

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L60-835-SAF12125-EM10W-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-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	1311
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	887	883	859
55	734	719	679
65	532	526	488
75	317	326	323
85	69	95	98

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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	571.308	571.308	571.308	571.308	571.308
5	574.143	570.552	567.214	565.891	566.017
10	565.576	561.671	559.466	558.018	558.269
15	551.656	548.065	547.057	543.971	545.546
20	531.499	528.602	528.728	524.382	526.208
25	503.973	502.272	501.391	497.044	499.438
30	470.967	470.085	467.125	461.582	464.290
35	429.835	430.717	425.237	416.419	421.458
40	380.830	385.050	376.232	366.406	372.453
45	327.920	332.707	326.156	314.251	317.274
50	274.253	271.797	272.615	259.388	259.010
55	219.894	214.603	215.548	203.328	203.454
60	166.038	162.322	161.314	150.228	152.181
65	117.474	115.143	116.088	107.648	107.711
70	76.846	74.579	77.287	73.886	72.185
75	42.832	42.391	44.092	45.667	43.714
80	18.141	17.511	19.841	22.676	20.282
85	3.149	3.527	4.346	6.425	4.472
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	208.24	N.A.	15.90
0-30	438.48	N.A.	33.40
0-40	703.28	N.A.	53.60
0-60	1141.96	N.A.	87.10
0-80	1303.58	N.A.	99.40
0-90	1311.43	N.A.	100.00
10-90	1257.43	N.A.	95.90
20-40	495.04	N.A.	37.70
20-50	744.18	N.A.	56.70
40-70	552.18	N.A.	42.10
60-80	161.61	N.A.	12.30
70-80	48.12	N.A.	3.70
80-90	7.85	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	1311.43	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.00
10-20	154.24
20-30	230.24
30-40	264.79
40-50	249.14
50-60	189.54
60-70	113.49
70-80	48.12
80-90	7.85
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	95	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	59	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	51	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	10.4	11.9	10.8	12.2	12.6	9.9	11.5	10.3	11.8	12.1
	3H	11.5	12.9	11.9	13.2	13.5	11.1	12.4	11.4	12.7	13.1
	4H	11.8	13.0	12.2	13.4	13.8	11.4	12.7	11.8	13.0	13.4
	6H	11.9	13.1	12.3	13.4	13.8	11.6	12.7	12.0	13.1	13.5
	8H	11.9	13.0	12.3	13.4	13.8	11.6	12.7	12.0	13.1	13.5
	12H	11.9	12.9	12.3	13.3	13.7	11.6	12.6	12.0	13.0	13.5

UGR Viewed Endwise

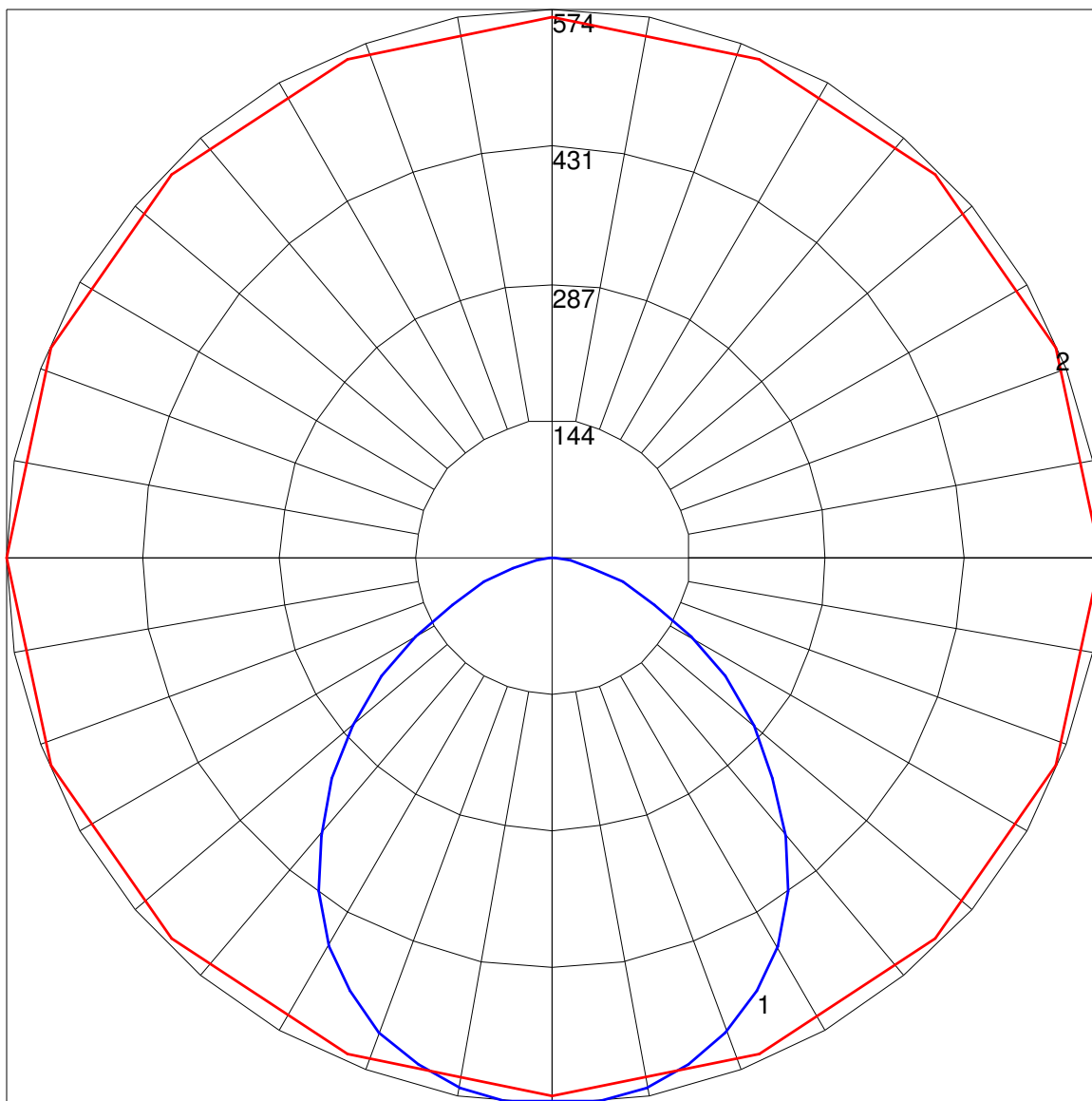
4H	2H	10.8	12.1	11.2	12.4	12.8	10.4	11.7	10.8	12.0	12.4
	3H	12.1	13.1	12.5	13.5	13.9	11.7	12.8	12.1	13.2	13.6
	4H	12.4	13.4	12.9	13.8	14.2	12.2	13.1	12.6	13.5	13.9
	6H	12.6	13.4	13.1	13.8	14.3	12.4	13.2	12.9	13.7	14.1
	8H	12.6	13.4	13.0	13.8	14.3	12.4	13.2	12.9	13.6	14.1
	12H	12.6	13.3	13.1	13.7	14.2	12.4	13.1	12.9	13.6	14.1
8H	4H	12.5	13.3	13.0	13.7	14.2	12.3	13.0	12.7	13.5	13.9
	6H	12.7	13.4	13.2	13.8	14.3	12.6	13.2	13.1	13.7	14.2
	8H	12.8	13.3	13.3	13.8	14.3	12.7	13.2	13.2	13.7	14.2
	12H	12.8	13.2	13.3	13.7	14.3	12.7	13.2	13.2	13.7	14.2
12H	4H	12.5	13.2	13.0	13.7	14.1	12.3	12.9	12.7	13.4	13.9
	6H	12.7	13.3	13.3	13.8	14.3	12.6	13.1	13.1	13.6	14.1
	8H	12.8	13.3	13.3	13.8	14.3	12.7	13.2	13.2	13.7	14.2

Maximum UGR = 14.3

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POLAR GRAPH



Maximum Candela = 574.143 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.)