



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-14-L63-835-D-DIM-UNV_.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] 3-JAN-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-42 LED 22" ARRAYS 1x4' RECESSED LUMINAIRE

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

[LUMCAT] AT3-14-L63-835-D-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	62.36
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	7605	7344	7276
55	6469	6314	6070
65	5748	5570	4115
75	4567	3260	2983
85	3763	2587	1921

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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	2679.198	2679.198	2679.198	2679.198	2679.198
5	2650.647	2646.963	2643.279	2638.674	2636.832
10	2619.333	2609.202	2592.624	2579.730	2576.046
15	2509.733	2499.602	2474.735	2455.394	2444.342
20	2391.845	2368.820	2329.217	2294.219	2280.404
25	2144.095	2120.149	2080.546	2047.390	2038.180
30	1971.868	1941.475	1896.345	1869.636	1861.347
35	1785.825	1757.274	1717.671	1697.409	1690.962
40	1591.493	1563.863	1532.549	1521.497	1515.050
45	1449.659	1419.266	1399.925	1389.794	1387.031
50	1214.803	1192.699	1179.805	1171.516	1165.990
55	1000.209	981.789	976.263	959.685	938.502
60	804.036	792.063	788.379	742.329	698.120
65	654.833	647.465	634.571	521.288	468.791
70	479.843	478.001	417.214	314.983	306.694
75	318.667	322.351	227.488	212.752	208.147
80	195.253	171.307	141.834	134.466	129.861
85	88.416	69.075	60.786	48.813	45.129
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	948.16	N.A.	16.10
0-30	1916.45	N.A.	32.60
0-40	2997.19	N.A.	51.00
0-60	4937.68	N.A.	84.00
0-80	5800.73	N.A.	98.70
0-90	5875.65	N.A.	100.00
10-90	5624.64	N.A.	95.70
20-40	2049.04	N.A.	34.90
20-50	3118.62	N.A.	53.10
40-70	2522.26	N.A.	42.90
60-80	863.05	N.A.	14.70
70-80	281.27	N.A.	4.80
80-90	74.92	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	5875.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	251.01
10-20	697.15
20-30	968.29
30-40	1080.74
40-50	1069.58
50-60	870.90
60-70	581.78
70-80	281.27
80-90	74.92
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	248	248	248	248	243	243	243	243	232	232	232	222	222	222	213	213	213	209
1	229	220	212	204	223	215	208	201	206	200	195	198	193	189	191	187	183	179
2	210	194	181	170	204	190	178	168	183	172	164	176	167	160	170	163	156	152
3	192	172	156	143	187	169	154	142	163	150	139	157	146	137	152	143	135	130
4	177	153	136	123	172	151	135	122	146	132	120	141	129	119	136	126	117	113
5	164	138	120	107	159	136	119	107	131	117	105	127	114	104	124	112	103	99
6	152	125	107	94	148	123	106	94	119	104	93	116	103	92	113	101	92	88
7	141	114	96	84	137	112	96	84	109	94	83	106	93	83	103	91	82	78
8	132	104	87	76	128	103	87	75	100	85	75	98	84	75	95	83	74	70
9	123	96	80	69	120	95	79	68	93	78	68	90	77	68	88	76	67	64
10	116	89	73	63	113	88	73	62	86	72	62	84	71	62	82	70	62	58

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UGR TABLE - CORRECTED

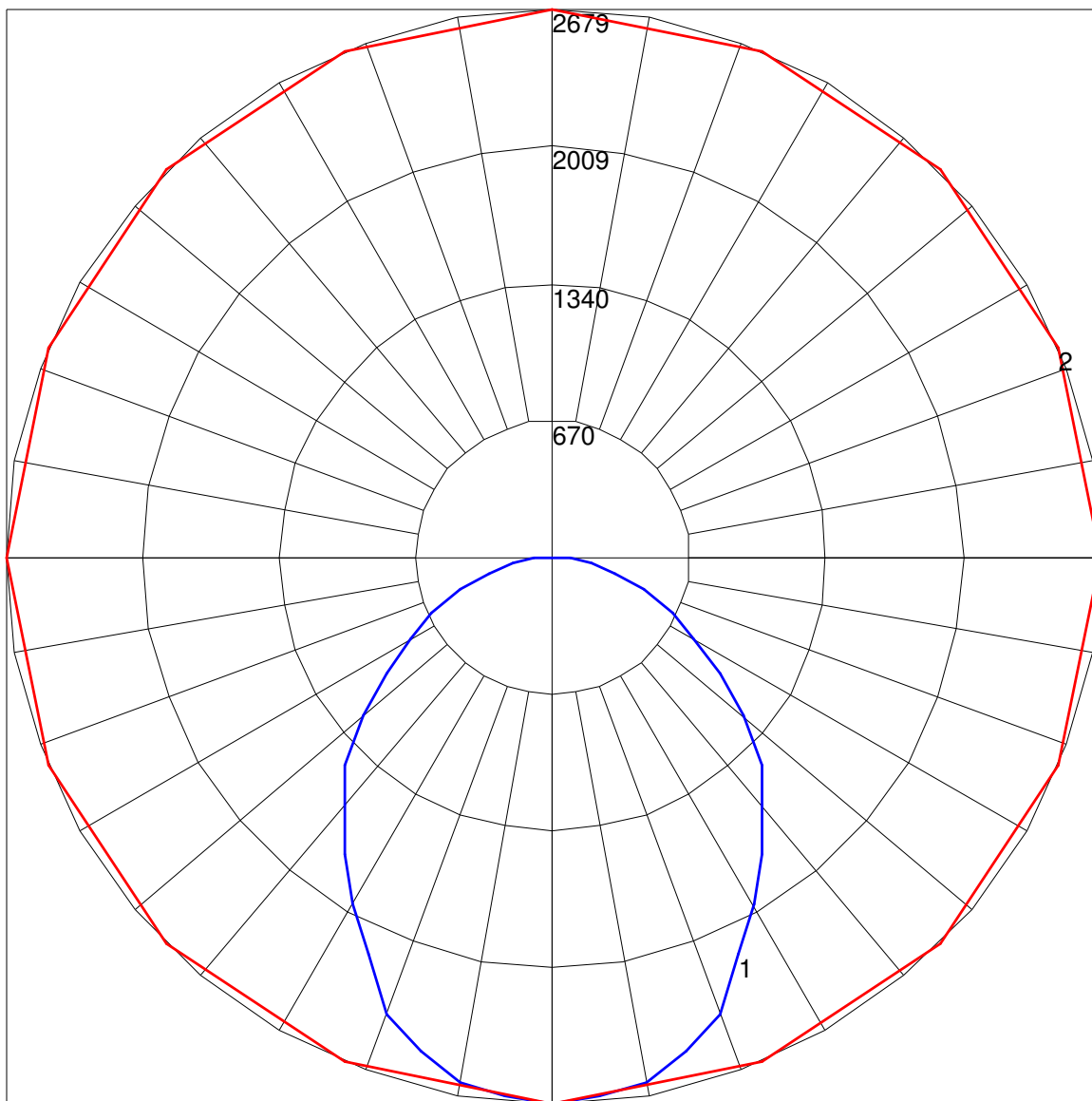
Reflectances

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	17.3	16.1	17.6	17.9	15.4	16.9	15.7	17.2	17.5
	3H	17.4	18.8	17.8	19.1	19.5	16.3	17.7	16.7	18.0	18.4
	4H	18.0	19.3	18.4	19.6	20.0	16.6	17.9	17.0	18.3	18.7
	6H	18.4	19.6	18.8	20.0	20.4	16.9	18.1	17.3	18.5	18.9
	8H	18.5	19.7	19.0	20.1	20.5	17.0	18.1	17.4	18.5	18.9
	12H	18.6	19.7	19.1	20.1	20.6	17.0	18.1	17.4	18.5	18.9
4H	2H	16.3	17.6	16.7	18.0	18.3	16.0	17.3	16.4	17.7	18.0
	3H	18.1	19.2	18.6	19.6	20.0	17.1	18.2	17.5	18.6	19.0
	4H	18.9	19.8	19.3	20.2	20.7	17.5	18.5	17.9	18.9	19.3
	6H	19.4	20.2	19.8	20.7	21.1	17.9	18.7	18.3	19.2	19.6
	8H	19.6	20.3	20.0	20.8	21.3	18.0	18.8	18.5	19.2	19.7
	12H	19.7	20.4	20.2	20.9	21.3	18.1	18.8	18.5	19.2	19.7
8H	4H	19.0	19.8	19.4	20.2	20.7	17.8	18.5	18.2	19.0	19.5
	6H	19.6	20.2	20.1	20.7	21.2	18.2	18.9	18.7	19.4	19.8
	8H	19.8	20.4	20.3	20.9	21.4	18.4	19.0	18.9	19.5	20.0
	12H	20.0	20.5	20.5	21.0	21.6	18.5	19.0	19.0	19.5	20.1
12H	4H	19.0	19.7	19.5	20.2	20.6	17.8	18.5	18.3	19.0	19.4
	6H	19.6	20.2	20.1	20.7	21.2	18.3	18.9	18.8	19.3	19.9
	8H	19.9	20.4	20.4	20.9	21.5	18.5	19.0	19.0	19.5	20.0

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 2679.198 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.)