



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT2-24-L40-835-D-(L15)-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] 08-03-2023
 [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-L40-835-D-(L15)-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	1260
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	622	662	690
55	536	578	600
65	466	516	541
75	386	462	485
85	294	369	339

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AT2-24-L40-835-D-(L15)-EM10W-DIM-UNV_(EMER MODE).IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	529.224	529.224	529.224	529.224	529.224
5	529.224	529.224	529.224	530.035	530.035
10	513.814	514.220	515.842	517.869	519.491
15	495.159	496.781	500.837	504.487	506.920
20	466.772	469.611	476.099	482.588	485.832
25	427.840	431.085	440.412	448.117	450.956
30	390.937	395.803	405.941	415.269	418.919
35	358.494	363.360	375.121	385.259	388.098
40	310.235	316.318	328.484	337.406	341.461
45	271.709	277.387	289.147	297.258	301.313
50	229.533	235.211	245.755	253.865	255.893
55	189.791	194.657	204.796	211.690	212.501
60	154.509	159.376	167.892	173.164	175.597
65	121.661	126.527	134.638	139.099	141.126
70	91.246	94.895	103.006	107.467	109.089
75	61.641	66.102	73.808	77.457	77.457
80	36.498	40.959	47.853	46.231	45.014
85	15.816	19.871	19.871	18.249	18.249
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AT2-24-L40-835-D-(L15)-EM10W-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	190.90	N.A.	15.10
0-30	393.93	N.A.	31.30
0-40	625.75	N.A.	49.70
0-60	1029.73	N.A.	81.70
0-80	1238.01	N.A.	98.20
0-90	1260.19	N.A.	100.00
10-90	1210.12	N.A.	96.00
20-40	434.85	N.A.	34.50
20-50	656.14	N.A.	52.10
40-70	536.06	N.A.	42.50
60-80	208.28	N.A.	16.50
70-80	76.20	N.A.	6.00
80-90	22.17	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	1260.19	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.06
10-20	140.84
20-30	203.03
30-40	231.82
40-50	221.29
50-60	182.69
60-70	132.08
70-80	76.20
80-90	22.17
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT2-24-L40-835-D-(L15)-EM10W-DIM-UNV_(EMER MODE).IES

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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT2-24-L40-835-D-(L15)-EM10W-DIM-UNV_(EMER MODE).IES

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	9.5	11.0	9.8	11.3	11.7	10.1	11.7	10.4	12.0	12.3
	3H	11.1	12.5	11.5	12.8	13.2	11.8	13.3	12.2	13.6	14.0
	4H	11.7	13.0	12.1	13.3	13.7	12.5	13.9	12.9	14.2	14.6
	6H	12.1	13.3	12.5	13.7	14.1	13.0	14.3	13.4	14.6	15.0
	8H	12.2	13.4	12.6	13.8	14.2	13.2	14.4	13.6	14.7	15.1
	12H	12.3	13.4	12.7	13.8	14.3	13.3	14.4	13.7	14.8	15.2

UGR Viewed Endwise

4H	2H	10.1	11.5	10.5	11.8	12.2	10.6	12.0	11.0	12.3	12.7
	3H	12.0	13.1	12.4	13.5	13.9	12.6	13.7	13.0	14.1	14.5
	4H	12.7	13.7	13.1	14.1	14.5	13.4	14.5	13.9	14.9	15.3
	6H	13.2	14.1	13.7	14.6	15.0	14.1	15.0	14.5	15.4	15.9
	8H	13.4	14.2	13.9	14.7	15.2	14.3	15.1	14.7	15.6	16.0
	12H	13.5	14.3	14.0	14.8	15.2	14.4	15.2	14.9	15.6	16.1

8H	4H	13.1	13.9	13.5	14.3	14.8	13.7	14.6	14.2	15.0	15.5
	6H	13.8	14.4	14.3	14.9	15.4	14.5	15.2	15.0	15.7	16.2
	8H	14.0	14.6	14.5	15.1	15.6	14.8	15.4	15.3	15.9	16.4
	12H	14.2	14.8	14.8	15.3	15.8	15.0	15.5	15.5	16.0	16.6

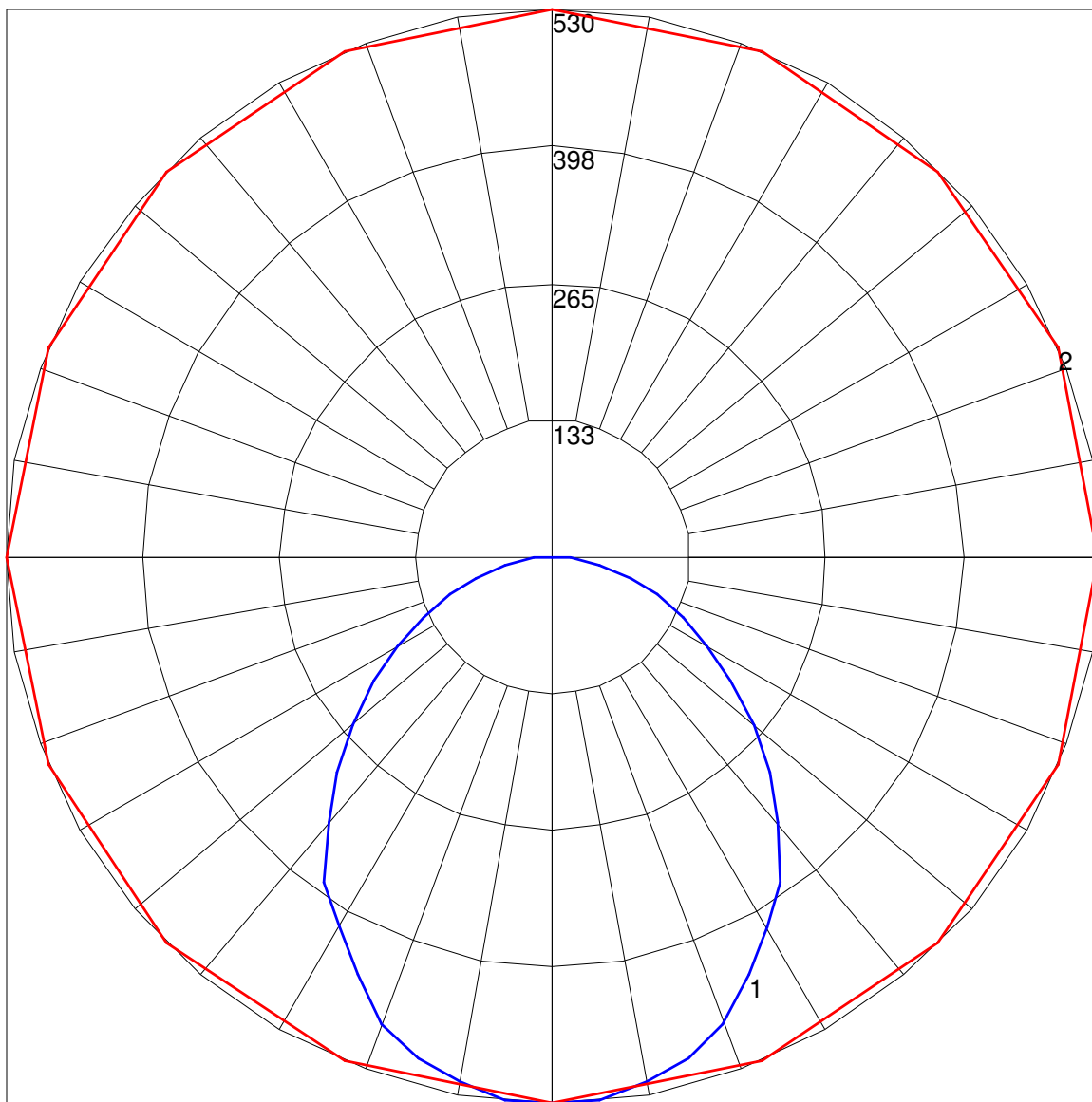
12H	4H	13.1	13.8	13.6	14.3	14.8	13.8	14.5	14.2	15.0	15.4
	6H	13.8	14.5	14.4	14.9	15.5	14.6	15.2	15.1	15.6	16.2
	8H	14.2	14.7	14.7	15.2	15.8	14.9	15.4	15.4	15.9	16.5

Maximum UGR = 16.6

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT2-24-L40-835-D-(L15)-EM10W-DIM-UNV_(EMER MODE).IES

POLAR GRAPH



Maximum Candela = 530.035 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.)