



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-24-L32-GRN-L121-840-CS-SASY-DIM-120-WHITE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19738.1

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 18-FEB-2020

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

[LUMINAIRE] 4-42 WHITE LED-ON,2-56 GREEN LED-OFF 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-WHITE ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9621
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	93.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.20
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	12631	6152	6180
55	9938	10045	3906
65	4643	5615	2508
75	2908	2707	1691
85	1212	1013	595

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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	4243.301	4243.301	4243.301	4243.301	4243.301	4243.301	4243.301	4243.301	4243.301
5	4434.190	4407.346	4379.508	4325.821	4266.168	4221.428	4171.718	4134.932	4125.984
10	4393.427	4370.560	4320.850	4234.353	4129.961	4003.696	3908.251	3858.541	3853.570
15	4315.879	4311.902	4266.168	4171.718	4030.539	3989.777	3768.067	3717.362	3699.467
20	4202.538	4198.561	4198.561	4094.169	3908.251	3649.756	3541.387	3445.942	3423.075
25	3812.807	3789.940	3799.882	3772.044	3591.097	3341.550	3187.447	3105.921	3096.973
30	3541.387	3500.624	3432.023	3445.942	3295.816	3024.396	2833.507	2716.190	2688.352
35	3150.661	3119.840	3010.477	2996.558	2911.056	2652.560	2411.961	2298.620	2275.754
40	2969.714	2778.825	2661.508	2597.879	2597.879	2262.829	2026.206	1963.571	1963.571
45	4625.079	3418.104	2252.887	2158.436	2262.829	1886.022	1754.786	1795.549	1818.416
50	4869.655	4570.397	2634.664	1591.735	1790.578	1537.053	1519.157	1563.897	1537.053
55	2951.818	2996.558	2983.633	1205.980	1160.247	1160.247	1255.691	1192.061	1142.351
60	1726.948	1882.045	1963.571	1382.950	793.382	938.537	1060.825	984.271	929.589
65	1016.086	1124.455	1228.847	993.219	548.806	720.804	802.330	738.700	720.804
70	639.279	653.198	720.804	589.568	371.836	490.147	534.887	557.753	557.753
75	389.731	403.650	362.888	308.206	226.681	262.472	322.125	371.836	385.755
80	190.889	212.762	171.999	140.184	108.369	118.311	159.074	176.970	176.970
85	54.682	54.682	45.734	45.734	26.844	26.844	45.734	45.734	54.682
90	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-WHITE ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1535.75	N.A.	16.00
0-30	3152.66	N.A.	32.80
0-40	4891.45	N.A.	50.80
0-60	8296.09	N.A.	86.20
0-80	9553.95	N.A.	99.30
0-90	9620.74	N.A.	100.00
10-90	9218.71	N.A.	95.80
20-40	3355.7	N.A.	34.90
20-50	5176.27	N.A.	53.80
40-70	4297.48	N.A.	44.70
60-80	1257.87	N.A.	13.10
70-80	365.03	N.A.	3.80
80-90	66.78	N.A.	0.70
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	9620.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	402.03
10-20	1133.72
20-30	1616.91
30-40	1738.79
40-50	1820.57
50-60	1584.07
60-70	892.84
70-80	365.03
80-90	66.78
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	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	75	69	90	81	74	69	79	73	68	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	65	58	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	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	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	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	21.2	22.8	21.6	23.1	23.4	16.1	17.6	16.5	18.0	18.3
	3H	21.7	23.1	22.1	23.4	23.8	17.2	18.6	17.6	18.9	19.3
	4H	21.9	23.2	22.3	23.5	23.9	17.4	18.7	17.8	19.1	19.5
	6H	21.9	23.1	22.4	23.5	23.9	17.5	18.7	18.0	19.1	19.5
	8H	21.9	23.1	22.4	23.5	23.9	17.5	18.7	18.0	19.1	19.5
	12H	21.9	23.0	22.4	23.4	23.8	17.5	18.6	18.0	19.0	19.4

UGR Viewed Endwise

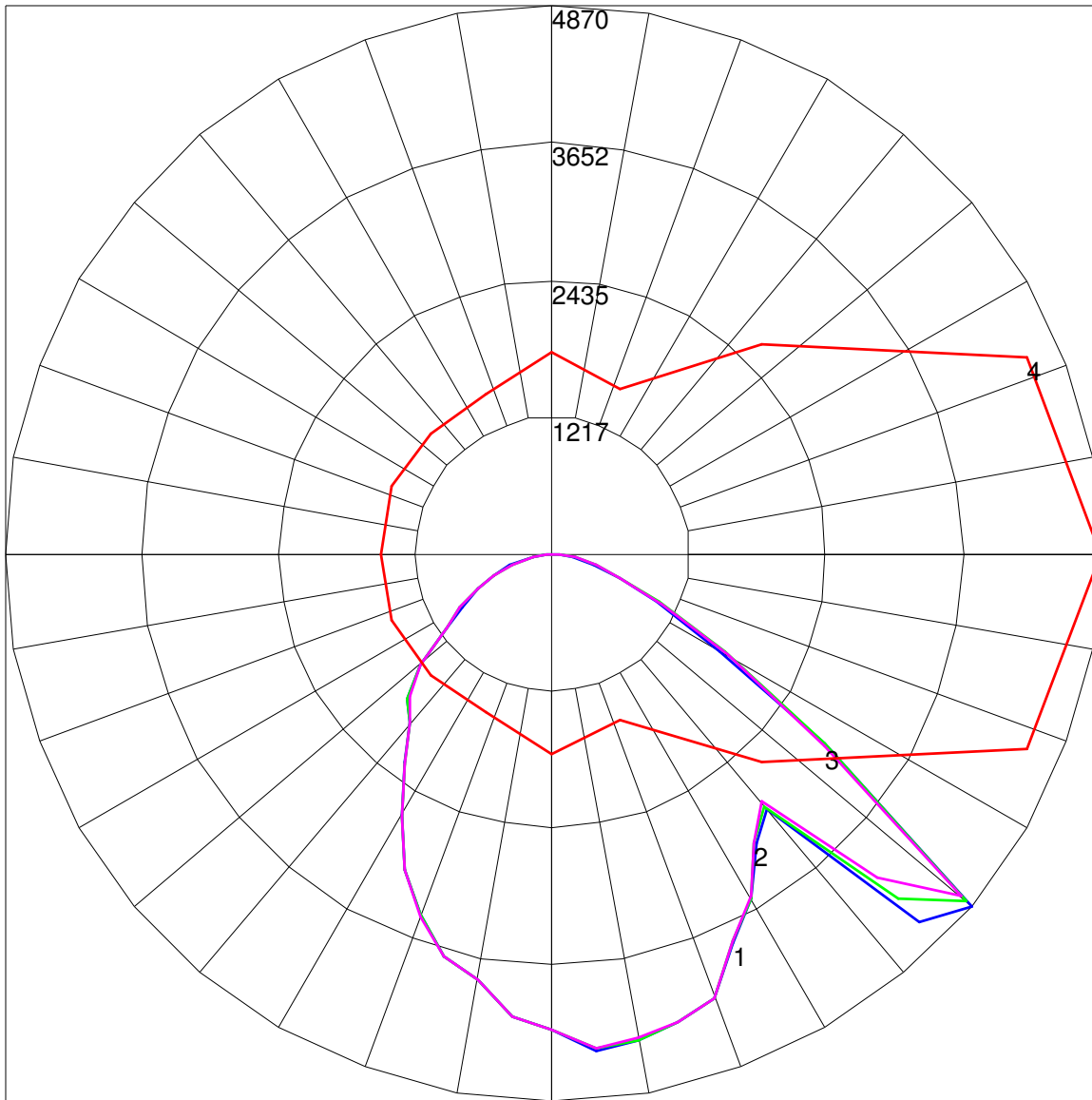
4H	2H	21.5	22.8	21.9	23.1	23.5	17.1	18.4	17.5	18.8	19.1
	3H	22.1	23.2	22.5	23.6	24.0	18.3	19.4	18.7	19.8	20.2
	4H	22.3	23.3	22.8	23.7	24.1	18.6	19.6	19.1	20.0	20.4
	6H	22.5	23.3	22.9	23.7	24.2	18.8	19.6	19.2	20.1	20.5
	8H	22.5	23.3	22.9	23.7	24.2	18.8	19.6	19.2	20.0	20.5
	12H	22.5	23.2	23.0	23.7	24.1	18.8	19.5	19.3	20.0	20.4
8H	4H	22.3	23.1	22.8	23.6	24.0	18.8	19.6	19.3	20.1	20.5
	6H	22.5	23.2	23.0	23.7	24.1	19.0	19.7	19.5	20.2	20.7
	8H	22.6	23.1	23.1	23.7	24.1	19.1	19.7	19.6	20.2	20.7
	12H	22.6	23.1	23.1	23.6	24.1	19.1	19.6	19.6	20.1	20.7
12H	4H	22.3	23.0	22.8	23.5	24.0	18.8	19.5	19.3	20.0	20.5
	6H	22.5	23.1	23.0	23.5	24.1	19.1	19.6	19.6	20.1	20.6
	8H	22.6	23.1	23.1	23.6	24.1	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 24.2

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POLAR GRAPH



Maximum Candela = 4869.655 Located At Horizontal Angle = 0, Vertical Angle = 50

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 (50) (Through Max. Cd.)