

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT2-22-L42-RGB835-D-DMX-UNV WHITE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 18882.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 1 DEC 2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 2x2' RECESSED LUMINAIRE

[MORE] WITH FROST CONCAVE ACRYLIC LENS w/DEEP ACRYLIC CENTER

[MORE] DIFFUSER

[LUMCAT] AT2-22-L42-RGB835-D-DMX-UNV white only

[_SEARCH_SOURCETYPE] LED

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

[_SEARCH_MOUNTING] Ceiling, Recessed

[_SEARCH_CERTIFICATION] DLC

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4246
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	44.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.28
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	4470	4794	5128
55	3915	4227	4576
65	3334	3740	4078
75	2653	3178	3592
85	1313	1969	1723

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1736.280	1736.280	1736.280	1736.280	1736.280
5	1732.146	1723.878	1725.945	1723.878	1723.878
10	1690.806	1690.806	1694.940	1697.007	1699.074
15	1624.662	1630.863	1643.265	1651.533	1659.801
20	1546.116	1554.384	1575.054	1593.657	1608.126
25	1440.699	1457.235	1486.173	1508.910	1529.580
30	1318.746	1335.282	1382.823	1411.761	1428.297
35	1192.659	1202.994	1260.870	1296.009	1318.746
40	1054.170	1066.572	1122.381	1161.654	1184.391
45	913.614	930.150	979.758	1023.165	1047.969
50	777.192	795.795	841.269	876.408	905.346
55	649.038	663.507	700.713	729.651	758.589
60	525.018	545.688	576.693	607.698	626.301
65	407.199	434.070	456.807	477.477	498.147
70	297.648	332.787	345.189	363.792	384.462
75	198.432	217.035	237.705	264.576	268.710
80	107.484	126.087	140.556	152.958	148.824
85	33.072	43.407	49.608	53.742	43.407
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	626.76	N.A.	14.80
0-30	1309.6	N.A.	30.80
0-40	2092.49	N.A.	49.30
0-60	3477.1	N.A.	81.90
0-80	4183.73	N.A.	98.50
0-90	4246.17	N.A.	100.00
10-90	4082.45	N.A.	96.10
20-40	1465.73	N.A.	34.50
20-50	2220.99	N.A.	52.30
40-70	1838.22	N.A.	43.30
60-80	706.63	N.A.	16.60
70-80	253.01	N.A.	6.00
80-90	62.44	N.A.	1.50
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	4246.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.72
10-20	463.04
20-30	682.84
30-40	782.89
40-50	755.26
50-60	629.35
60-70	453.62
70-80	253.01
80-90	62.44
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	167	167	167	167	163	163	163	163	156	156	156	149	149	149	143	143	143	140
1	153	147	141	136	150	144	139	134	138	134	130	132	129	126	127	125	122	119
2	140	129	120	112	136	126	118	111	121	114	108	117	111	106	113	108	103	100
3	128	114	103	94	125	112	102	93	108	99	92	104	96	90	100	94	89	86
4	118	101	90	80	115	100	89	80	96	86	79	93	85	78	90	83	77	74
5	109	91	79	70	106	90	78	69	87	76	69	84	75	68	81	73	67	64
6	100	82	70	61	98	81	69	61	79	68	61	76	67	60	74	66	60	57
7	93	75	63	55	91	74	62	54	72	61	54	70	60	54	68	59	53	50
8	87	69	57	49	85	68	56	49	66	56	48	64	55	48	62	54	48	45
9	81	63	52	44	80	62	51	44	61	51	44	59	50	44	58	49	43	41
10	76	58	47	40	75	58	47	40	56	47	40	55	46	40	54	46	40	37

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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	15.2	16.8	15.5	17.1	17.4	16.0	17.6	16.3	17.9	18.2
	3H	16.8	18.2	17.2	18.5	18.9	17.7	19.1	18.1	19.5	19.8
	4H	17.3	18.7	17.7	19.0	19.4	18.4	19.7	18.8	20.1	20.4
	6H	17.7	18.9	18.1	19.3	19.7	18.8	20.1	19.3	20.4	20.8
	8H	17.7	18.9	18.2	19.3	19.7	19.0	20.1	19.4	20.5	20.9
	12H	17.8	18.9	18.2	19.3	19.7	19.0	20.1	19.4	20.5	21.0

UGR Viewed Endwise

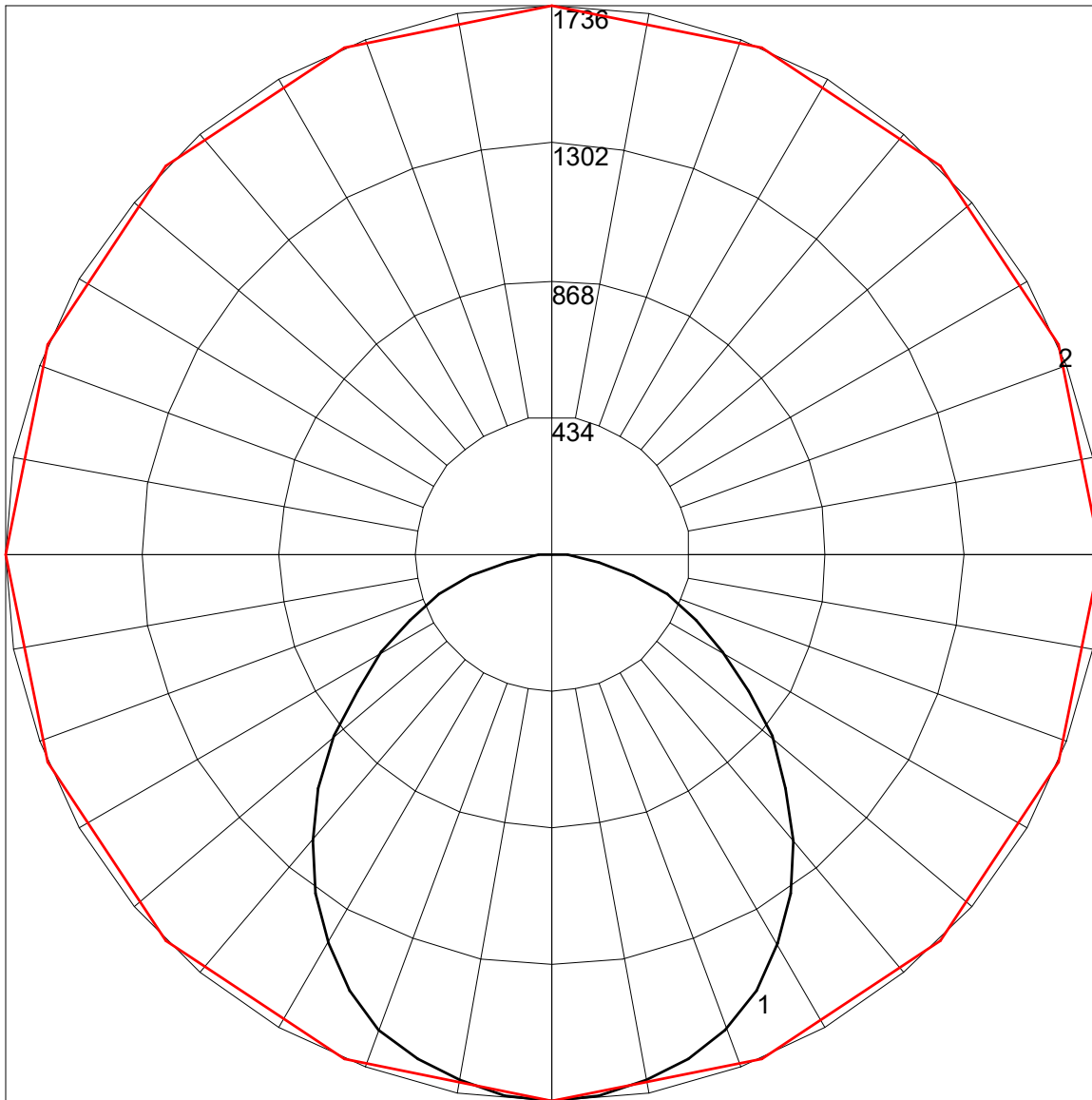
4H	2H	15.9	17.2	16.3	17.5	17.9	16.5	17.8	16.9	18.2	18.5
	3H	17.7	18.8	18.1	19.2	19.6	18.4	19.6	18.9	20.0	20.4
	4H	18.3	19.3	18.8	19.8	20.2	19.3	20.3	19.7	20.7	21.1
	6H	18.8	19.7	19.2	20.1	20.6	19.9	20.7	20.3	21.2	21.6
	8H	18.9	19.7	19.4	20.2	20.7	20.0	20.8	20.5	21.3	21.8
	12H	19.0	19.7	19.5	20.2	20.7	20.1	20.8	20.6	21.3	21.8

8H	4H	18.7	19.5	19.1	19.9	20.4	19.5	20.3	20.0	20.8	21.2
	6H	19.3	19.9	19.8	20.4	20.9	20.2	20.9	20.7	21.4	21.9
	8H	19.4	20.1	19.9	20.6	21.0	20.4	21.1	21.0	21.6	22.1
	12H	19.6	20.1	20.1	20.6	21.1	20.6	21.1	21.1	21.6	22.2

12H	4H	18.7	19.5	19.2	19.9	20.4	19.5	20.3	20.0	20.7	21.2
	6H	19.3	19.9	19.8	20.4	20.9	20.3	20.9	20.8	21.3	21.9
	8H	19.6	20.1	20.1	20.6	21.2	20.5	21.1	21.0	21.6	22.1

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 1736.28 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)