



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-14-L30-835-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] 3-JAN-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-L30-835-D-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2816
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	29.5
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	3645	3520	3487
55	3100	3026	2909
65	2755	2669	1972
75	2189	1563	1430
85	1803	1240	921

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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	1283.972	1283.972	1283.972	1283.972	1283.972
5	1270.290	1268.524	1266.759	1264.552	1263.669
10	1255.283	1250.428	1242.483	1236.303	1234.538
15	1202.759	1197.903	1185.986	1176.717	1171.421
20	1146.262	1135.228	1116.248	1099.476	1092.855
25	1027.531	1016.055	997.076	981.186	976.772
30	944.993	930.428	908.800	896.000	892.028
35	855.834	842.152	823.172	813.462	810.372
40	762.703	749.462	734.455	729.159	726.069
45	694.731	680.166	670.897	666.041	664.717
50	582.179	571.586	565.407	561.434	558.786
55	479.338	470.510	467.862	459.917	449.766
60	385.324	379.586	377.821	355.752	334.566
65	313.821	310.290	304.110	249.821	224.662
70	229.959	229.076	199.945	150.952	146.979
75	152.717	154.483	109.021	101.959	99.752
80	93.572	82.097	67.972	64.441	62.234
85	42.372	33.103	29.131	23.393	21.628
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	454.39	N.A.	16.10
0-30	918.43	N.A.	32.60
0-40	1436.37	N.A.	51.00
0-60	2366.32	N.A.	84.00
0-80	2779.93	N.A.	98.70
0-90	2815.83	N.A.	100.00
10-90	2695.54	N.A.	95.70
20-40	981.98	N.A.	34.90
20-50	1494.56	N.A.	53.10
40-70	1208.76	N.A.	42.90
60-80	413.61	N.A.	14.70
70-80	134.80	N.A.	4.80
80-90	35.91	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	2815.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.29
10-20	334.10
20-30	464.04
30-40	517.93
40-50	512.58
50-60	417.37
60-70	278.81
70-80	134.80
80-90	35.91
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	53	53	53	53	51	51	51	51	49	49	49	47	47	47	45	45	45	44
1	48	46	45	43	47	45	44	43	44	42	41	42	41	40	40	40	39	38
2	44	41	38	36	43	40	38	35	39	36	35	37	35	34	36	34	33	32
3	41	36	33	30	40	36	33	30	34	32	29	33	31	29	32	30	29	28
4	37	32	29	26	36	32	28	26	31	28	25	30	27	25	29	27	25	24
5	35	29	25	23	34	29	25	23	28	25	22	27	24	22	26	24	22	21
6	32	26	23	20	31	26	22	20	25	22	20	25	22	20	24	21	19	19
7	30	24	20	18	29	24	20	18	23	20	18	22	20	17	22	19	17	17
8	28	22	18	16	27	22	18	16	21	18	16	21	18	16	20	18	16	15
9	26	20	17	14	25	20	17	14	20	17	14	19	16	14	19	16	14	13
10	24	19	15	13	24	19	15	13	18	15	13	18	15	13	17	15	13	12

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UGR TABLE - CORRECTED

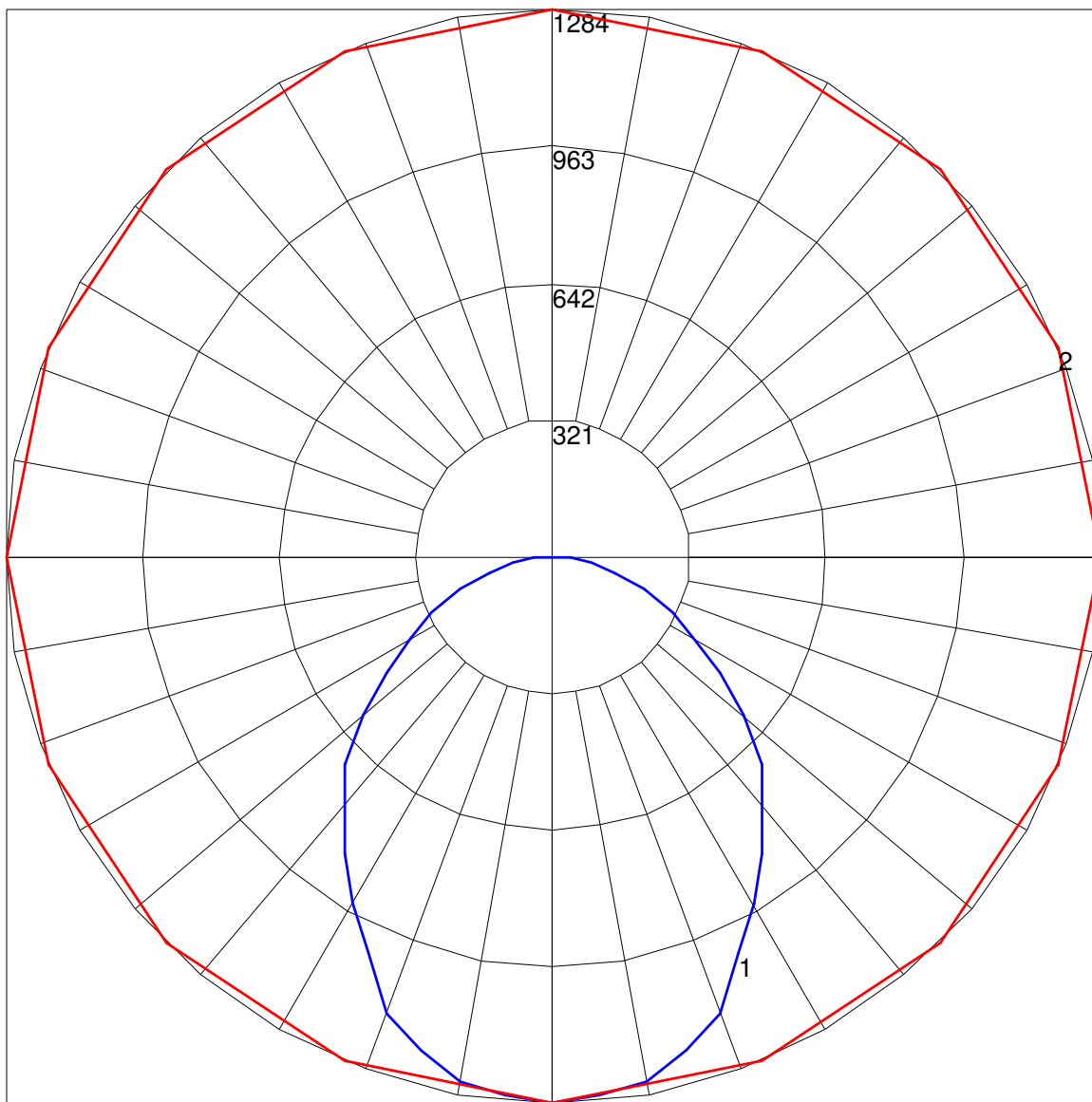
Reflectances

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	18.5	20.1	18.9	20.4	20.7	18.2	19.7	18.5	20.0	20.3
	3H	20.2	21.6	20.6	21.9	22.3	19.1	20.5	19.5	20.8	21.2
	4H	20.8	22.1	21.2	22.4	22.8	19.4	20.7	19.8	21.1	21.5
	6H	21.2	22.4	21.6	22.8	23.2	19.7	20.9	20.1	21.3	21.7
	8H	21.3	22.5	21.8	22.9	23.3	19.8	20.9	20.2	21.3	21.7
	12H	21.4	22.5	21.9	22.9	23.4	19.8	20.9	20.2	21.3	21.7
4H	2H	19.1	20.4	19.5	20.8	21.1	18.8	20.1	19.2	20.5	20.8
	3H	20.9	22.0	21.4	22.4	22.8	19.9	21.0	20.3	21.4	21.8
	4H	21.7	22.6	22.1	23.0	23.5	20.3	21.3	20.7	21.7	22.1
	6H	22.2	23.0	22.6	23.5	23.9	20.7	21.5	21.1	22.0	22.4
	8H	22.4	23.1	22.8	23.6	24.1	20.8	21.6	21.3	22.0	22.5
	12H	22.5	23.2	23.0	23.7	24.1	20.9	21.6	21.3	22.0	22.5
8H	4H	21.8	22.6	22.2	23.0	23.5	20.6	21.3	21.0	21.8	22.3
	6H	22.4	23.0	22.9	23.5	24.0	21.0	21.7	21.5	22.2	22.6
	8H	22.6	23.2	23.1	23.7	24.2	21.2	21.8	21.7	22.3	22.8
	12H	22.8	23.3	23.3	23.8	24.4	21.3	21.8	21.8	22.3	22.9
12H	4H	21.8	22.5	22.3	23.0	23.4	20.6	21.3	21.1	21.8	22.2
	6H	22.4	23.0	22.9	23.5	24.0	21.1	21.7	21.6	22.1	22.7
	8H	22.7	23.2	23.2	23.7	24.3	21.3	21.8	21.8	22.3	22.8

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 1283.972 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.)