



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L28-RED-L74-835-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-L28/RED/L74/835-SAF12125-RED ONLY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2738
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	58
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	1811	1806	1832
55	1441	1413	1420
65	1067	1010	1008
75	717	615	632
85	233	139	227

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1217.335	1217.335	1217.335	1217.335	1217.335
<b>5</b>	1214.178	1213.892	1213.031	1210.448	1210.448
<b>10</b>	1193.230	1196.673	1195.812	1194.090	1192.656
<b>15</b>	1160.802	1165.680	1165.106	1167.689	1165.680
<b>20</b>	1116.034	1121.773	1121.200	1132.391	1125.217
<b>25</b>	1053.761	1061.796	1068.110	1078.154	1067.249
<b>30</b>	976.279	990.914	997.802	1001.819	993.210
<b>35</b>	884.735	903.388	906.831	901.092	897.935
<b>40</b>	784.007	792.330	792.904	789.173	794.625
<b>45</b>	669.219	668.932	667.497	666.349	676.967
<b>50</b>	550.986	542.664	544.673	540.081	548.977
<b>55</b>	431.893	425.866	423.571	425.866	425.579
<b>60</b>	323.130	316.817	316.530	320.835	319.974
<b>65</b>	235.604	231.586	222.977	231.012	222.690
<b>70</b>	158.409	157.835	143.486	156.400	143.773
<b>75</b>	96.997	93.266	83.222	91.831	85.518
<b>80</b>	43.907	43.046	35.585	39.315	41.611
<b>85</b>	10.618	11.479	6.313	8.035	10.331
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	443.86	N.A.	16.20
0-30	934.48	N.A.	34.10
0-40	1495.69	N.A.	54.60
0-60	2394.35	N.A.	87.50
0-80	2722.00	N.A.	99.40
0-90	2737.87	N.A.	100.00
10-90	2622.7	N.A.	95.80
20-40	1051.83	N.A.	38.40
20-50	1567.31	N.A.	57.20
40-70	1128.23	N.A.	41.20
60-80	327.65	N.A.	12.00
70-80	98.08	N.A.	3.60
80-90	15.87	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	2737.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	115.16
10-20	328.69
20-30	490.63
30-40	561.21
40-50	515.48
50-60	383.18
60-70	229.57
70-80	98.08
80-90	15.87
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	44	44	44	44	43	43	43	43	41	41	41	39	39	39	37	37	37	37
1	41	39	38	36	40	38	37	36	37	36	35	35	34	34	34	33	33	32
2	37	35	32	31	36	34	32	30	33	31	30	31	30	29	30	29	28	27
3	34	31	28	26	33	30	28	26	29	27	25	28	26	25	27	26	24	24
4	32	28	25	22	31	27	24	22	26	24	22	25	23	22	25	23	21	21
5	29	25	22	20	29	24	22	19	24	21	19	23	21	19	22	20	19	18
6	27	23	20	17	26	22	19	17	22	19	17	21	19	17	20	18	17	16
7	25	21	18	15	25	20	17	15	20	17	15	19	17	15	19	17	15	14
8	24	19	16	14	23	19	16	14	18	16	14	18	15	14	17	15	14	13
9	22	17	15	13	22	17	14	13	17	14	12	16	14	12	16	14	12	12
10	21	16	13	11	20	16	13	11	16	13	11	15	13	11	15	13	11	11

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## UGR TABLE - CORRECTED

### Reflectances

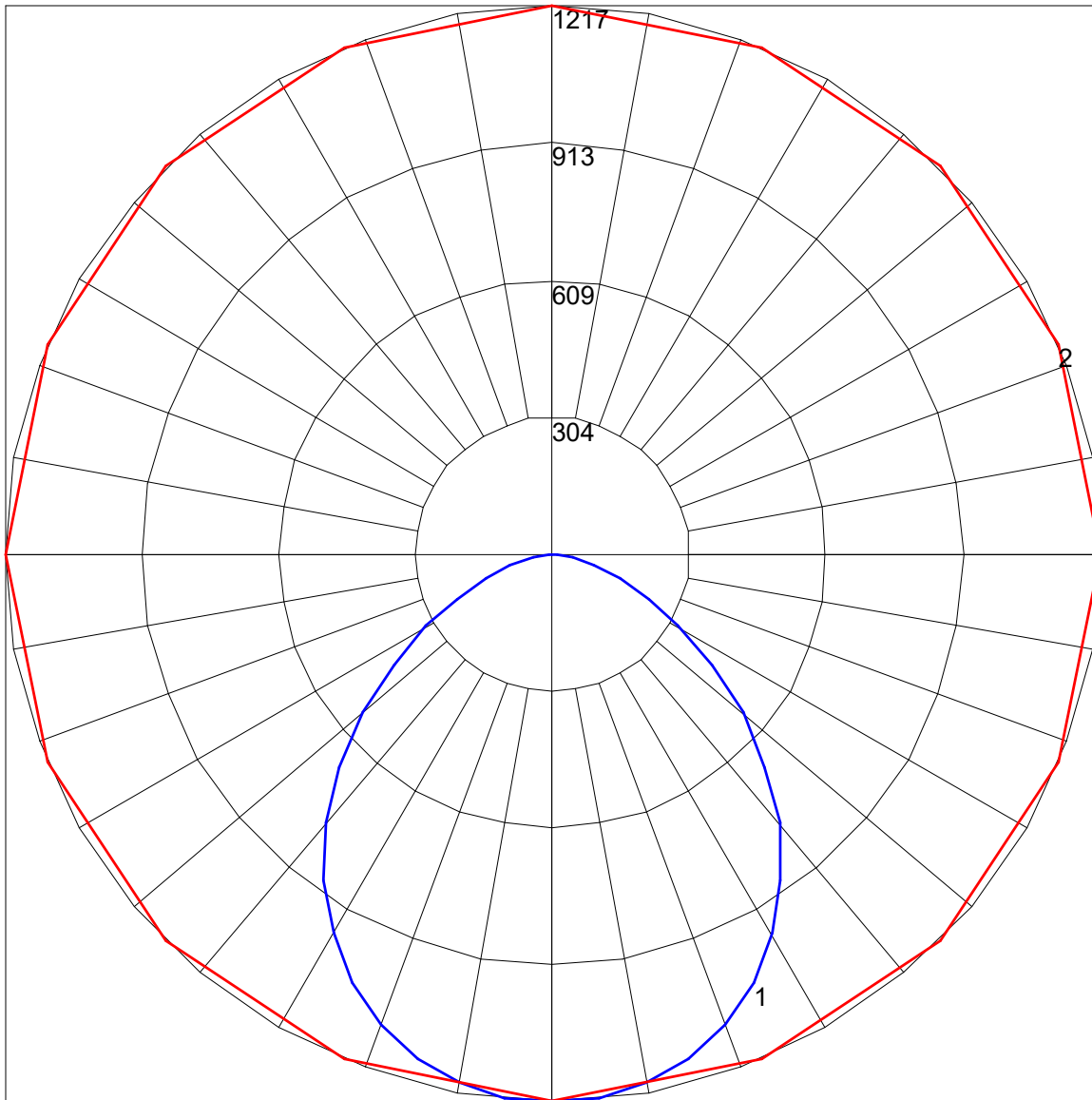
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

X=2H	Y=2H	16.1	17.6	16.5	17.9	18.3	UGR Viewed Endwise	16.1	17.6	16.5	18.0	18.3
	3H	17.3	18.6	17.7	19.0	19.3		17.2	18.6	17.6	18.9	19.3
	4H	17.6	18.9	18.0	19.3	19.6		17.5	18.8	17.9	19.1	19.5
	6H	17.8	19.0	18.2	19.3	19.7		17.7	18.8	18.1	19.2	19.6
	8H	17.8	18.9	18.3	19.3	19.7		17.7	18.8	18.1	19.2	19.6
	12H	17.8	18.9	18.3	19.3	19.7		17.7	18.7	18.1	19.1	19.5
4H	2H	16.5	17.8	16.9	18.1	18.5		16.5	17.8	16.9	18.1	18.5
	3H	17.9	18.9	18.3	19.3	19.7		17.8	18.8	18.2	19.2	19.6
	4H	18.3	19.2	18.7	19.6	20.1		18.2	19.1	18.6	19.5	20.0
	6H	18.5	19.3	19.0	19.8	20.2		18.4	19.2	18.8	19.6	20.1
	8H	18.6	19.3	19.0	19.8	20.2		18.4	19.2	18.9	19.6	20.1
	12H	18.6	19.2	19.1	19.7	20.2		18.4	19.1	18.9	19.6	20.0
8H	4H	18.4	19.1	18.8	19.6	20.0		18.3	19.0	18.7	19.5	19.9
	6H	18.7	19.3	19.2	19.8	20.3		18.5	19.1	19.0	19.6	20.1
	8H	18.7	19.3	19.2	19.8	20.3		18.6	19.1	19.1	19.6	20.1
	12H	18.8	19.2	19.3	19.7	20.3		18.6	19.1	19.1	19.6	20.1
12H	4H	18.4	19.0	18.9	19.5	20.0		18.3	18.9	18.8	19.4	19.9
	6H	18.7	19.2	19.2	19.7	20.2		18.5	19.1	19.0	19.5	20.1
	8H	18.7	19.2	19.2	19.7	20.3		18.6	19.1	19.1	19.6	20.1

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 1217.335 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.)