



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-14-L50-835-D-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19434.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 17-JUL-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-42 LED 22"ARRAYS 1x4'RECESSED LUMINAIRE

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

[LUMCAT] AT3-14-L50-835-D-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4702
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	48.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.06
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	6086	5877	5823
55	5176	5052	4857
65	4599	4457	3293
75	3655	2609	2387
85	3011	2070	1537

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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	2143.906	2143.906	2143.906	2143.906	2143.906
5	2121.059	2118.111	2115.163	2111.478	2110.004
10	2096.001	2087.894	2074.628	2064.311	2061.363
15	2008.299	2000.192	1980.294	1964.817	1955.973
20	1913.965	1895.540	1863.849	1835.844	1824.789
25	1715.714	1696.552	1664.862	1638.330	1630.960
30	1577.897	1553.576	1517.464	1496.091	1489.458
35	1429.025	1406.178	1374.487	1358.274	1353.115
40	1273.520	1251.410	1226.352	1217.508	1212.349
45	1160.023	1135.702	1120.226	1112.119	1109.908
50	972.091	954.403	944.085	937.452	933.030
55	800.372	785.632	781.210	767.944	750.993
60	643.393	633.812	630.864	594.014	558.639
65	524.000	518.104	507.787	417.137	375.128
70	383.972	382.498	333.857	252.051	245.418
75	254.999	257.947	182.037	170.245	166.560
80	156.242	137.080	113.497	107.601	103.916
85	70.751	55.274	48.641	39.061	36.113
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	758.72	N.A.	16.10
0-30	1533.55	N.A.	32.60
0-40	2398.37	N.A.	51.00
0-60	3951.15	N.A.	84.00
0-80	4641.77	N.A.	98.70
0-90	4701.72	N.A.	100.00
10-90	4500.86	N.A.	95.70
20-40	1639.65	N.A.	34.90
20-50	2495.53	N.A.	53.10
40-70	2018.32	N.A.	42.90
60-80	690.62	N.A.	14.70
70-80	225.08	N.A.	4.80
80-90	59.95	N.A.	1.30
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	4701.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	200.86
10-20	557.86
20-30	774.83
30-40	864.82
40-50	855.88
50-60	696.90
60-70	465.54
70-80	225.08
80-90	59.95
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

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UGR TABLE - CORRECTED

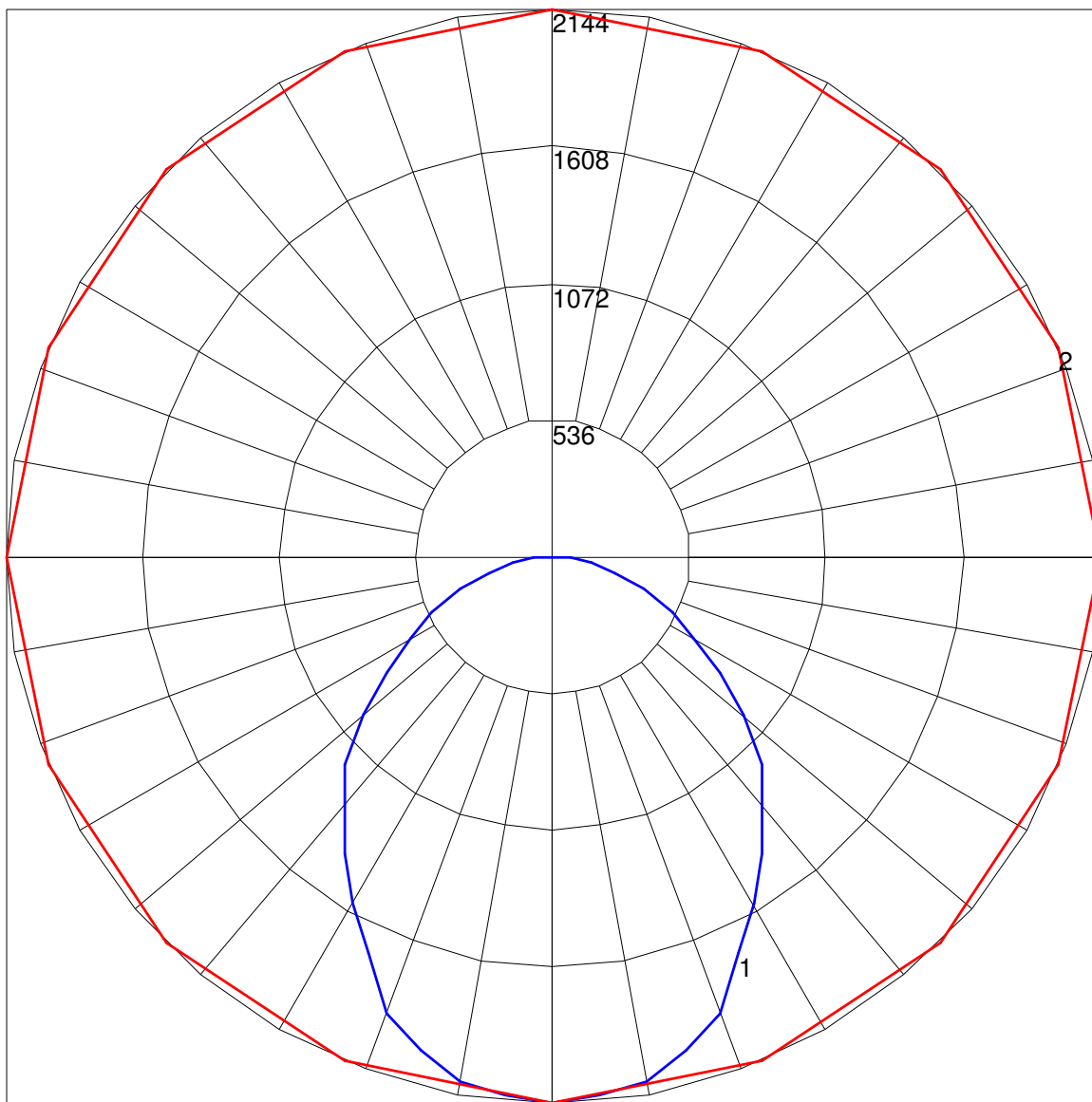
Reflectances

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	17.5	19.1	17.9	19.4	19.7	17.2	18.7	17.5	19.0	19.3
	3H	19.2	20.6	19.6	20.9	21.3	18.1	19.5	18.5	19.8	20.2
	4H	19.8	21.1	20.2	21.4	21.8	18.4	19.7	18.8	20.1	20.5
	6H	20.2	21.4	20.6	21.8	22.2	18.7	19.9	19.1	20.3	20.7
	8H	20.3	21.5	20.8	21.9	22.3	18.8	19.9	19.2	20.3	20.7
	12H	20.4	21.5	20.9	21.9	22.4	18.8	19.9	19.2	20.3	20.7
4H	2H	18.1	19.4	18.5	19.8	20.1	17.8	19.1	18.2	19.5	19.8
	3H	19.9	21.0	20.4	21.4	21.8	18.9	20.0	19.3	20.4	20.8
	4H	20.7	21.6	21.1	22.0	22.5	19.3	20.3	19.7	20.7	21.1
	6H	21.2	22.0	21.6	22.5	22.9	19.7	20.5	20.1	21.0	21.4
	8H	21.4	22.1	21.8	22.6	23.1	19.8	20.6	20.3	21.0	21.5
	12H	21.5	22.2	22.0	22.7	23.1	19.9	20.6	20.3	21.0	21.5
8H	4H	20.8	21.6	21.2	22.0	22.5	19.6	20.3	20.0	20.8	21.3
	6H	21.4	22.0	21.9	22.5	23.0	20.0	20.7	20.5	21.2	21.6
	8H	21.6	22.2	22.1	22.7	23.2	20.2	20.8	20.7	21.3	21.8
	12H	21.8	22.3	22.3	22.8	23.4	20.3	20.8	20.8	21.3	21.9
12H	4H	20.8	21.5	21.3	22.0	22.4	19.6	20.3	20.1	20.8	21.2
	6H	21.4	22.0	21.9	22.5	23.0	20.1	20.7	20.6	21.1	21.7
	8H	21.7	22.2	22.2	22.7	23.3	20.3	20.8	20.8	21.3	21.8

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 2143.906 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.)