



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AIWP33-4-L6-8TW-DIM-UNV 4000K_.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-L6/8TW-DIM-UNV 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2469
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	38.7
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	1404	1153	492
55	1396	1099	357
65	1342	1001	188
75	1182	832	96
85	989	590	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-4-L6-8TW-DIM-UNV 4000K_.IES

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	80.631	80.631	80.631	80.631	80.631	80.631	80.631	80.631	80.631
5	89.967	102.698	100.152	94.211	84.875	74.690	67.051	68.748	58.563
10	110.337	114.581	110.337	99.303	79.782	63.656	57.715	56.866	51.773
15	130.707	129.858	117.127	102.698	75.538	55.168	50.925	48.378	55.168
20	142.589	140.043	124.766	105.244	70.446	47.530	43.286	40.740	51.773
25	154.472	151.077	130.707	106.093	65.353	39.891	39.891	32.252	40.740
30	168.900	161.262	136.648	105.244	60.261	33.101	33.950	25.462	32.252
35	177.388	168.052	140.043	103.547	56.866	25.462	27.160	18.672	24.614
40	184.178	172.295	141.740	99.303	51.773	22.067	18.672	13.580	16.975
45	185.026	171.447	138.345	93.362	42.437	16.126	11.034	9.336	10.185
50	181.631	166.354	131.556	85.723	33.101	11.882	6.790	4.244	5.941
55	173.144	158.715	121.371	75.538	25.462	6.790	3.395	0.849	1.697
60	163.808	150.228	111.186	62.807	17.824	3.395	0.849	0.000	0.000
65	151.077	137.497	97.606	50.076	10.185	0.849	0.000	0.000	0.000
70	134.950	119.673	83.177	37.345	5.941	0.000	0.000	0.000	0.000
75	115.429	101.001	67.900	24.614	3.395	0.000	0.000	0.000	0.000
80	97.606	81.480	51.773	15.277	0.000	0.000	0.000	0.000	0.000
85	78.933	63.656	37.345	9.336	0.000	0.000	0.000	0.000	0.000
90	69.597	62.807	40.740	16.126	0.000	2.546	0.849	0.000	1.697
95	192.665	191.816	139.194	62.807	27.160	26.311	30.555	28.857	28.009
100	328.464	328.464	241.892	130.707	75.538	57.715	57.715	65.353	61.110
105	471.054	455.776	346.288	207.094	125.614	104.396	97.606	101.849	90.816
110	588.180	555.079	432.860	274.145	168.052	157.018	148.530	140.892	130.707
115	666.265	631.466	504.155	337.801	214.733	207.943	198.606	185.026	173.144
120	719.736	684.089	557.626	389.574	263.111	252.077	240.195	229.161	214.733
125	754.535	718.038	597.517	426.919	303.002	294.515	273.296	268.203	253.775
130	775.753	737.560	622.979	456.625	336.952	333.557	303.851	306.397	284.330
135	782.543	748.593	636.559	480.390	365.809	365.809	336.103	340.347	316.582
140	779.997	746.896	638.256	493.121	393.818	392.120	369.204	367.507	350.532
145	757.081	730.770	629.769	499.062	421.826	420.129	404.851	394.667	381.087
150	725.677	698.517	612.794	504.155	442.196	442.196	433.709	420.129	405.700
155	674.752	656.080	588.180	505.852	460.020	460.869	460.020	447.289	426.919
160	615.340	611.097	560.172	505.003	472.751	476.146	479.541	471.054	454.079
165	559.323	560.172	533.012	500.760	482.087	484.634	488.877	485.482	479.541
170	516.886	513.491	509.247	495.667	487.180	490.575	490.575	490.575	490.575
175	491.423	490.575	493.970	489.726	488.029	492.272	489.726	487.180	484.634
180	487.180	487.180	487.180	487.180	487.180	487.180	487.180	487.180	487.180

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-4-L6-8TW-DIM-UNV 4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	31.64	N.A.	1.30
0-30	69.97	N.A.	2.80
0-40	120.15	N.A.	4.90
0-60	229.79	N.A.	9.30
0-80	309.47	N.A.	12.50
0-90	331.82	N.A.	13.40
10-90	323.91	N.A.	13.10
20-40	88.51	N.A.	3.60
20-50	144.39	N.A.	5.80
40-70	155.64	N.A.	6.30
60-80	79.68	N.A.	3.20
70-80	33.68	N.A.	1.40
80-90	22.35	N.A.	0.90
90-110	311.93	N.A.	12.60
90-120	643.86	N.A.	26.10
90-130	1021.39	N.A.	41.40
90-150	1708.22	N.A.	69.20
90-180	2137.43	N.A.	86.60
110-180	1825.5	N.A.	73.90
0-180	2469.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	7.91
10-20	23.73
20-30	38.34
30-40	50.17
40-50	55.88
50-60	53.76
60-70	46.00
70-80	33.68
80-90	22.35
90-100	86.64
100-110	225.29
110-120	331.93
120-130	377.53
130-140	368.48
140-150	318.35
150-160	238.51
160-170	143.70
170-180	47.01

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AIWP33-4-L6-8TW-DIM-UNV 4000K_.IES

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	36	28	27	26	19	18	18	10	10	9	5
2	42	38	35	33	37	34	31	29	25	23	22	16	15	14	9	8	8	4
3	38	34	30	27	33	29	26	24	22	20	18	14	13	12	8	7	6	4
4	35	30	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	21	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	16	12	10	19	14	11	9	10	8	7	7	5	4	4	3	2	1

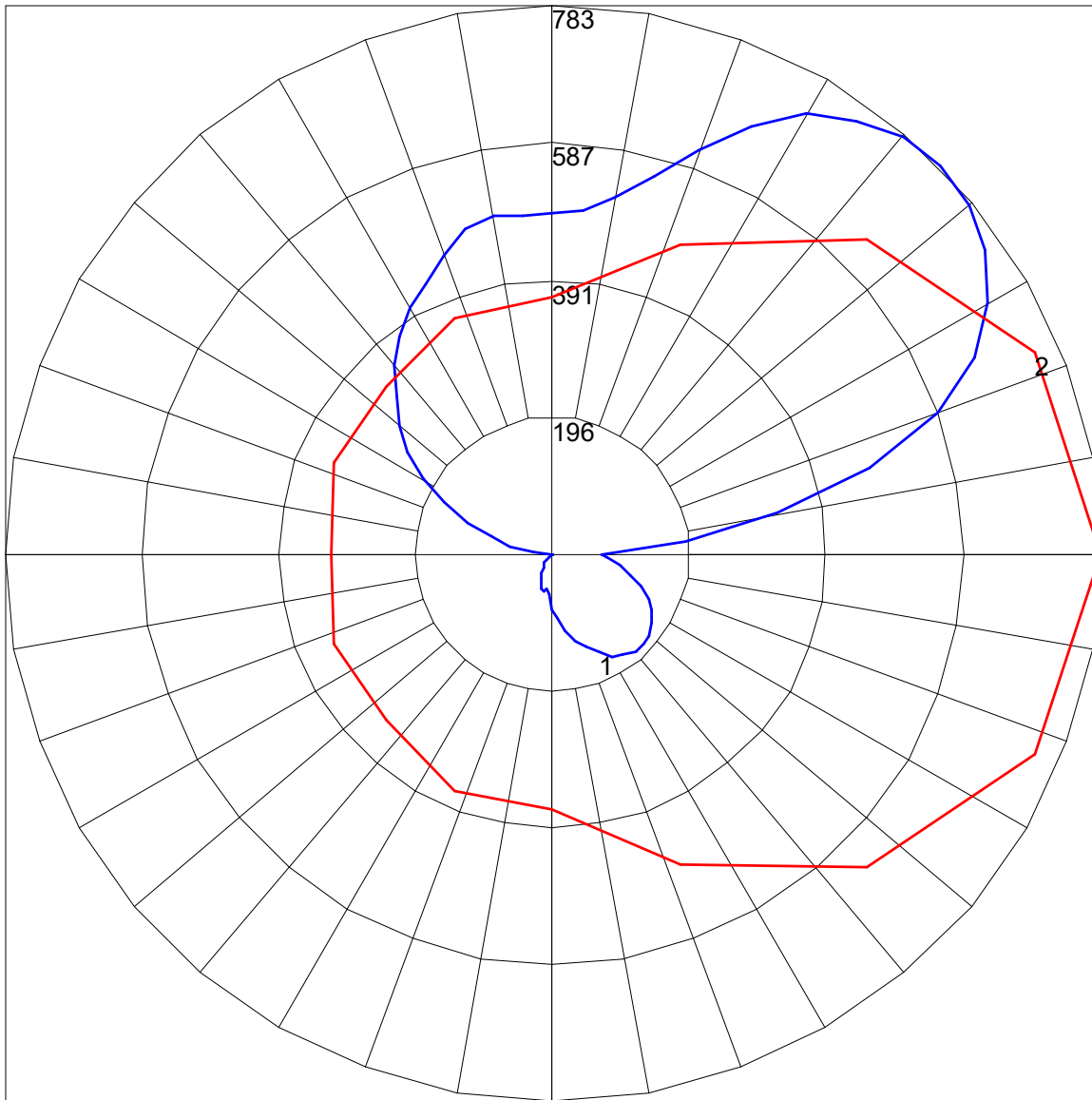
IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-4-L6-8TW-DIM-UNV 4000K_.IES

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	9.9	10.5	11.1	11.7	13.4	5.4	5.4	5.4	5.4	5.4
	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 = 782.543 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.)