

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-22-L40-RGB835-D-DMX-UNV WHITE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19255.0

[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 FROSTED ACRYLIC LENS

[LUMCAT] AT3-22-L40-RGB835-D-DMX-UNV white only

[_SEARCH_SOURCETYPE] LED

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

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3997
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	44.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.76 ft
Luminous Width (90-270)	1.76 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4106	4568	4972
55	3581	4221	4588
65	3009	3814	4280
75	2444	3573	3784
85	1639	1404	1014

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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	1557.246	1557.246	1557.246	1557.246	1557.246
5	1557.246	1551.370	1549.411	1549.411	1547.452
10	1518.070	1518.070	1518.070	1525.905	1527.864
15	1461.265	1467.141	1474.976	1492.606	1498.482
20	1386.830	1398.583	1418.171	1445.594	1457.347
25	1286.932	1308.478	1351.572	1388.789	1406.418
30	1177.239	1206.621	1263.426	1318.272	1331.984
35	1065.587	1098.887	1155.692	1236.003	1241.879
40	950.018	973.524	1042.082	1122.392	1130.228
45	836.408	846.202	930.430	987.235	1012.700
50	716.921	724.756	816.820	855.996	891.254
55	591.558	613.104	697.333	730.632	758.056
60	475.988	509.288	579.805	613.104	632.692
65	366.296	415.266	464.236	499.494	521.041
70	266.397	321.243	360.419	391.760	405.472
75	182.168	229.180	266.397	278.150	282.067
80	107.734	139.075	158.663	113.610	103.816
85	41.135	45.052	35.258	29.382	25.464
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	563.98	N.A.	14.10
0-30	1184.75	N.A.	29.60
0-40	1909.36	N.A.	47.80
0-60	3230.57	N.A.	80.80
0-80	3942.78	N.A.	98.60
0-90	3997.41	N.A.	100.00
10-90	3850.36	N.A.	96.30
20-40	1345.39	N.A.	33.70
20-50	2057.59	N.A.	51.50
40-70	1773.71	N.A.	44.40
60-80	712.21	N.A.	17.80
70-80	259.70	N.A.	6.50
80-90	54.63	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	3997.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.04
10-20	416.93
20-30	620.77
30-40	724.62
40-50	712.20
50-60	609.01
60-70	452.51
70-80	259.70
80-90	54.63
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	169	169	169	169	165	165	165	165	158	158	158	151	151	151	145	145	145	142
1	155	148	143	137	151	145	140	135	139	135	131	134	130	127	129	126	123	120
2	141	130	120	113	138	127	119	111	122	115	109	118	111	106	113	108	104	101
3	129	114	103	94	126	112	102	93	108	99	92	104	96	90	101	94	88	85
4	118	102	90	80	115	100	88	80	96	86	79	93	84	77	90	83	76	73
5	109	91	79	69	106	90	78	69	87	76	68	84	75	67	81	73	67	64
6	101	82	70	61	98	81	69	61	78	68	60	76	67	59	74	65	59	56
7	94	75	63	54	91	74	62	54	71	61	53	69	60	53	67	59	53	50
8	87	68	56	48	85	67	56	48	65	55	48	64	54	48	62	54	47	45
9	82	63	51	44	80	62	51	43	60	50	43	59	50	43	57	49	43	40
10	77	58	47	40	75	57	47	39	56	46	39	55	46	39	53	45	39	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

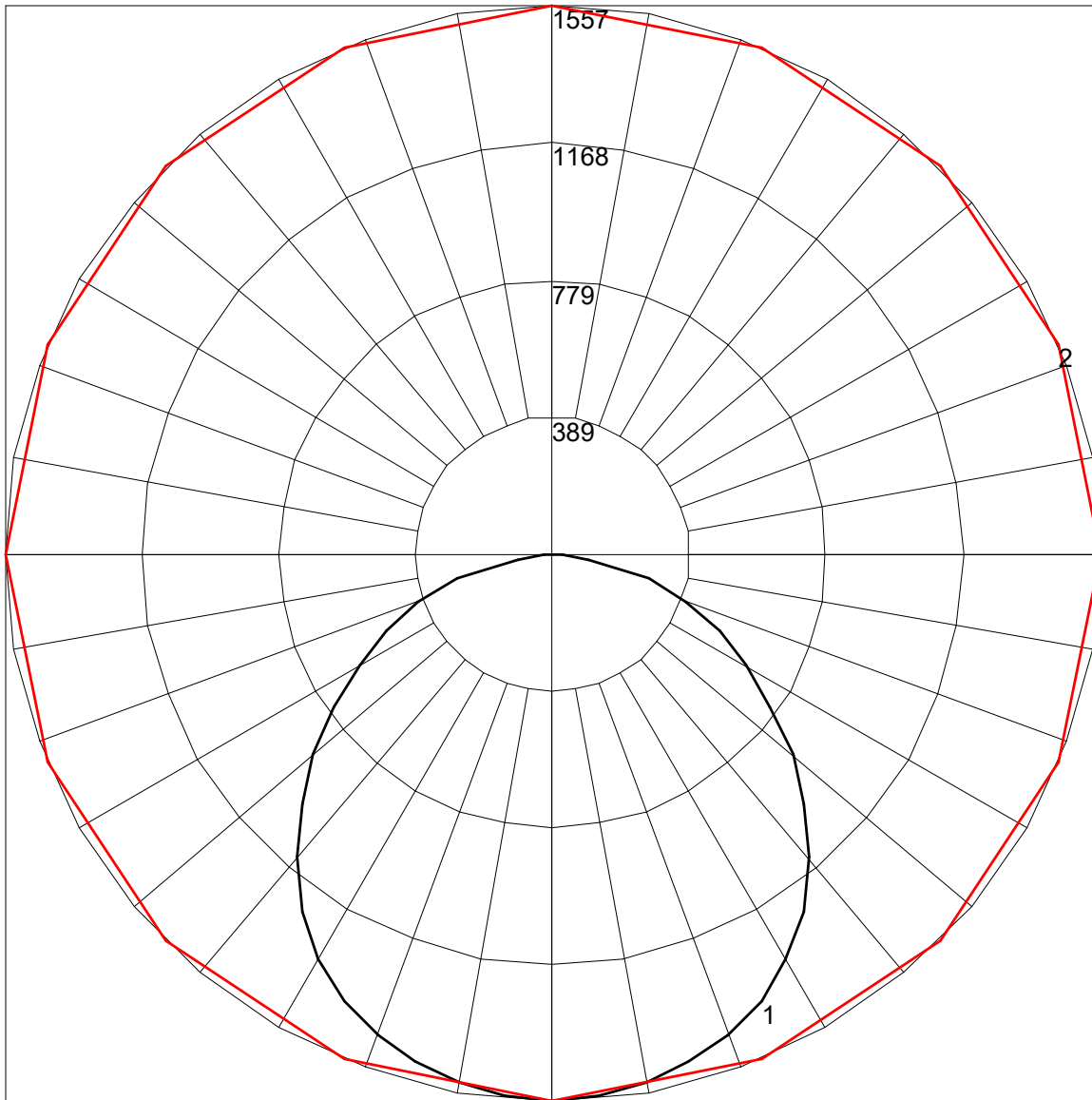
X=2H	Y=2H	14.8	16.4	15.2	16.8	17.1	16.2	17.8	16.6	18.1	18.4
	3H	16.4	17.9	16.8	18.2	18.6	18.1	19.5	18.5	19.9	20.2
	4H	17.0	18.4	17.4	18.7	19.1	18.8	20.2	19.2	20.5	20.9
	6H	17.4	18.7	17.9	19.1	19.5	19.1	20.4	19.5	20.7	21.1
	8H	17.6	18.8	18.0	19.2	19.5	19.2	20.4	19.6	20.8	21.2
	12H	17.6	18.8	18.1	19.2	19.6	19.2	20.3	19.6	20.7	21.1

UGR Viewed Endwise

4H	2H	15.7	17.0	16.1	17.4	17.8	16.7	18.1	17.1	18.4	18.8
	3H	17.6	18.7	18.0	19.1	19.5	18.9	20.0	19.3	20.4	20.8
	4H	18.3	19.3	18.7	19.7	20.1	19.7	20.7	20.1	21.2	21.6
	6H	18.8	19.7	19.3	20.1	20.6	20.1	21.0	20.6	21.5	21.9
	8H	19.0	19.8	19.4	20.2	20.7	20.2	21.0	20.6	21.5	21.9
	12H	19.1	19.8	19.5	20.3	20.7	20.2	20.9	20.7	21.4	21.9
8H	4H	18.7	19.6	19.2	20.0	20.5	20.0	20.8	20.5	21.3	21.7
	6H	19.4	20.1	19.9	20.6	21.1	20.5	21.2	21.0	21.7	22.1
	8H	19.6	20.3	20.1	20.8	21.2	20.6	21.2	21.1	21.7	22.2
	12H	19.8	20.3	20.3	20.8	21.4	20.6	21.2	21.1	21.6	22.2
12H	4H	18.8	19.5	19.2	20.0	20.5	20.0	20.8	20.5	21.2	21.7
	6H	19.5	20.1	20.0	20.6	21.1	20.5	21.1	21.0	21.6	22.1
	8H	19.7	20.3	20.2	20.8	21.3	20.6	21.2	21.1	21.7	22.2

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 1557.246 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.)