



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-22-L30-835-D-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 19255.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 3-JAN-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56 LED 22" ARRAYS 2x2' RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC CONCAVE LX4 LENS IN
 [MORE] DOOR
 [LUMCAT] AT3-22-L30-835-D-DIM-UNV
 [_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	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)	1.14
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	2892	3218	3502
55	2522	2973	3232
65	2119	2686	3015
75	1721	2517	2665
85	1154	989	714

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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	1096.874	1096.874	1096.874	1096.874	1096.874
5	1096.874	1092.735	1091.355	1091.355	1089.976
10	1069.280	1069.280	1069.280	1074.799	1076.179
15	1029.268	1033.407	1038.926	1051.344	1055.483
20	976.839	985.117	998.914	1018.230	1026.509
25	906.473	921.650	952.004	978.219	990.636
30	829.209	849.905	889.917	928.549	938.207
35	750.566	774.021	814.032	870.601	874.740
40	669.162	685.719	734.009	790.577	796.096
45	589.139	596.037	655.365	695.377	713.313
50	504.976	510.495	575.342	602.936	627.771
55	416.674	431.851	491.179	514.634	533.950
60	335.271	358.726	408.396	431.851	445.648
65	258.007	292.500	326.993	351.828	367.004
70	187.641	226.273	253.868	275.943	285.601
75	128.314	161.427	187.641	195.920	198.679
80	75.884	97.960	111.757	80.024	73.125
85	28.974	31.733	24.835	20.696	17.936
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	397.25	N.A.	14.10
0-30	834.50	N.A.	29.60
0-40	1344.9	N.A.	47.80
0-60	2275.51	N.A.	80.80
0-80	2777.17	N.A.	98.60
0-90	2815.65	N.A.	100.00
10-90	2712.07	N.A.	96.30
20-40	947.65	N.A.	33.70
20-50	1449.3	N.A.	51.50
40-70	1249.35	N.A.	44.40
60-80	501.66	N.A.	17.80
70-80	182.92	N.A.	6.50
80-90	38.48	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	2815.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.57
10-20	293.67
20-30	437.25
30-40	510.40
40-50	501.65
50-60	428.97
60-70	318.73
70-80	182.92
80-90	38.48
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	164	164	164	164	160	160	160	160	153	153	153	147	147	147	141	141	141	138
1	151	144	139	133	147	141	136	131	135	131	127	130	126	123	125	122	120	117
2	137	126	117	109	134	124	115	108	119	112	106	114	108	103	110	105	101	98
3	125	111	100	91	122	109	99	91	105	96	89	101	94	87	98	91	86	83
4	115	99	87	78	112	97	86	77	94	84	76	90	82	75	87	80	74	71
5	106	89	76	67	103	87	76	67	84	74	66	81	73	66	79	71	65	62
6	98	80	68	59	95	79	67	59	76	66	58	74	65	58	72	64	57	54
7	91	73	61	52	89	72	60	52	69	59	52	67	58	51	66	57	51	48
8	85	66	55	47	83	65	54	47	64	54	46	62	53	46	60	52	46	43
9	79	61	50	42	77	60	50	42	59	49	42	57	48	42	56	48	42	39
10	74	56	46	38	73	56	45	38	54	45	38	53	44	38	52	44	38	35

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UGR TABLE - CORRECTED

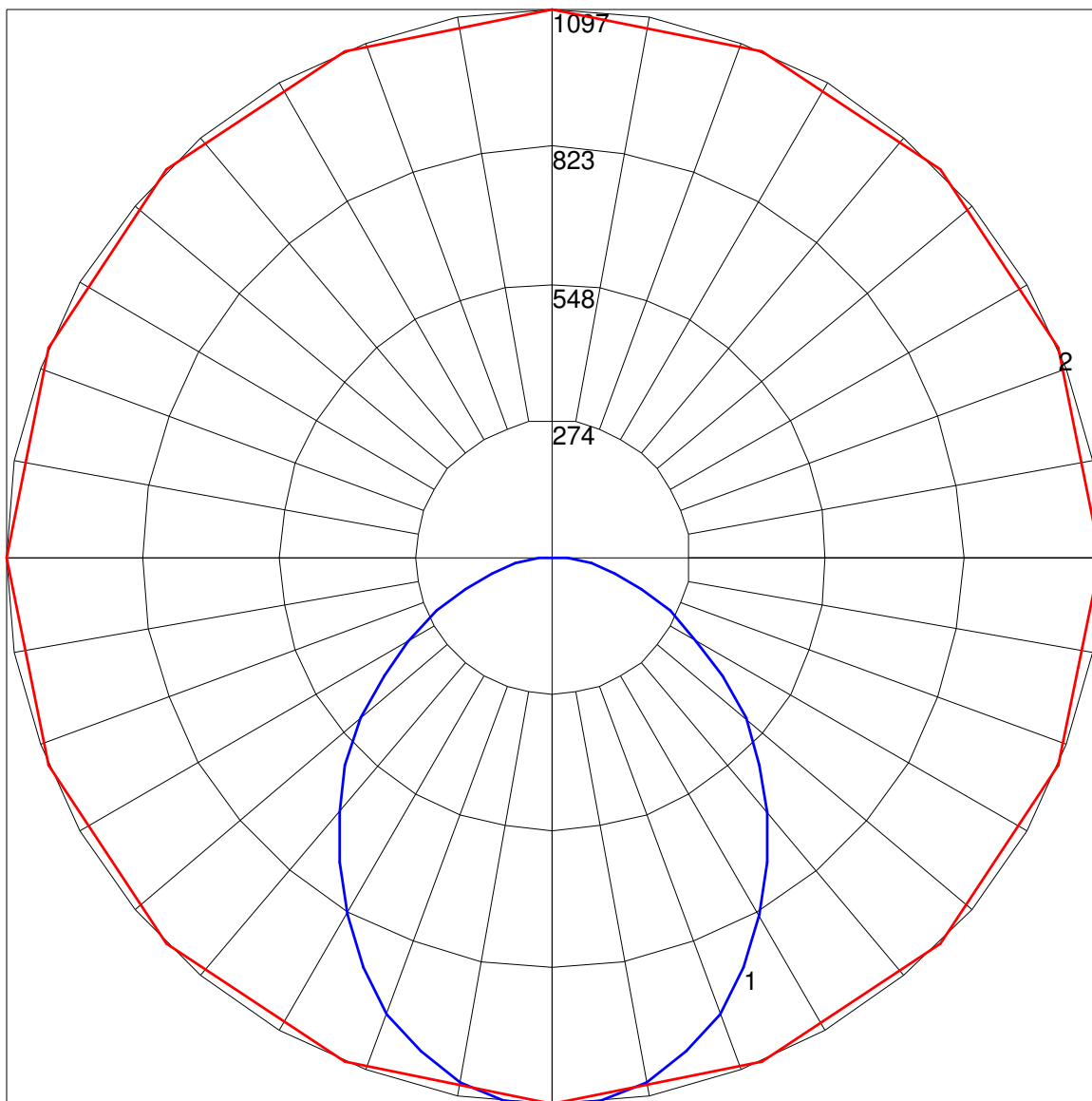
Reflectances

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	13.7	15.3	14.1	15.7	16.0	15.1	16.7	15.5	17.0	17.3
	3H	15.3	16.8	15.7	17.1	17.5	17.0	18.4	17.4	18.8	19.1
	4H	15.9	17.3	16.3	17.6	18.0	17.7	19.1	18.1	19.4	19.8
	6H	16.3	17.6	16.8	18.0	18.4	18.0	19.3	18.4	19.6	20.0
	8H	16.5	17.7	16.9	18.1	18.4	18.1	19.3	18.5	19.7	20.1
	12H	16.5	17.7	17.0	18.1	18.5	18.1	19.2	18.5	19.6	20.0
4H	2H	14.6	15.9	15.0	16.3	16.7	15.6	17.0	16.0	17.3	17.7
	3H	16.5	17.6	16.9	18.0	18.4	17.8	18.9	18.2	19.3	19.7
	4H	17.2	18.2	17.6	18.6	19.0	18.6	19.6	19.0	20.1	20.5
	6H	17.7	18.6	18.2	19.0	19.5	19.0	19.9	19.5	20.4	20.8
	8H	17.9	18.7	18.3	19.1	19.6	19.1	19.9	19.5	20.4	20.8
	12H	18.0	18.7	18.4	19.2	19.6	19.1	19.8	19.6	20.3	20.8
8H	4H	17.6	18.5	18.1	18.9	19.4	18.9	19.7	19.4	20.2	20.6
	6H	18.3	19.0	18.8	19.5	20.0	19.4	20.1	19.9	20.6	21.0
	8H	18.5	19.2	19.0	19.7	20.1	19.5	20.1	20.0	20.6	21.1
	12H	18.7	19.2	19.2	19.7	20.3	19.5	20.1	20.0	20.5	21.1
12H	4H	17.7	18.4	18.1	18.9	19.4	18.9	19.7	19.4	20.1	20.6
	6H	18.4	19.0	18.9	19.5	20.0	19.4	20.0	19.9	20.5	21.0
	8H	18.6	19.2	19.1	19.7	20.2	19.5	20.1	20.0	20.6	21.1

Maximum UGR = 21.1

POLAR GRAPH



Maximum Candela = 1096.874 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.)