



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-24-L114-GRN-CS-SASY-DIM-120-GREEN ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19832.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 18-MAY-2020

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

[LUMINAIRE] 6-42 LED 22" ARRAYS 2x4' RECESSED ASYMM WHITE REFL LUMINAIRE

[MORE] FROST ACRYLIC LED LENSES w/KSH-34 ACRYLIC LENS & CLEAR

[LUMCAT] MSTG-24-L114-GRN-CS-SASY-DIM-120-GREEN ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8978
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	141.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.88
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.57 ft
Luminous Width (90-270)	3.57 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12042	9950	5481
55	7143	7815	3851
65	3788	4076	3067
75	2285	1896	1474
85	728	298	0

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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>
0	3527.091	3527.091	3527.091	3527.091	3527.091	3527.091	3527.091	3527.091	3527.091
5	3711.812	3698.773	3658.025	3617.821	3555.342	3490.146	3426.581	3343.456	3320.637
10	3860.132	3827.534	3740.607	3637.380	3509.705	3390.180	3303.795	3194.592	3153.845
15	3988.894	3935.651	3806.346	3614.018	3426.581	3272.827	3144.609	3020.737	2956.628
20	4112.766	4033.444	3838.944	3549.909	3297.819	3112.011	2934.353	2797.985	2662.160
25	4229.575	4145.364	3848.180	3449.942	3131.026	2896.865	2684.435	2494.281	2417.676
30	4291.511	4207.300	3861.762	3316.291	2950.108	2652.381	2392.684	2218.286	2200.357
35	4354.534	4227.945	3846.007	3151.672	2712.687	2351.394	2129.185	1921.102	1930.338
40	4580.545	4364.313	3784.071	2988.139	2391.598	2021.069	1831.458	1667.382	1707.042
45	4450.154	4178.505	3677.041	2811.567	2025.415	1653.256	1546.226	1475.597	1487.007
50	3122.877	3275.544	3128.310	2540.461	1582.627	1339.230	1314.781	1180.043	1132.233
55	2141.137	2286.741	2342.701	2134.075	1154.508	1059.974	1115.934	911.654	848.088
60	1300.655	1439.740	1472.338	1440.283	844.828	830.159	876.340	671.516	628.596
65	836.679	916.000	900.245	869.277	677.493	611.754	674.776	465.063	461.803
70	535.149	543.298	504.181	499.291	443.331	383.025	478.646	325.436	325.979
75	309.137	319.459	256.437	244.484	199.390	183.091	164.076	183.635	173.855
80	132.021	139.084	98.337	82.038	58.133	55.960	40.747	54.330	54.330
85	33.141	30.425	13.582	6.520	0.000	2.173	0.000	1.630	1.630
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1313.47	N.A.	14.60
0-30	2811.23	N.A.	31.30
0-40	4653.34	N.A.	51.80
0-60	7963.57	N.A.	88.70
0-80	8952.01	N.A.	99.70
0-90	8978.02	N.A.	100.00
10-90	8641.28	N.A.	96.20
20-40	3339.87	N.A.	37.20
20-50	5254.29	N.A.	58.50
40-70	4041.51	N.A.	45.00
60-80	988.44	N.A.	11.00
70-80	257.16	N.A.	2.90
80-90	26.01	N.A.	0.30
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	8978.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	336.74
10-20	976.73
20-30	1497.76
30-40	1842.12
40-50	1914.42
50-60	1395.81
60-70	731.28
70-80	257.16
80-90	26.01
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	100	108	104	101	98	100	97	95	96	94	92	93	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	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	73	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	36	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	30	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

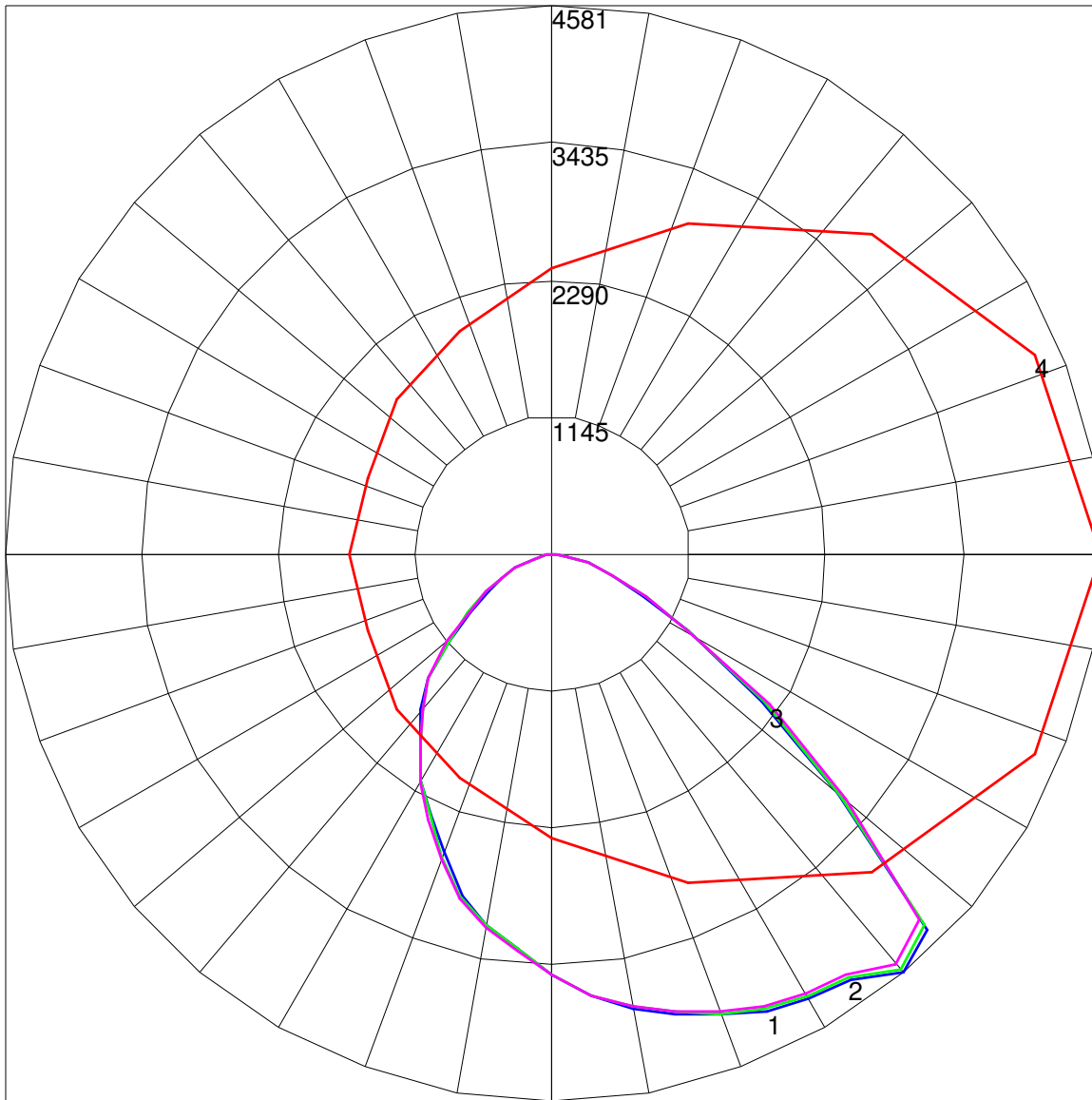
X=2H	Y=2H	19.5	21.0	19.8	21.3	21.6	17.3	18.9	17.7	19.2	19.5
	3H	20.1	21.5	20.5	21.8	22.2	18.1	19.5	18.5	19.8	20.2
	4H	20.3	21.5	20.7	21.9	22.3	18.2	19.5	18.6	19.9	20.3
	6H	20.3	21.5	20.7	21.9	22.3	18.3	19.4	18.7	19.8	20.2
	8H	20.3	21.4	20.8	21.8	22.2	18.2	19.3	18.7	19.7	20.1
	12H	20.3	21.4	20.7	21.8	22.2	18.2	19.3	18.6	19.6	20.1

UGR Viewed Endwise

4H	2H	19.7	21.0	20.1	21.3	21.7	17.7	19.0	18.1	19.3	19.7
	3H	20.5	21.5	20.9	21.9	22.3	18.6	19.7	19.0	20.1	20.5
	4H	20.7	21.6	21.1	22.0	22.5	18.8	19.8	19.2	20.2	20.6
	6H	20.8	21.6	21.3	22.1	22.5	18.9	19.7	19.3	20.1	20.6
	8H	20.8	21.6	21.3	22.0	22.5	18.8	19.6	19.3	20.0	20.5
	12H	20.8	21.5	21.3	21.9	22.4	18.8	19.5	19.3	19.9	20.4
8H	4H	20.7	21.5	21.2	21.9	22.4	18.9	19.6	19.3	20.1	20.5
	6H	20.8	21.5	21.3	21.9	22.4	18.9	19.5	19.4	20.0	20.5
	8H	20.9	21.4	21.4	21.9	22.4	18.9	19.4	19.4	19.9	20.4
	12H	20.8	21.3	21.4	21.8	22.4	18.8	19.3	19.3	19.8	20.4
12H	4H	20.7	21.3	21.1	21.8	22.3	18.8	19.5	19.3	20.0	20.4
	6H	20.8	21.4	21.3	21.8	22.4	18.9	19.4	19.4	19.9	20.4
	8H	20.8	21.3	21.3	21.8	22.4	18.8	19.3	19.4	19.8	20.4

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 4580.545 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.)