



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT2-24-P58-835-D-POE_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19260.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 3-JAN-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4-22" LED ARRAYS 2x4' LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC CONCAVE LENS IN DOOR

[LUMCAT] AT2-24-P58-835-D-PoE

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,COMMERCIAL,DIRECT,OFFICE,ARCHITECTURAL

[_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5918
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	47.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.76 ft
Luminous Width (90-270)	1.88 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2696	3013	3214
55	2297	2662	2832
65	2086	2548	2737
75	1774	2425	2425
85	1572	1120	1048

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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>
0	2357.888	2357.888	2357.888	2357.888	2357.888
5	2345.417	2346.248	2346.248	2347.080	2347.911
10	2298.026	2300.521	2306.341	2313.823	2318.812
15	2213.222	2219.042	2232.345	2252.299	2261.444
20	2086.016	2098.487	2130.081	2168.326	2184.123
25	1914.745	1930.542	1977.101	2028.649	2051.928
30	1734.328	1903.937	1798.347	1792.527	1923.059
35	1551.417	1579.685	1660.332	1739.317	1769.248
40	1375.989	1408.414	1504.858	1582.180	1607.122
45	1249.614	1289.522	1396.774	1467.445	1489.893
50	1051.738	1097.466	1197.235	1255.434	1270.400
55	863.838	911.229	1001.022	1048.412	1065.040
60	702.544	751.598	828.088	871.321	885.455
65	577.832	631.874	705.870	746.609	758.249
70	437.323	494.691	562.035	594.461	600.280
75	300.972	358.339	411.550	416.538	411.550
80	194.551	252.750	247.761	172.103	156.306
85	89.793	103.095	64.019	60.693	59.862
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	852.19	N.A.	14.40
0-30	1765.81	N.A.	29.80
0-40	2806.52	N.A.	47.40
0-60	4740.15	N.A.	80.10
0-80	5818.77	N.A.	98.30
0-90	5917.65	N.A.	100.00
10-90	5694.93	N.A.	96.20
20-40	1954.33	N.A.	33.00
20-50	3004.17	N.A.	50.80
40-70	2609.72	N.A.	44.10
60-80	1078.62	N.A.	18.20
70-80	402.53	N.A.	6.80
80-90	98.88	N.A.	1.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5917.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	222.72
10-20	629.46
20-30	913.62
30-40	1040.71
40-50	1049.83
50-60	883.79
60-70	676.09
70-80	402.53
80-90	98.88
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	252	252	252	252	246	246	246	246	235	235	235	225	225	225	216	216	216	211
1	231	221	212	204	225	216	208	200	207	200	194	199	193	188	191	187	183	178
2	210	193	179	167	205	189	176	165	181	171	161	175	165	157	168	161	154	149
3	192	170	153	140	187	167	151	138	160	147	136	155	143	133	149	140	131	127
4	176	151	133	119	171	148	131	118	143	128	116	138	125	115	134	123	113	109
5	162	135	117	103	158	133	116	102	129	113	101	124	111	100	121	109	99	95
6	150	122	104	90	146	120	103	90	117	101	89	113	99	88	110	97	88	83
7	139	111	93	80	136	110	92	80	106	91	79	103	89	79	100	88	78	74
8	130	102	84	72	127	100	83	72	97	82	71	95	81	71	92	80	70	66
9	122	94	76	65	119	92	76	65	90	75	64	88	74	64	86	73	64	60
10	114	87	70	59	111	85	70	59	83	69	59	81	68	58	79	67	58	54

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UGR TABLE - CORRECTED

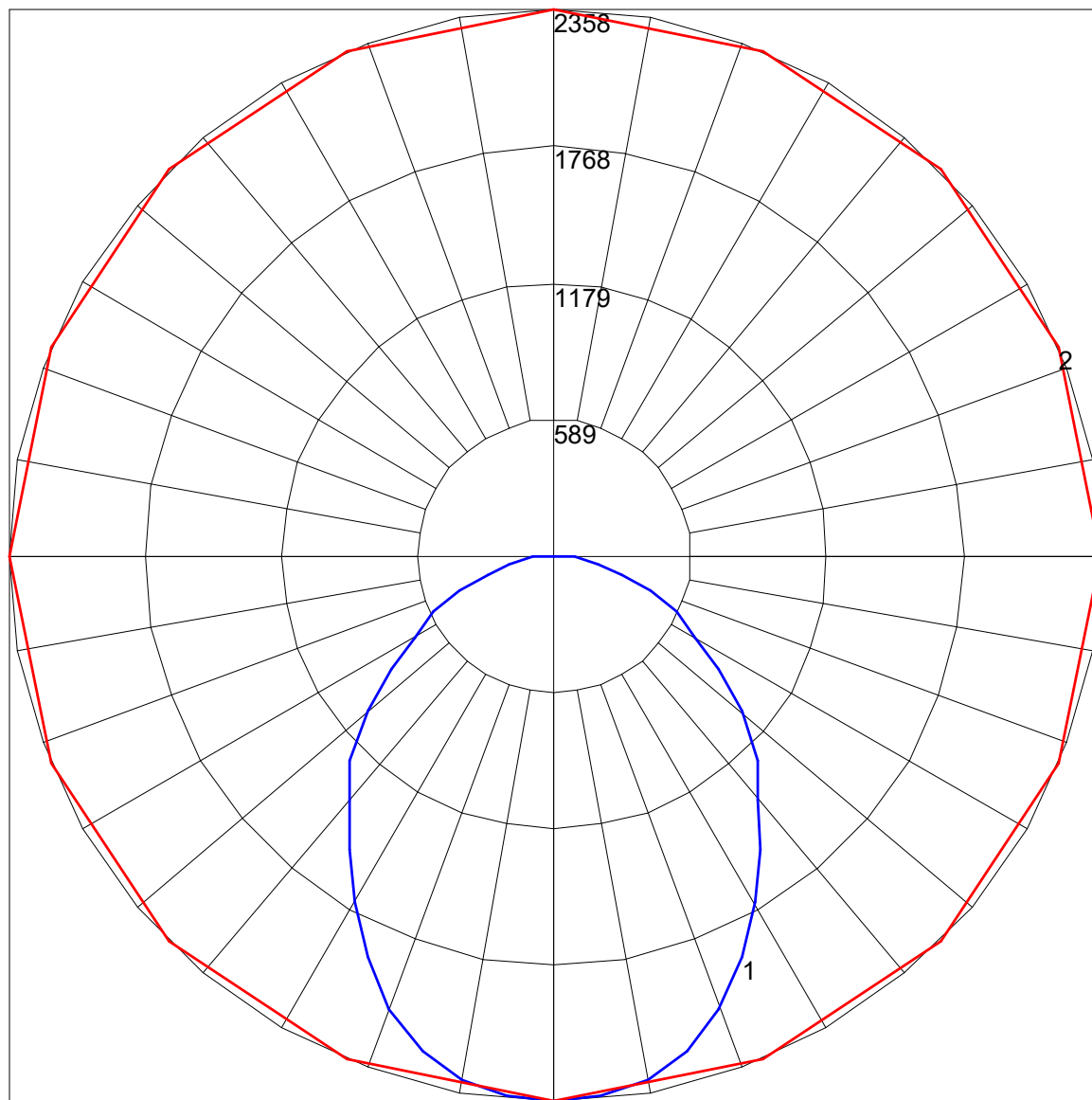
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	12.0	13.6	12.4	13.9	14.2	13.1	14.7	13.4	15.0	15.3
	3H	13.8	15.2	14.1	15.5	15.9	15.1	16.6	15.5	16.9	17.2
	4H	14.4	15.8	14.8	16.1	16.5	15.8	17.2	16.2	17.6	17.9
	6H	14.9	16.2	15.3	16.6	17.0	16.2	17.4	16.6	17.8	18.2
	8H	15.1	16.3	15.6	16.7	17.1	16.2	17.4	16.6	17.8	18.2
	12H	15.3	16.4	15.7	16.8	17.2	16.3	17.4	16.7	17.8	18.2
4H	2H	12.8	14.2	13.2	14.6	14.9	13.7	15.0	14.1	15.4	15.8
	3H	14.9	16.0	15.3	16.4	16.8	15.9	17.1	16.4	17.5	17.9
	4H	15.7	16.7	16.1	17.1	17.5	16.8	17.9	17.3	18.3	18.7
	6H	16.3	17.3	16.8	17.7	18.1	17.2	18.1	17.7	18.6	19.0
	8H	16.6	17.4	17.0	17.9	18.3	17.3	18.2	17.8	18.6	19.1
	12H	16.7	17.5	17.2	18.0	18.5	17.4	18.1	17.8	18.6	19.1
8H	4H	16.1	17.0	16.6	17.4	17.9	17.1	18.0	17.6	18.4	18.9
	6H	17.0	17.7	17.5	18.2	18.7	17.6	18.3	18.1	18.8	19.3
	8H	17.3	17.9	17.8	18.5	18.9	17.7	18.4	18.2	18.9	19.4
	12H	17.6	18.1	18.1	18.6	19.2	17.8	18.4	18.3	18.9	19.4
12H	4H	16.2	16.9	16.6	17.4	17.9	17.2	17.9	17.6	18.4	18.9
	6H	17.1	17.7	17.6	18.2	18.7	17.7	18.3	18.2	18.8	19.3
	8H	17.4	18.0	17.9	18.5	19.1	17.8	18.4	18.4	18.9	19.5

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 2357.888 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)