



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT2-22-L30-835-D-(L25)-EM10W-DIM-UNV\_(EMER MODE).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] 4-16-2020  
 [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-L30-835-D-(L25)-EM10W-DIM-UNV(EMER MODE)  
 [LAMPCAT] HLM 80 CRI, 3500K CCT  
 [ \_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	1010
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	10
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	1063	1140	1220
55	931	1006	1089
65	793	890	970
75	631	756	855
85	312	468	410

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	413.048	413.048	413.048	413.048	413.048
<b>5</b>	412.064	410.097	410.589	410.097	410.097
<b>10</b>	402.230	402.230	403.213	403.705	404.197
<b>15</b>	386.495	387.970	390.920	392.887	394.854
<b>20</b>	367.809	369.776	374.693	379.119	382.561
<b>25</b>	342.731	346.665	353.549	358.958	363.875
<b>30</b>	313.720	317.653	328.963	335.847	339.781
<b>35</b>	283.724	286.183	299.951	308.311	313.720
<b>40</b>	250.779	253.729	267.006	276.349	281.758
<b>45</b>	217.342	221.276	233.077	243.403	249.304
<b>50</b>	184.888	189.314	200.131	208.491	215.375
<b>55</b>	154.401	157.843	166.694	173.578	180.463
<b>60</b>	124.898	129.815	137.191	144.567	148.992
<b>65</b>	96.870	103.262	108.671	113.588	118.505
<b>70</b>	70.808	79.167	82.118	86.543	91.461
<b>75</b>	47.205	51.631	56.548	62.941	63.924
<b>80</b>	25.570	29.995	33.437	36.388	35.404
<b>85</b>	7.868	10.326	11.801	12.785	10.326
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	149.10	N.A.	14.80
0-30	311.54	N.A.	30.80
0-40	497.79	N.A.	49.30
0-60	827.18	N.A.	81.90
0-80	995.28	N.A.	98.50
0-90	1010.13	N.A.	100.00
10-90	971.18	N.A.	96.10
20-40	348.69	N.A.	34.50
20-50	528.36	N.A.	52.30
40-70	437.30	N.A.	43.30
60-80	168.10	N.A.	16.60
70-80	60.19	N.A.	6.00
80-90	14.85	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	1010.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.95
10-20	110.15
20-30	162.44
30-40	186.24
40-50	179.67
50-60	149.72
60-70	107.91
70-80	60.19
80-90	14.85
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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	27

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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

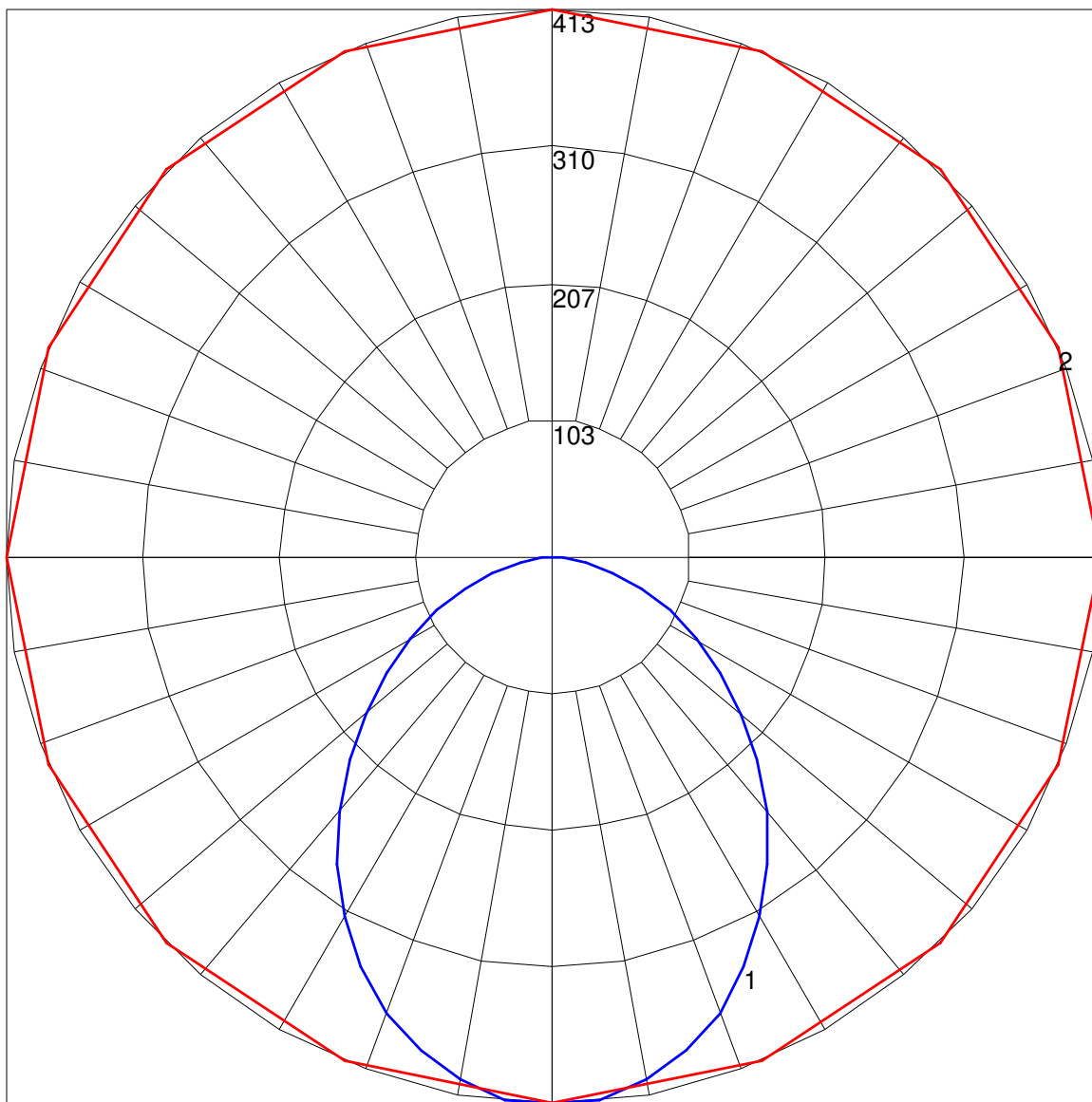
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	11.4	13.0	11.7	13.3	13.6	12.2	13.8	12.5	14.1	14.4
	3H	13.0	14.4	13.4	14.7	15.1	13.9	15.3	14.3	15.7	16.0
	4H	13.5	14.9	13.9	15.2	15.6	14.6	15.9	15.0	16.3	16.6
	6H	13.9	15.1	14.3	15.5	15.9	15.0	16.3	15.5	16.6	17.0
	8H	13.9	15.1	14.4	15.5	15.9	15.2	16.3	15.6	16.7	17.1
	12H	14.0	15.1	14.4	15.5	15.9	15.2	16.3	15.6	16.7	17.2
4H	2H	12.1	13.4	12.5	13.7	14.1	12.7	14.0	13.1	14.4	14.7
	3H	13.9	15.0	14.3	15.4	15.8	14.6	15.8	15.1	16.2	16.6
	4H	14.5	15.5	15.0	16.0	16.4	15.5	16.5	15.9	16.9	17.3
	6H	15.0	15.9	15.4	16.3	16.8	16.1	16.9	16.5	17.4	17.8
	8H	15.1	15.9	15.6	16.4	16.9	16.2	17.0	16.7	17.5	18.0
	12H	15.2	15.9	15.7	16.4	16.9	16.3	17.0	16.8	17.5	18.0
8H	4H	14.9	15.7	15.3	16.1	16.6	15.7	16.5	16.2	17.0	17.4
	6H	15.5	16.1	16.0	16.6	17.1	16.4	17.1	16.9	17.6	18.1
	8H	15.6	16.3	16.1	16.8	17.2	16.6	17.3	17.2	17.8	18.3
	12H	15.8	16.3	16.3	16.8	17.3	16.8	17.3	17.3	17.8	18.4
12H	4H	14.9	15.7	15.4	16.1	16.6	15.7	16.5	16.2	16.9	17.4
	6H	15.5	16.1	16.0	16.6	17.1	16.5	17.1	17.0	17.5	18.1
	8H	15.8	16.3	16.3	16.8	17.4	16.7	17.3	17.2	17.8	18.3

Maximum UGR = 18.4

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## POLAR GRAPH



Maximum Candela = 413.048 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.)