



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AIWP33-4-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] 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-L11/835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4749
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	63.8
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	2701	2217	947
55	2684	2114	687
65	2581	1925	362
75	2273	1600	184
85	1902	1135	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	155.089	155.089	155.089	155.089	155.089	155.089	155.089	155.089	155.089
5	173.047	197.535	192.637	181.210	163.252	143.662	128.969	132.234	112.644
10	212.228	220.390	212.228	191.005	153.457	122.439	111.011	109.379	99.584
15	251.408	249.776	225.288	197.535	145.294	106.114	97.951	93.054	106.114
20	274.263	269.366	239.980	202.432	135.499	91.421	83.259	78.361	99.584
25	297.119	290.589	251.408	204.065	125.704	76.728	76.728	62.036	78.361
30	324.871	310.179	262.836	202.432	115.909	63.668	65.301	48.976	62.036
35	341.197	323.239	269.366	199.167	109.379	48.976	52.241	35.915	47.343
40	354.257	331.402	272.631	191.005	99.584	42.446	35.915	26.120	32.650
45	355.889	329.769	266.101	179.577	81.626	31.018	21.223	17.958	19.590
50	349.359	319.974	253.041	164.885	63.668	22.855	13.060	8.163	11.428
55	333.034	305.281	233.450	145.294	48.976	13.060	6.530	1.633	3.265
60	315.076	288.956	213.860	120.806	34.283	6.530	1.633	0.000	0.000
65	290.589	264.468	187.740	96.319	19.590	1.633	0.000	0.000	0.000
70	259.571	230.185	159.987	71.831	11.428	0.000	0.000	0.000	0.000
75	222.023	194.270	130.602	47.343	6.530	0.000	0.000	0.000	0.000
80	187.740	156.722	99.584	29.385	0.000	0.000	0.000	0.000	0.000
85	151.824	122.439	71.831	17.958	0.000	0.000	0.000	0.000	0.000
90	133.867	120.806	78.361	31.018	0.000	4.898	1.633	0.000	3.265
95	370.582	368.950	267.733	120.806	52.241	50.608	58.771	55.506	53.873
100	631.785	631.785	465.268	251.408	145.294	111.011	111.011	125.704	117.541
105	906.049	876.663	666.068	398.335	241.613	200.800	187.740	195.902	174.680
110	1131.336	1067.668	832.585	527.304	323.239	302.016	285.691	270.998	251.408
115	1281.528	1214.595	969.717	649.743	413.028	399.967	382.010	355.889	333.034
120	1384.377	1315.811	1072.566	749.327	506.081	484.858	462.003	440.780	413.028
125	1451.310	1381.112	1149.294	821.158	582.810	566.484	525.671	515.876	488.123
130	1492.123	1418.660	1198.270	878.296	648.110	641.580	584.442	589.340	546.894
135	1505.183	1439.883	1224.390	924.006	703.616	703.616	646.478	654.641	608.930
140	1500.286	1436.618	1227.655	948.494	757.489	754.224	710.146	706.881	674.231
145	1456.208	1405.600	1211.330	959.922	811.362	808.097	778.712	759.122	733.001
150	1395.805	1343.564	1178.679	969.717	850.543	850.543	834.218	808.097	780.345
155	1297.853	1261.938	1131.336	972.982	884.826	886.458	884.826	860.338	821.158
160	1183.577	1175.414	1077.463	971.349	909.314	915.844	922.374	906.049	873.398
165	1075.831	1077.463	1025.223	963.187	927.271	932.169	940.331	933.801	922.374
170	994.205	987.675	979.512	953.392	937.066	943.597	943.597	943.597	943.597
175	945.229	943.597	950.127	941.964	938.699	946.862	941.964	937.066	932.169
180	937.066	937.066	937.066	937.066	937.066	937.066	937.066	937.066	937.066

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	60.85	N.A.	1.30
0-30	134.59	N.A.	2.80
0-40	231.10	N.A.	4.90
0-60	441.99	N.A.	9.30
0-80	595.25	N.A.	12.50
0-90	638.24	N.A.	13.40
10-90	623.03	N.A.	13.10
20-40	170.24	N.A.	3.60
20-50	277.73	N.A.	5.80
40-70	299.37	N.A.	6.30
60-80	153.27	N.A.	3.20
70-80	64.79	N.A.	1.40
80-90	42.99	N.A.	0.90
90-110	599.99	N.A.	12.60
90-120	1238.44	N.A.	26.10
90-130	1964.59	N.A.	41.40
90-150	3285.68	N.A.	69.20
90-180	4111.24	N.A.	86.60
110-180	3511.25	N.A.	73.90
0-180	4749.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.21
10-20	45.64
20-30	73.74
30-40	96.51
40-50	107.49
50-60	103.40
60-70	88.48
70-80	64.79
80-90	42.99
90-100	166.65
100-110	433.33
110-120	638.45
120-130	726.15
130-140	708.76
140-150	612.32
150-160	458.75
160-170	276.39
170-180	90.42

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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	161	161	161	161	141	141	141	141	103	103	103	68	68	68	37	37	37	22
1	146	139	132	127	127	121	116	112	89	86	83	59	57	55	31	30	30	17
2	132	121	111	103	115	106	98	91	77	72	68	51	48	46	27	26	24	14
3	120	106	94	85	105	92	83	75	68	61	56	45	41	38	24	22	20	11
4	110	93	81	71	95	81	71	63	60	53	47	40	36	32	21	19	17	9
5	100	82	70	60	87	72	62	54	53	46	40	35	31	27	19	17	15	8
6	92	73	61	52	80	64	54	46	47	40	35	32	27	24	17	15	13	7
7	85	66	53	45	74	58	47	40	43	35	30	29	24	21	15	13	11	6
8	78	59	47	39	68	52	42	35	39	31	26	26	21	18	14	12	10	5
9	73	54	42	34	63	47	37	31	35	28	23	24	19	16	13	10	9	5
10	67	49	38	30	59	43	33	27	32	25	21	22	17	14	12	9	8	4

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UGR TABLE - CORRECTED

Reflectances

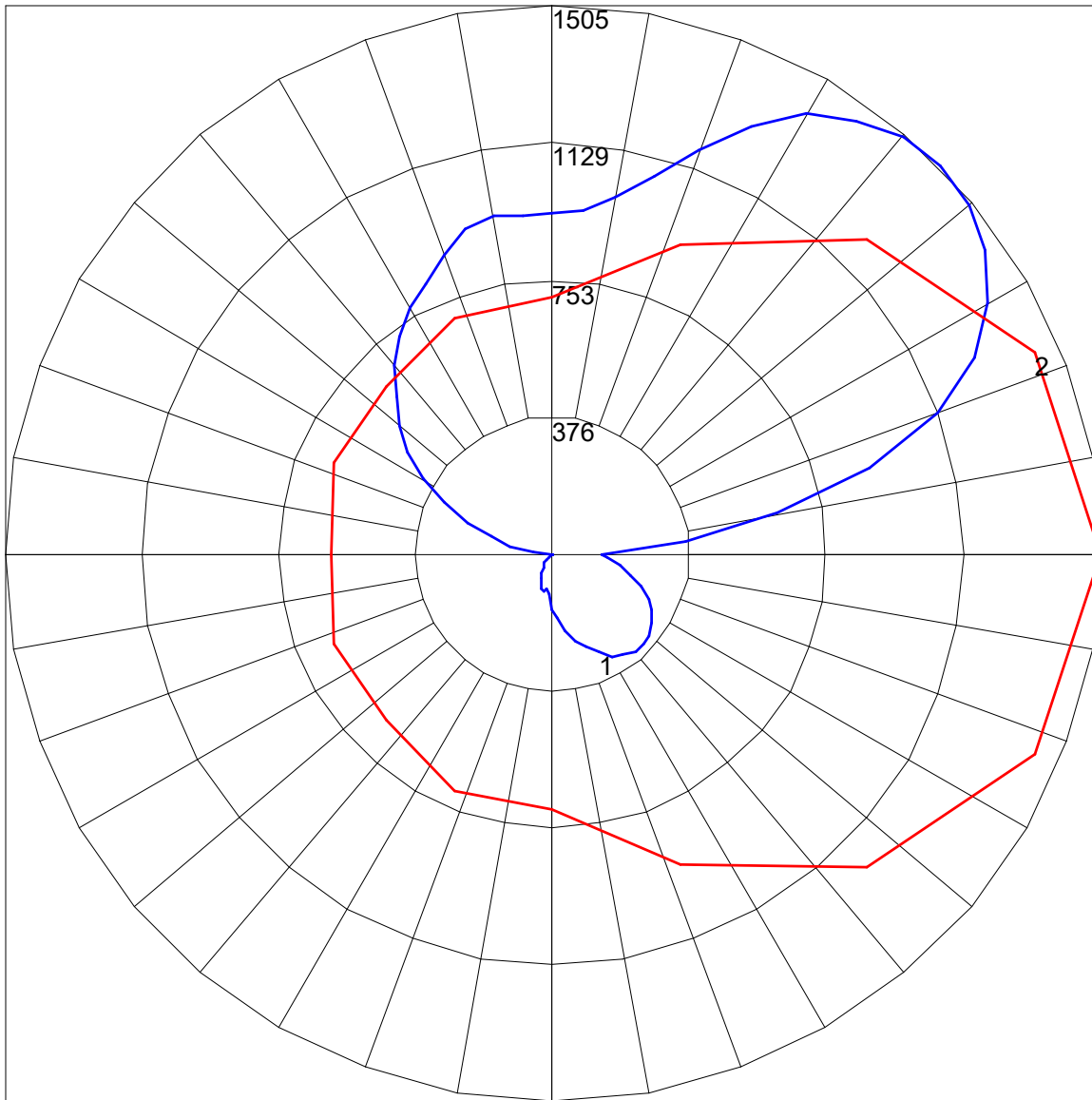
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	8.2	8.8	9.4	10.0	11.7	UGR Viewed Endwise				
	3H	10.5	11.0	11.7	12.2	14.0	3.7	3.7	3.7	3.7	3.7
	4H	11.4	12.0	12.7	13.2	14.9	3.7	3.7	3.7	3.7	3.7
	6H	12.3	12.8	13.5	14.0	15.7	3.7	3.7	3.7	3.7	3.7
	8H	12.6	13.1	13.9	14.3	16.0	3.7	3.7	3.7	3.7	3.7
	12H	13.0	13.4	14.2	14.6	16.4	3.7	3.7	3.7	3.7	3.7
4H	2H	8.5	9.0	9.7	10.2	11.9	3.7	3.7	3.7	3.7	5.1
	3H	11.0	11.5	12.3	12.7	14.4	3.7	3.7	3.9	4.3	6.0
	4H	12.2	12.6	13.4	13.8	15.5	3.7	3.7	4.0	4.4	6.1
	6H	13.2	13.5	14.4	14.8	16.5	3.7	3.7	4.0	4.3	6.1
	8H	13.6	14.0	14.9	15.2	17.0	3.7	3.7	4.0	4.3	6.0
	12H	14.0	14.3	15.3	15.6	17.3	3.7	3.7	3.9	4.2	5.9
8H	4H	12.3	12.6	13.5	13.8	15.6	4.4	4.8	5.7	6.0	7.8
	6H	13.5	13.7	14.7	15.0	16.8	4.7	4.9	5.9	6.2	8.0
	8H	14.1	14.3	15.3	15.5	17.3	4.7	4.9	5.9	6.2	7.9
	12H	14.6	14.8	15.9	16.1	17.9	4.6	4.8	5.9	6.1	7.9
12H	4H	12.2	12.5	13.5	13.7	15.5	4.9	5.2	6.1	6.4	8.2
	6H	13.5	13.7	14.7	14.9	16.7	5.3	5.5	6.5	6.8	8.6
	8H	14.1	14.3	15.4	15.6	17.4	5.4	5.6	6.7	6.8	8.7

Maximum UGR = 17.9

POLAR GRAPH



Maximum Candela = 1505.183 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.)