

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-14-L79-835-SAF12125-EM10WLP-(L45)-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

[ISSUE DATE] 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-14-L79-835-SAF12125-EM10WLP-(L45)-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	1170
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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)	3.98 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1134	1128	1098
55	938	919	868
65	680	672	623
75	405	417	413
85	88	122	126

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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	509.719	509.719	509.719	509.719	509.719
5	512.248	509.044	506.066	504.886	504.998
10	504.605	501.120	499.153	497.861	498.086
15	492.185	488.981	488.082	485.329	486.734
20	474.201	471.616	471.729	467.851	469.481
25	449.643	448.125	447.339	443.461	445.596
30	420.195	419.408	416.767	411.821	414.238
35	383.497	384.284	379.395	371.527	376.023
40	339.775	343.540	335.673	326.906	332.301
45	292.568	296.839	290.995	280.373	283.071
50	244.687	242.496	243.226	231.425	231.087
55	196.188	191.468	192.311	181.408	181.521
60	148.139	144.823	143.924	134.033	135.775
65	104.810	102.731	103.573	96.043	96.099
70	68.562	66.539	68.955	65.921	64.403
75	38.215	37.821	39.339	40.744	39.002
80	16.185	15.623	17.702	20.231	18.096
85	2.810	3.147	3.878	5.732	3.990
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	185.79	N.A.	15.90
0-30	391.21	N.A.	33.40
0-40	627.46	N.A.	53.60
0-60	1018.86	N.A.	87.10
0-80	1163.05	N.A.	99.40
0-90	1170.05	N.A.	100.00
10-90	1121.87	N.A.	95.90
20-40	441.67	N.A.	37.70
20-50	663.95	N.A.	56.70
40-70	492.65	N.A.	42.10
60-80	144.19	N.A.	12.30
70-80	42.93	N.A.	3.70
80-90	7.01	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	1170.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.18
10-20	137.61
20-30	205.42
30-40	236.25
40-50	222.28
50-60	169.11
60-70	101.26
70-80	42.93
80-90	7.01
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	11.3	12.8	11.6	13.1	13.4	10.8	12.3	11.2	12.6	12.9
	3H	12.3	13.7	12.7	14.0	14.4	11.9	13.3	12.3	13.6	14.0
	4H	12.6	13.9	13.0	14.2	14.6	12.2	13.5	12.6	13.9	14.2
	6H	12.7	13.9	13.1	14.3	14.7	12.4	13.6	12.8	14.0	14.3
	8H	12.7	13.9	13.2	14.2	14.6	12.4	13.6	12.9	13.9	14.3
	12H	12.7	13.8	13.1	14.2	14.6	12.4	13.5	12.9	13.9	14.3

UGR Viewed Endwise

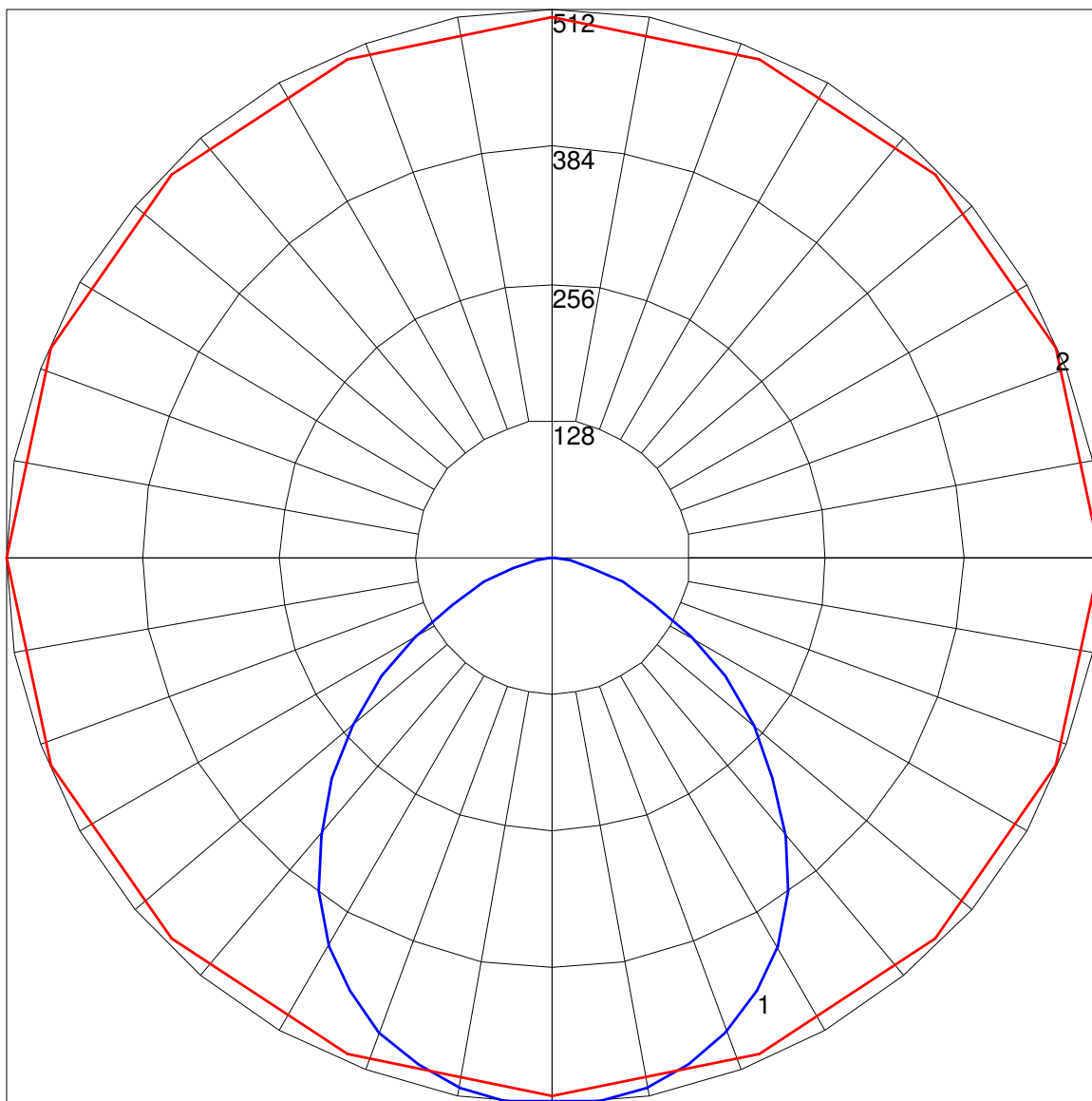
4H	2H	11.7	12.9	12.1	13.3	13.7	11.3	12.5	11.7	12.9	13.3
	3H	12.9	14.0	13.3	14.4	14.8	12.6	13.6	13.0	14.0	14.4
	4H	13.3	14.2	13.7	14.6	15.1	13.0	13.9	13.4	14.4	14.8
	6H	13.4	14.3	13.9	14.7	15.2	13.3	14.1	13.7	14.5	15.0
	8H	13.4	14.2	13.9	14.6	15.1	13.3	14.0	13.7	14.5	15.0
	12H	13.4	14.1	13.9	14.6	15.1	13.3	14.0	13.8	14.4	14.9
8H	4H	13.4	14.1	13.8	14.6	15.0	13.1	13.9	13.6	14.3	14.8
	6H	13.6	14.2	14.1	14.7	15.2	13.4	14.1	13.9	14.5	15.0
	8H	13.6	14.2	14.1	14.7	15.2	13.5	14.1	14.0	14.6	15.1
	12H	13.6	14.1	14.1	14.6	15.2	13.5	14.0	14.0	14.5	15.1
12H	4H	13.4	14.0	13.8	14.5	15.0	13.1	13.8	13.6	14.3	14.7
	6H	13.6	14.1	14.1	14.6	15.1	13.4	14.0	13.9	14.4	15.0
	8H	13.6	14.1	14.1	14.6	15.2	13.5	14.0	14.0	14.5	15.1

Maximum UGR = 15.2

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POLAR GRAPH



Maximum Candela = 512.248 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.)