



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L56-AMB-L36-835-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

[ISSUE DATE] 17-FEB-2020

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

[LUMINAIRE] 3-42 LED 22" ARRAYS 2x2' RECESSED WHITE REFLECTOR LUMINAIRE

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

[LUMCAT] MSTG-22-L28/AMB/L68/835-SAF12125-WHITE ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3677
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	33.3
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)	1.57 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	5524	5510	5588
55	4395	4310	4331
65	3254	3079	3076
75	2187	1877	1929
85	711	423	692

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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	1634.821	1634.821	1634.821	1634.821	1634.821
5	1630.582	1630.197	1629.041	1625.572	1625.572
10	1602.449	1607.073	1605.917	1603.605	1601.678
15	1558.900	1565.451	1564.681	1568.149	1565.451
20	1498.779	1506.487	1505.716	1520.746	1511.111
25	1415.150	1425.940	1434.419	1447.908	1433.263
30	1311.094	1330.749	1339.999	1345.394	1333.832
35	1188.155	1213.206	1217.830	1210.122	1205.883
40	1052.884	1064.060	1064.831	1059.821	1067.143
45	898.728	898.342	896.416	894.874	909.133
50	739.947	728.771	731.469	725.303	737.250
55	580.011	571.918	568.835	571.918	571.532
60	433.948	425.470	425.084	430.865	429.709
65	316.405	311.009	299.447	310.238	299.062
70	212.735	211.964	192.695	210.037	193.080
75	130.262	125.252	111.763	123.325	114.846
80	58.965	57.808	47.788	52.798	55.881
85	14.259	15.416	8.479	10.791	13.874
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	596.08	N.A.	16.20
0-30	1254.96	N.A.	34.10
0-40	2008.64	N.A.	54.60
0-60	3215.49	N.A.	87.50
0-80	3655.51	N.A.	99.40
0-90	3676.82	N.A.	100.00
10-90	3522.16	N.A.	95.80
20-40	1412.56	N.A.	38.40
20-50	2104.82	N.A.	57.20
40-70	1515.16	N.A.	41.20
60-80	440.02	N.A.	12.00
70-80	131.72	N.A.	3.60
80-90	21.31	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	3676.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.66
10-20	441.42
20-30	658.89
30-40	753.67
40-50	692.27
50-60	514.59
60-70	308.30
70-80	131.72
80-90	21.31
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	64	64	64	64	62	62	62	62	60	60	60	57	57	57	55	55	55	54
1	59	57	55	53	58	56	54	52	54	52	51	51	50	49	50	49	48	47
2	54	51	47	45	53	50	47	44	48	45	43	46	44	42	44	43	41	40
3	50	45	41	38	49	44	41	38	43	40	37	41	39	36	40	38	36	35
4	46	40	36	33	45	40	36	33	38	35	32	37	34	32	36	33	31	30
5	43	36	32	29	42	36	32	28	35	31	28	34	30	28	33	30	28	27
6	40	33	28	25	39	32	28	25	32	28	25	31	27	25	30	27	25	24
7	37	30	26	23	36	30	25	22	29	25	22	28	25	22	27	24	22	21
8	34	28	23	20	34	27	23	20	26	23	20	26	22	20	25	22	20	19
9	32	25	21	18	31	25	21	18	24	21	18	24	21	18	23	20	18	17
10	30	23	19	17	30	23	19	17	23	19	17	22	19	17	22	19	17	16

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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	18.7	20.2	19.0	20.5	20.8	18.7	20.2	19.1	20.5	20.8
	3H	19.8	21.2	20.2	21.5	21.9	19.8	21.1	20.1	21.4	21.8
	4H	20.2	21.5	20.6	21.8	22.2	20.1	21.3	20.5	21.7	22.1
	6H	20.4	21.5	20.8	21.9	22.3	20.2	21.4	20.6	21.7	22.1
	8H	20.4	21.5	20.8	21.9	22.3	20.2	21.3	20.6	21.7	22.1
	12H	20.4	21.4	20.8	21.8	22.3	20.2	21.3	20.7	21.7	22.1

UGR Viewed Endwise

4H	2H	19.0	20.3	19.4	20.7	21.0	19.1	20.3	19.5	20.7	21.0
	3H	20.4	21.4	20.8	21.8	22.2	20.3	21.4	20.8	21.8	22.2
	4H	20.8	21.8	21.3	22.2	22.6	20.7	21.7	21.1	22.1	22.5
	6H	21.1	21.9	21.5	22.3	22.8	20.9	21.7	21.4	22.2	22.6
	8H	21.1	21.9	21.6	22.3	22.8	21.0	21.7	21.4	22.2	22.6
	12H	21.1	21.8	21.6	22.3	22.7	21.0	21.6	21.5	22.1	22.6

8H	4H	20.9	21.7	21.4	22.1	22.6	20.8	21.6	21.3	22.0	22.5
	6H	21.2	21.8	21.7	22.3	22.8	21.1	21.7	21.6	22.2	22.7
	8H	21.3	21.8	21.8	22.3	22.8	21.1	21.7	21.6	22.2	22.7
	12H	21.3	21.8	21.8	22.3	22.9	21.1	21.6	21.6	22.1	22.7

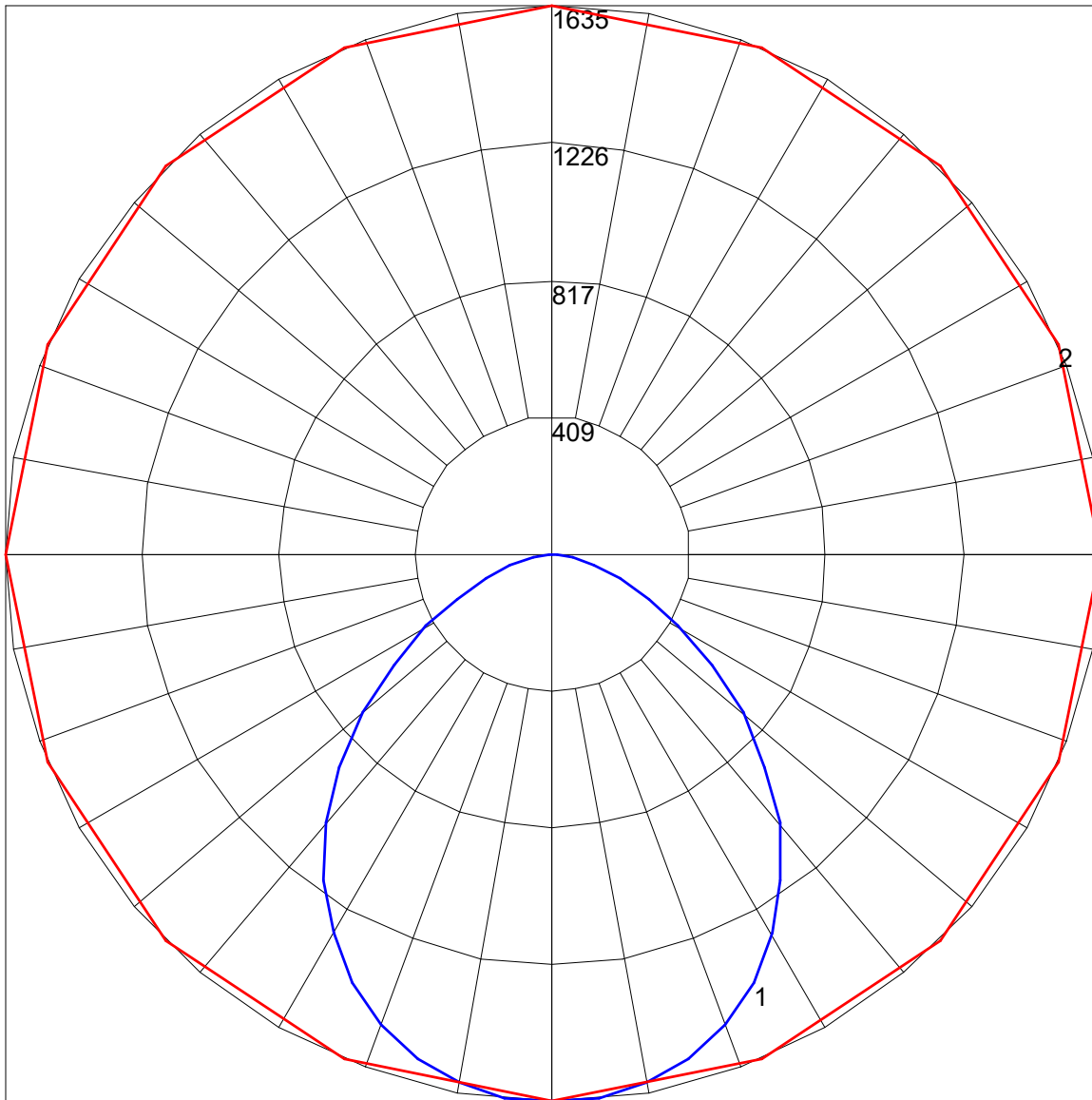
12H	4H	20.9	21.6	21.4	22.1	22.5	20.8	21.5	21.3	22.0	22.4
	6H	21.2	21.8	21.7	22.2	22.8	21.1	21.6	21.6	22.1	22.6
	8H	21.3	21.8	21.8	22.3	22.8	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 22.9

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POLAR GRAPH



Maximum Candela = 1634.821 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.)