



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-22-L30-840-D-(L22)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19259.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 23-MAR-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-56LED 22"ARRAYS 2x2'RECESSED LUMINAIRE

[MORE] WHITE REFL w/FROSTED ACRYLIC CONCAVE LX4 LENS IN DOOR

[MORE] EVERLINE #D10CC55UNVTZ-C 86 SETPOINT WIRED ZH2

[LUMCAT] AT3-22-L30-840-D-(L22)-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K CCT

[_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	2270
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
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	2342	2557	2802
55	2051	2371	2588
65	1779	2181	2433
75	1502	2013	2234
85	883	793	747

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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	877.187	877.187	877.187	877.187	877.187
5	875.482	873.208	873.208	872.640	873.208
10	855.016	853.879	857.859	859.564	861.838
15	825.454	825.454	833.982	841.372	844.215
20	786.228	789.639	801.009	818.064	822.612
25	733.927	739.612	762.920	784.523	793.619
30	674.803	681.057	712.324	740.749	750.413
35	611.700	619.091	650.927	685.036	699.249
40	542.913	551.440	586.687	624.776	638.988
45	476.967	484.926	520.741	558.262	570.769
50	407.042	420.118	455.933	486.063	498.570
55	338.823	362.131	391.693	413.296	427.508
60	274.014	296.186	325.179	343.939	360.426
65	216.597	237.062	265.487	284.247	296.186
70	163.727	183.055	215.460	225.692	235.925
75	111.993	131.322	150.083	163.158	166.569
80	65.377	79.021	88.117	72.199	71.062
85	22.171	27.288	19.897	18.192	18.760
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	318.10	N.A.	14.00
0-30	668.93	N.A.	29.50
0-40	1076.9	N.A.	47.40
0-60	1826.28	N.A.	80.50
0-80	2237.45	N.A.	98.60
0-90	2270.05	N.A.	100.00
10-90	2187.21	N.A.	96.40
20-40	758.80	N.A.	33.40
20-50	1161.55	N.A.	51.20
40-70	1008.92	N.A.	44.40
60-80	411.17	N.A.	18.10
70-80	151.63	N.A.	6.70
80-90	32.60	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	2270.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.84
10-20	235.26
20-30	350.83
30-40	407.97
40-50	402.75
50-60	346.63
60-70	259.54
70-80	151.63
80-90	32.60
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	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	87	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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UGR TABLE - CORRECTED

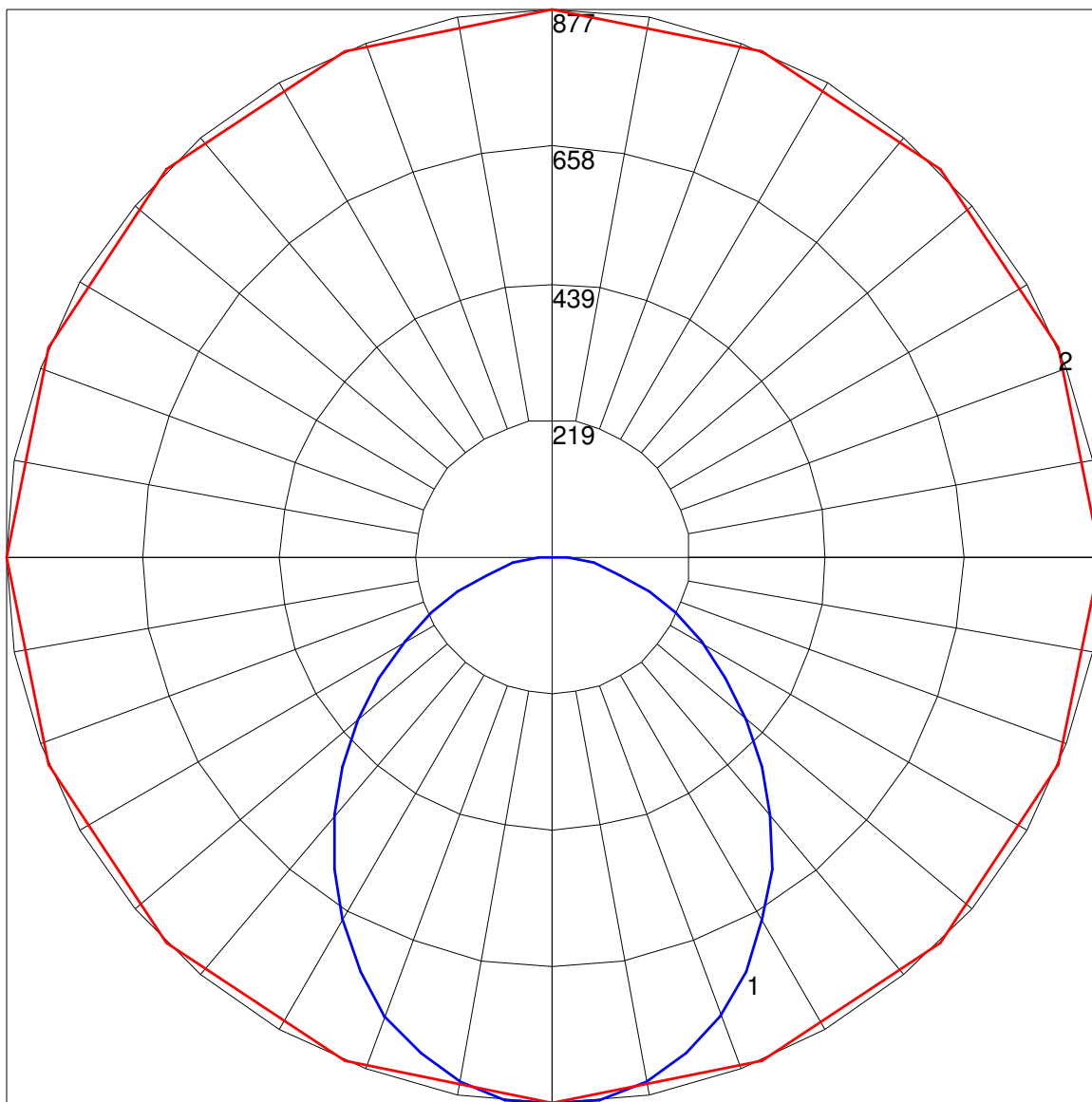
Reflectances

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	14.2	15.8	14.6	16.2	16.5	15.4	17.0	15.7	17.3	17.6
	3H	15.9	17.3	16.2	17.6	18.0	17.3	18.8	17.7	19.1	19.4
	4H	16.5	17.8	16.9	18.2	18.6	18.1	19.4	18.5	19.8	20.2
	6H	16.9	18.1	17.3	18.5	18.9	18.4	19.7	18.8	20.1	20.5
	8H	17.0	18.2	17.4	18.6	19.0	18.5	19.7	18.9	20.1	20.5
	12H	17.1	18.2	17.5	18.6	19.0	18.5	19.7	19.0	20.1	20.5
4H	2H	15.0	16.4	15.4	16.7	17.1	15.9	17.3	16.3	17.6	18.0
	3H	16.9	18.1	17.3	18.4	18.8	18.1	19.2	18.5	19.6	20.0
	4H	17.6	18.7	18.1	19.1	19.5	19.0	20.0	19.4	20.4	20.9
	6H	18.2	19.1	18.6	19.5	20.0	19.5	20.4	19.9	20.8	21.3
	8H	18.3	19.2	18.8	19.6	20.1	19.6	20.4	20.0	20.8	21.3
	12H	18.4	19.2	18.9	19.7	20.1	19.6	20.4	20.1	20.8	21.3
8H	4H	18.1	18.9	18.5	19.4	19.8	19.3	20.1	19.7	20.5	21.0
	6H	18.8	19.5	19.3	19.9	20.4	19.8	20.5	20.3	21.0	21.5
	8H	19.0	19.6	19.5	20.1	20.6	20.0	20.6	20.5	21.1	21.6
	12H	19.1	19.7	19.6	20.2	20.7	20.0	20.6	20.5	21.1	21.6
12H	4H	18.1	18.9	18.6	19.4	19.8	19.3	20.0	19.8	20.5	21.0
	6H	18.8	19.5	19.4	19.9	20.5	19.9	20.5	20.4	21.0	21.5
	8H	19.1	19.7	19.6	20.1	20.7	20.0	20.6	20.5	21.1	21.6

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 877.187 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.)