

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L60-835-SAF12125-EM10W-(L33)-DIM-UNV (EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19835.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 08-22-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6-42 LED 22" ARRAYS 2x4' RECESSED WHITE REFLECTOR LUMINAIRE

[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR

[LUMCAT] MCTG-24-L60-835-SAF12125-EM10W-(L33)-DIM-UNV

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Healthcare, Institutional, Office, Direct, Clean Room

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1364
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.57 ft
Luminous Width (90-270)	1.57 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	923	918	893
55	763	748	706
65	553	547	507
75	329	339	336
85	72	99	102

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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	594.119	594.119	594.119	594.119	594.119
5	597.067	593.333	589.861	588.486	588.617
10	588.158	584.097	581.804	580.298	580.560
15	573.682	569.948	568.900	565.690	567.328
20	552.721	549.708	549.839	545.319	547.218
25	524.096	522.327	521.410	516.890	519.379
30	489.772	488.855	485.776	480.012	482.828
35	446.998	447.915	442.216	433.045	438.286
40	396.036	400.424	391.254	381.035	387.324
45	341.013	345.991	339.178	326.798	329.942
50	285.203	282.649	283.500	269.744	269.351
55	228.674	223.171	224.154	211.446	211.577
60	172.668	168.803	167.755	156.226	158.257
65	122.165	119.741	120.723	111.946	112.011
70	79.915	77.556	80.373	76.836	75.067
75	44.543	44.084	45.853	47.490	45.460
80	18.865	18.210	20.634	23.581	21.092
85	3.275	3.668	4.520	6.681	4.651
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	216.55	N.A.	15.90
0-30	455.99	N.A.	33.40
0-40	731.36	N.A.	53.60
0-60	1187.56	N.A.	87.10
0-80	1355.63	N.A.	99.40
0-90	1363.79	N.A.	100.00
10-90	1307.63	N.A.	95.90
20-40	514.80	N.A.	37.70
20-50	773.89	N.A.	56.70
40-70	574.23	N.A.	42.10
60-80	168.07	N.A.	12.30
70-80	50.04	N.A.	3.70
80-90	8.17	N.A.	0.60
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	1363.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.16
10-20	160.40
20-30	239.44
30-40	275.37
40-50	259.09
50-60	197.11
60-70	118.03
70-80	50.04
80-90	8.17
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

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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	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

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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	10.6	12.1	11.0	12.4	12.8	10.1	11.7	10.5	12.0	12.3
	3H	11.7	13.1	12.1	13.4	13.7	11.3	12.6	11.6	12.9	13.3
	4H	12.0	13.2	12.4	13.6	14.0	11.6	12.9	12.0	13.2	13.6
	6H	12.1	13.3	12.5	13.6	14.0	11.8	12.9	12.2	13.3	13.7
	8H	12.1	13.2	12.5	13.6	14.0	11.8	12.9	12.2	13.3	13.7
	12H	12.1	13.1	12.5	13.5	13.9	11.8	12.8	12.2	13.2	13.7

UGR Viewed Endwise

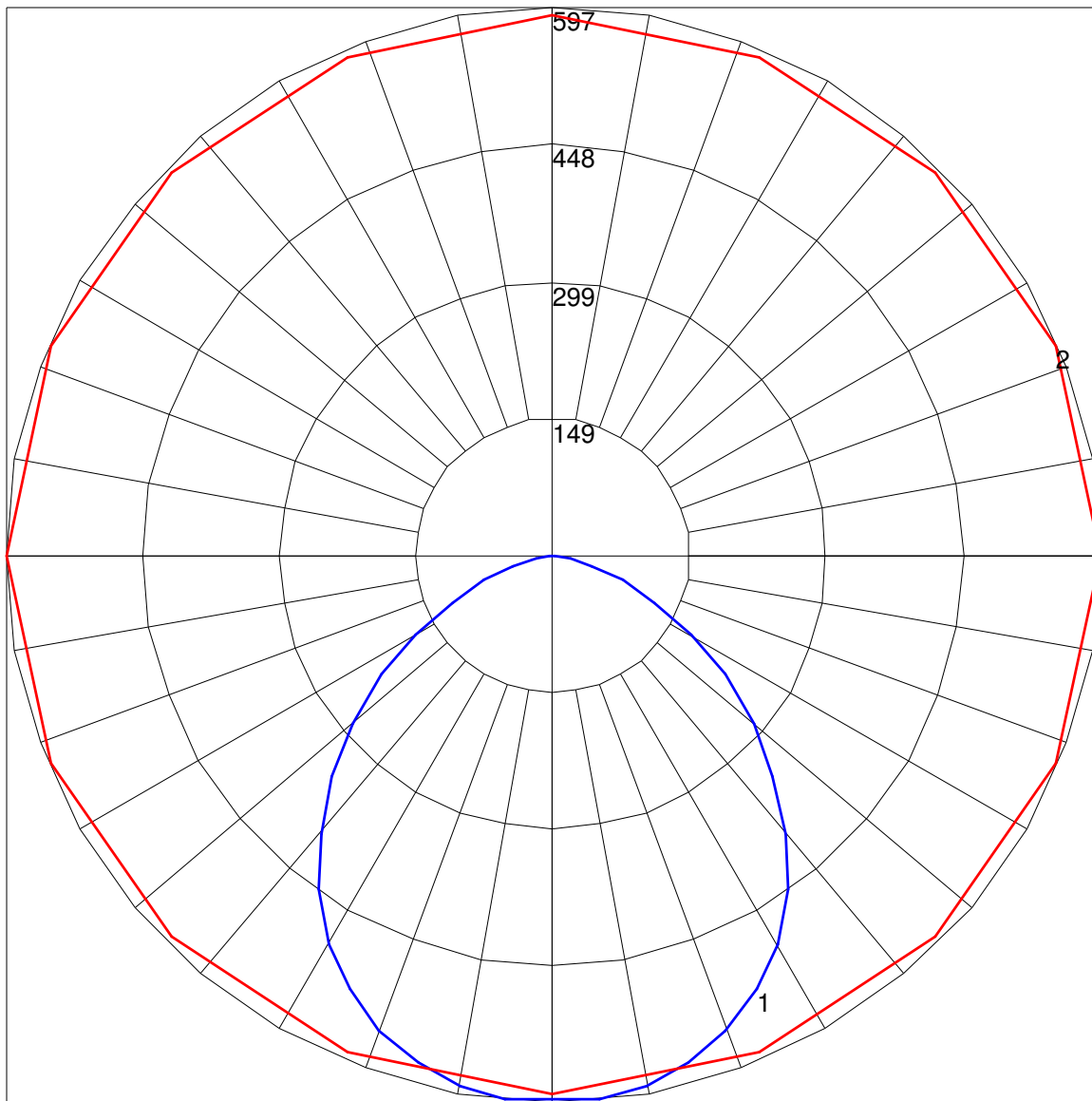
4H	2H	11.0	12.3	11.4	12.6	13.0	10.6	11.9	11.0	12.2	12.6
	3H	12.3	13.3	12.7	13.7	14.1	11.9	13.0	12.3	13.4	13.8
	4H	12.6	13.6	13.1	14.0	14.4	12.4	13.3	12.8	13.7	14.1
	6H	12.8	13.6	13.3	14.0	14.5	12.6	13.4	13.1	13.9	14.3
	8H	12.8	13.6	13.3	14.0	14.5	12.6	13.4	13.1	13.8	14.3
	12H	12.8	13.5	13.3	13.9	14.4	12.6	13.3	13.1	13.8	14.3
8H	4H	12.7	13.5	13.2	13.9	14.4	12.5	13.2	12.9	13.7	14.1
	6H	12.9	13.6	13.4	14.1	14.5	12.8	13.4	13.3	13.9	14.4
	8H	13.0	13.5	13.5	14.0	14.5	12.9	13.4	13.4	13.9	14.4
	12H	13.0	13.4	13.5	13.9	14.5	12.9	13.4	13.4	13.9	14.4
12H	4H	12.7	13.4	13.2	13.9	14.3	12.5	13.1	12.9	13.6	14.1
	6H	12.9	13.5	13.5	14.0	14.5	12.8	13.3	13.3	13.8	14.3
	8H	13.0	13.5	13.5	14.0	14.5	12.9	13.4	13.4	13.9	14.4

Maximum UGR = 14.5

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POLAR GRAPH



Maximum Candela = 597.067 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

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