



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-14-P16-8TW-D-POE 4000K.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] 2-22" LED ARRAYS 1x4' LUMINAIRE

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

[LUMCAT] AT3-14-P16-8TW-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	1493
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	15.44
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	1932	1866	1849
55	1644	1604	1542
65	1460	1415	1046
75	1160	828	758
85	956	657	488

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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	680.742	680.742	680.742	680.742	680.742
5	673.488	672.552	671.616	670.446	669.978
10	665.532	662.957	658.745	655.469	654.533
15	637.684	635.110	628.792	623.877	621.069
20	607.730	601.880	591.818	582.925	579.415
25	544.781	538.697	528.634	520.210	517.870
30	501.021	493.298	481.832	475.045	472.939
35	453.750	446.496	436.433	431.285	429.647
40	404.374	397.353	389.397	386.589	384.951
45	368.336	360.613	355.699	353.125	352.423
50	308.662	303.046	299.770	297.664	296.260
55	254.138	249.457	248.053	243.841	238.459
60	204.293	201.251	200.315	188.614	177.381
65	166.383	164.511	161.235	132.451	119.112
70	121.921	121.452	106.008	80.032	77.926
75	80.968	81.904	57.801	54.057	52.887
80	49.611	43.526	36.038	34.166	32.996
85	22.465	17.551	15.445	12.403	11.467
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	240.91	N.A.	16.10
0-30	486.94	N.A.	32.60
0-40	761.54	N.A.	51.00
0-60	1254.59	N.A.	84.00
0-80	1473.87	N.A.	98.70
0-90	1492.91	N.A.	100.00
10-90	1429.13	N.A.	95.70
20-40	520.63	N.A.	34.90
20-50	792.39	N.A.	53.10
40-70	640.87	N.A.	42.90
60-80	219.29	N.A.	14.70
70-80	71.47	N.A.	4.80
80-90	19.04	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	1492.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.78
10-20	177.13
20-30	246.03
30-40	274.60
40-50	271.76
50-60	221.28
60-70	147.82
70-80	71.47
80-90	19.04
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	98	98	98	98	96	96	96	96	92	92	92	88	88	88	84	84	84	82
1	90	87	84	81	88	85	82	79	82	79	77	78	76	75	75	74	72	71
2	83	77	71	67	81	75	70	66	72	68	65	69	66	63	67	64	62	60
3	76	68	62	57	74	67	61	56	64	59	55	62	58	54	60	56	53	52
4	70	61	54	49	68	60	53	48	58	52	48	56	51	47	54	50	46	45
5	65	55	48	42	63	54	47	42	52	46	42	50	45	41	49	44	41	39
6	60	49	42	37	58	49	42	37	47	41	37	46	41	37	45	40	36	35
7	56	45	38	33	54	44	38	33	43	37	33	42	37	33	41	36	32	31
8	52	41	35	30	51	41	34	30	40	34	30	39	33	29	38	33	29	28
9	49	38	31	27	48	38	31	27	37	31	27	36	30	27	35	30	27	25
10	46	35	29	25	45	35	29	25	34	28	25	33	28	24	32	28	24	23

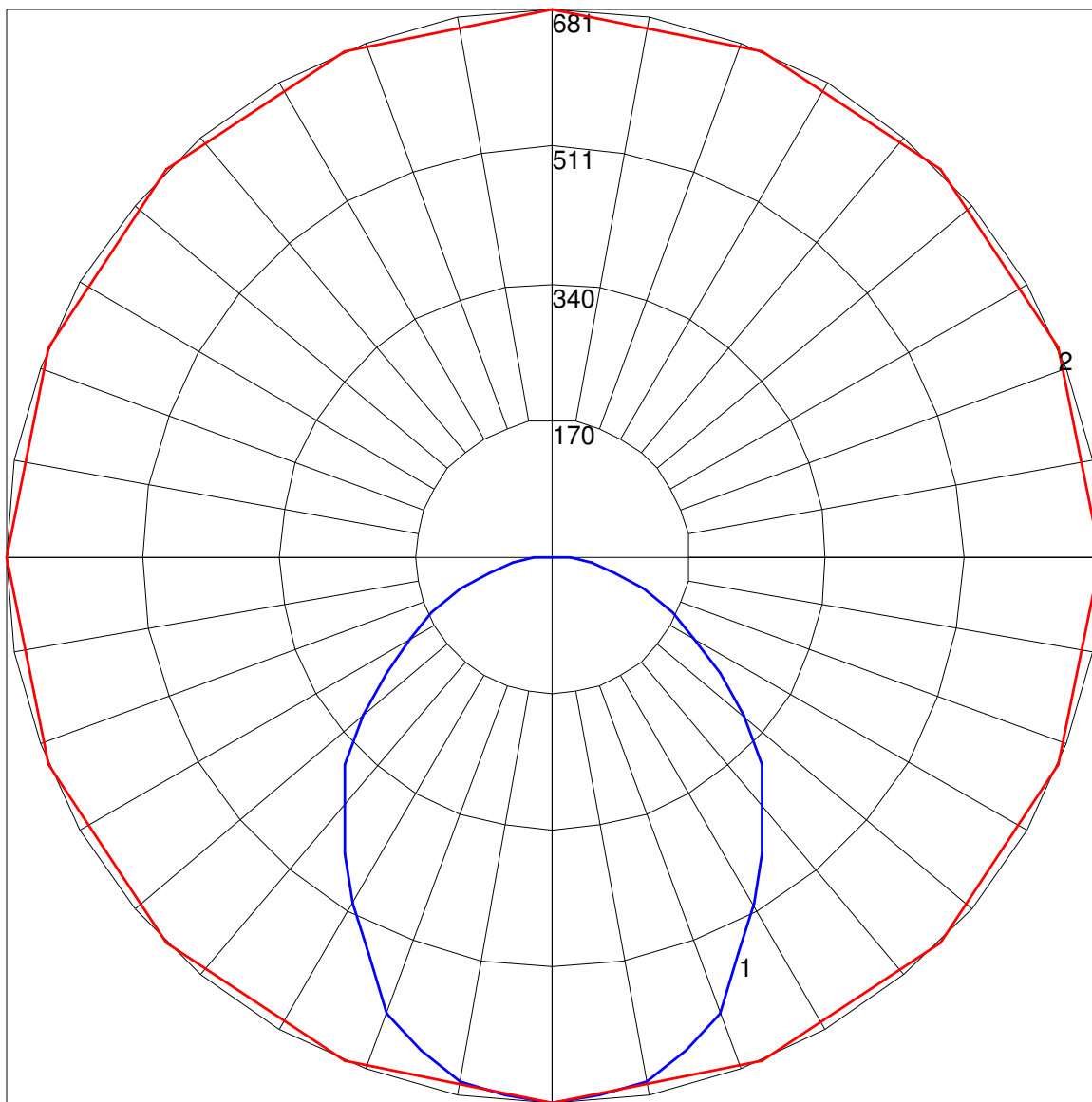
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UGR TABLE - CORRECTED

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	14.2	15.8	14.6	16.1	16.4	13.9	15.4	14.2	15.7	16.0
	3H	15.9	17.3	16.3	17.6	18.0	14.8	16.2	15.2	16.5	16.9
	4H	16.5	17.8	16.9	18.1	18.5	15.1	16.4	15.5	16.8	17.2
	6H	16.9	18.1	17.3	18.5	18.9	15.4	16.6	15.8	17.0	17.4
	8H	17.0	18.2	17.5	18.6	19.0	15.5	16.6	15.9	17.0	17.4
	12H	17.1	18.2	17.6	18.6	19.1	15.5	16.6	15.9	17.0	17.4
4H	2H	14.8	16.1	15.2	16.5	16.8	14.5	15.8	14.9	16.2	16.5
	3H	16.6	17.7	17.1	18.1	18.5	15.6	16.7	16.0	17.1	17.5
	4H	17.4	18.3	17.8	18.7	19.2	16.0	17.0	16.4	17.4	17.8
	6H	17.9	18.7	18.3	19.2	19.6	16.4	17.2	16.8	17.7	18.1
	8H	18.1	18.8	18.5	19.3	19.8	16.5	17.3	17.0	17.7	18.2
	12H	18.2	18.9	18.7	19.4	19.8	16.6	17.3	17.0	17.7	18.2
8H	4H	17.5	18.3	17.9	18.7	19.2	16.3	17.0	16.7	17.5	18.0
	6H	18.1	18.7	18.6	19.2	19.7	16.7	17.4	17.2	17.9	18.3
	8H	18.3	18.9	18.8	19.4	19.9	16.9	17.5	17.4	18.0	18.5
	12H	18.5	19.0	19.0	19.5	20.1	17.0	17.5	17.5	18.0	18.6
12H	4H	17.5	18.2	18.0	18.7	19.1	16.3	17.0	16.8	17.5	17.9
	6H	18.1	18.7	18.6	19.2	19.7	16.8	17.4	17.3	17.8	18.4
	8H	18.4	18.9	18.9	19.4	20.0	17.0	17.5	17.5	18.0	18.5

Maximum UGR = 20.1

POLAR GRAPH



Maximum Candela = 680.742 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.)