



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-24-L32-GRN-L121-840-CS-SASY-DIM-120-GREEN ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19739.1

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 18-FEB-2020

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

[LUMINAIRE] 4-42 WHITE LED-OFF,2-56 GREEN LED-ON 22" ARRAYS ON ASY WHITE

[MORE] REFLECTOR w/FROST ACRYLIC LED LENSES, 2X4 RECESSED TROFFER

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

[LUMCAT] MSTG-24-L32-GRN-L121-840-CS-SASY-DIM-120-GREEN ONLY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2772
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	36.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.08
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.66
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.56 ft
Luminous Width (90-270)	3.56 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4941	5022	1437
55	1484	2229	995
65	1068	1082	753
75	607	545	553
85	274	228	183

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**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>	1086.353	1086.353	1086.353	1086.353	1086.353	1086.353	1086.353	1086.353	1086.353
<b>5</b>	1084.293	1084.293	1082.234	1080.174	1089.442	1093.561	1097.679	1098.709	1098.709
<b>10</b>	1065.758	1058.550	1050.312	1042.075	1049.283	1051.342	1046.194	1038.986	1036.926
<b>15</b>	1103.858	1080.174	1033.837	1006.035	1006.035	1002.945	980.292	949.400	938.073
<b>20</b>	1281.999	1219.186	1088.412	996.767	978.232	959.697	904.092	854.666	839.220
<b>25</b>	1411.743	1324.217	1117.244	940.133	899.974	865.993	798.031	759.932	750.664
<b>30</b>	1574.439	1464.259	1171.819	875.260	790.823	740.367	681.673	662.109	651.812
<b>35</b>	1726.837	1597.093	1237.721	829.953	696.089	636.366	606.504	560.167	534.424
<b>40</b>	2108.863	1912.186	1390.119	810.388	601.355	539.572	511.770	432.482	414.976
<b>45</b>	1809.215	2118.130	1839.076	858.785	526.186	469.551	418.066	353.193	343.926
<b>50</b>	695.060	867.023	1582.677	909.241	418.066	389.233	318.183	272.875	259.489
<b>55</b>	440.719	483.967	662.109	1010.153	295.529	300.678	245.073	193.587	179.171
<b>60</b>	327.450	330.539	366.580	664.168	219.330	219.330	174.022	121.507	105.031
<b>65</b>	233.746	237.865	236.835	338.777	164.755	157.547	111.210	75.169	63.843
<b>70</b>	131.804	134.893	145.190	165.785	149.309	94.734	60.753	46.337	44.278
<b>75</b>	81.348	78.259	73.110	82.377	74.140	49.426	30.892	29.862	29.862
<b>80</b>	39.129	40.159	35.010	36.040	30.892	24.713	19.565	19.565	19.565
<b>85</b>	12.357	12.357	10.297	10.297	8.238	8.238	6.178	6.178	6.178
<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-24-L32-GRN-L121-840-CS-SASY-DIM-120-GREEN ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	390.90	N.A.	14.10
0-30	840.48	N.A.	30.30
0-40	1420.5	N.A.	51.20
0-60	2501.49	N.A.	90.20
0-80	2759.11	N.A.	99.50
0-90	2771.95	N.A.	100.00
10-90	2669.45	N.A.	96.30
20-40	1029.61	N.A.	37.10
20-50	1705.22	N.A.	61.50
40-70	1270.51	N.A.	45.80
60-80	257.62	N.A.	9.30
70-80	68.11	N.A.	2.50
80-90	12.84	N.A.	0.50
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	2771.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	102.50
10-20	288.39
20-30	449.59
30-40	580.02
40-50	675.61
50-60	405.38
60-70	189.52
70-80	68.11
80-90	12.84
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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	33	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28

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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	13.1	14.6	13.4	14.9	15.2	15.2	16.7	15.6	17.1	17.4
	3H	13.9	15.3	14.3	15.6	16.0	15.6	17.0	16.0	17.3	17.7
	4H	14.2	15.4	14.6	15.8	16.1	15.7	17.0	16.1	17.4	17.7
	6H	14.3	15.4	14.7	15.8	16.2	15.8	16.9	16.2	17.3	17.7
	8H	14.3	15.4	14.7	15.8	16.2	15.7	16.8	16.2	17.2	17.6
	12H	14.3	15.3	14.7	15.7	16.1	15.7	16.8	16.1	17.2	17.6

### UGR Viewed Endwise

4H	2H	13.5	14.7	13.9	15.1	15.5	15.2	16.5	15.6	16.9	17.2
	3H	14.5	15.5	14.9	15.9	16.3	15.8	16.8	16.2	17.2	17.6
	4H	14.7	15.7	15.1	16.1	16.5	15.9	16.8	16.3	17.3	17.7
	6H	14.9	15.7	15.4	16.2	16.6	16.0	16.8	16.4	17.2	17.7
	8H	14.9	15.7	15.4	16.1	16.6	16.0	16.7	16.4	17.1	17.6
	12H	14.9	15.6	15.4	16.1	16.6	15.9	16.6	16.4	17.1	17.6

8H	4H	14.8	15.5	15.3	16.0	16.5	15.9	16.6	16.3	17.1	17.5
	6H	15.0	15.6	15.5	16.1	16.6	15.9	16.6	16.4	17.0	17.5
	8H	15.1	15.6	15.6	16.1	16.6	15.9	16.5	16.5	17.0	17.5
	12H	15.1	15.6	15.6	16.1	16.6	15.9	16.4	16.4	16.9	17.5

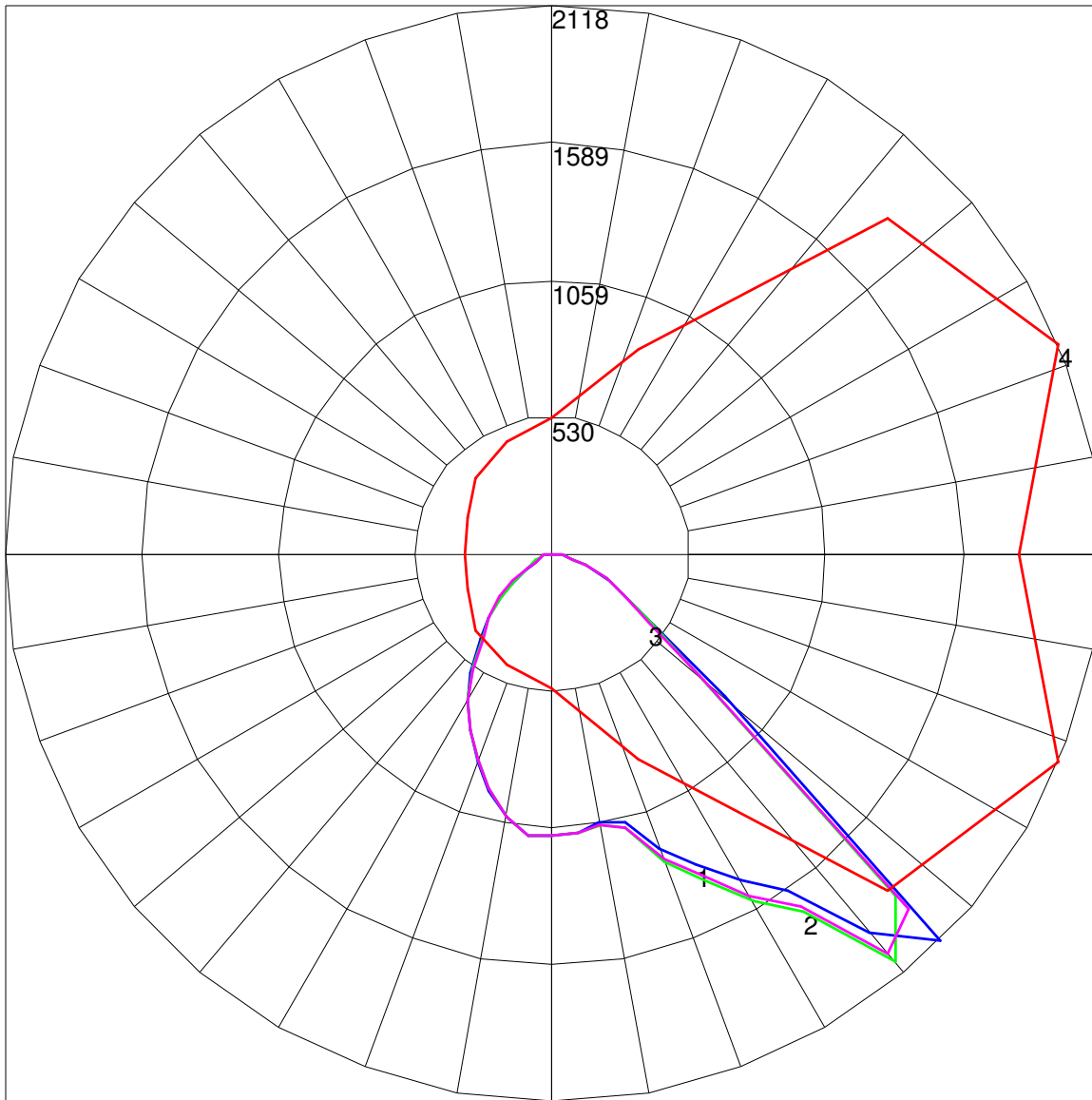
12H	4H	14.8	15.4	15.3	15.9	16.4	15.9	16.5	16.3	17.0	17.5
	6H	15.0	15.6	15.5	16.0	16.6	15.9	16.5	16.4	16.9	17.5
	8H	15.1	15.6	15.6	16.1	16.6	15.9	16.4	16.4	16.9	17.5

Maximum UGR = 17.7

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## POLAR GRAPH



Maximum Candela = 2118.13 Located At Horizontal Angle = 22.5, Vertical Angle = 45

# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (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 (45) (Through Max. Cd.)