



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AIWP33-8-L11-835-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-L11/835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8943
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	118.1
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	2543	2111	912
55	2527	2019	668
65	2430	1846	357
75	2140	1542	188
85	1791	1103	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>
0	292.021	292.021	292.021	292.021	292.021	292.021	292.021	292.021	292.021
5	325.834	371.943	362.721	341.204	307.391	270.504	242.839	248.987	212.100
10	399.608	414.978	399.608	359.647	288.947	230.543	209.026	205.952	187.508
15	473.382	470.308	424.199	371.943	273.578	199.804	184.435	175.213	199.804
20	516.417	507.195	451.865	381.165	255.134	172.139	156.769	147.548	187.508
25	559.451	547.156	473.382	384.239	236.691	144.474	144.474	116.809	147.548
30	611.708	584.043	494.899	381.165	218.248	119.882	122.956	92.217	116.809
35	642.447	608.634	507.195	375.017	205.952	92.217	98.365	67.626	89.143
40	667.038	624.004	513.343	359.647	187.508	79.922	67.626	49.183	61.478
45	670.112	620.930	501.047	338.130	153.695	58.404	39.961	33.813	36.887
50	657.817	602.486	476.456	310.465	119.882	43.035	24.591	15.370	21.517
55	627.077	574.821	439.569	273.578	92.217	24.591	12.296	3.074	6.148
60	593.264	544.082	402.682	227.469	64.552	12.296	3.074	0.000	0.000
65	547.156	497.973	353.500	181.361	36.887	3.074	0.000	0.000	0.000
70	488.752	433.421	301.243	135.252	21.517	0.000	0.000	0.000	0.000
75	418.052	365.795	245.913	89.143	12.296	0.000	0.000	0.000	0.000
80	353.500	295.095	187.508	55.330	0.000	0.000	0.000	0.000	0.000
85	285.874	230.543	135.252	33.813	0.000	0.000	0.000	0.000	0.000
90	252.061	227.469	147.548	58.404	0.000	9.222	3.074	0.000	6.148
95	697.777	694.703	504.121	227.469	98.365	95.291	110.661	104.513	101.439
100	1189.603	1189.603	876.064	473.382	273.578	209.026	209.026	236.691	221.321
105	1706.020	1650.689	1254.155	750.034	454.939	378.091	353.500	368.869	328.908
110	2130.219	2010.337	1567.694	992.873	608.634	568.673	537.934	510.269	473.382
115	2413.019	2286.988	1825.902	1223.416	777.699	753.108	719.295	670.112	627.077
120	2606.675	2477.571	2019.558	1410.924	952.912	912.951	869.916	829.955	777.699
125	2732.705	2600.527	2164.032	1546.176	1097.386	1066.646	989.799	971.355	919.099
130	2809.553	2671.227	2256.249	1653.763	1220.342	1208.046	1100.459	1109.681	1029.760
135	2834.144	2711.188	2305.432	1739.833	1324.855	1324.855	1217.268	1232.638	1146.568
140	2824.922	2705.040	2311.580	1785.941	1426.294	1420.146	1337.150	1331.003	1269.524
145	2741.927	2646.636	2280.841	1807.459	1527.733	1521.585	1466.255	1429.368	1380.185
150	2628.192	2529.827	2219.362	1825.902	1601.507	1601.507	1570.768	1521.585	1469.329
155	2443.758	2376.132	2130.219	1832.050	1666.059	1669.133	1666.059	1619.950	1546.176
160	2228.584	2213.215	2028.780	1828.976	1712.167	1724.463	1736.759	1706.020	1644.541
165	2025.706	2028.780	1930.415	1813.606	1745.980	1755.202	1770.572	1758.276	1736.759
170	1872.011	1859.715	1844.345	1795.163	1764.424	1776.719	1776.719	1776.719	1776.719
175	1779.793	1776.719	1789.015	1773.646	1767.498	1782.867	1773.646	1764.424	1755.202
180	1764.424	1764.424	1764.424	1764.424	1764.424	1764.424	1764.424	1764.424	1764.424

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	114.58	N.A.	1.30
0-30	253.42	N.A.	2.80
0-40	435.13	N.A.	4.90
0-60	832.23	N.A.	9.30
0-80	1120.81	N.A.	12.50
0-90	1201.76	N.A.	13.40
10-90	1173.12	N.A.	13.10
20-40	320.56	N.A.	3.60
20-50	522.95	N.A.	5.80
40-70	563.69	N.A.	6.30
60-80	288.59	N.A.	3.20
70-80	121.99	N.A.	1.40
80-90	80.95	N.A.	0.90
90-110	1129.73	N.A.	12.60
90-120	2331.88	N.A.	26.10
90-130	3699.17	N.A.	41.40
90-150	6186.67	N.A.	69.20
90-180	7741.15	N.A.	86.60
110-180	6611.42	N.A.	73.90
0-180	8942.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	28.64
10-20	85.94
20-30	138.84
30-40	181.72
40-50	202.39
50-60	194.70
60-70	166.60
70-80	121.99
80-90	80.95
90-100	313.80
100-110	815.93
110-120	1202.15
120-130	1367.29
130-140	1334.54
140-150	1152.96
150-160	863.80
160-170	520.42
170-180	170.26

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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	182	182	182	182	159	159	159	159	116	116	116	77	77	77	42	42	42	25
1	165	157	150	144	144	137	132	126	101	97	93	67	65	63	36	34	34	19
2	150	137	126	116	130	119	110	103	88	82	77	58	55	52	31	29	28	16
3	136	119	106	96	118	105	94	85	77	70	64	51	47	43	27	25	23	13
4	124	105	91	81	108	92	81	72	68	60	54	45	40	36	24	21	19	11
5	114	93	79	68	99	82	70	61	60	52	46	40	35	31	21	19	17	9
6	104	83	69	59	90	73	61	52	54	45	39	36	31	27	19	16	14	8
7	96	74	60	51	83	65	53	45	48	40	34	32	27	23	17	15	13	7
8	89	67	53	44	77	59	47	39	44	36	30	29	24	20	16	13	11	6
9	82	61	48	39	71	53	42	35	40	32	26	27	22	18	14	12	10	5
10	76	55	43	34	67	49	38	31	36	29	23	24	19	16	13	11	9	5

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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	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

UGR Viewed Endwise

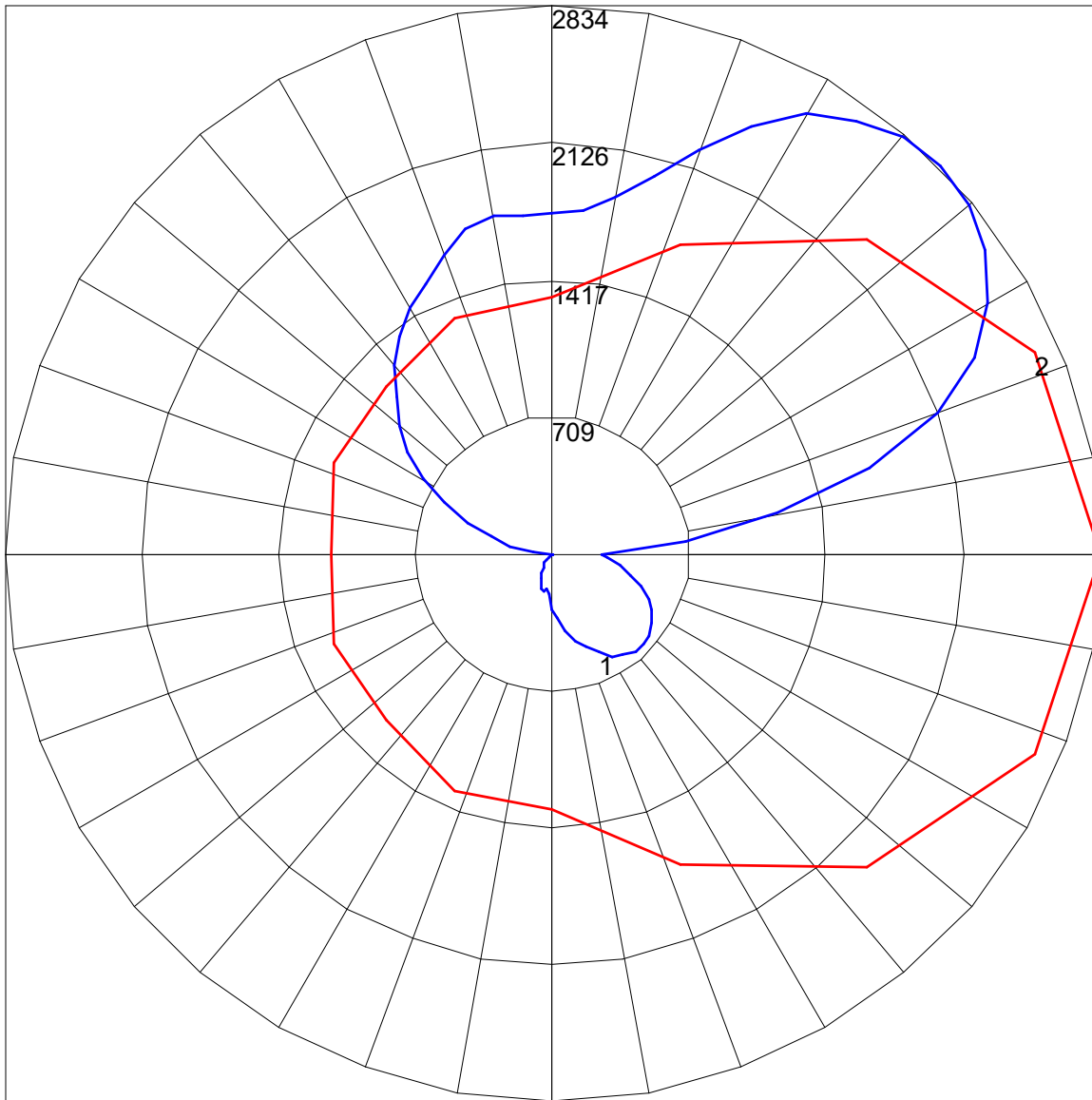
4H	2H	7.9	8.4	9.1	9.6	11.4	5.5	5.5	5.5	5.5	5.5
	3H	10.4	10.9	11.7	12.1	13.8	5.5	5.5	5.5	5.5	5.5
	4H	11.6	12.0	12.8	13.2	15.0	5.5	5.5	5.5	5.5	5.6
	6H	12.6	12.9	13.8	14.2	15.9	5.5	5.5	5.5	5.5	5.5
	8H	13.1	13.4	14.3	14.6	16.4	5.5	5.5	5.5	5.5	5.5
	12H	13.5	13.8	14.7	15.0	16.8	5.5	5.5	5.5	5.5	5.5

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 = 2834.144 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.)