



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AIWP33-8-L6-835-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19744.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 21-FEB-2020

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4-56 LED 22" ARRAYS 8' WALLMOUNT ASYMMETRIC LUMINAIRE

[MORE] WHITE REFL, PERF BOTTOM w/WHITE ACRYLIC OVERLAY & CLEAR

[MORE] FROST ACRYLIC TOP LENS

[LUMCAT] AIWP33-8-L6/835-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	62.7
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 w/Sides
Luminous Length (0-180)	0.31 ft
Luminous Width (90-270)	8.00 ft
Luminous Height	0.19 ft



### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1376	1143	494
55	1368	1092	362
65	1315	999	193
75	1158	834	102
85	969	597	0

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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>
<b>0</b>	158.029	158.029	158.029	158.029	158.029	158.029	158.029	158.029	158.029
<b>5</b>	176.327	201.278	196.288	184.644	166.346	146.384	131.413	134.740	114.779
<b>10</b>	216.250	224.567	216.250	194.625	156.365	124.759	113.115	111.452	101.471
<b>15</b>	256.173	254.509	229.557	201.278	148.048	108.125	99.807	94.817	108.125
<b>20</b>	279.461	274.471	244.528	206.269	138.067	93.154	84.836	79.846	101.471
<b>25</b>	302.749	296.096	256.173	207.932	128.086	78.183	78.183	63.211	79.846
<b>30</b>	331.028	316.057	267.817	206.269	118.106	64.875	66.538	49.904	63.211
<b>35</b>	347.663	329.365	274.471	202.942	111.452	49.904	53.231	36.596	48.240
<b>40</b>	360.970	337.682	277.797	194.625	101.471	43.250	36.596	26.615	33.269
<b>45</b>	362.634	336.019	271.144	182.980	83.173	31.606	21.625	18.298	19.961
<b>50</b>	355.980	326.038	257.836	168.009	64.875	23.288	13.308	8.317	11.644
<b>55</b>	339.345	311.067	237.874	148.048	49.904	13.308	6.654	1.663	3.327
<b>60</b>	321.047	294.432	217.913	123.096	34.933	6.654	1.663	0.000	0.000
<b>65</b>	296.096	269.480	191.298	98.144	19.961	1.663	0.000	0.000	0.000
<b>70</b>	264.490	234.548	163.019	73.192	11.644	0.000	0.000	0.000	0.000
<b>75</b>	226.230	197.952	133.077	48.240	6.654	0.000	0.000	0.000	0.000
<b>80</b>	191.298	159.692	101.471	29.942	0.000	0.000	0.000	0.000	0.000
<b>85</b>	154.702	124.759	73.192	18.298	0.000	0.000	0.000	0.000	0.000
<b>90</b>	136.404	123.096	79.846	31.606	0.000	4.990	1.663	0.000	3.327
<b>95</b>	377.605	375.942	272.807	123.096	53.231	51.567	59.884	56.558	54.894
<b>100</b>	643.758	643.758	474.086	256.173	148.048	113.115	113.115	128.086	119.769
<b>105</b>	923.219	893.277	678.691	405.884	246.192	204.605	191.298	199.615	177.990
<b>110</b>	1152.776	1087.902	848.364	537.297	329.365	307.740	291.105	276.134	256.173
<b>115</b>	1305.815	1237.613	988.094	662.056	420.855	407.547	389.249	362.634	339.345
<b>120</b>	1410.612	1340.747	1092.892	763.527	515.672	494.047	470.759	449.134	420.855
<b>125</b>	1478.814	1407.285	1171.074	836.719	593.855	577.220	535.633	525.653	497.374
<b>130</b>	1520.401	1445.545	1220.978	894.940	660.393	653.739	595.518	600.508	557.258
<b>135</b>	1533.708	1467.170	1247.593	941.517	716.950	716.950	658.729	667.047	620.470
<b>140</b>	1528.718	1463.843	1250.920	966.469	771.845	768.518	723.604	720.277	687.008
<b>145</b>	1483.805	1432.237	1234.286	978.113	826.739	823.412	793.469	773.508	746.893
<b>150</b>	1422.257	1369.026	1201.017	988.094	866.662	866.662	850.027	823.412	795.133
<b>155</b>	1322.449	1285.853	1152.776	991.421	901.594	903.258	901.594	876.642	836.719
<b>160</b>	1206.007	1197.690	1097.882	989.758	926.546	933.200	939.854	923.219	889.950
<b>165</b>	1096.219	1097.882	1044.652	981.440	944.844	949.835	958.152	951.498	939.854
<b>170</b>	1013.046	1006.392	998.075	971.459	954.825	961.479	961.479	961.479	961.479
<b>175</b>	963.142	961.479	968.133	959.815	956.488	964.806	959.815	954.825	949.835
<b>180</b>	954.825	954.825	954.825	954.825	954.825	954.825	954.825	954.825	954.825

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	62.00	N.A.	1.30
0-30	137.14	N.A.	2.80
0-40	235.47	N.A.	4.90
0-60	450.36	N.A.	9.30
0-80	606.53	N.A.	12.50
0-90	650.34	N.A.	13.40
10-90	634.84	N.A.	13.10
20-40	173.47	N.A.	3.60
20-50	282.99	N.A.	5.80
40-70	305.04	N.A.	6.30
60-80	156.17	N.A.	3.20
70-80	66.01	N.A.	1.40
80-90	43.80	N.A.	0.90
90-110	611.36	N.A.	12.60
90-120	1261.91	N.A.	26.10
90-130	2001.82	N.A.	41.40
90-150	3347.94	N.A.	69.20
90-180	4189.15	N.A.	86.60
110-180	3577.79	N.A.	73.90
0-180	4839.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	15.50
10-20	46.51
20-30	75.13
30-40	98.34
40-50	109.52
50-60	105.36
60-70	90.16
70-80	66.01
80-90	43.80
90-100	169.81
100-110	441.55
110-120	650.55
120-130	739.92
130-140	722.19
140-150	623.93
150-160	467.45
160-170	281.63
170-180	92.13

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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	100	100	100	100	88	88	88	88	64	64	64	43	43	43	23	23	23	14
1	91	87	83	79	79	76	73	70	55	53	52	37	36	34	20	19	18	11
2	83	75	69	64	72	66	61	57	48	45	42	32	30	28	17	16	15	9
3	75	66	59	53	65	58	52	47	42	38	35	28	26	24	15	14	13	7
4	68	58	50	44	59	51	44	39	37	33	30	25	22	20	13	12	11	6
5	63	51	43	38	54	45	38	33	33	29	25	22	19	17	12	10	9	5
6	57	46	38	32	50	40	34	29	30	25	22	20	17	15	11	9	8	4
7	53	41	33	28	46	36	29	25	27	22	19	18	15	13	10	8	7	4
8	49	37	29	24	42	33	26	22	24	20	16	16	13	11	9	7	6	3
9	45	33	26	21	39	29	23	19	22	18	14	15	12	10	8	6	5	3
10	42	30	24	19	37	27	21	17	20	16	13	13	11	9	7	6	5	3

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**UGR TABLE - CORRECTED**

Reflectances

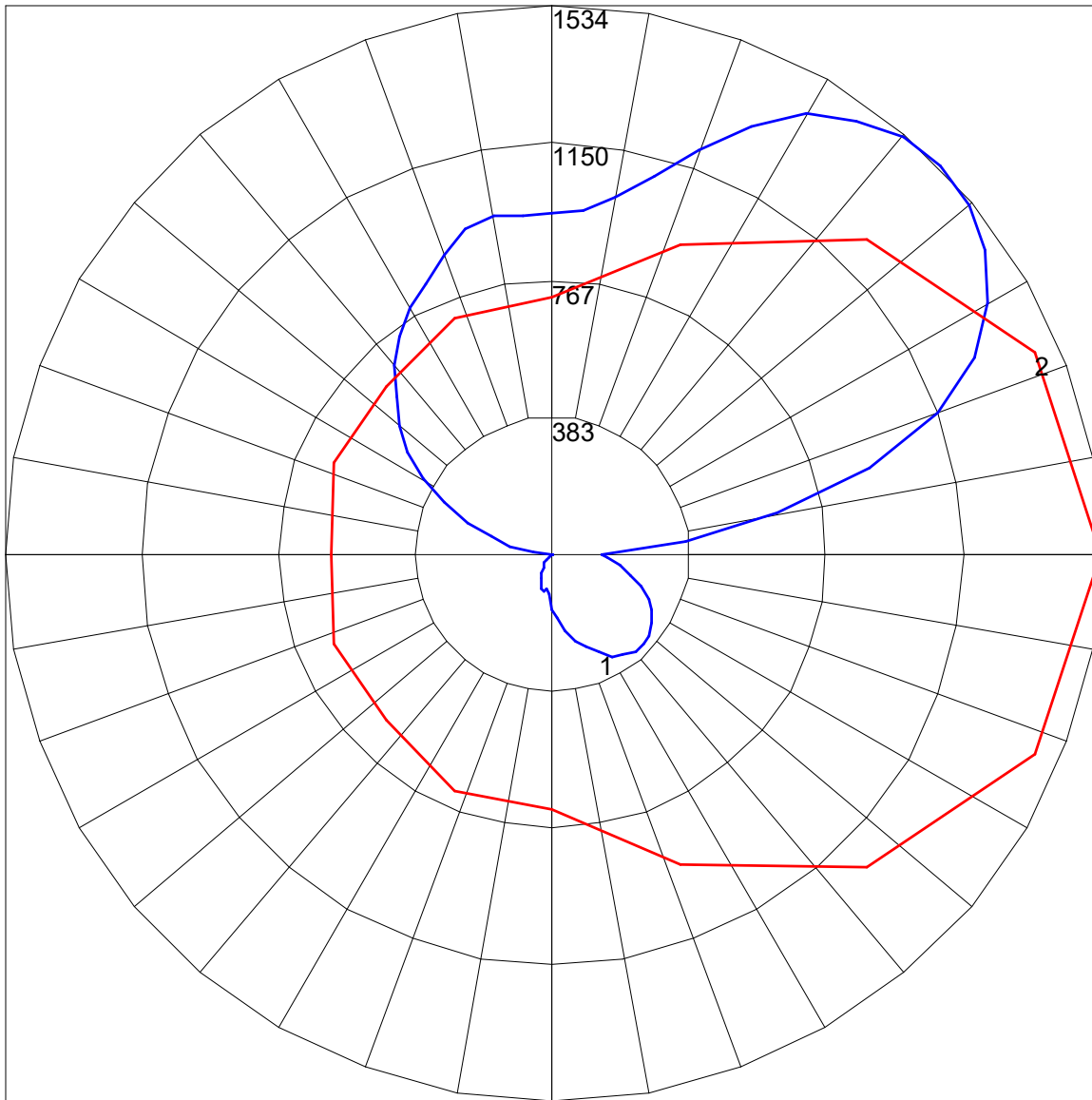
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	9.9	10.5	11.1	11.7	13.4	UGR Viewed Endwise				
	3H	12.2	12.7	13.4	13.9	15.7	5.4	5.4	5.4	5.4	5.4
	4H	13.1	13.7	14.4	14.9	16.6	5.4	5.4	5.4	5.4	5.4
	6H	14.0	14.5	15.2	15.7	17.4	5.4	5.4	5.4	5.4	5.4
	8H	14.3	14.8	15.6	16.0	17.7	5.4	5.4	5.4	5.4	5.4
	12H	14.7	15.1	15.9	16.3	18.1	5.4	5.4	5.4	5.4	5.4
4H	2H	10.2	10.7	11.4	11.9	13.6	5.4	5.4	5.4	5.4	6.8
	3H	12.7	13.2	14.0	14.4	16.1	5.4	5.4	5.6	6.0	7.7
	4H	13.9	14.3	15.1	15.5	17.2	5.4	5.4	5.7	6.1	7.8
	6H	14.9	15.2	16.1	16.5	18.2	5.4	5.4	5.7	6.0	7.8
	8H	15.3	15.7	16.6	16.9	18.7	5.4	5.4	5.7	6.0	7.7
	12H	15.7	16.0	17.0	17.3	19.0	5.4	5.4	5.6	5.9	7.6
8H	4H	14.0	14.3	15.2	15.5	17.3	6.1	6.5	7.4	7.7	9.5
	6H	15.2	15.4	16.4	16.7	18.5	6.4	6.6	7.6	7.9	9.7
	8H	15.8	16.0	17.0	17.2	19.0	6.4	6.6	7.6	7.9	9.6
	12H	16.3	16.5	17.6	17.8	19.6	6.3	6.5	7.6	7.8	9.6
12H	4H	13.9	14.2	15.2	15.4	17.2	6.6	6.9	7.8	8.1	9.9
	6H	15.2	15.4	16.4	16.6	18.4	7.0	7.2	8.2	8.5	10.3
	8H	15.8	16.0	17.1	17.3	19.1	7.1	7.3	8.4	8.5	10.4

Maximum UGR = 19.6

POLAR GRAPH



Maximum Candela = 1533.708 Located At Horizontal Angle = 0, Vertical Angle = 135  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)