



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AIWP33-8-L9-8TW-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] 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-L9/8TW-DIM-UNV 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7827
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	114.9
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	2225	1848	798
55	2212	1767	585
65	2127	1615	312
75	1873	1349	164
85	1567	965	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-8-L9-8TW-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	255.576	255.576	255.576	255.576	255.576	255.576	255.576	255.576	255.576
5	285.169	325.523	317.452	298.620	269.027	236.744	212.531	217.912	185.629
10	349.735	363.187	349.735	314.762	252.886	201.770	182.939	180.248	164.107
15	414.302	411.612	371.258	325.523	239.434	174.868	161.416	153.346	174.868
20	451.966	443.895	395.470	333.594	223.293	150.655	137.204	129.133	164.107
25	489.630	478.868	414.302	336.284	207.151	126.443	126.443	102.230	129.133
30	535.364	511.152	433.134	333.594	191.009	104.921	107.611	80.708	102.230
35	562.267	532.674	443.895	328.213	180.248	80.708	86.089	59.186	78.018
40	583.789	546.125	449.275	314.762	164.107	69.947	59.186	43.044	53.805
45	586.479	543.435	438.514	295.930	134.514	51.115	34.974	29.593	32.283
50	575.718	527.293	416.992	271.717	104.921	37.664	21.522	13.451	18.832
55	548.816	503.081	384.709	239.434	80.708	21.522	10.761	2.690	5.381
60	519.223	476.178	352.426	199.080	56.496	10.761	2.690	0.000	0.000
65	478.868	435.824	309.381	158.726	32.283	2.690	0.000	0.000	0.000
70	427.753	379.328	263.647	118.372	18.832	0.000	0.000	0.000	0.000
75	365.877	320.142	215.222	78.018	10.761	0.000	0.000	0.000	0.000
80	309.381	258.266	164.107	48.425	0.000	0.000	0.000	0.000	0.000
85	250.195	201.770	118.372	29.593	0.000	0.000	0.000	0.000	0.000
90	220.602	199.080	129.133	51.115	0.000	8.071	2.690	0.000	5.381
95	610.692	608.001	441.205	199.080	86.089	83.398	96.850	91.469	88.779
100	1041.135	1041.135	766.728	414.302	239.434	182.939	182.939	207.151	193.700
105	1493.101	1444.676	1097.631	656.426	398.160	330.903	309.381	322.833	287.859
110	1864.359	1759.438	1372.039	868.958	532.674	497.700	470.798	446.585	414.302
115	2111.864	2001.562	1598.022	1070.728	680.639	659.117	629.524	586.479	548.816
120	2281.351	2168.359	1767.509	1234.835	833.984	799.011	761.347	726.373	680.639
125	2391.652	2275.970	1893.952	1353.207	960.427	933.524	866.268	850.126	804.391
130	2458.909	2337.846	1974.660	1447.366	1068.038	1057.277	963.117	971.188	901.241
135	2480.431	2372.820	2017.704	1522.694	1159.507	1159.507	1065.348	1078.799	1003.471
140	2472.360	2367.439	2023.085	1563.048	1248.286	1242.906	1170.268	1164.888	1111.082
145	2399.723	2316.324	1996.182	1581.880	1337.065	1331.685	1283.260	1250.977	1207.932
150	2300.183	2214.094	1942.376	1598.022	1401.632	1401.632	1374.729	1331.685	1285.950
155	2138.766	2079.580	1864.359	1603.402	1458.127	1460.818	1458.127	1417.773	1353.207
160	1950.447	1936.996	1775.580	1600.712	1498.482	1509.243	1520.004	1493.101	1439.296
165	1772.889	1775.580	1689.491	1587.261	1528.075	1536.145	1549.597	1538.836	1520.004
170	1638.376	1627.615	1614.163	1571.119	1544.216	1554.977	1554.977	1554.977	1554.977
175	1557.668	1554.977	1565.738	1552.287	1546.906	1560.358	1552.287	1544.216	1536.145
180	1544.216	1544.216	1544.216	1544.216	1544.216	1544.216	1544.216	1544.216	1544.216

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-8-L9-8TW-DIM-UNV 4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	100.28	N.A.	1.30
0-30	221.79	N.A.	2.80
0-40	380.83	N.A.	4.90
0-60	728.36	N.A.	9.30
0-80	980.93	N.A.	12.50
0-90	1051.77	N.A.	13.40
10-90	1026.71	N.A.	13.10
20-40	280.55	N.A.	3.60
20-50	457.68	N.A.	5.80
40-70	493.34	N.A.	6.30
60-80	252.57	N.A.	3.20
70-80	106.76	N.A.	1.40
80-90	70.84	N.A.	0.90
90-110	988.74	N.A.	12.60
90-120	2040.85	N.A.	26.10
90-130	3237.5	N.A.	41.40
90-150	5414.55	N.A.	69.20
90-180	6775.02	N.A.	86.60
110-180	5786.29	N.A.	73.90
0-180	7826.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.06
10-20	75.22
20-30	121.51
30-40	159.04
40-50	177.13
50-60	170.40
60-70	145.81
70-80	106.76
80-90	70.84
90-100	274.63
100-110	714.10
110-120	1052.11
120-130	1196.65
130-140	1167.99
140-150	1009.06
150-160	755.99
160-170	455.47
170-180	149.01

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AIWP33-8-L9-8TW-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	156	156	156	156	136	136	136	136	100	100	100	66	66	66	36	36	36	21
1	141	135	129	123	123	118	113	108	86	83	80	57	55	54	30	30	29	17
2	128	117	108	100	112	102	95	88	75	70	66	50	47	44	26	25	24	13
3	117	102	91	82	101	90	80	73	66	60	55	44	40	37	23	21	20	11
4	106	90	78	69	92	79	69	61	58	51	46	39	34	31	20	18	17	9
5	97	80	68	59	85	70	60	52	52	45	39	34	30	27	18	16	14	8
6	89	71	59	50	78	62	52	45	46	39	34	31	26	23	16	14	12	7
7	82	64	52	43	71	56	46	39	41	34	29	28	23	20	15	13	11	6
8	76	57	46	38	66	51	41	34	37	30	26	25	21	17	13	11	10	5
9	70	52	41	33	61	46	36	30	34	27	22	23	19	15	12	10	8	5
10	65	47	37	29	57	42	32	26	31	24	20	21	17	14	11	9	8	4

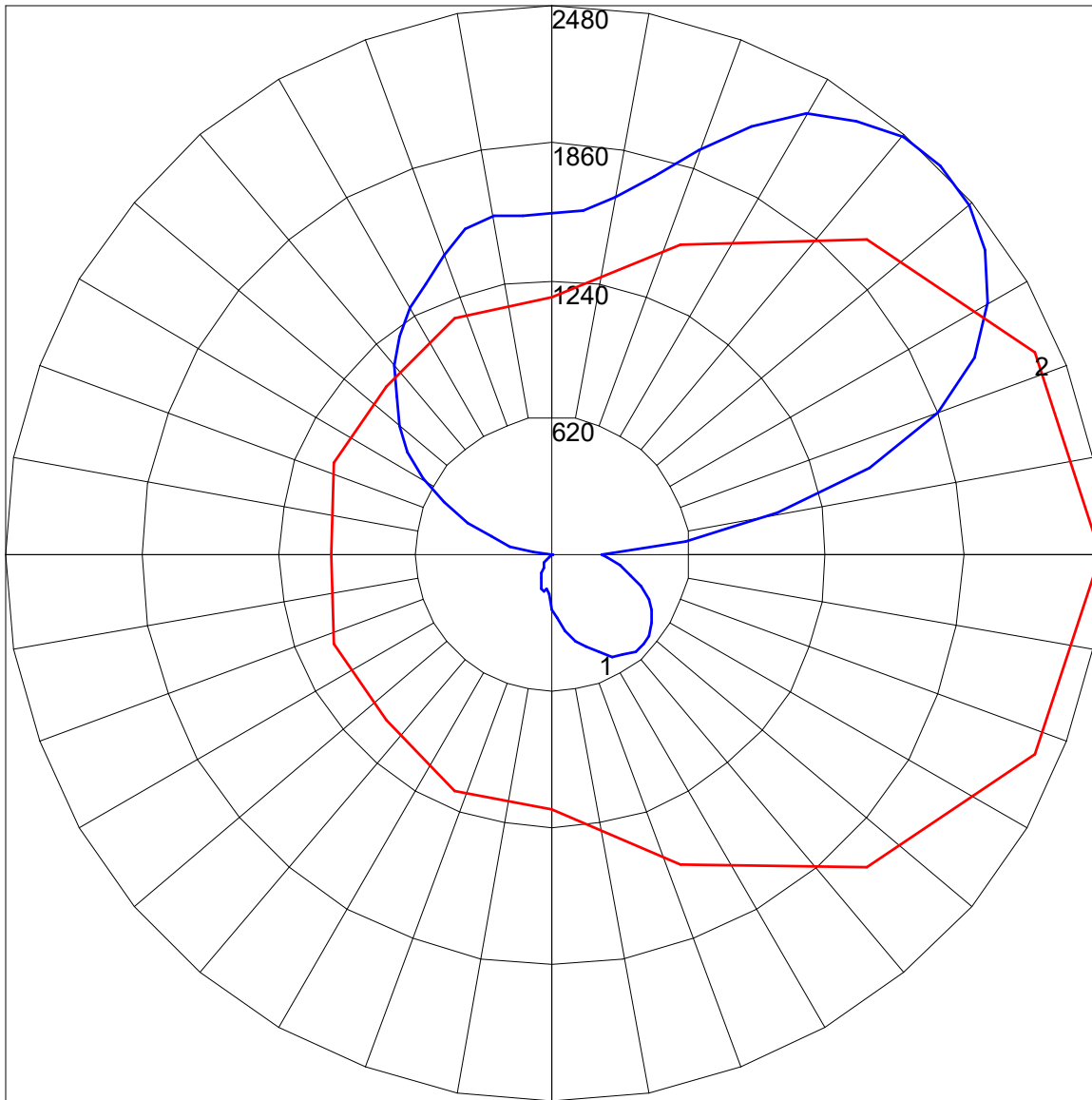
IES INDOOR REPORT
PHOTOMETRIC FILENAME : AIWP33-8-L9-8TW-DIM-UNV 4000K_.IES

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	7.6	8.2	8.8	9.4	11.1	5.5	5.5	5.5	5.5	5.5
	3H	9.9	10.5	11.1	11.7	13.4	5.5	5.5	5.5	5.5	5.5
	4H	10.9	11.4	12.1	12.6	14.3	5.5	5.5	5.5	5.5	5.5
	6H	11.7	12.2	12.9	13.4	15.1	5.5	5.5	5.5	5.5	5.5
	8H	12.0	12.5	13.3	13.7	15.5	5.5	5.5	5.5	5.5	5.5
	12H	12.4	12.8	13.6	14.0	15.8	5.5	5.5	5.5	5.5	5.5
4H	2H	7.9	8.4	9.1	9.6	11.4	5.5	5.5	5.5	5.5	5.5
	3H	10.4	10.9	11.7	12.1	13.8	5.5	5.5	5.5	5.5	5.5
	4H	11.6	12.0	12.8	13.2	15.0	5.5	5.5	5.5	5.5	5.6
	6H	12.6	12.9	13.8	14.2	15.9	5.5	5.5	5.5	5.5	5.5
	8H	13.1	13.4	14.3	14.6	16.4	5.5	5.5	5.5	5.5	5.5
	12H	13.5	13.8	14.7	15.0	16.8	5.5	5.5	5.5	5.5	5.5
8H	4H	11.7	12.0	12.9	13.2	15.0	5.5	5.5	5.5	5.5	7.2
	6H	12.9	13.2	14.2	14.4	16.2	5.5	5.5	5.5	5.7	7.4
	8H	13.5	13.7	14.7	15.0	16.7	5.5	5.5	5.5	5.6	7.4
	12H	14.1	14.3	15.3	15.5	17.3	5.5	5.5	5.5	5.5	7.3
12H	4H	11.6	11.9	12.9	13.2	14.9	5.5	5.5	5.6	5.9	7.6
	6H	12.9	13.1	14.1	14.4	16.2	5.5	5.5	6.0	6.2	8.0
	8H	13.5	13.7	14.8	15.0	16.8	5.5	5.5	6.1	6.3	8.1

Maximum UGR = 17.3

POLAR GRAPH



Maximum Candela = 2480.431 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.)