



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-14-P52-835-D-POE_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19434.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 16-JAN-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-22" LED ARRAYS 1x4' LUMINAIRE

[MORE] WHITE REFLECTOR w/2 PIECE FROSTED ACRYLIC LENS IN DOOR

[LUMCAT] AT3-14-P52-835-D-PoE

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Office, Direct

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4873
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	46.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.06
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	6307	6091	6034
55	5365	5236	5034
65	4767	4619	3412
75	3788	2704	2474
85	3121	2146	1593

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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	2221.874	2221.874	2221.874	2221.874	2221.874
5	2198.197	2195.141	2192.086	2188.267	2186.740
10	2172.228	2163.826	2150.078	2139.385	2136.329
15	2081.336	2072.935	2052.312	2036.272	2027.107
20	1983.571	1964.476	1931.633	1902.609	1891.152
25	1778.110	1758.252	1725.409	1697.912	1690.274
30	1635.281	1610.076	1572.650	1550.500	1543.626
35	1480.995	1457.317	1424.474	1407.671	1402.324
40	1319.834	1296.921	1270.952	1261.786	1256.440
45	1202.210	1177.005	1160.966	1152.564	1150.272
50	1007.443	989.112	978.419	971.545	966.962
55	829.479	814.203	809.621	795.872	778.305
60	666.791	656.862	653.807	615.617	578.955
65	543.057	536.947	526.253	432.307	388.771
70	397.936	396.409	345.998	261.217	254.343
75	264.272	267.328	188.657	176.436	172.617
80	161.924	142.066	117.624	111.514	107.695
85	73.324	57.284	50.410	40.481	37.426
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	786.31	N.A.	16.10
0-30	1589.32	N.A.	32.60
0-40	2485.59	N.A.	51.00
0-60	4094.84	N.A.	84.00
0-80	4810.57	N.A.	98.70
0-90	4872.71	N.A.	100.00
10-90	4664.55	N.A.	95.70
20-40	1699.28	N.A.	34.90
20-50	2586.29	N.A.	53.10
40-70	2091.72	N.A.	42.90
60-80	715.73	N.A.	14.70
70-80	233.26	N.A.	4.80
80-90	62.13	N.A.	1.30
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	4872.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	208.16
10-20	578.15
20-30	803.01
30-40	896.27
40-50	887.01
50-60	722.24
60-70	482.47
70-80	233.26
80-90	62.13
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	378	378	378	378	369	369	369	369	353	353	353	338	338	338	324	324	324	318
1	349	335	322	311	340	327	316	306	314	305	296	302	294	287	290	284	279	272
2	319	295	275	258	311	289	271	255	278	263	249	268	255	244	258	248	238	232
3	293	262	237	218	285	257	234	216	247	228	212	239	222	209	231	217	205	199
4	270	234	207	187	263	230	205	186	222	200	183	214	196	181	208	192	179	172
5	249	210	183	163	242	207	181	162	200	178	160	194	174	159	188	171	157	151
6	231	190	163	144	225	187	162	143	182	159	142	176	156	141	172	154	139	133
7	215	173	147	128	209	171	146	128	166	143	127	162	141	126	157	139	125	119
8	200	159	133	115	195	157	132	115	153	130	114	149	128	113	145	127	113	107
9	188	146	121	104	183	145	121	104	141	119	104	138	117	103	134	116	102	97
10	176	136	111	95	172	134	111	95	131	109	95	128	108	94	125	107	94	88

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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

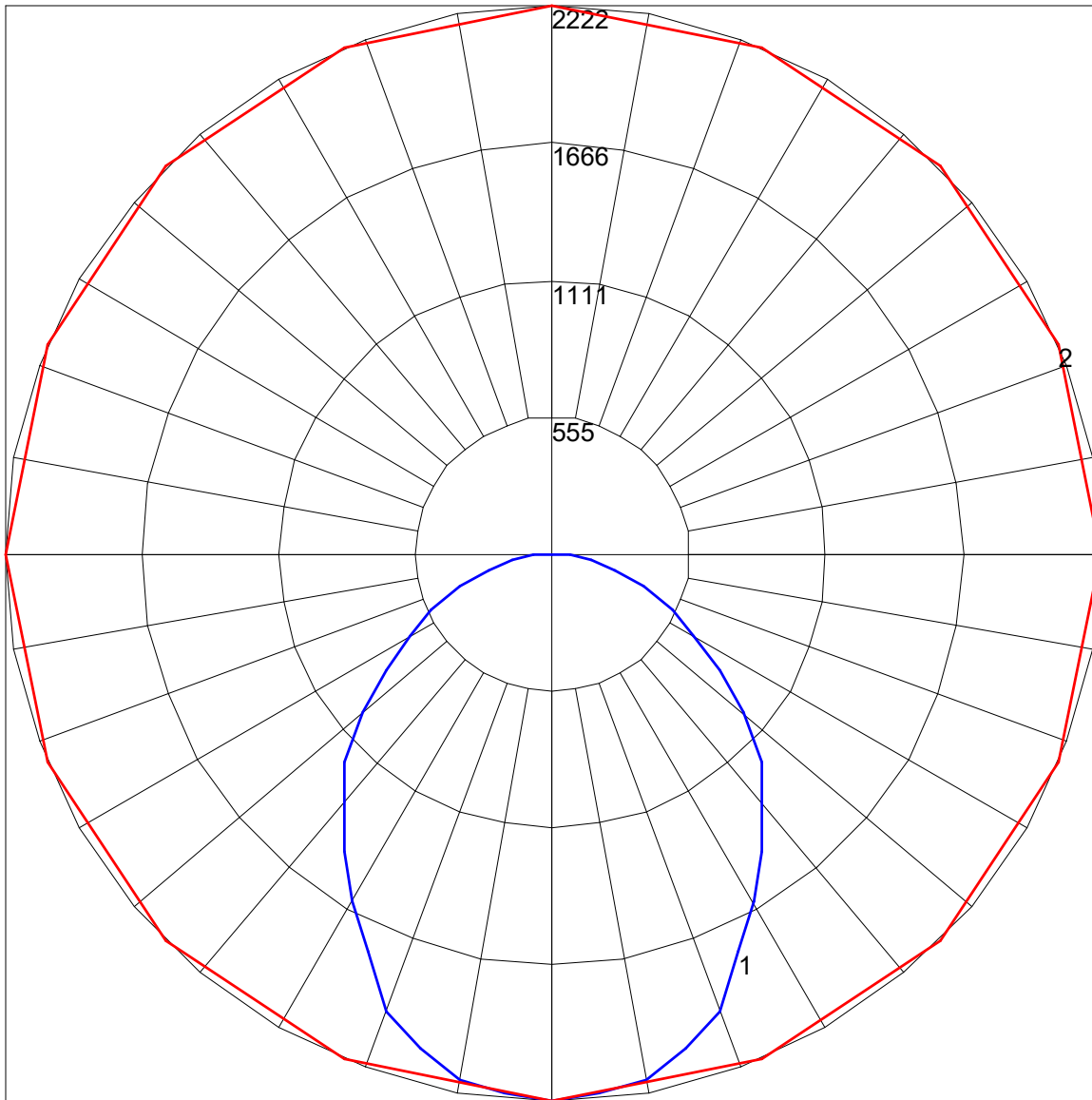
X=2H	Y=2H	13.6	15.2	14.0	15.5	15.8	13.3	14.8	13.6	15.1	15.4
	3H	15.3	16.7	15.7	17.0	17.4	14.2	15.6	14.6	15.9	16.3
	4H	15.9	17.2	16.3	17.5	17.9	14.5	15.8	14.9	16.2	16.6
	6H	16.3	17.5	16.7	17.9	18.3	14.8	16.0	15.2	16.4	16.8
	8H	16.4	17.6	16.9	18.0	18.4	14.9	16.0	15.3	16.4	16.8
	12H	16.5	17.6	17.0	18.0	18.5	14.9	16.0	15.3	16.4	16.8

UGR Viewed Endwise

4H	2H	14.2	15.5	14.6	15.9	16.2	13.9	15.2	14.3	15.6	15.9
	3H	16.0	17.1	16.5	17.5	17.9	15.0	16.1	15.4	16.5	16.9
	4H	16.8	17.7	17.2	18.1	18.6	15.4	16.4	15.8	16.8	17.2
	6H	17.3	18.1	17.7	18.6	19.0	15.8	16.6	16.2	17.1	17.5
	8H	17.5	18.2	17.9	18.7	19.2	15.9	16.7	16.4	17.1	17.6
	12H	17.6	18.3	18.1	18.8	19.2	16.0	16.7	16.4	17.1	17.6
8H	4H	16.9	17.7	17.3	18.1	18.6	15.7	16.4	16.1	16.9	17.4
	6H	17.5	18.1	18.0	18.6	19.1	16.1	16.8	16.6	17.3	17.7
	8H	17.7	18.3	18.2	18.8	19.3	16.3	16.9	16.8	17.4	17.9
	12H	17.9	18.4	18.4	18.9	19.5	16.4	16.9	16.9	17.4	18.0
12H	4H	16.9	17.6	17.4	18.1	18.5	15.7	16.4	16.2	16.9	17.3
	6H	17.5	18.1	18.0	18.6	19.1	16.2	16.8	16.7	17.2	17.8
	8H	17.8	18.3	18.3	18.8	19.4	16.4	16.9	16.9	17.4	17.9

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 2221.874 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.)