



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT2-24-L55-835-D-(L41)-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 18887.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 08-02-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 2x4' RECESSED LUMINAIRE

[MORE] WITH FROST CONCAVE ACRYLIC LENS w/DEEP ACRYLIC CENTER

[MORE] DIFFUSER

[LUMCAT] AT2-24-L55-835-D-(L41)-EM10W-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Office, Direct

[_SEARCH_MOUNTING] Ceiling, Recessed

[_SEARCH_CERTIFICATION] DLC

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1320
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.76 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	652	694	723
55	561	606	629
65	488	541	567
75	404	484	508
85	308	387	355

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	554.425	554.425	554.425	554.425	554.425
5	554.425	554.425	554.425	555.275	555.275
10	538.281	538.706	540.406	542.530	544.229
15	518.738	520.438	524.686	528.510	531.059
20	488.999	491.973	498.770	505.568	508.967
25	448.214	451.612	461.384	469.456	472.430
30	409.553	414.651	425.272	435.043	438.867
35	375.565	380.663	392.984	403.605	406.579
40	325.008	331.381	344.126	353.473	357.721
45	284.648	290.595	302.916	311.413	315.661
50	240.463	246.411	257.457	265.954	268.079
55	198.828	203.927	214.548	221.770	222.620
60	161.867	166.965	175.887	181.410	183.959
65	127.454	132.552	141.049	145.723	147.847
70	95.591	99.414	107.911	112.584	114.284
75	64.577	69.250	77.322	81.146	81.146
80	38.236	42.910	50.132	48.433	47.158
85	16.569	20.818	20.818	19.118	19.118
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	199.99	N.A.	15.10
0-30	412.69	N.A.	31.30
0-40	655.55	N.A.	49.70
0-60	1078.76	N.A.	81.70
0-80	1296.97	N.A.	98.20
0-90	1320.2	N.A.	100.00
10-90	1267.75	N.A.	96.00
20-40	455.56	N.A.	34.50
20-50	687.38	N.A.	52.10
40-70	561.58	N.A.	42.50
60-80	218.20	N.A.	16.50
70-80	79.83	N.A.	6.00
80-90	23.23	N.A.	1.80
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	1320.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.45
10-20	147.54
20-30	212.69
30-40	242.86
40-50	231.82
50-60	191.39
60-70	138.37
70-80	79.83
80-90	23.23
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

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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	9.7	11.2	10.0	11.5	11.9	10.3	11.9	10.6	12.2	12.5
	3H	11.3	12.7	11.7	13.0	13.4	12.0	13.5	12.4	13.8	14.2
	4H	11.9	13.2	12.3	13.5	13.9	12.7	14.1	13.1	14.4	14.8
	6H	12.3	13.5	12.7	13.9	14.3	13.2	14.5	13.6	14.8	15.2
	8H	12.4	13.6	12.8	14.0	14.4	13.4	14.6	13.8	14.9	15.3
	12H	12.5	13.6	12.9	14.0	14.5	13.5	14.6	13.9	15.0	15.4

UGR Viewed Endwise

4H	2H	10.3	11.7	10.7	12.0	12.4	10.8	12.2	11.2	12.5	12.9
	3H	12.2	13.3	12.6	13.7	14.1	12.8	13.9	13.2	14.3	14.7
	4H	12.9	13.9	13.3	14.3	14.7	13.6	14.7	14.1	15.1	15.5
	6H	13.4	14.3	13.9	14.8	15.2	14.3	15.2	14.7	15.6	16.1
	8H	13.6	14.4	14.1	14.9	15.4	14.5	15.3	14.9	15.8	16.2
	12H	13.7	14.5	14.2	15.0	15.4	14.6	15.4	15.1	15.8	16.3

8H	4H	13.3	14.1	13.7	14.5	15.0	13.9	14.8	14.4	15.2	15.7
	6H	14.0	14.6	14.5	15.1	15.6	14.7	15.4	15.2	15.9	16.4
	8H	14.2	14.8	14.7	15.3	15.8	15.0	15.6	15.5	16.1	16.6
	12H	14.4	15.0	15.0	15.5	16.0	15.2	15.7	15.7	16.2	16.8

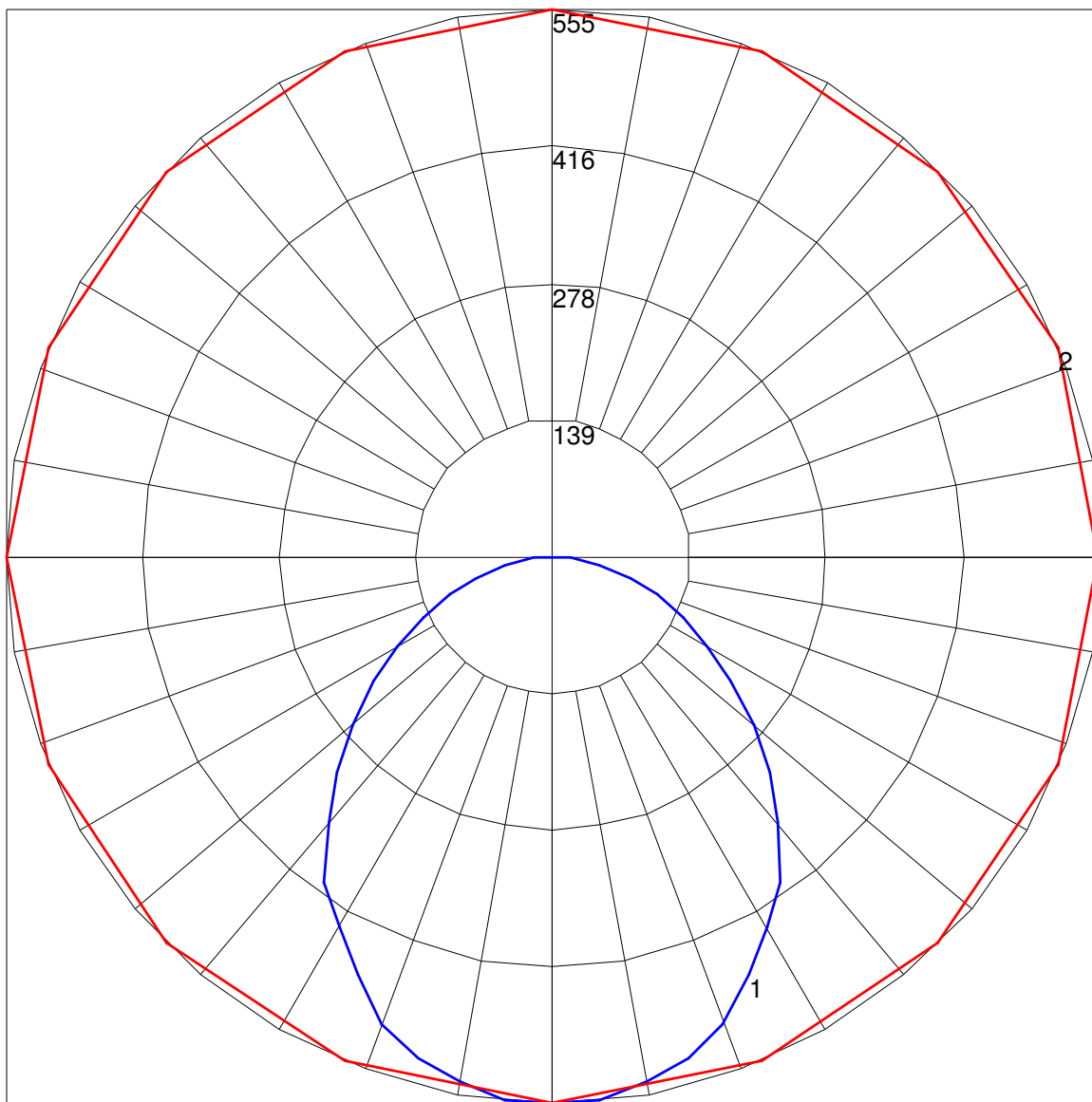
12H	4H	13.3	14.0	13.8	14.5	15.0	14.0	14.7	14.4	15.2	15.6
	6H	14.0	14.7	14.6	15.1	15.7	14.8	15.4	15.3	15.8	16.4
	8H	14.4	14.9	14.9	15.4	16.0	15.1	15.6	15.6	16.1	16.7

Maximum UGR = 16.8

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POLAR GRAPH



Maximum Candela = 555.275 Located At Horizontal Angle = 67.5, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)