



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-14-P25-835-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-P25-835-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	2331
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	23.2
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	3017	2913	2887
55	2566	2505	2408
65	2280	2210	1632
75	1812	1293	1183
85	1493	1026	762

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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	1062.834	1062.834	1062.834	1062.834	1062.834
5	1051.508	1050.046	1048.585	1046.758	1046.027
10	1039.085	1035.066	1028.490	1023.375	1021.913
15	995.607	991.588	981.724	974.051	969.667
20	948.841	939.707	923.997	910.113	904.633
25	850.559	841.060	825.349	812.196	808.543
30	782.237	770.180	752.277	741.682	738.394
35	708.434	697.108	681.397	673.359	670.802
40	631.343	620.382	607.960	603.576	601.018
45	575.077	563.021	555.348	551.329	550.233
50	481.910	473.142	468.027	464.739	462.546
55	396.782	389.474	387.282	380.706	372.302
60	318.960	314.210	312.749	294.481	276.943
65	259.771	256.848	251.733	206.794	185.968
70	190.353	189.622	165.508	124.953	121.665
75	126.415	127.876	90.244	84.398	82.571
80	77.456	67.957	56.266	53.343	51.516
85	35.075	27.402	24.114	19.364	17.903
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	376.13	N.A.	16.10
0-30	760.25	N.A.	32.60
0-40	1188.98	N.A.	51.00
0-60	1958.77	N.A.	84.00
0-80	2301.14	N.A.	98.70
0-90	2330.86	N.A.	100.00
10-90	2231.29	N.A.	95.70
20-40	812.85	N.A.	34.90
20-50	1237.15	N.A.	53.10
40-70	1000.58	N.A.	42.90
60-80	342.37	N.A.	14.70
70-80	111.58	N.A.	4.80
80-90	29.72	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	2330.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	99.57
10-20	276.56
20-30	384.12
30-40	428.73
40-50	424.30
50-60	345.49
60-70	230.79
70-80	111.58
80-90	29.72
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	181	181	181	181	177	177	177	177	169	169	169	162	162	162	155	155	155	152
1	167	160	154	149	163	157	151	146	150	146	142	144	141	137	139	136	133	130
2	153	141	132	123	149	138	129	122	133	126	119	128	122	116	124	118	114	111
3	140	125	114	104	136	123	112	103	118	109	102	114	106	100	110	104	98	95
4	129	112	99	90	126	110	98	89	106	96	88	103	94	87	99	92	85	82
5	119	101	88	78	116	99	87	78	96	85	77	93	83	76	90	82	75	72
6	110	91	78	69	108	90	77	68	87	76	68	84	75	67	82	73	67	64
7	103	83	70	61	100	82	70	61	79	69	61	77	67	60	75	66	60	57
8	96	76	64	55	93	75	63	55	73	62	55	71	61	54	69	61	54	51
9	90	70	58	50	88	69	58	50	67	57	50	66	56	49	64	56	49	46
10	84	65	53	46	82	64	53	45	63	52	45	61	52	45	60	51	45	42

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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

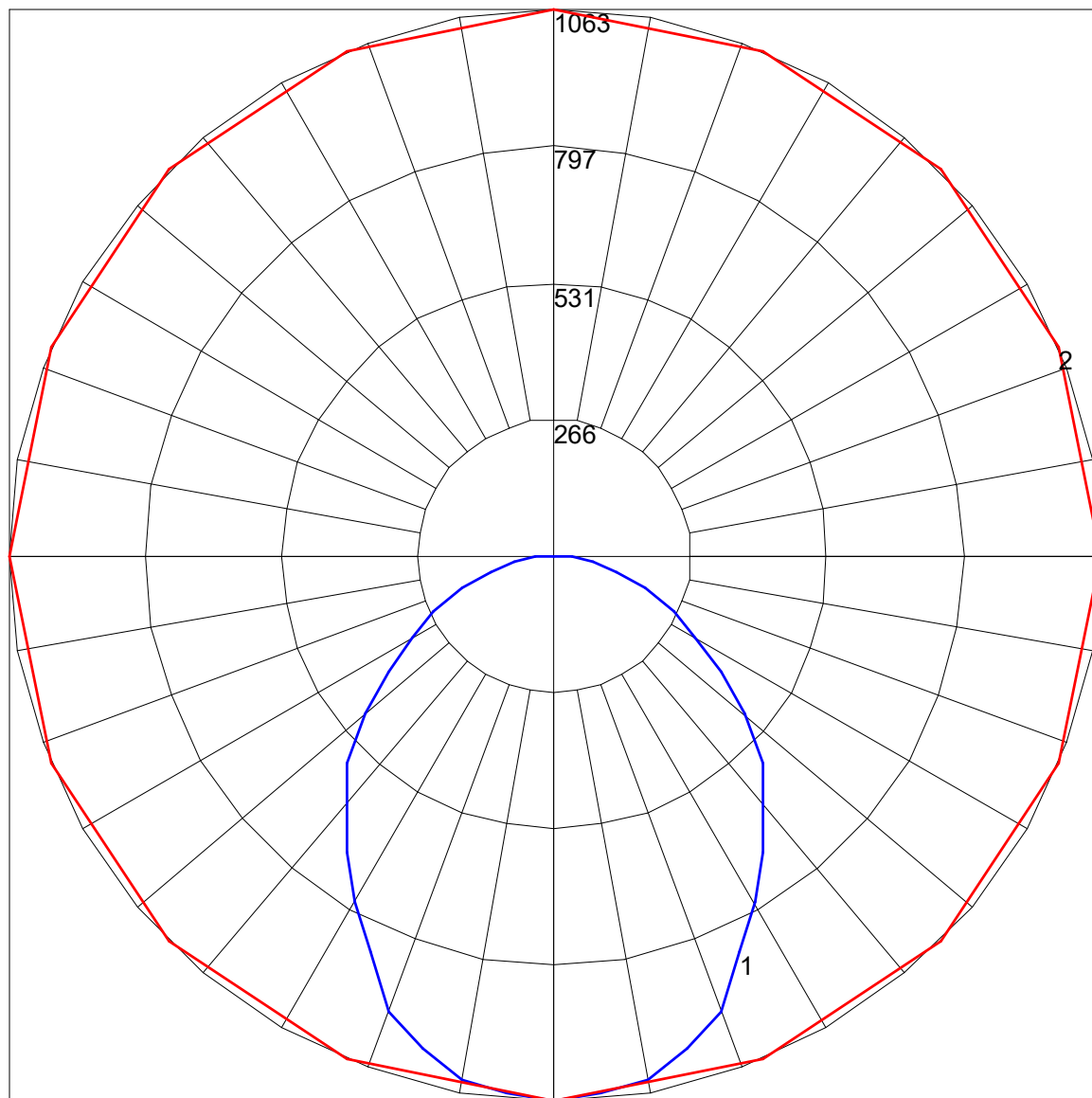
X=2H	Y=2H	13.6	15.2	14.0	15.5	15.8	13.3	14.8	13.6	15.1	15.4
	3H	15.3	16.7	15.7	17.0	17.4	14.2	15.6	14.6	15.9	16.3
	4H	15.9	17.2	16.3	17.5	17.9	14.5	15.8	14.9	16.2	16.6
	6H	16.3	17.5	16.7	17.9	18.3	14.8	16.0	15.2	16.4	16.8
	8H	16.4	17.6	16.9	18.0	18.4	14.9	16.0	15.3	16.4	16.8
	12H	16.5	17.6	17.0	18.0	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 = 1062.834 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.)