



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-14-L37-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-FEB-2020
 [MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 4-42 LED 22" ARRAYS 1x4' RECESSED ASYMM WHITE REFL
 [MORE] LUMINAIRE W/FROST ACRYLIC LED LENSES w/KSH-34 ACRYLIC LENS
 [MORE] AND LOWER CLEAR ACRYLIC LENS
 [LUMCAT] MSTG-14-L37-GRN-CS-SASY-DIM-120-GREEN ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3069
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	52.4
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)	0.57 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	11300	9337	5143
55	6703	7334	3614
65	3555	3825	2878
75	2145	1779	1383
85	683	280	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	1205.685	1205.685	1205.685	1205.685	1205.685	1205.685	1205.685	1205.685	1205.685
5	1268.829	1264.372	1250.443	1236.700	1215.342	1193.056	1171.327	1142.912	1135.112
10	1319.531	1308.388	1278.673	1243.386	1199.742	1158.884	1129.355	1092.025	1078.096
15	1363.546	1345.346	1301.144	1235.400	1171.327	1118.769	1074.939	1032.595	1010.681
20	1405.890	1378.775	1312.288	1213.485	1127.312	1063.796	1003.066	956.451	910.021
25	1445.819	1417.033	1315.445	1179.313	1070.296	990.252	917.636	852.634	826.448
30	1466.991	1438.205	1320.088	1133.626	1008.452	906.678	817.905	758.289	752.160
35	1488.535	1445.262	1314.702	1077.354	927.293	803.790	727.831	656.701	659.858
40	1565.793	1491.877	1293.530	1021.452	817.533	690.873	626.057	569.970	583.528
45	1521.221	1428.362	1256.943	961.094	692.359	565.142	528.555	504.412	508.312
50	1067.510	1119.697	1069.368	868.420	540.998	457.796	449.439	403.381	387.038
55	731.917	781.690	800.819	729.503	394.652	362.337	381.466	311.636	289.907
60	444.610	492.154	503.297	492.340	288.792	283.778	299.564	229.548	214.876
65	286.007	313.122	307.736	297.150	231.591	209.119	230.662	158.975	157.861
70	182.933	185.719	172.347	170.675	151.546	130.932	163.618	111.245	111.431
75	105.674	109.203	87.659	83.573	68.159	62.587	56.087	62.773	59.430
80	45.130	47.544	33.615	28.044	19.872	19.129	13.929	18.572	18.572
85	11.329	10.400	4.643	2.229	0.000	0.743	0.000	0.557	0.557
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	448.99	N.A.	14.60
0-30	960.98	N.A.	31.30
0-40	1590.68	N.A.	51.80
0-60	2722.23	N.A.	88.70
0-80	3060.12	N.A.	99.70
0-90	3069.01	N.A.	100.00
10-90	2953.9	N.A.	96.20
20-40	1141.69	N.A.	37.20
20-50	1796.1	N.A.	58.50
40-70	1381.53	N.A.	45.00
60-80	337.88	N.A.	11.00
70-80	87.91	N.A.	2.90
80-90	8.89	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	3069.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.11
10-20	333.88
20-30	511.99
30-40	629.70
40-50	654.42
50-60	477.14
60-70	249.98
70-80	87.91
80-90	8.89
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	19.3	20.8	19.7	21.1	21.4	17.1	18.7	17.5	19.0	19.3
	3H	19.9	21.3	20.3	21.6	22.0	17.9	19.3	18.3	19.6	20.0
	4H	20.1	21.3	20.5	21.7	22.1	18.1	19.3	18.5	19.7	20.1
	6H	20.1	21.3	20.5	21.7	22.1	18.1	19.2	18.5	19.6	20.0
	8H	20.1	21.2	20.6	21.6	22.0	18.0	19.2	18.5	19.5	19.9
	12H	20.1	21.2	20.5	21.6	22.0	18.0	19.1	18.4	19.5	19.9

UGR Viewed Endwise

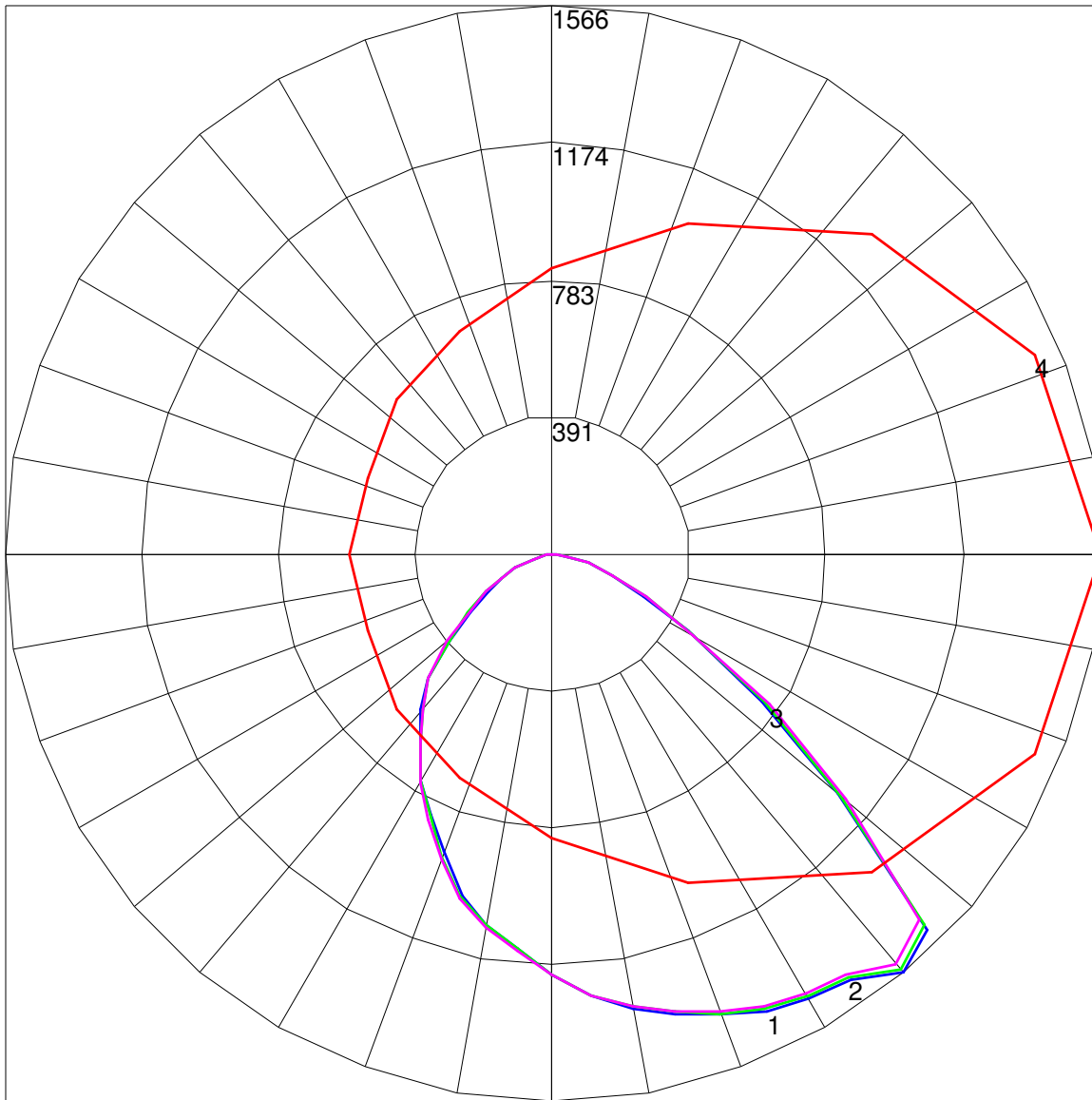
4H	2H	19.5	20.8	19.9	21.1	21.5	17.5	18.8	17.9	19.2	19.5
	3H	20.3	21.3	20.7	21.7	22.1	18.4	19.5	18.9	19.9	20.3
	4H	20.5	21.4	20.9	21.9	22.3	18.6	19.6	19.1	20.0	20.4
	6H	20.6	21.4	21.1	21.9	22.3	18.7	19.5	19.1	19.9	20.4
	8H	20.6	21.4	21.1	21.8	22.3	18.6	19.4	19.1	19.8	20.3
	12H	20.6	21.3	21.1	21.8	22.2	18.6	19.3	19.1	19.8	20.2
8H	4H	20.5	21.3	21.0	21.7	22.2	18.7	19.4	19.1	19.9	20.3
	6H	20.7	21.3	21.1	21.8	22.2	18.7	19.3	19.2	19.8	20.3
	8H	20.7	21.2	21.2	21.7	22.2	18.7	19.2	19.2	19.7	20.2
	12H	20.7	21.1	21.2	21.6	22.2	18.6	19.1	19.1	19.6	20.2
12H	4H	20.5	21.2	21.0	21.6	22.1	18.6	19.3	19.1	19.8	20.3
	6H	20.6	21.2	21.1	21.6	22.2	18.7	19.2	19.2	19.7	20.2
	8H	20.6	21.1	21.1	21.6	22.2	18.7	19.1	19.2	19.6	20.2

Maximum UGR = 22.3

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POLAR GRAPH



Maximum Candela = 1565.793 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.)