



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AT1-14-P25-835-D-POE\_.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] 26-JUN-2020  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
[LUMINAIRE] 22" LED ARRAYS 1x4' RECESSED LUMINAIRE  
[MORE] WHITE REFLECTOR w/2 PIECE FROSTED ACRLIC LENS IN DOOR  
[LUMCAT] AT1-14-P25-835-D-PoE

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2506
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	23.2
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	3100	3043	3001
55	2602	2595	2531
65	2293	2293	1840
75	1808	1509	1352
85	1437	888	634

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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>
<b>0</b>	1137.285	1137.285	1137.285	1137.285	1137.285
<b>5</b>	1146.224	1145.231	1145.231	1145.231	1144.238
<b>10</b>	1113.447	1111.460	1109.474	1107.487	1107.487
<b>15</b>	1069.743	1069.743	1063.783	1059.810	1059.810
<b>20</b>	1026.040	1023.060	1016.107	1008.161	1006.174
<b>25</b>	930.686	927.707	917.774	913.801	908.835
<b>30</b>	846.259	842.286	832.353	824.407	822.421
<b>35</b>	772.758	768.785	759.845	752.893	748.919
<b>40</b>	673.432	668.465	661.512	654.560	651.580
<b>45</b>	590.991	584.038	580.065	575.099	572.119
<b>50</b>	501.597	497.624	493.651	491.665	490.671
<b>55</b>	402.271	402.271	401.278	397.305	391.345
<b>60</b>	327.776	328.770	328.770	314.864	304.931
<b>65</b>	261.228	263.214	261.228	228.450	209.578
<b>70</b>	190.706	193.686	178.787	147.003	144.023
<b>75</b>	126.144	131.111	105.286	96.346	94.360
<b>80</b>	74.495	70.522	59.596	49.663	45.690
<b>85</b>	33.771	27.811	20.858	15.892	14.899
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	408.38	N.A.	16.30
0-30	833.25	N.A.	33.20
0-40	1305.28	N.A.	52.10
0-60	2113.67	N.A.	84.30
0-80	2477.6	N.A.	98.90
0-90	2506.02	N.A.	100.00
10-90	2398.07	N.A.	95.70
20-40	896.89	N.A.	35.80
20-50	1344.06	N.A.	53.60
40-70	1052.82	N.A.	42.00
60-80	363.94	N.A.	14.50
70-80	119.51	N.A.	4.80
80-90	28.42	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	2506.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	107.95
10-20	300.43
20-30	424.87
30-40	472.03
40-50	447.17
50-60	361.22
60-70	244.43
70-80	119.51
80-90	28.42
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	152	147	150	146	142	145	141	138	139	136	134	131
2	153	142	132	124	149	139	130	122	133	126	120	128	122	117	124	119	114	111
3	140	126	114	105	137	123	113	104	119	110	102	115	107	100	111	104	99	96
4	129	112	100	90	126	110	99	90	107	96	88	103	94	87	100	92	86	83
5	120	101	88	79	116	99	87	78	96	86	77	93	84	77	91	82	76	73
6	111	92	79	69	108	90	78	69	87	77	69	85	75	68	83	74	67	64
7	103	84	71	62	101	82	70	62	80	69	61	78	68	61	76	67	60	58
8	96	77	64	56	94	76	64	56	74	63	55	72	62	55	70	61	55	52
9	90	71	59	51	88	70	58	50	68	57	50	66	57	50	65	56	50	47
10	85	65	54	46	83	65	53	46	63	53	46	62	52	46	60	52	45	43

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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	15.1	13.9	15.4	15.7	13.4	14.9	13.7	15.2	15.5
	3H	15.2	16.6	15.6	16.9	17.3	14.5	15.9	14.9	16.2	16.5
	4H	15.8	17.1	16.2	17.4	17.8	14.8	16.1	15.2	16.5	16.9
	6H	16.1	17.3	16.6	17.7	18.1	15.1	16.3	15.5	16.6	17.0
	8H	16.3	17.4	16.7	17.8	18.2	15.1	16.2	15.5	16.6	17.0
	12H	16.4	17.4	16.8	17.8	18.3	15.1	16.2	15.5	16.6	17.0

UGR Viewed Endwise

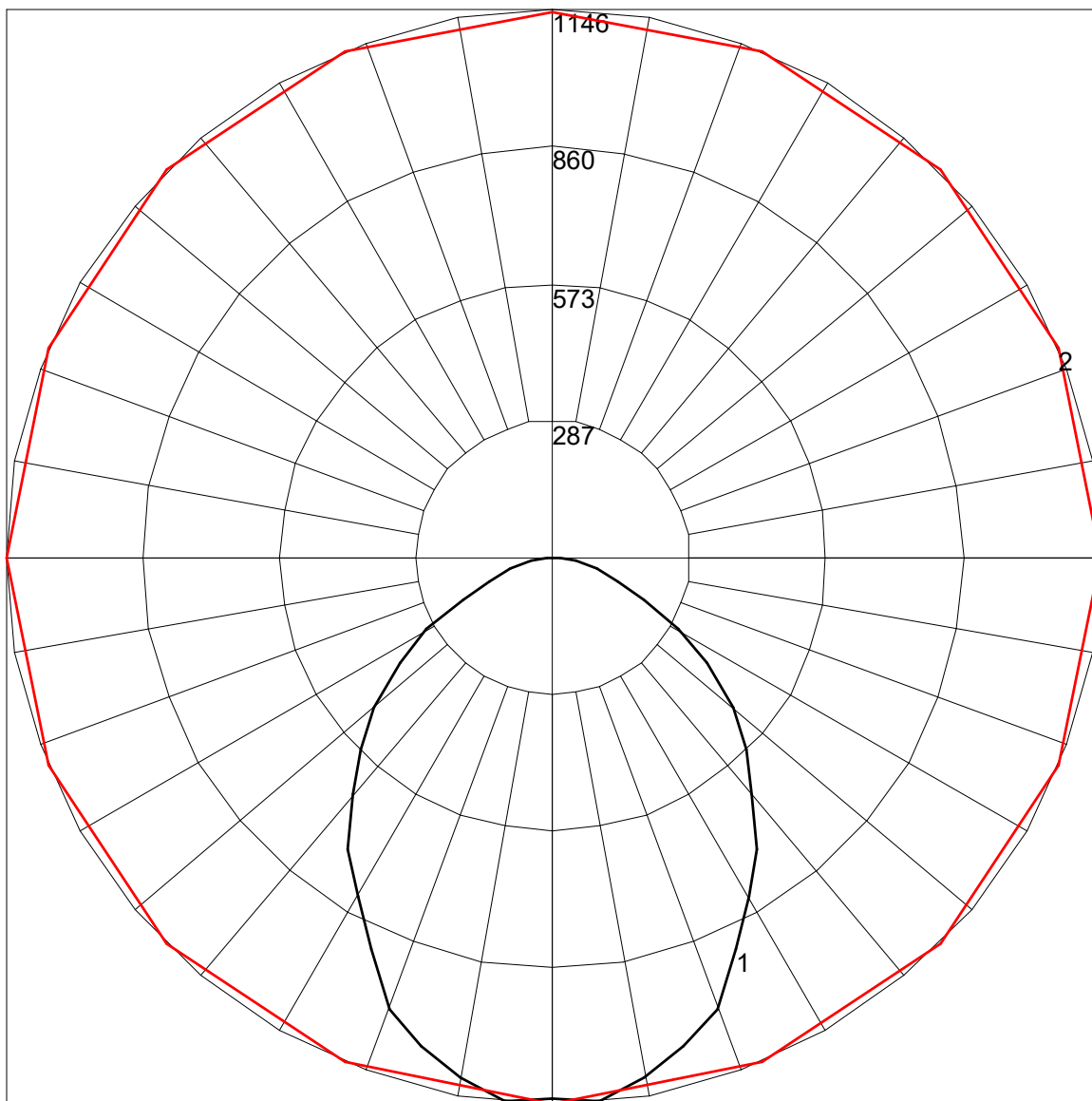
4H	2H	14.2	15.5	14.6	15.8	16.2	14.0	15.3	14.4	15.6	16.0
	3H	16.0	17.0	16.4	17.4	17.8	15.3	16.4	15.7	16.8	17.2
	4H	16.6	17.6	17.1	18.0	18.5	15.7	16.7	16.2	17.1	17.5
	6H	17.1	18.0	17.6	18.4	18.9	16.0	16.9	16.5	17.3	17.8
	8H	17.3	18.1	17.8	18.5	19.0	16.1	16.9	16.5	17.3	17.8
	12H	17.4	18.1	17.9	18.6	19.1	16.1	16.8	16.6	17.3	17.8

8H	4H	16.8	17.6	17.3	18.0	18.5	16.0	16.8	16.4	17.2	17.7
	6H	17.4	18.0	17.9	18.5	19.0	16.3	17.0	16.8	17.5	18.0
	8H	17.6	18.2	18.1	18.7	19.2	16.4	17.0	17.0	17.5	18.0
	12H	17.8	18.3	18.3	18.8	19.4	16.5	17.0	17.0	17.5	18.1

12H	4H	16.8	17.5	17.3	18.0	18.4	16.0	16.7	16.5	17.2	17.6
	6H	17.4	18.0	17.9	18.4	19.0	16.4	17.0	16.9	17.4	18.0
	8H	17.7	18.2	18.2	18.7	19.2	16.5	17.0	17.0	17.5	18.1

Maximum UGR = 19.4

POLAR GRAPH



Maximum Candela = 1146.224 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)