



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-22-P25-8TW-D-POE 4000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19435.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 3-JAN-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-22" LED ARRAYS 2x2' LUMINAIRE

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

[LUMCAT] AT3-22-P25-8TW-D-PoE 4000k

[\_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	2332
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	25.09
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.76 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2408	2621	2832
55	2118	2392	2571
65	1872	2189	2404
75	1554	1969	2276
85	835	740	703

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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>	917.782	917.782	917.782	917.782	917.782
<b>5</b>	915.869	913.000	912.522	912.043	911.087
<b>10</b>	895.304	894.826	892.913	898.652	900.087
<b>15</b>	864.695	863.739	867.087	879.043	882.869
<b>20</b>	818.304	820.696	834.087	851.304	859.435
<b>25</b>	761.391	769.522	791.043	814.956	827.391
<b>30</b>	702.565	713.087	740.826	772.391	784.348
<b>35</b>	638.478	649.956	681.522	716.435	727.913
<b>40</b>	566.739	577.261	611.217	644.217	658.565
<b>45</b>	492.130	504.565	535.652	566.739	578.696
<b>50</b>	420.869	432.826	463.913	494.043	502.174
<b>55</b>	351.043	362.043	396.478	421.826	426.130
<b>60</b>	286.478	297.478	330.000	353.913	355.826
<b>65</b>	228.609	237.696	267.348	288.391	293.652
<b>70</b>	170.739	179.348	207.565	226.217	233.391
<b>75</b>	116.217	125.304	147.304	161.174	170.261
<b>80</b>	64.565	76.043	77.478	77.000	76.043
<b>85</b>	21.043	24.870	18.652	18.174	17.696
<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	332.10	N.A.	14.20
0-30	697.16	N.A.	29.90
0-40	1122.95	N.A.	48.20
0-60	1889.01	N.A.	81.00
0-80	2300.33	N.A.	98.60
0-90	2331.82	N.A.	100.00
10-90	2245.23	N.A.	96.30
20-40	790.85	N.A.	33.90
20-50	1205.01	N.A.	51.70
40-70	1027.68	N.A.	44.10
60-80	411.31	N.A.	17.60
70-80	149.70	N.A.	6.40
80-90	31.49	N.A.	1.40
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	2331.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	86.59
10-20	245.51
20-30	365.07
30-40	425.79
40-50	414.16
50-60	351.91
60-70	261.61
70-80	149.70
80-90	31.49
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	186	186	186	186	182	182	182	182	174	174	174	166	166	166	159	159	159	156
1	171	163	157	151	166	160	154	149	153	148	144	147	143	140	142	138	135	132
2	156	143	133	124	151	140	131	123	135	127	120	130	123	117	125	119	114	111
3	142	126	114	104	138	124	112	103	119	109	101	115	106	99	111	104	98	94
4	130	112	99	89	127	110	98	88	106	95	87	103	93	86	99	91	84	81
5	120	101	87	77	117	99	86	76	96	84	75	92	82	75	90	81	74	71
6	111	91	77	67	108	89	76	67	87	75	66	84	74	66	81	72	65	62
7	103	83	69	60	101	81	68	59	79	67	59	77	66	59	75	65	58	55
8	96	75	62	53	94	74	62	53	72	61	53	70	60	53	69	59	52	49
9	90	69	57	48	88	68	56	48	67	56	48	65	55	48	63	54	47	45
10	84	64	52	44	82	63	52	44	62	51	44	60	50	43	59	50	43	40

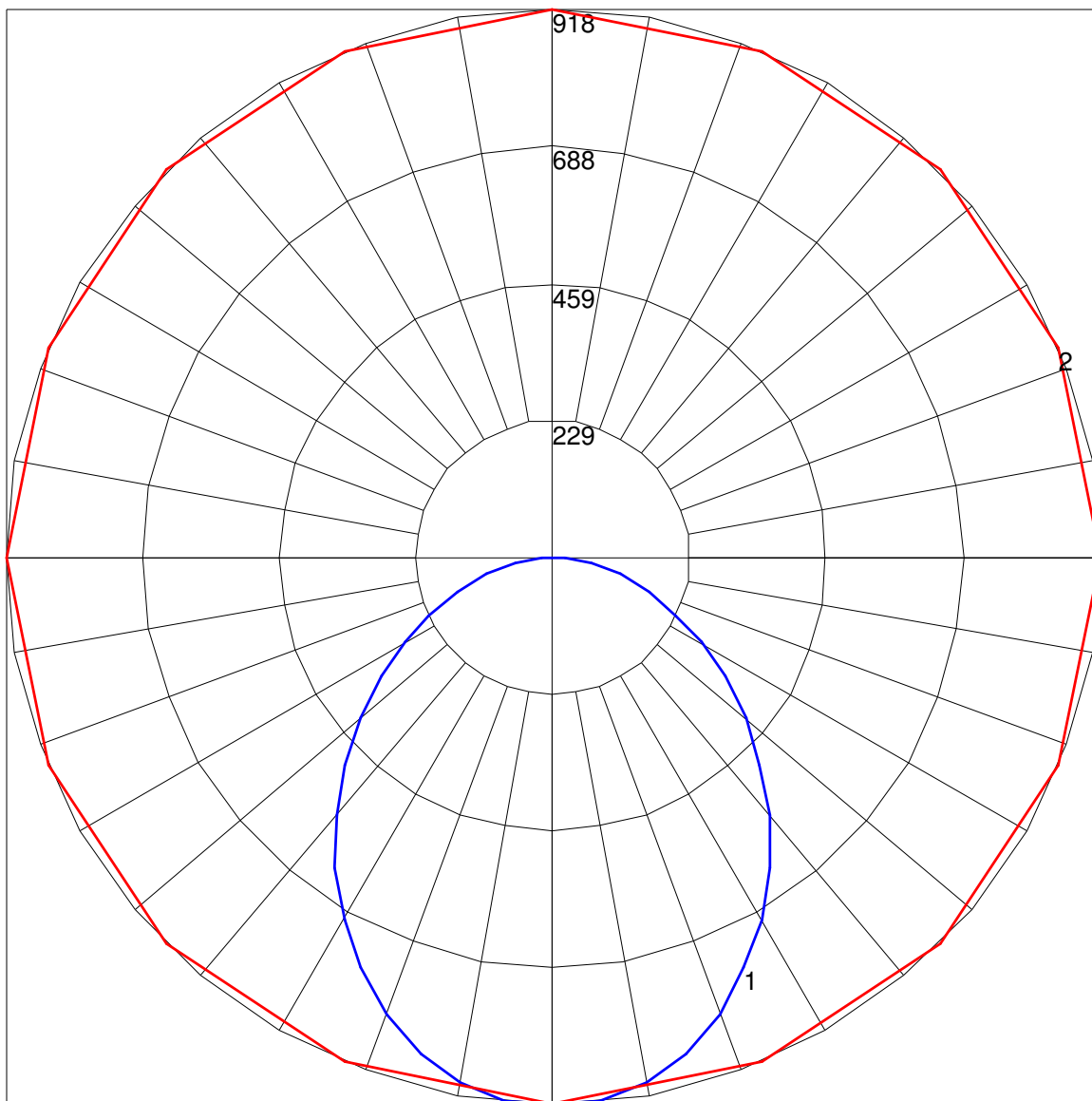
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**UGR TABLE - CORRECTED**

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	12.7	14.3	13.1	14.6	14.9	13.9	15.5	14.3	15.8	16.1
	3H	14.4	15.8	14.7	16.1	16.5	15.8	17.2	16.2	17.6	17.9
	4H	15.0	16.3	15.4	16.7	17.0	16.5	17.9	16.9	18.2	18.6
	6H	15.4	16.6	15.8	17.0	17.4	16.9	18.2	17.4	18.6	19.0
	8H	15.5	16.7	15.9	17.1	17.5	17.0	18.2	17.5	18.6	19.0
	12H	15.5	16.7	15.9	17.0	17.5	17.0	18.2	17.5	18.6	19.0
4H	2H	13.5	14.8	13.9	15.2	15.6	14.4	15.8	14.8	16.1	16.5
	3H	15.4	16.5	15.8	16.9	17.3	16.6	17.7	17.0	18.1	18.5
	4H	16.1	17.1	16.5	17.5	17.9	17.4	18.5	17.9	18.9	19.3
	6H	16.6	17.5	17.0	17.9	18.4	18.0	18.8	18.4	19.3	19.7
	8H	16.7	17.6	17.2	18.0	18.5	18.1	18.9	18.5	19.3	19.8
	12H	16.8	17.6	17.3	18.0	18.5	18.1	18.8	18.6	19.3	19.8
8H	4H	16.5	17.3	16.9	17.7	18.2	17.7	18.5	18.1	19.0	19.4
	6H	17.1	17.8	17.6	18.3	18.8	18.3	19.0	18.8	19.5	19.9
	8H	17.3	17.9	17.8	18.4	18.9	18.4	19.0	18.9	19.5	20.0
	12H	17.4	18.0	18.0	18.5	19.0	18.5	19.0	19.0	19.5	20.1
12H	4H	16.5	17.3	17.0	17.7	18.2	17.7	18.4	18.2	18.9	19.4
	6H	17.2	17.8	17.7	18.3	18.8	18.3	18.9	18.8	19.4	19.9
	8H	17.4	18.0	17.9	18.5	19.0	18.5	19.0	19.0	19.5	20.1

Maximum UGR = 20.1

POLAR GRAPH



Maximum Candela = 917.782 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.)