



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT2-22-P25-835-D-POE_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19435.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 3-JAN-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-22" LED ARRAYS 2x2' LUMINAIRE

[MORE] WHITE REFLECTOR w/2 PIECE FROSTED ACRYLIC LENS IN DOOR

[LUMCAT] AT2-22-P25-835-D-PoE

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Office, Direct

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2581
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	23.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.76 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2665	2901	3134
55	2344	2647	2845
65	2071	2422	2661
75	1720	2179	2519
85	925	820	777

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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	1015.779	1015.779	1015.779	1015.779	1015.779
5	1013.662	1010.486	1009.956	1009.427	1008.368
10	990.901	990.371	988.254	994.606	996.194
15	957.024	955.965	959.670	972.904	977.138
20	905.679	908.326	923.147	942.203	951.201
25	842.689	851.688	875.507	901.974	915.736
30	777.582	789.227	819.928	854.864	868.097
35	706.652	719.356	754.291	792.932	805.636
40	627.253	638.898	676.480	713.004	728.884
45	544.678	558.440	592.847	627.253	640.486
50	465.808	479.041	513.447	546.795	555.794
55	388.526	400.701	438.812	466.867	471.631
60	317.067	329.242	365.236	391.702	393.819
65	253.018	263.076	295.894	319.184	325.007
70	188.970	198.498	229.728	250.372	258.312
75	128.627	138.684	163.033	178.383	188.441
80	71.459	84.163	85.751	85.222	84.163
85	23.290	27.525	20.644	20.114	19.585
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	367.56	N.A.	14.20
0-30	771.60	N.A.	29.90
0-40	1242.85	N.A.	48.20
0-60	2090.72	N.A.	81.00
0-80	2545.94	N.A.	98.60
0-90	2580.8	N.A.	100.00
10-90	2484.96	N.A.	96.30
20-40	875.30	N.A.	33.90
20-50	1333.68	N.A.	51.70
40-70	1137.41	N.A.	44.10
60-80	455.23	N.A.	17.60
70-80	165.68	N.A.	6.40
80-90	34.85	N.A.	1.40
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	2580.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	95.84
10-20	271.72
20-30	404.05
30-40	471.25
40-50	458.38
50-60	389.48
60-70	289.55
70-80	165.68
80-90	34.85
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	181	181	181	181	177	177	177	177	169	169	169	162	162	162	155	155	155	152
1	166	159	153	147	162	156	150	145	149	144	140	143	139	136	138	135	132	129
2	151	139	129	121	147	136	127	119	131	123	117	126	120	114	121	116	111	108
3	138	123	111	101	135	120	109	100	116	106	98	112	104	97	108	101	95	92
4	127	109	96	86	124	107	95	86	103	93	84	100	91	83	97	89	82	79
5	117	98	84	75	114	96	84	74	93	82	73	90	80	73	87	79	72	69
6	108	88	75	65	105	87	74	65	84	73	65	82	72	64	79	70	63	60
7	100	80	67	58	98	79	67	58	77	66	57	75	64	57	73	63	57	54
8	94	73	61	52	91	72	60	52	70	59	51	68	58	51	67	58	51	48
9	88	68	55	47	85	67	55	47	65	54	47	63	53	46	62	53	46	43
10	82	62	51	43	80	62	50	43	60	50	42	59	49	42	57	48	42	39

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UGR TABLE - CORRECTED

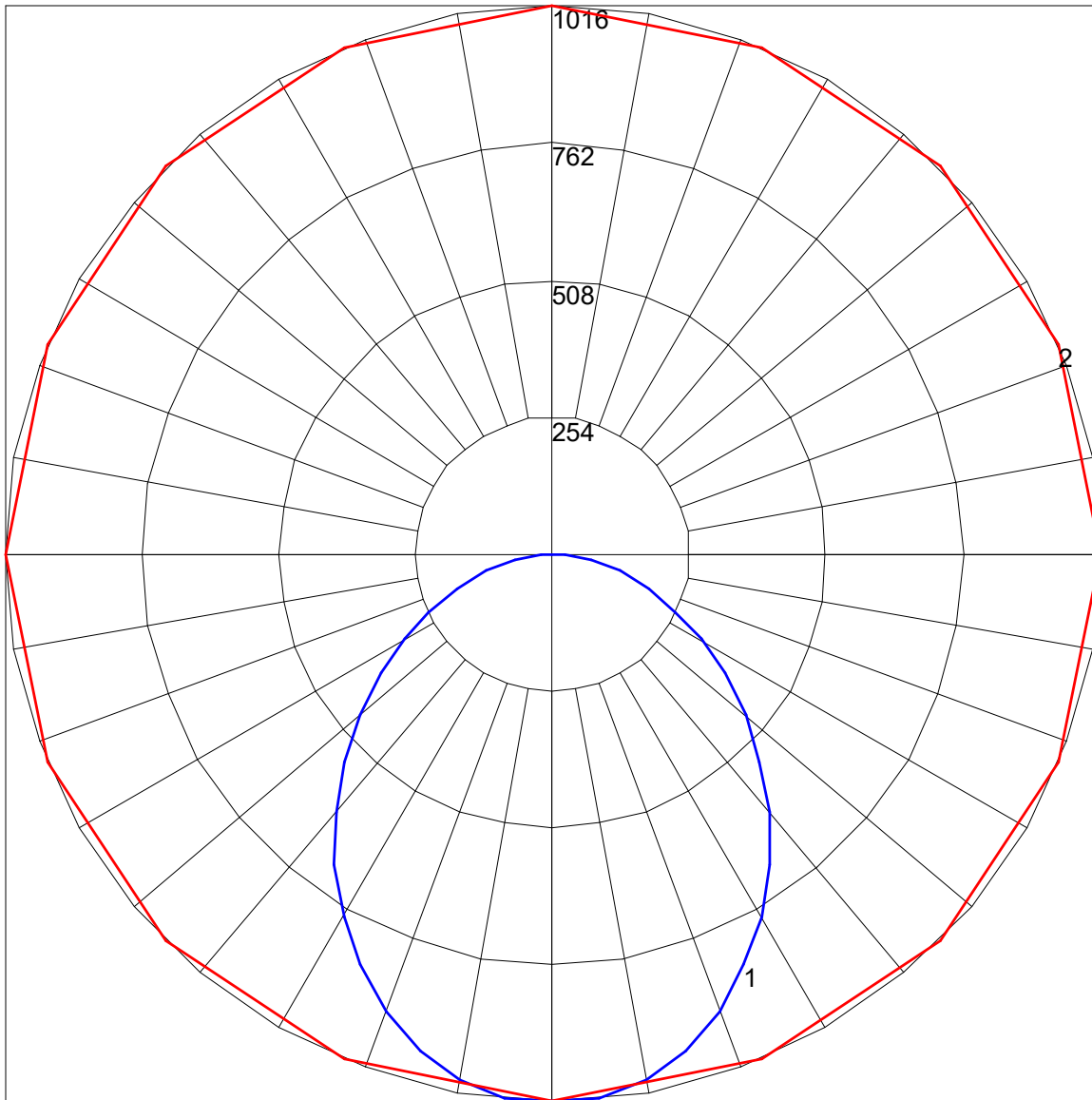
Reflectances

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	13.1	14.7	13.5	15.0	15.3	14.3	15.9	14.7	16.2	16.5
	3H	14.8	16.2	15.1	16.5	16.9	16.2	17.6	16.6	18.0	18.3
	4H	15.4	16.7	15.8	17.1	17.4	16.9	18.3	17.3	18.6	19.0
	6H	15.8	17.0	16.2	17.4	17.8	17.3	18.6	17.8	19.0	19.4
	8H	15.9	17.1	16.3	17.5	17.9	17.4	18.6	17.9	19.0	19.4
	12H	15.9	17.1	16.3	17.4	17.9	17.4	18.6	17.9	19.0	19.4
4H	2H	13.9	15.2	14.3	15.6	16.0	14.8	16.2	15.2	16.5	16.9
	3H	15.8	16.9	16.2	17.3	17.7	17.0	18.1	17.4	18.5	18.9
	4H	16.5	17.5	16.9	17.9	18.3	17.8	18.9	18.3	19.3	19.7
	6H	17.0	17.9	17.4	18.3	18.8	18.4	19.2	18.8	19.7	20.1
	8H	17.1	18.0	17.6	18.4	18.9	18.5	19.3	18.9	19.7	20.2
	12H	17.2	18.0	17.7	18.4	18.9	18.5	19.2	19.0	19.7	20.2
8H	4H	16.9	17.7	17.3	18.1	18.6	18.1	18.9	18.5	19.4	19.8
	6H	17.5	18.2	18.0	18.7	19.2	18.7	19.4	19.2	19.9	20.3
	8H	17.7	18.3	18.2	18.8	19.3	18.8	19.4	19.3	19.9	20.4
	12H	17.8	18.4	18.4	18.9	19.4	18.9	19.4	19.4	19.9	20.5
12H	4H	16.9	17.7	17.4	18.1	18.6	18.1	18.8	18.6	19.3	19.8
	6H	17.6	18.2	18.1	18.7	19.2	18.7	19.3	19.2	19.8	20.3
	8H	17.8	18.4	18.3	18.9	19.4	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 1015.779 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.)