



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-22-L14-GRN-L57-840-CS-SASY-DIM-120-GREEN ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19909.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 18-FEB-2020

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

[LUMINAIRE] 2-42 WHITE LED-OFF, 1-56 GREEN LED-ON 22" ARRAYS ON ASY WHITE

[MORE] REFLECTOR w/FROST ACRYLIC LED LENSES, 2x2' RECESSED TROFFER

[MORE] KSH-34 ACRYLIC LENS & CLEAR ACRYLIC LENS

[LUMCAT] MSTG-22-L14-GRN-L57-840-CS-SASY-DIM-120-GREEN ONLY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1161
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	17.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.92
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.58
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	2829	4740	1531
55	1239	1518	1165
65	757	802	991
75	491	327	364
85	108	0	0

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : MSTG-22-L14-GRN-L57-840-CS-SASY-DIM-120-GREEN ONLY\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	428.877	428.877	428.877	428.877	428.877	428.877	428.877	428.877	428.877
<b>5</b>	450.537	449.454	449.454	439.707	435.375	429.960	423.462	415.880	409.382
<b>10</b>	486.277	485.194	471.115	445.122	428.877	419.130	412.631	403.967	394.220
<b>15</b>	537.179	532.847	494.941	448.371	418.046	405.050	396.386	381.224	369.311
<b>20</b>	603.243	591.330	525.266	450.537	399.635	386.639	367.144	347.650	332.488
<b>25</b>	677.972	659.560	559.922	449.454	377.975	363.895	335.737	303.246	290.250
<b>30</b>	746.202	722.376	605.409	451.620	353.065	328.156	294.582	271.839	264.257
<b>35</b>	816.599	787.357	648.730	449.454	322.741	290.250	257.759	235.016	224.186
<b>40</b>	901.074	870.750	701.798	449.454	288.084	240.431	225.269	191.695	181.948
<b>45</b>	460.284	634.651	771.112	457.035	249.095	187.363	186.280	153.789	145.125
<b>50</b>	233.933	255.593	442.956	459.201	199.276	149.457	138.627	116.966	107.219
<b>55</b>	163.536	172.200	200.359	400.718	153.789	115.883	105.053	85.559	73.645
<b>60</b>	114.800	123.465	125.631	178.699	118.049	81.227	71.479	51.985	42.238
<b>65</b>	73.645	79.061	77.978	90.974	96.389	54.151	44.404	29.242	22.743
<b>70</b>	47.653	44.404	44.404	47.653	54.151	30.325	22.743	15.162	14.079
<b>75</b>	29.242	25.993	19.494	21.660	21.660	15.162	12.996	8.664	9.747
<b>80</b>	10.830	10.830	5.415	5.415	5.415	4.332	3.249	2.166	3.249
<b>85</b>	2.166	3.249	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MSTG-22-L14-GRN-L57-840-CS-SASY-DIM-120-GREEN ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	166.50	N.A.	14.30
0-30	370.96	N.A.	32.00
0-40	647.04	N.A.	55.70
0-60	1071.77	N.A.	92.30
0-80	1158.95	N.A.	99.80
0-90	1160.73	N.A.	100.00
10-90	1119.21	N.A.	96.40
20-40	480.55	N.A.	41.40
20-50	752.98	N.A.	64.90
40-70	491.38	N.A.	42.30
60-80	87.18	N.A.	7.50
70-80	20.53	N.A.	1.80
80-90	1.79	N.A.	0.20
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	1160.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	41.53
10-20	124.97
20-30	204.47
30-40	276.08
40-50	272.43
50-60	152.30
60-70	66.65
70-80	20.53
80-90	1.79
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-22-L14-GRN-L57-840-CS-SASY-DIM-120-GREEN ONLY\_.IES

## 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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	80	69	61	55	79	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
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	40	35	31	29

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-22-L14-GRN-L57-840-CS-SASY-DIM-120-GREEN ONLY\_.IES

## 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	12.0	13.5	12.4	13.8	14.1	14.1	15.5	14.4	15.8	16.2
	3H	12.7	14.0	13.1	14.3	14.7	14.5	15.8	14.8	16.1	16.5
	4H	12.9	14.1	13.3	14.5	14.9	14.5	15.7	14.9	16.1	16.5
	6H	13.0	14.1	13.4	14.5	14.9	14.5	15.6	14.9	16.0	16.4
	8H	13.0	14.0	13.4	14.4	14.8	14.5	15.5	14.9	15.9	16.3
	12H	12.9	14.0	13.4	14.3	14.8	14.4	15.4	14.8	15.8	16.2

### UGR Viewed Endwise

4H	2H	12.3	13.5	12.7	13.8	14.2	14.0	15.3	14.4	15.6	16.0
	3H	13.1	14.1	13.5	14.5	14.9	14.5	15.5	14.9	15.9	16.3
	4H	13.4	14.3	13.8	14.7	15.1	14.6	15.5	15.0	15.9	16.3
	6H	13.5	14.2	13.9	14.7	15.2	14.6	15.3	15.0	15.8	16.3
	8H	13.5	14.2	14.0	14.6	15.1	14.5	15.3	15.0	15.7	16.2
	12H	13.4	14.1	13.9	14.6	15.0	14.5	15.1	15.0	15.6	16.1

8H	4H	13.4	14.1	13.8	14.5	15.0	14.5	15.2	15.0	15.7	16.2
	6H	13.5	14.1	14.0	14.6	15.0	14.5	15.1	15.0	15.6	16.1
	8H	13.5	14.0	14.0	14.5	15.0	14.4	15.0	15.0	15.5	16.0
	12H	13.5	13.9	14.0	14.4	15.0	14.4	14.9	14.9	15.4	15.9

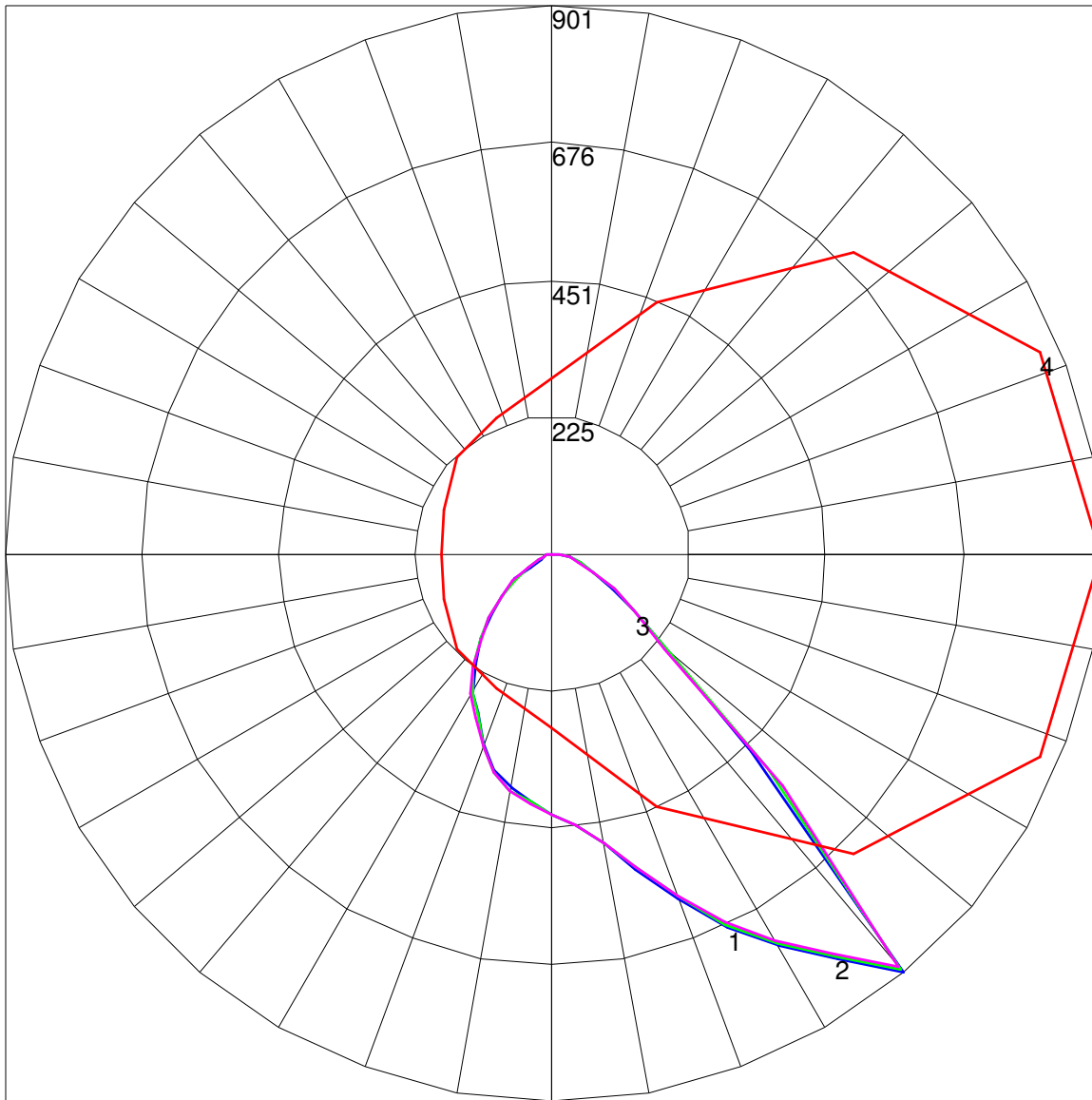
12H	4H	13.3	14.0	13.8	14.4	14.9	14.5	15.1	15.0	15.6	16.1
	6H	13.4	14.0	14.0	14.4	15.0	14.4	15.0	15.0	15.4	16.0
	8H	13.5	13.9	14.0	14.4	15.0	14.4	14.9	14.9	15.4	15.9

Maximum UGR = 16.5

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-22-L14-GRN-L57-840-CS-SASY-DIM-120-GREEN ONLY\_.IES

## POLAR GRAPH



Maximum Candela = 901.074 Located At Horizontal Angle = 0, Vertical Angle = 40

# 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 (40) (Through Max. Cd.)