



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AIWP33-4-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] 2-56 LED 22" ARRAYS 4' WALLMOUNT ASYMMETRIC LUMINAIRE

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

[MORE] FROST ACRYLIC TOP LENS

[LUMCAT] AIWP33-4-L6/835-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2461
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	32.7
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)	4.00 ft
Luminous Height	0.19 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1400	1149	491
55	1391	1095	356
65	1338	998	187
75	1178	829	96
85	986	588	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>	80.370	80.370	80.370	80.370	80.370	80.370	80.370	80.370	80.370
<b>5</b>	89.675	102.365	99.827	93.905	84.600	74.448	66.834	68.526	58.374
<b>10</b>	109.979	114.209	109.979	98.981	79.524	63.450	57.528	56.682	51.606
<b>15</b>	130.283	129.437	116.747	102.365	75.294	54.990	50.760	48.222	54.990
<b>20</b>	142.127	139.589	124.361	104.903	70.218	47.376	43.146	40.608	51.606
<b>25</b>	153.971	150.587	130.283	105.749	65.142	39.762	39.762	32.148	40.608
<b>30</b>	168.353	160.739	136.205	104.903	60.066	32.994	33.840	25.380	32.148
<b>35</b>	176.813	167.507	139.589	103.211	56.682	25.380	27.072	18.612	24.534
<b>40</b>	183.581	171.737	141.281	98.981	51.606	21.996	18.612	13.536	16.920
<b>45</b>	184.427	170.891	137.897	93.059	42.300	16.074	10.998	9.306	10.152
<b>50</b>	181.043	165.815	131.129	85.446	32.994	11.844	6.768	4.230	5.922
<b>55</b>	172.583	158.201	120.977	75.294	25.380	6.768	3.384	0.846	1.692
<b>60</b>	163.277	149.741	110.825	62.604	17.766	3.384	0.846	0.000	0.000
<b>65</b>	150.587	137.051	97.289	49.914	10.152	0.846	0.000	0.000	0.000
<b>70</b>	134.513	119.285	82.908	37.224	5.922	0.000	0.000	0.000	0.000
<b>75</b>	115.055	100.673	67.680	24.534	3.384	0.000	0.000	0.000	0.000
<b>80</b>	97.289	81.216	51.606	15.228	0.000	0.000	0.000	0.000	0.000
<b>85</b>	78.678	63.450	37.224	9.306	0.000	0.000	0.000	0.000	0.000
<b>90</b>	69.372	62.604	40.608	16.074	0.000	2.538	0.846	0.000	1.692
<b>95</b>	192.041	191.195	138.743	62.604	27.072	26.226	30.456	28.764	27.918
<b>100</b>	327.400	327.400	241.109	130.283	75.294	57.528	57.528	65.142	60.912
<b>105</b>	469.527	454.299	345.166	206.423	125.207	104.057	97.289	101.519	90.521
<b>110</b>	586.275	553.281	431.458	273.256	167.507	156.509	148.049	140.435	130.283
<b>115</b>	664.106	629.420	502.521	336.706	214.037	207.269	197.963	184.427	172.583
<b>120</b>	717.404	681.872	555.819	388.312	262.258	251.261	239.417	228.419	214.037
<b>125</b>	752.090	715.712	595.581	425.536	302.020	293.560	272.410	267.334	252.953
<b>130</b>	773.240	735.170	620.960	455.145	335.860	332.476	302.866	305.404	283.408
<b>135</b>	780.008	746.168	634.496	478.833	364.624	364.624	335.014	339.244	315.556
<b>140</b>	777.470	744.476	636.188	491.523	392.542	390.850	368.008	366.316	349.396
<b>145</b>	754.628	728.402	627.728	497.445	420.460	418.768	403.540	393.388	379.852
<b>150</b>	723.326	696.254	610.808	502.521	440.763	440.763	432.304	418.768	404.386
<b>155</b>	672.566	653.954	586.275	504.213	458.529	459.375	458.529	445.839	425.536
<b>160</b>	613.346	609.116	558.357	503.367	471.219	474.603	477.987	469.527	452.607
<b>165</b>	557.511	558.357	531.285	499.137	480.525	483.063	487.293	483.909	477.987
<b>170</b>	515.211	511.827	507.597	494.061	485.601	488.985	488.985	488.985	488.985
<b>175</b>	489.831	488.985	492.369	488.139	486.447	490.677	488.139	485.601	483.063
<b>180</b>	485.601	485.601	485.601	485.601	485.601	485.601	485.601	485.601	485.601

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	31.53	N.A.	1.30
0-30	69.75	N.A.	2.80
0-40	119.76	N.A.	4.90
0-60	229.04	N.A.	9.30
0-80	308.47	N.A.	12.50
0-90	330.75	N.A.	13.40
10-90	322.86	N.A.	13.10
20-40	88.22	N.A.	3.60
20-50	143.92	N.A.	5.80
40-70	155.14	N.A.	6.30
60-80	79.42	N.A.	3.20
70-80	33.57	N.A.	1.40
80-90	22.28	N.A.	0.90
90-110	310.92	N.A.	12.60
90-120	641.77	N.A.	26.10
90-130	1018.08	N.A.	41.40
90-150	1702.68	N.A.	69.20
90-180	2130.5	N.A.	86.60
110-180	1819.58	N.A.	73.90
0-180	2461.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	7.88
10-20	23.65
20-30	38.21
30-40	50.01
40-50	55.70
50-60	53.59
60-70	45.85
70-80	33.57
80-90	22.28
90-100	86.36
100-110	224.56
110-120	330.85
120-130	376.30
130-140	367.29
140-150	317.31
150-160	237.73
160-170	143.23
170-180	46.86

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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	51	51	51	51	45	45	45	45	33	33	33	22	22	22	12	12	12	7
1	46	44	42	40	40	39	37	35	28	27	26	19	18	18	10	10	9	5
2	42	38	35	33	37	34	31	29	25	23	21	16	15	14	9	8	8	4
3	38	33	30	27	33	29	26	24	22	20	18	14	13	12	8	7	6	4
4	35	29	26	23	30	26	23	20	19	17	15	13	11	10	7	6	5	3
5	32	26	22	19	28	23	20	17	17	15	13	11	10	9	6	5	5	3
6	29	23	19	16	25	20	17	15	15	13	11	10	9	8	5	5	4	2
7	27	21	17	14	23	18	15	13	14	11	10	9	8	7	5	4	4	2
8	25	19	15	12	22	17	13	11	12	10	8	8	7	6	4	4	3	2
9	23	17	13	11	20	15	12	10	11	9	7	7	6	5	4	3	3	2
10	21	15	12	10	19	14	11	9	10	8	7	7	5	4	4	3	2	1

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**UGR TABLE - CORRECTED**

Reflectances

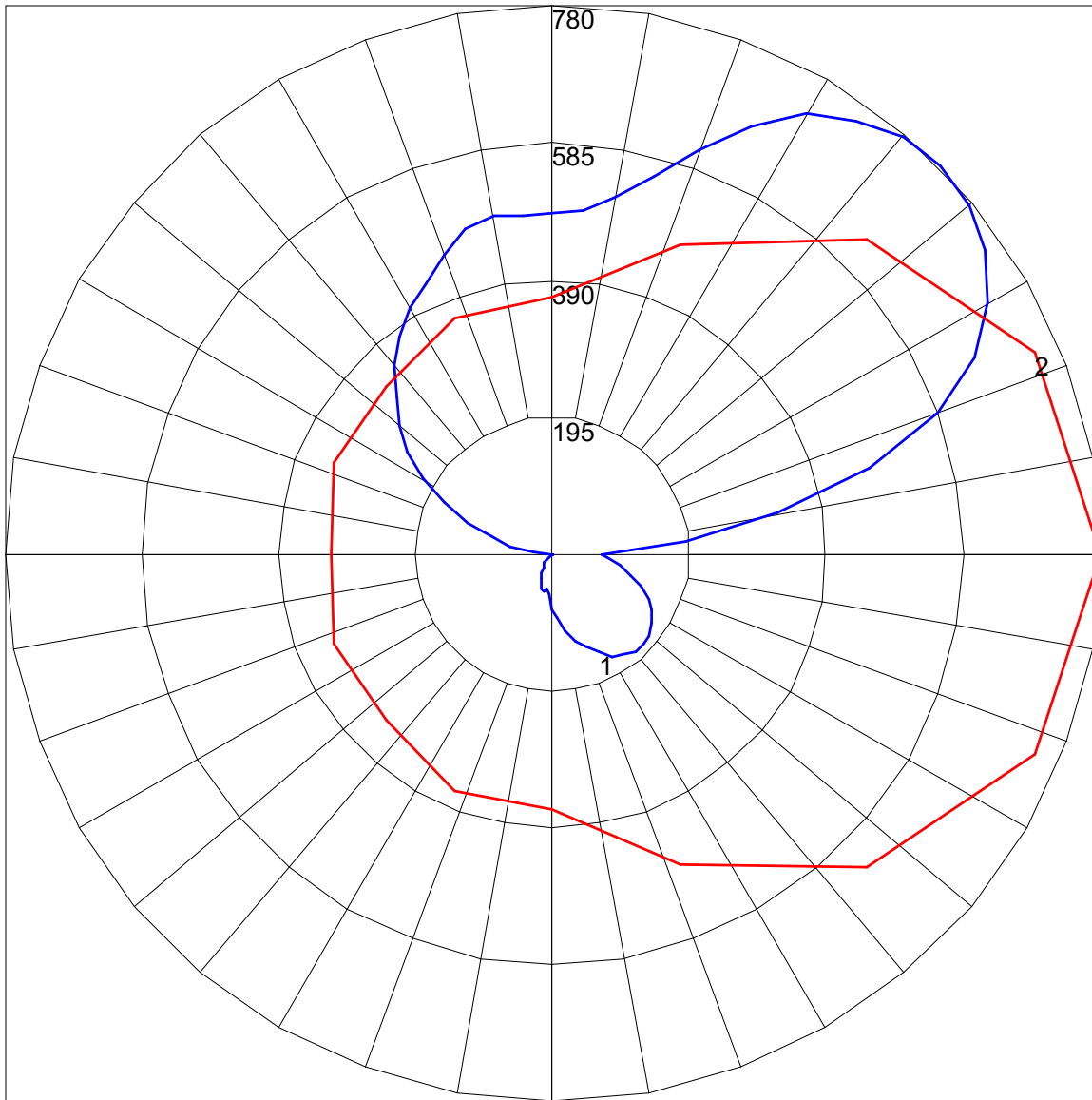
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

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 = 780.008 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.)