

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT1-14-L42-RGB835-D-DMX-UNV WHITE ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19432.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 1 DEC 2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 1x4' RECESSED LUMINAIRE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] AT1-14-L42-RGB835-D-DMX-UNV white only

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4163
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	44.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.76 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5150	5055	4986
55	4322	4311	4204
65	3809	3809	3056
75	3003	2507	2247
85	2388	1475	1053

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AT1-14-L42-RGB835-D-DMX-UNV WHITE ONLY\_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1889.25	1889.25	1889.25	1889.25	1889.25
<b>5</b>	1904.10	1902.45	1902.45	1902.45	1900.80
<b>10</b>	1849.65	1846.35	1843.05	1839.75	1839.75
<b>15</b>	1777.05	1777.05	1767.15	1760.55	1760.55
<b>20</b>	1704.45	1699.50	1687.95	1674.75	1671.45
<b>25</b>	1546.05	1541.10	1524.60	1518.00	1509.75
<b>30</b>	1405.80	1399.20	1382.70	1369.50	1366.20
<b>35</b>	1283.70	1277.10	1262.25	1250.70	1244.10
<b>40</b>	1118.70	1110.45	1098.90	1087.35	1082.40
<b>45</b>	981.75	970.20	963.60	955.35	950.40
<b>50</b>	833.25	826.65	820.05	816.75	815.10
<b>55</b>	668.25	668.25	666.60	660.00	650.10
<b>60</b>	544.50	546.15	546.15	523.05	506.55
<b>65</b>	433.95	437.25	433.95	379.50	348.15
<b>70</b>	316.80	321.75	297.00	244.20	239.25
<b>75</b>	209.55	217.80	174.90	160.05	156.75
<b>80</b>	123.75	117.15	99.00	82.50	75.90
<b>85</b>	56.10	46.20	34.65	26.40	24.75
<b>90</b>	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AT1-14-L42-RGB835-D-DMX-UNV WHITE ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	678.40	N.A.	16.30
0-30	1384.19	N.A.	33.20
0-40	2168.32	N.A.	52.10
0-60	3511.21	N.A.	84.30
0-80	4115.78	N.A.	98.90
0-90	4162.99	N.A.	100.00
10-90	3983.66	N.A.	95.70
20-40	1489.92	N.A.	35.80
20-50	2232.75	N.A.	53.60
40-70	1748.93	N.A.	42.00
60-80	604.57	N.A.	14.50
70-80	198.53	N.A.	4.80
80-90	47.21	N.A.	1.10
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	4162.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	179.33
10-20	499.07
20-30	705.79
30-40	784.13
40-50	742.83
50-60	600.06
60-70	406.04
70-80	198.53
80-90	47.21
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	98	98	98	98	96	96	96	96	91	91	91	88	88	88	84	84	84	82
1	90	87	84	81	88	85	82	79	82	79	77	78	76	75	75	74	72	71
2	83	77	72	67	81	75	70	66	72	68	65	70	66	63	67	64	62	60
3	76	68	62	57	74	67	61	56	64	59	55	62	58	54	60	57	53	52
4	70	61	54	49	68	60	53	49	58	52	48	56	51	47	54	50	47	45
5	65	55	48	43	63	54	47	42	52	46	42	51	45	42	49	45	41	39
6	60	50	43	38	59	49	42	37	47	42	37	46	41	37	45	40	37	35
7	56	45	38	34	54	45	38	33	43	37	33	42	37	33	41	36	33	31
8	52	41	35	30	51	41	35	30	40	34	30	39	34	30	38	33	30	28
9	49	38	32	27	48	38	32	27	37	31	27	36	31	27	35	30	27	25
10	46	35	29	25	45	35	29	25	34	29	25	33	28	25	33	28	25	23

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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	17.5	19.0	17.8	19.3	19.6	17.3	18.8	17.6	19.1	19.4
	3H	19.1	20.5	19.5	20.8	21.2	18.4	19.8	18.8	20.1	20.4
	4H	19.7	21.0	20.1	21.3	21.7	18.7	20.0	19.1	20.4	20.8
	6H	20.0	21.2	20.5	21.6	22.0	19.0	20.2	19.4	20.5	20.9
	8H	20.2	21.3	20.6	21.7	22.1	19.0	20.1	19.4	20.5	20.9
	12H	20.3	21.3	20.7	21.7	22.2	19.0	20.1	19.4	20.5	20.9

### UGR Viewed Endwise

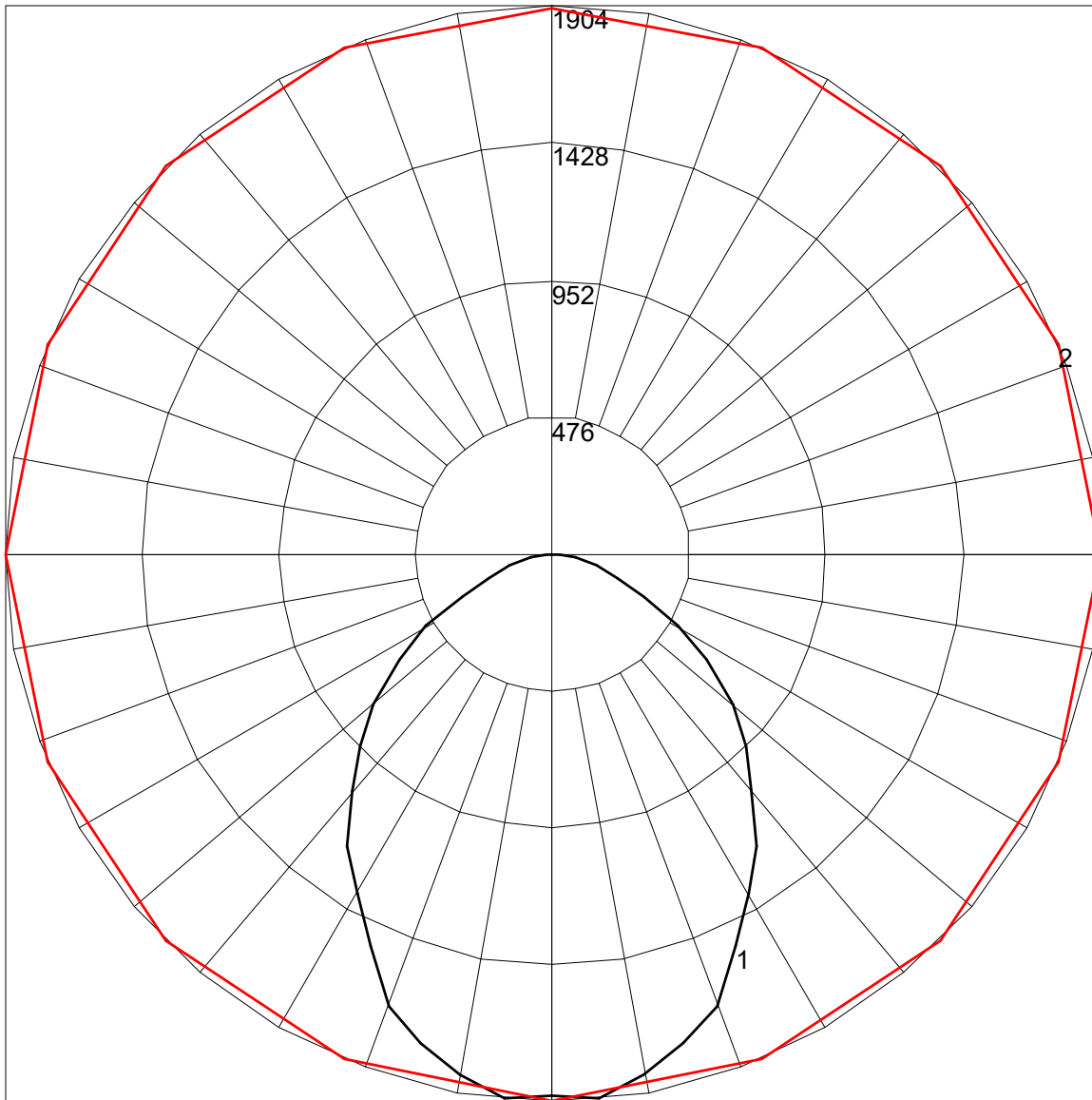
4H	2H	18.1	19.4	18.5	19.7	20.1	17.9	19.2	18.3	19.5	19.9
	3H	19.9	20.9	20.3	21.3	21.7	19.2	20.3	19.6	20.7	21.1
	4H	20.5	21.5	21.0	21.9	22.4	19.6	20.6	20.1	21.0	21.4
	6H	21.0	21.9	21.5	22.3	22.8	19.9	20.8	20.4	21.2	21.7
	8H	21.2	22.0	21.7	22.4	22.9	20.0	20.8	20.4	21.2	21.7
	12H	21.3	22.0	21.8	22.5	23.0	20.0	20.7	20.5	21.2	21.7

8H	4H	20.7	21.5	21.2	21.9	22.4	19.9	20.7	20.3	21.1	21.6
	6H	21.3	21.9	21.8	22.4	22.9	20.2	20.9	20.7	21.4	21.9
	8H	21.5	22.1	22.0	22.6	23.1	20.3	20.9	20.9	21.4	21.9
	12H	21.7	22.2	22.2	22.7	23.3	20.4	20.9	20.9	21.4	22.0

12H	4H	20.7	21.4	21.2	21.9	22.3	19.9	20.6	20.4	21.1	21.5
	6H	21.3	21.9	21.8	22.3	22.9	20.3	20.9	20.8	21.3	21.9
	8H	21.6	22.1	22.1	22.6	23.1	20.4	20.9	20.9	21.4	22.0

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 1904.1 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)