



## IES INDOOR REPORT

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

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7459
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	62.4
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	4933	4921	4990
55	3925	3849	3868
65	2906	2750	2747
75	1953	1676	1722
85	635	378	618

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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>	3316.327	3316.327	3316.327	3316.327	3316.327
<b>5</b>	3307.727	3306.946	3304.600	3297.564	3297.564
<b>10</b>	3250.657	3260.039	3257.693	3253.002	3249.094
<b>15</b>	3162.316	3175.606	3174.042	3181.078	3175.606
<b>20</b>	3040.357	3055.993	3054.429	3084.919	3065.374
<b>25</b>	2870.710	2892.600	2909.799	2937.162	2907.454
<b>30</b>	2659.629	2699.500	2718.262	2729.207	2705.754
<b>35</b>	2410.240	2461.055	2470.437	2454.801	2446.202
<b>40</b>	2135.833	2158.505	2160.069	2149.906	2164.759
<b>45</b>	1823.120	1822.338	1818.429	1815.302	1844.228
<b>50</b>	1501.025	1478.353	1483.826	1471.317	1495.552
<b>55</b>	1176.585	1160.167	1153.913	1160.167	1159.385
<b>60</b>	880.289	863.089	862.308	874.034	871.689
<b>65</b>	641.845	630.900	607.446	629.336	606.664
<b>70</b>	431.545	429.981	390.892	426.072	391.674
<b>75</b>	264.243	254.080	226.717	250.171	232.972
<b>80</b>	119.613	117.268	96.941	107.104	113.359
<b>85</b>	28.926	31.271	17.199	21.890	28.144
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MCTG-24-L28-RED-L74-835-SAF12125-WHITE ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1209.18	N.A.	16.20
0-30	2545.77	N.A.	34.10
0-40	4074.63	N.A.	54.60
0-60	6522.81	N.A.	87.50
0-80	7415.41	N.A.	99.40
0-90	7458.64	N.A.	100.00
10-90	7144.91	N.A.	95.80
20-40	2865.45	N.A.	38.40
20-50	4269.75	N.A.	57.20
40-70	3073.58	N.A.	41.20
60-80	892.61	N.A.	12.00
70-80	267.20	N.A.	3.60
80-90	43.23	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	7458.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	313.73
10-20	895.44
20-30	1336.59
30-40	1528.86
40-50	1404.3
50-60	1043.88
60-70	625.40
70-80	267.20
80-90	43.23
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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	38	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	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

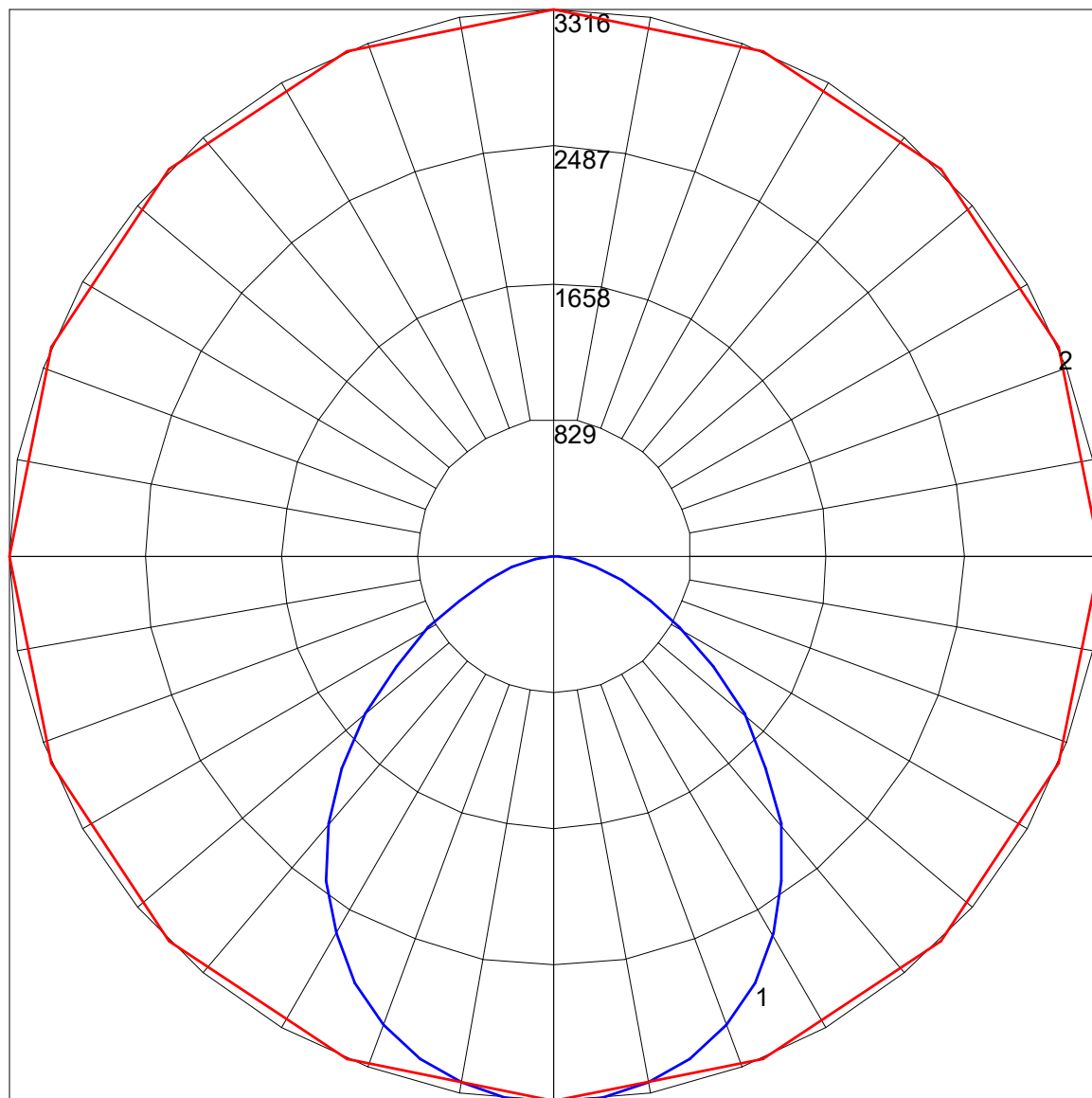
X=2H	Y=2H	16.1	17.6	16.5	17.9	18.3	16.1	17.6	16.5	18.0	18.3
	3H	17.3	18.6	17.7	19.0	19.3	17.2	18.6	17.6	18.9	19.3
	4H	17.6	18.9	18.0	19.3	19.6	17.5	18.8	17.9	19.1	19.5
	6H	17.8	19.0	18.2	19.3	19.7	17.7	18.8	18.1	19.2	19.6
	8H	17.8	18.9	18.3	19.3	19.7	17.7	18.8	18.1	19.2	19.6
	12H	17.8	18.9	18.3	19.3	19.7	17.7	18.7	18.1	19.1	19.5

### UGR Viewed Endwise

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 = 3316.327 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.)