

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-14-L79-835-SAF12125-EM10WLP-(L65)-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-(L65)-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	1135
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	1100	1095	1065
55	910	892	842
65	660	652	605
75	393	404	401
85	86	118	122

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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	494.489	494.489	494.489	494.489	494.489
5	496.942	493.834	490.945	489.800	489.909
10	489.527	486.147	484.239	482.985	483.203
15	477.479	474.371	473.499	470.827	472.190
20	460.032	457.525	457.634	453.872	455.453
25	436.208	434.736	433.972	430.210	432.282
30	407.640	406.876	404.314	399.516	401.861
35	372.039	372.802	368.059	360.426	364.788
40	329.623	333.275	325.643	317.138	322.372
45	283.827	287.970	282.300	271.996	274.613
50	237.376	235.250	235.959	224.510	224.183
55	190.326	185.747	186.564	175.988	176.097
60	143.712	140.496	139.623	130.028	131.718
65	101.678	99.661	100.479	93.173	93.228
70	66.513	64.551	66.895	63.951	62.479
75	37.073	36.691	38.163	39.526	37.836
80	15.702	15.156	17.174	19.627	17.555
85	2.726	3.053	3.762	5.561	3.871
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	180.24	N.A.	15.90
0-30	379.52	N.A.	33.40
0-40	608.71	N.A.	53.60
0-60	988.41	N.A.	87.10
0-80	1128.3	N.A.	99.40
0-90	1135.09	N.A.	100.00
10-90	1088.35	N.A.	95.90
20-40	428.47	N.A.	37.70
20-50	644.12	N.A.	56.70
40-70	477.93	N.A.	42.10
60-80	139.88	N.A.	12.30
70-80	41.65	N.A.	3.70
80-90	6.80	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	1135.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.74
10-20	133.50
20-30	199.29
30-40	229.19
40-50	215.64
50-60	164.06
60-70	98.23
70-80	41.65
80-90	6.80
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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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

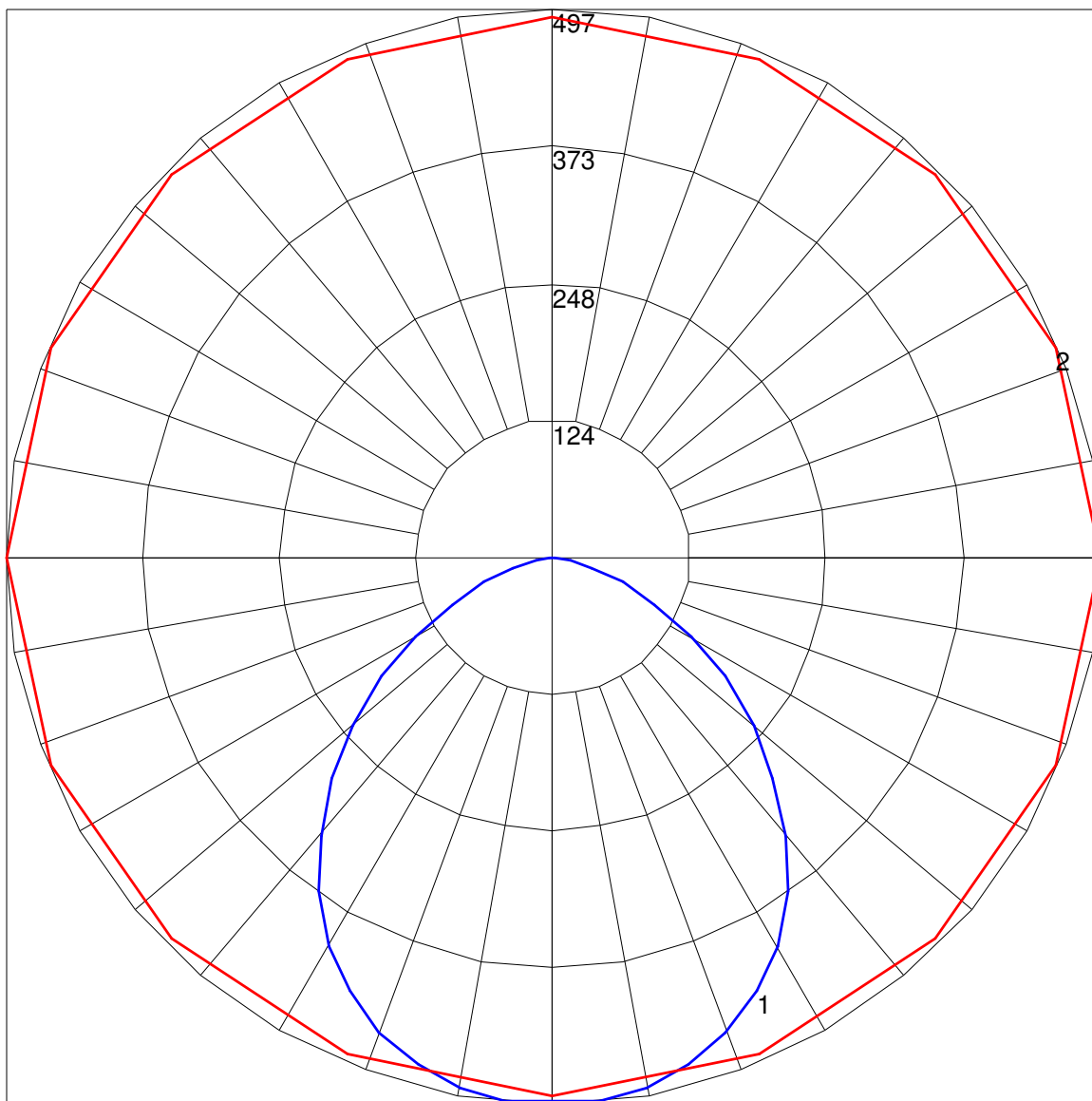
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	11.2	12.7	11.5	13.0	13.3	10.7	12.2	11.1	12.5	12.8
	3H	12.2	13.6	12.6	13.9	14.3	11.8	13.2	12.2	13.5	13.9
	4H	12.5	13.8	12.9	14.1	14.5	12.1	13.4	12.5	13.8	14.1
	6H	12.6	13.8	13.0	14.2	14.6	12.3	13.5	12.7	13.9	14.2
	8H	12.6	13.8	13.1	14.1	14.5	12.3	13.5	12.8	13.8	14.2
	12H	12.6	13.7	13.0	14.1	14.5	12.3	13.4	12.8	13.8	14.2
4H	2H	11.6	12.8	12.0	13.2	13.6	11.2	12.4	11.6	12.8	13.2
	3H	12.8	13.9	13.2	14.3	14.7	12.5	13.5	12.9	13.9	14.3
	4H	13.2	14.1	13.6	14.5	15.0	12.9	13.8	13.3	14.3	14.7
	6H	13.3	14.2	13.8	14.6	15.1	13.2	14.0	13.6	14.4	14.9
	8H	13.3	14.1	13.8	14.5	15.0	13.2	13.9	13.6	14.4	14.9
	12H	13.3	14.0	13.8	14.5	15.0	13.2	13.9	13.7	14.3	14.8
8H	4H	13.3	14.0	13.7	14.5	14.9	13.0	13.8	13.5	14.2	14.7
	6H	13.5	14.1	14.0	14.6	15.1	13.3	14.0	13.8	14.4	14.9
	8H	13.5	14.1	14.0	14.6	15.1	13.4	14.0	13.9	14.5	15.0
	12H	13.5	14.0	14.0	14.5	15.1	13.4	13.9	13.9	14.4	15.0
12H	4H	13.3	13.9	13.7	14.4	14.9	13.0	13.7	13.5	14.2	14.6
	6H	13.5	14.0	14.0	14.5	15.0	13.3	13.9	13.8	14.3	14.9
	8H	13.5	14.0	14.0	14.5	15.1	13.4	13.9	13.9	14.4	15.0

Maximum UGR = 15.1

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POLAR GRAPH



Maximum Candela = 496.942 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.)