IES INDOOR REPORT
PHOTOMETRIC FILENAME : ATS1-14-L40-830-P-XXX-XXX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 19432.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 18-JUL-2016
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-32 LED 22"ARRAYS 1x4' SURFACE LUMINAIRE
[MORE] WHITE REFLECTOR w/ PERF DIFFUSER IN DOOR
[MORE] EVERLINE #D10CC55UNVTZ-C @ 77 SETPOINT WIRED IN SERIES
[LUMCAT] ATS1-14-L40-830-P-xxx-xxx
[LAMPCAT] M10CC830D32N2S

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3411
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.10
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	4220	4142	4085
55	3541	3532	3445
65	3121	3121	2504
75	2461	2054	1841
85	1956	1208	863

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1547.996	1547.996	1547.996	1547.996	1547.996
5	1560.164	1558.812	1558.812	1558.812	1557.460
10	1515.549	1512.845	1510.142	1507.438	1507.438
15	1456.063	1456.063	1447.951	1442.543	1442.543
20	1396.577	1392.521	1383.057	1372.241	1369.537
25	1266.788	1262.732	1249.213	1243.805	1237.045
30	1151.872	1146.464	1132.944	1122.128	1119.425
35	1051.826	1046.419	1034.251	1024.787	1019.379
40	916.630	909.870	900.407	890.943	886.887
45	804.417	794.954	789.546	782.786	778.730
50	682.741	677.333	671.925	669.221	667.869
55	547.545	547.545	546.193	540.785	532.673
60	446.147	447.499	447.499	428.572	415.052
65	355.566	358.270	355.566	310.951	285.264
70	259.577	263.633	243.353	200.090	196.034
75	171.699	178.459	143.308	131.140	128.436
80	101.397	95.989	81.118	67.598	62.190
85	45.967	37.855	28.391	21.631	20.279
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	555.86	N.A.	16.30
0-30	1134.16	N.A.	33.20
0-40	1776.66	N.A.	52.10
0-60	2876.98	N.A.	84.30
0-80	3372.35	N.A.	98.90
0-90	3411.03	N.A.	100.00
10-90	3264.09	N.A.	95.70
20-40	1220.79	N.A.	35.80
20-50	1829.45	N.A.	53.60
40-70	1433.03	N.A.	42.00
60-80	495.37	N.A.	14.50
70-80	162.67	N.A.	4.80
80-90	38.68	N.A.	1.10
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	3411.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.94
10-20	408.92
20-30	578.30
30-40	642.49
40-50	608.66
50-60	491.67
60-70	332.70
70-80	162.67
80-90	38.68
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	161	161	161	161	157	157	157	157	150	150	150	144	144	144	138	138	138	135
1	148	143	137	133	145	140	135	130	134	130	126	129	125	123	124	121	119	116
2	136	126	117	110	133	123	116	109	119	112	106	114	109	104	110	106	102	99
3	125	112	101	93	122	110	100	92	106	98	91	102	95	89	99	93	88	85
4	115	100	89	80	112	98	88	80	95	86	79	92	84	78	89	82	77	74
5	106	90	78	70	104	88	78	70	86	76	69	83	75	68	81	73	67	65
6	99	81	70	62	96	80	69	62	78	68	61	76	67	60	74	66	60	57
7	92	74	63	55	89	73	63	55	71	62	55	69	61	54	67	60	54	51
8	86	68	57	50	84	67	57	49	65	56	49	64	55	49	62	54	49	46
9	80	63	52	45	78	62	52	45	60	51	45	59	51	44	58	50	44	42
10	75	58	48	41	74	57	48	41	56	47	41	55	47	41	54	46	40	38

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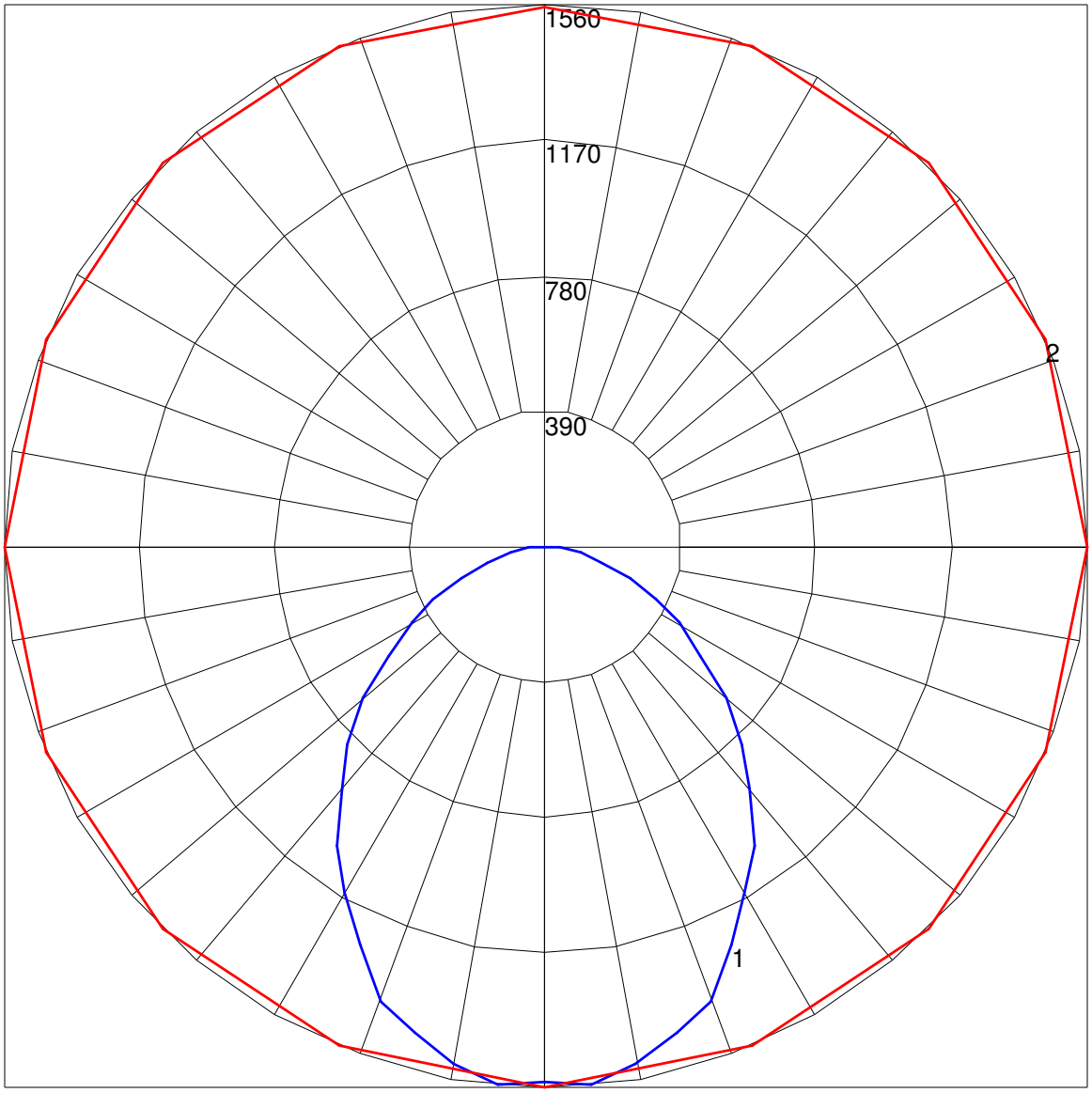
POLAR GRAPH



Maximum Candela = 1560.164 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)