



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-22-L14-GRN-L57-840-CS-SSYM-DIM-120-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] 18-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/CLEAR ACRYLIC LENS IN DOOR

[LUMCAT] MSTG-22-L14-GRN-L57-840-CS-SSYM-DIM-120-WHITE ONLY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5713
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	48.3
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	8583	8561	8682
55	6828	6697	6729
65	5056	4785	4778
75	3399	2916	2996
85	1105	657	1075

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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>	2540.042	2540.042	2540.042	2540.042	2540.042
<b>5</b>	2533.455	2532.857	2531.060	2525.671	2525.671
<b>10</b>	2489.744	2496.930	2495.133	2491.541	2488.547
<b>15</b>	2422.082	2432.261	2431.063	2436.452	2432.261
<b>20</b>	2328.671	2340.647	2339.449	2362.802	2347.832
<b>25</b>	2198.735	2215.501	2228.674	2249.632	2226.878
<b>30</b>	2037.063	2067.601	2081.972	2090.355	2072.392
<b>35</b>	1846.051	1884.972	1892.158	1880.182	1873.595
<b>40</b>	1635.878	1653.243	1654.440	1646.656	1658.033
<b>45</b>	1396.364	1395.766	1392.772	1390.377	1412.532
<b>50</b>	1149.665	1132.301	1136.492	1126.912	1145.474
<b>55</b>	901.170	888.596	883.805	888.596	887.997
<b>60</b>	674.231	661.058	660.459	669.441	667.644
<b>65</b>	491.602	483.219	465.255	482.021	464.656
<b>70</b>	330.529	329.331	299.392	326.337	299.991
<b>75</b>	202.389	194.605	173.647	191.611	178.438
<b>80</b>	91.614	89.818	74.249	82.033	86.824
<b>85</b>	22.155	23.951	13.173	16.766	21.556
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	926.13	N.A.	16.20
0-30	1949.85	N.A.	34.10
0-40	3120.84	N.A.	54.60
0-60	4995.95	N.A.	87.50
0-80	5679.62	N.A.	99.40
0-90	5712.72	N.A.	100.00
10-90	5472.43	N.A.	95.80
20-40	2194.71	N.A.	38.40
20-50	3270.29	N.A.	57.20
40-70	2354.12	N.A.	41.20
60-80	683.66	N.A.	12.00
70-80	204.66	N.A.	3.60
80-90	33.11	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	5712.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	240.30
10-20	685.84
20-30	1023.72
30-40	1170.99
40-50	1075.58
50-60	799.53
60-70	479.01
70-80	204.66
80-90	33.11
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	18.1	19.6	18.4	19.9	20.2	18.1	19.6	18.5	19.9	20.2
	3H	19.2	20.6	19.6	20.9	21.3	19.2	20.5	19.5	20.8	21.2
	4H	19.6	20.9	20.0	21.2	21.6	19.5	20.7	19.9	21.1	21.5
	6H	19.8	20.9	20.2	21.3	21.7	19.6	20.8	20.0	21.1	21.5
	8H	19.8	20.9	20.2	21.3	21.7	19.6	20.7	20.0	21.1	21.5
	12H	19.8	20.8	20.2	21.2	21.7	19.6	20.7	20.1	21.1	21.5

### UGR Viewed Endwise

4H	2H	18.4	19.7	18.8	20.1	20.4	18.5	19.7	18.9	20.1	20.4
	3H	19.8	20.8	20.2	21.2	21.6	19.7	20.8	20.2	21.2	21.6
	4H	20.2	21.2	20.7	21.6	22.0	20.1	21.1	20.5	21.5	21.9
	6H	20.5	21.3	20.9	21.7	22.2	20.3	21.1	20.8	21.6	22.1
	8H	20.5	21.3	21.0	21.7	22.2	20.4	21.1	20.8	21.6	22.0
	12H	20.5	21.2	21.0	21.7	22.1	20.4	21.0	20.9	21.5	22.0

8H	4H	20.3	21.1	20.8	21.5	22.0	20.2	21.0	20.7	21.4	21.9
	6H	20.6	21.2	21.1	21.7	22.2	20.5	21.1	21.0	21.6	22.1
	8H	20.7	21.2	21.2	21.7	22.2	20.5	21.1	21.0	21.6	22.1
	12H	20.7	21.2	21.2	21.7	22.3	20.5	21.0	21.0	21.5	22.1

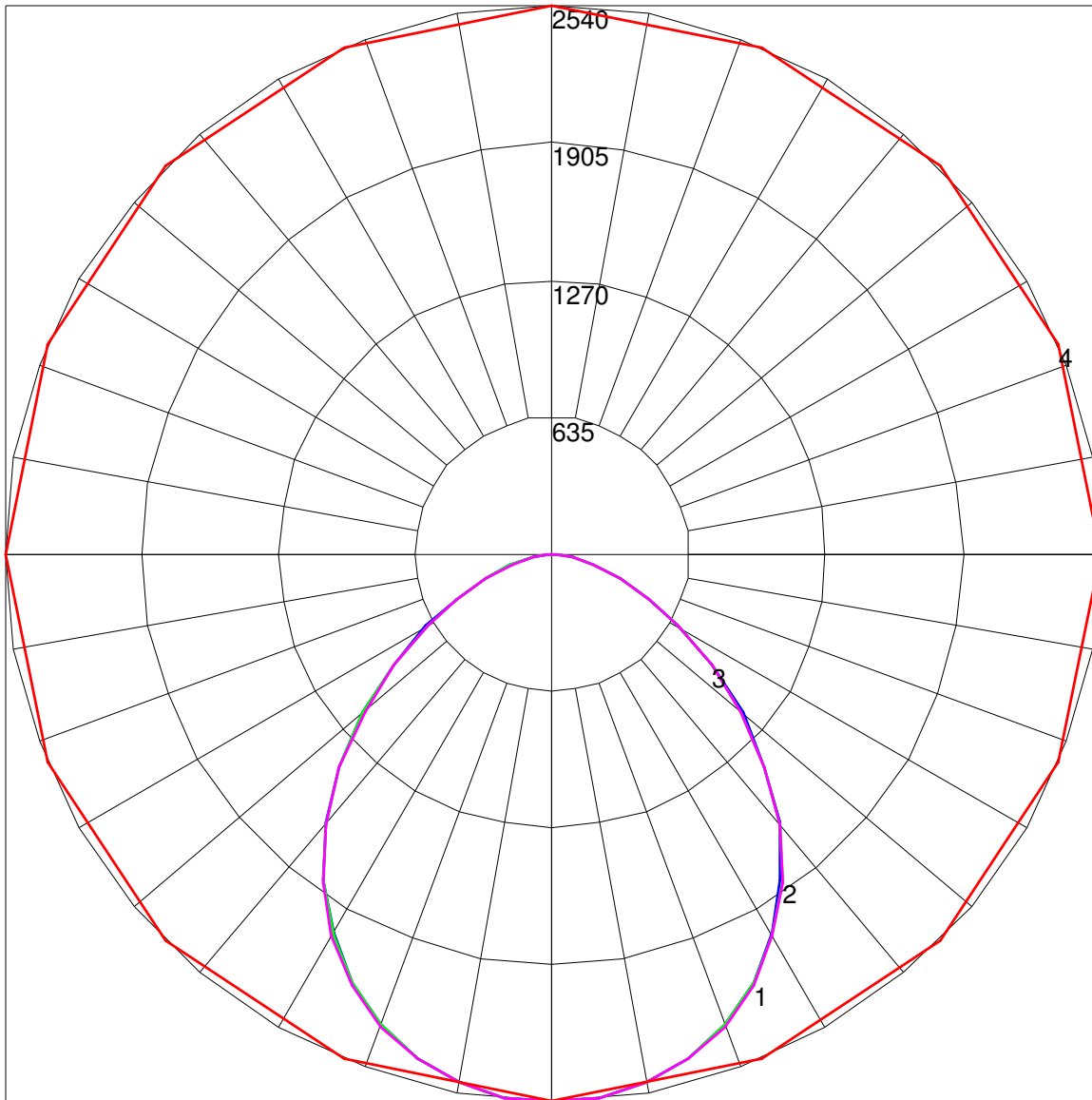
12H	4H	20.3	21.0	20.8	21.5	21.9	20.2	20.9	20.7	21.4	21.8
	6H	20.6	21.2	21.1	21.6	22.2	20.5	21.0	21.0	21.5	22.0
	8H	20.7	21.2	21.2	21.7	22.2	20.5	21.0	21.0	21.5	22.1

Maximum UGR = 22.3

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## POLAR GRAPH



Maximum Candela = 2540.042 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (5 - 185)

# 3 - Vertical Plane Through Horizontal Angles (10 - 190)

# 4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)