



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT1-14-L50-835-D-DIM-UNV_.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] 19-DEC-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-32 LED 22" ARRAYS 1x4' RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/2 PIECE FROSTED ACRLIC LENS IN DOOR
 [LUMCAT] AT1-14-L50-835-D-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5056
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	48.3
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	6255	6140	6055
55	5249	5236	5106
65	4626	4626	3711
75	3648	3045	2729
85	2900	1791	1279

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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	2294.538	2294.538	2294.538	2294.538	2294.538
5	2312.573	2310.569	2310.569	2310.569	2308.565
10	2246.443	2242.435	2238.427	2234.419	2234.419
15	2158.268	2158.268	2146.244	2138.229	2138.229
20	2070.094	2064.082	2050.054	2034.022	2030.015
25	1877.713	1871.701	1851.662	1843.646	1833.626
30	1707.376	1699.361	1679.321	1663.289	1659.281
35	1559.083	1551.067	1533.032	1519.004	1510.988
40	1358.687	1348.667	1334.639	1320.612	1314.600
45	1192.358	1178.330	1170.314	1160.295	1154.283
50	1012.001	1003.985	995.970	991.962	989.958
55	811.605	811.605	809.601	801.585	789.561
60	661.308	663.312	663.312	635.256	615.217
65	527.042	531.050	527.042	460.911	422.836
70	384.761	390.773	360.713	296.587	290.575
75	254.503	264.523	212.420	194.384	190.376
80	150.297	142.281	120.238	100.198	92.182
85	68.135	56.111	42.083	32.063	30.059
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	823.93	N.A.	16.30
0-30	1681.13	N.A.	33.20
0-40	2633.47	N.A.	52.10
0-60	4264.44	N.A.	84.30
0-80	4998.71	N.A.	98.90
0-90	5056.04	N.A.	100.00
10-90	4838.24	N.A.	95.70
20-40	1809.54	N.A.	35.80
20-50	2711.72	N.A.	53.60
40-70	2124.12	N.A.	42.00
60-80	734.26	N.A.	14.50
70-80	241.12	N.A.	4.80
80-90	57.34	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	5056.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	217.80
10-20	606.13
20-30	857.20
30-40	952.34
40-50	902.19
50-60	728.79
60-70	493.15
70-80	241.12
80-90	57.34
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	199	199	199	199	194	194	194	194	186	186	186	178	178	178	170	170	170	167
1	183	176	170	164	179	172	167	161	165	161	156	159	155	151	153	150	147	143
2	168	155	145	136	164	152	143	135	147	138	131	141	134	129	136	131	126	122
3	154	138	125	115	150	135	124	114	131	120	112	126	117	110	122	115	108	105
4	142	123	110	99	138	121	108	98	117	106	97	113	104	96	110	101	95	91
5	131	111	97	86	128	109	96	86	106	94	85	103	92	84	100	91	83	80
6	122	101	86	76	119	99	86	76	96	84	75	93	83	75	91	81	74	71
7	113	92	78	68	110	90	77	68	88	76	67	86	75	67	83	74	66	63
8	106	84	71	61	103	83	70	61	81	69	61	79	68	60	77	67	60	57
9	99	78	64	56	97	77	64	55	75	63	55	73	62	55	71	62	55	52
10	93	72	59	51	91	71	59	51	69	58	50	68	57	50	66	57	50	47

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UGR TABLE - CORRECTED

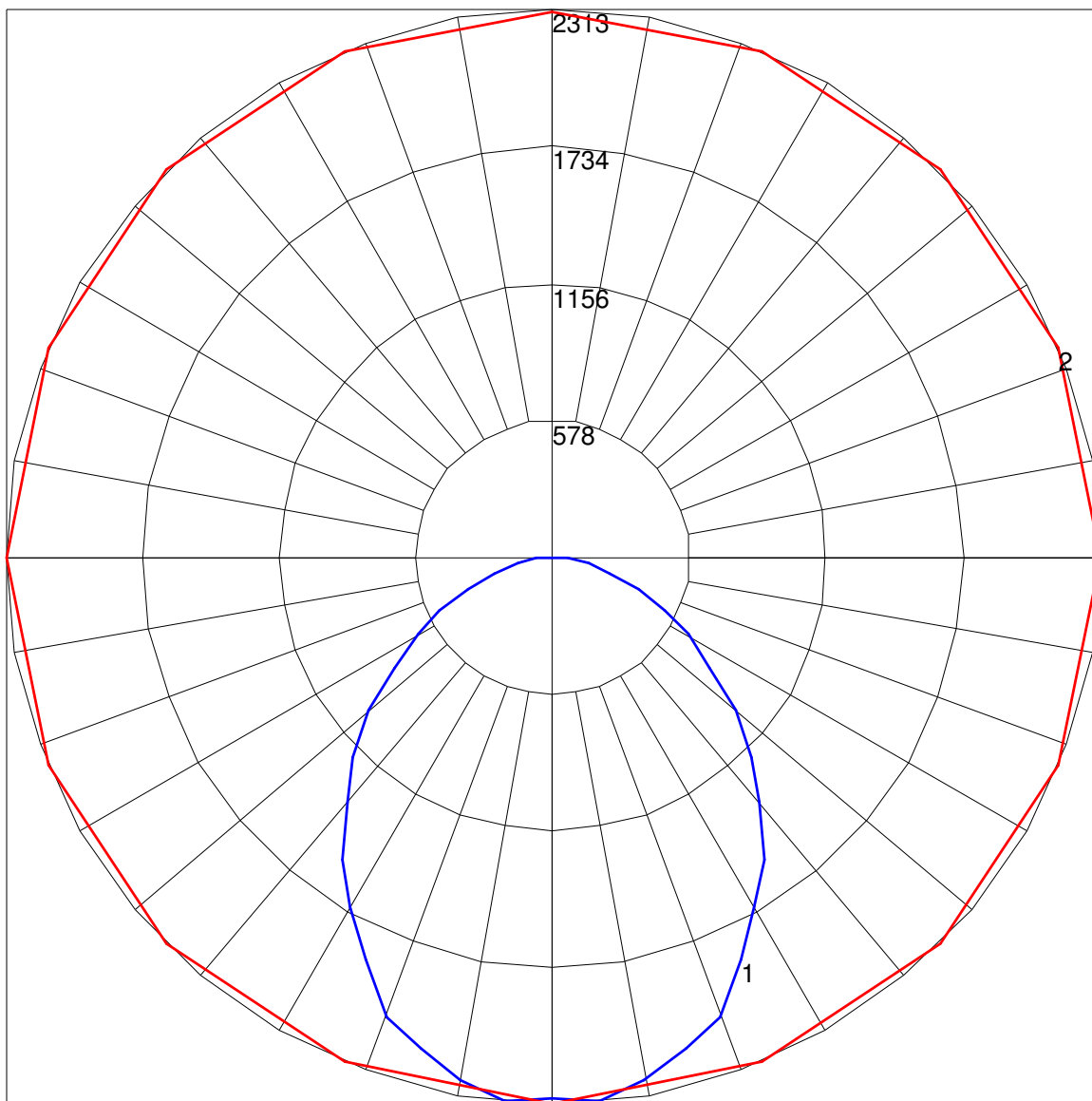
Reflectances

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	15.7	17.2	16.0	17.5	17.8	15.5	17.0	15.8	17.3	17.6
	3H	17.3	18.7	17.7	19.0	19.4	16.6	18.0	17.0	18.3	18.6
	4H	17.9	19.2	18.3	19.5	19.9	16.9	18.2	17.3	18.6	19.0
	6H	18.2	19.4	18.7	19.8	20.2	17.2	18.4	17.6	18.7	19.1
	8H	18.4	19.5	18.8	19.9	20.3	17.2	18.3	17.6	18.7	19.1
	12H	18.5	19.5	18.9	19.9	20.4	17.2	18.3	17.6	18.7	19.1
4H	2H	16.3	17.6	16.7	17.9	18.3	16.1	17.4	16.5	17.7	18.1
	3H	18.1	19.1	18.5	19.5	19.9	17.4	18.5	17.8	18.9	19.3
	4H	18.7	19.7	19.2	20.1	20.6	17.8	18.8	18.3	19.2	19.6
	6H	19.2	20.1	19.7	20.5	21.0	18.1	19.0	18.6	19.4	19.9
	8H	19.4	20.2	19.9	20.6	21.1	18.2	19.0	18.6	19.4	19.9
	12H	19.5	20.2	20.0	20.7	21.2	18.2	18.9	18.7	19.4	19.9
8H	4H	18.9	19.7	19.4	20.1	20.6	18.1	18.9	18.5	19.3	19.8
	6H	19.5	20.1	20.0	20.6	21.1	18.4	19.1	18.9	19.6	20.1
	8H	19.7	20.3	20.2	20.8	21.3	18.5	19.1	19.1	19.6	20.1
	12H	19.9	20.4	20.4	20.9	21.5	18.6	19.1	19.1	19.6	20.2
12H	4H	18.9	19.6	19.4	20.1	20.5	18.1	18.8	18.6	19.3	19.7
	6H	19.5	20.1	20.0	20.5	21.1	18.5	19.1	19.0	19.5	20.1
	8H	19.8	20.3	20.3	20.8	21.3	18.6	19.1	19.1	19.6	20.2

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 2312.573 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.)