	19.3	20.3	20.6	22.3	11.1	11.4	12.4	12.6	14.4
	8H	20.3	20.5	21.6	21.8	23.5	11.6	11.8	12.8	13.0	14.8

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 1623.6 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.)