



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L14-RED-L134-835-SAF12125-RED ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19833.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 17-FEB-2020

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

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

[MORE] PAT12 ACRYLIC LENS w/FROSTED PRISMATIC ACRYLIC LENS IN DOOR

[LUMCAT] MSTG-24-L14/RED/L134/835-SAF12125-RED ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1375
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	30.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.28
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	909	907	920
55	724	710	713
65	536	507	506
75	360	309	317
85	117	70	114

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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	611.335	611.335	611.335	611.335	611.335
5	609.750	609.606	609.173	607.876	607.876
10	599.229	600.959	600.526	599.662	598.941
15	582.944	585.394	585.106	586.403	585.394
20	560.462	563.345	563.057	568.677	565.074
25	529.190	533.225	536.395	541.439	535.963
30	490.279	497.628	501.087	503.105	498.781
35	444.306	453.673	455.403	452.520	450.935
40	393.722	397.901	398.189	396.316	399.054
45	336.076	335.932	335.211	334.635	339.967
50	276.700	272.521	273.530	271.224	275.692
55	216.893	213.866	212.713	213.866	213.722
60	162.273	159.103	158.959	161.120	160.688
65	118.318	116.301	111.977	116.012	111.833
70	79.551	79.263	72.057	78.543	72.202
75	48.711	46.837	41.793	46.117	42.946
80	22.050	21.617	17.870	19.744	20.897
85	5.332	5.765	3.171	4.035	5.188
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	222.90	N.A.	16.20
0-30	469.29	N.A.	34.10
0-40	751.12	N.A.	54.60
0-60	1202.42	N.A.	87.50
0-80	1366.96	N.A.	99.40
0-90	1374.93	N.A.	100.00
10-90	1317.1	N.A.	95.80
20-40	528.22	N.A.	38.40
20-50	787.09	N.A.	57.20
40-70	566.59	N.A.	41.20
60-80	164.54	N.A.	12.00
70-80	49.26	N.A.	3.60
80-90	7.97	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	1374.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.83
10-20	165.07
20-30	246.39
30-40	281.83
40-50	258.87
50-60	192.43
60-70	115.29
70-80	49.26
80-90	7.97
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	12	12	12	12	12	12	12	12	11	11	11	11	11	11	10	10	10	10
1	11	11	10	10	11	11	10	10	10	10	10	10	10	9	9	9	9	9
2	10	10	9	8	10	9	9	8	9	9	8	9	8	8	8	8	8	8
3	10	9	8	7	9	8	8	7	8	8	7	8	7	7	8	7	7	7
4	9	8	7	6	9	8	7	6	7	7	6	7	6	6	7	6	6	6
5	8	7	6	5	8	7	6	5	7	6	5	6	6	5	6	6	5	5
6	8	6	5	5	7	6	5	5	6	5	5	6	5	5	6	5	5	4
7	7	6	5	4	7	6	5	4	5	5	4	5	5	4	5	5	4	4
8	7	5	4	4	6	5	4	4	5	4	4	5	4	4	5	4	4	4
9	6	5	4	3	6	5	4	3	5	4	3	5	4	3	4	4	3	3
10	6	4	4	3	6	4	4	3	4	4	3	4	4	3	4	4	3	3

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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	18.1	19.6	18.5	19.9	20.3	18.1	19.6	18.5	20.0	20.3
	3H	19.3	20.6	19.7	21.0	21.3	19.2	20.6	19.6	20.9	21.3
	4H	19.6	20.9	20.0	21.3	21.6	19.5	20.8	19.9	21.1	21.5
	6H	19.8	21.0	20.2	21.3	21.7	19.7	20.8	20.1	21.2	21.6
	8H	19.8	20.9	20.3	21.3	21.7	19.7	20.8	20.1	21.2	21.6
	12H	19.8	20.9	20.3	21.3	21.7	19.7	20.7	20.1	21.1	21.5

UGR Viewed Endwise

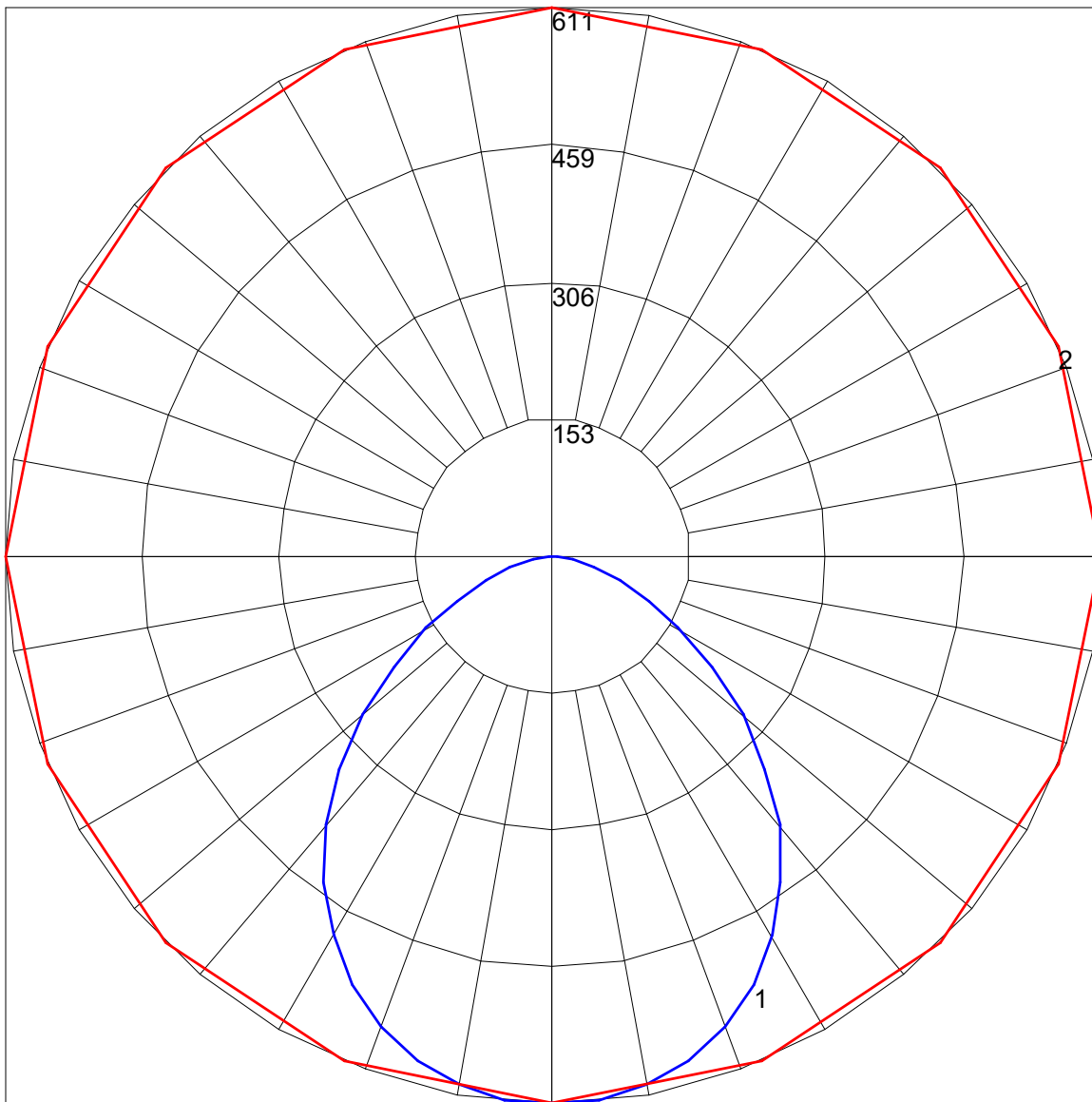
4H	2H	18.5	19.8	18.9	20.1	20.5	18.5	19.8	18.9	20.1	20.5
	3H	19.9	20.9	20.3	21.3	21.7	19.8	20.8	20.2	21.2	21.6
	4H	20.3	21.2	20.7	21.6	22.1	20.2	21.1	20.6	21.5	22.0
	6H	20.5	21.3	21.0	21.8	22.2	20.4	21.2	20.8	21.6	22.1
	8H	20.6	21.3	21.0	21.8	22.2	20.4	21.2	20.9	21.6	22.1
	12H	20.6	21.2	21.1	21.7	22.2	20.4	21.1	20.9	21.6	22.0

8H	4H	20.4	21.1	20.8	21.6	22.0	20.3	21.0	20.7	21.5	21.9
	6H	20.7	21.3	21.2	21.8	22.3	20.5	21.1	21.0	21.6	22.1
	8H	20.7	21.3	21.2	21.8	22.3	20.6	21.1	21.1	21.6	22.1
	12H	20.8	21.2	21.3	21.7	22.3	20.6	21.1	21.1	21.6	22.1

12H	4H	20.4	21.0	20.9	21.5	22.0	20.3	20.9	20.8	21.4	21.9
	6H	20.7	21.2	21.2	21.7	22.2	20.5	21.1	21.0	21.5	22.1
	8H	20.7	21.2	21.2	21.7	22.3	20.6	21.1	21.1	21.6	22.1

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 611.335 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)