



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-22-L40-835-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
 [ISSUE DATE] 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-L40-835-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	3831
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	37.16
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	3935	4377	4764
55	3431	4045	4397
65	2883	3654	4101
75	2341	3424	3626
85	1570	1346	972

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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	1492.232	1492.232	1492.232	1492.232	1492.232
5	1492.232	1486.601	1484.724	1484.724	1482.847
10	1454.691	1454.691	1454.691	1462.199	1464.076
15	1400.258	1405.889	1413.397	1430.290	1435.921
20	1328.931	1340.193	1358.963	1385.241	1396.504
25	1233.203	1253.850	1295.144	1330.808	1347.701
30	1128.090	1156.245	1210.679	1263.235	1276.374
35	1021.099	1053.009	1107.442	1184.400	1190.031
40	910.355	932.879	998.575	1075.533	1083.041
45	801.488	810.873	891.585	946.019	970.420
50	686.990	694.498	782.718	820.258	854.045
55	566.860	587.508	668.219	700.129	726.407
60	456.116	488.025	555.598	587.508	606.278
65	351.003	397.928	444.854	478.640	499.288
70	255.275	307.831	345.372	375.404	388.543
75	174.563	219.611	255.275	266.537	270.291
80	103.236	133.268	152.039	108.867	99.482
85	39.417	43.171	33.786	28.155	24.401
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	540.43	N.A.	14.10
0-30	1135.28	N.A.	29.60
0-40	1829.65	N.A.	47.80
0-60	3095.7	N.A.	80.80
0-80	3778.17	N.A.	98.60
0-90	3830.52	N.A.	100.00
10-90	3689.61	N.A.	96.30
20-40	1289.22	N.A.	33.70
20-50	1971.68	N.A.	51.50
40-70	1699.66	N.A.	44.40
60-80	682.47	N.A.	17.80
70-80	248.86	N.A.	6.50
80-90	52.35	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	3830.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	140.91
10-20	399.53
20-30	594.85
30-40	694.37
40-50	682.46
50-60	583.58
60-70	433.62
70-80	248.86
80-90	52.35
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	162	162	162	162	158	158	158	158	151	151	151	145	145	145	139	139	139	136
1	148	142	137	132	145	139	134	129	133	129	125	128	125	121	123	120	118	115
2	135	124	115	108	132	122	114	107	117	110	104	113	107	102	109	104	99	97
3	124	110	99	90	120	108	97	89	104	95	88	100	92	86	96	90	85	82
4	113	97	86	77	110	96	85	76	92	83	75	89	81	74	86	79	73	70
5	105	87	75	66	102	86	75	66	83	73	65	80	72	65	78	70	64	61
6	97	79	67	58	94	78	66	58	75	65	58	73	64	57	71	63	56	54
7	90	72	60	52	87	71	59	51	68	58	51	66	57	51	65	57	50	48
8	84	65	54	46	82	65	54	46	63	53	46	61	52	46	59	51	45	43
9	78	60	49	42	76	59	49	42	58	48	41	56	48	41	55	47	41	39
10	73	56	45	38	72	55	45	38	54	44	38	52	44	38	51	43	37	35

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UGR TABLE - CORRECTED

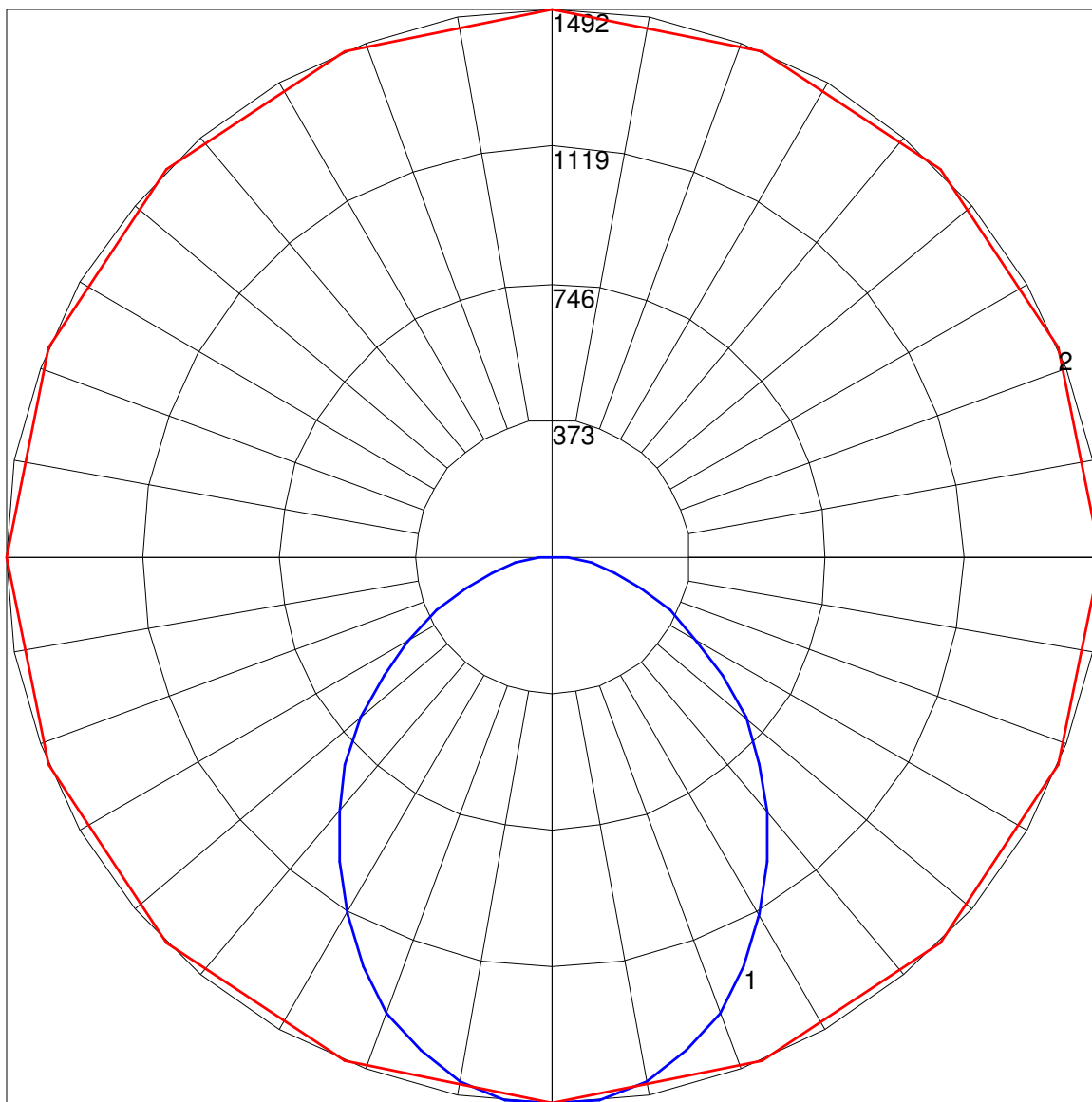
Reflectances

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	14.8	16.4	15.2	16.8	17.1	16.2	17.8	16.6	18.1	18.4
	3H	16.4	17.9	16.8	18.2	18.6	18.1	19.5	18.5	19.9	20.2
	4H	17.0	18.4	17.4	18.7	19.1	18.8	20.2	19.2	20.5	20.9
	6H	17.4	18.7	17.9	19.1	19.5	19.1	20.4	19.5	20.7	21.1
	8H	17.6	18.8	18.0	19.2	19.5	19.2	20.4	19.6	20.8	21.2
	12H	17.6	18.8	18.1	19.2	19.6	19.2	20.3	19.6	20.7	21.1
4H	2H	15.7	17.0	16.1	17.4	17.8	16.7	18.1	17.1	18.4	18.8
	3H	17.6	18.7	18.0	19.1	19.5	18.9	20.0	19.3	20.4	20.8
	4H	18.3	19.3	18.7	19.7	20.1	19.7	20.7	20.1	21.2	21.6
	6H	18.8	19.7	19.3	20.1	20.6	20.1	21.0	20.6	21.5	21.9
	8H	19.0	19.8	19.4	20.2	20.7	20.2	21.0	20.6	21.5	21.9
	12H	19.1	19.8	19.5	20.3	20.7	20.2	20.9	20.7	21.4	21.9
8H	4H	18.7	19.6	19.2	20.0	20.5	20.0	20.8	20.5	21.3	21.7
	6H	19.4	20.1	19.9	20.6	21.1	20.5	21.2	21.0	21.7	22.1
	8H	19.6	20.3	20.1	20.8	21.2	20.6	21.2	21.1	21.7	22.2
	12H	19.8	20.3	20.3	20.8	21.4	20.6	21.2	21.1	21.6	22.2
12H	4H	18.8	19.5	19.2	20.0	20.5	20.0	20.8	20.5	21.2	21.7
	6H	19.5	20.1	20.0	20.6	21.1	20.5	21.1	21.0	21.6	22.1
	8H	19.7	20.3	20.2	20.8	21.3	20.6	21.2	21.1	21.7	22.2

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 1492.232 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.)