



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-14-L37-GRN-CS-SSYM-DIM-120-GREEN ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN friom BALLABS TEST NO. 19835.0

[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 WHITE REFLECTOR LUMINAIRE

[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR

[LUMCAT] MSTG-14-L37-GRN-CS-SSYM-DIM-120 GREEN ONLY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3766
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	52.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.57 ft
Luminous Width (90-270)	0.57 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6995	6957	6768
55	5783	5668	5350
65	4193	4143	3844
75	2496	2570	2548
85	545	752	774

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1640.615	1640.615	1640.615	1640.615	1640.615
<b>5</b>	1648.755	1638.445	1628.858	1625.059	1625.421
<b>10</b>	1624.155	1612.940	1606.609	1602.449	1603.172
<b>15</b>	1584.179	1573.869	1570.975	1562.112	1566.634
<b>20</b>	1526.297	1517.976	1518.338	1505.857	1511.102
<b>25</b>	1447.251	1442.367	1439.834	1427.353	1434.227
<b>30</b>	1352.467	1349.935	1341.434	1325.516	1333.294
<b>35</b>	1234.350	1236.883	1221.146	1195.822	1210.293
<b>40</b>	1093.623	1105.742	1080.418	1052.201	1069.565
<b>45</b>	941.681	955.428	936.616	902.429	911.111
<b>50</b>	787.568	780.513	782.865	744.879	743.794
<b>55</b>	631.465	616.271	618.984	583.893	584.254
<b>60</b>	476.809	466.137	463.243	431.408	437.015
<b>65</b>	337.348	330.655	333.369	309.130	309.311
<b>70</b>	220.678	214.166	221.944	212.177	207.293
<b>75</b>	123.001	121.735	126.619	131.141	125.533
<b>80</b>	52.095	50.286	56.978	65.118	58.245
<b>85</b>	9.044	10.129	12.481	18.450	12.843
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	598.00	N.A.	15.90
0-30	1259.19	N.A.	33.40
0-40	2019.59	N.A.	53.60
0-60	3279.36	N.A.	87.10
0-80	3743.46	N.A.	99.40
0-90	3766.01	N.A.	100.00
10-90	3610.93	N.A.	95.90
20-40	1421.59	N.A.	37.70
20-50	2137.05	N.A.	56.70
40-70	1585.68	N.A.	42.10
60-80	464.10	N.A.	12.30
70-80	138.18	N.A.	3.70
80-90	22.55	N.A.	0.60
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	3766.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	155.08
10-20	442.92
20-30	661.19
30-40	760.40
40-50	715.45
50-60	544.31
60-70	325.92
70-80	138.18
80-90	22.55
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	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

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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	17.6	19.1	18.0	19.5	19.8	17.2	18.7	17.5	19.0	19.3
	3H	18.7	20.1	19.1	20.4	20.8	18.3	19.6	18.6	20.0	20.3
	4H	19.0	20.3	19.4	20.6	21.0	18.6	19.9	19.0	20.2	20.6
	6H	19.1	20.3	19.5	20.6	21.0	18.8	19.9	19.2	20.3	20.7
	8H	19.1	20.2	19.5	20.6	21.0	18.8	19.9	19.2	20.3	20.7
	12H	19.1	20.1	19.5	20.5	21.0	18.8	19.9	19.2	20.2	20.7

### UGR Viewed Endwise

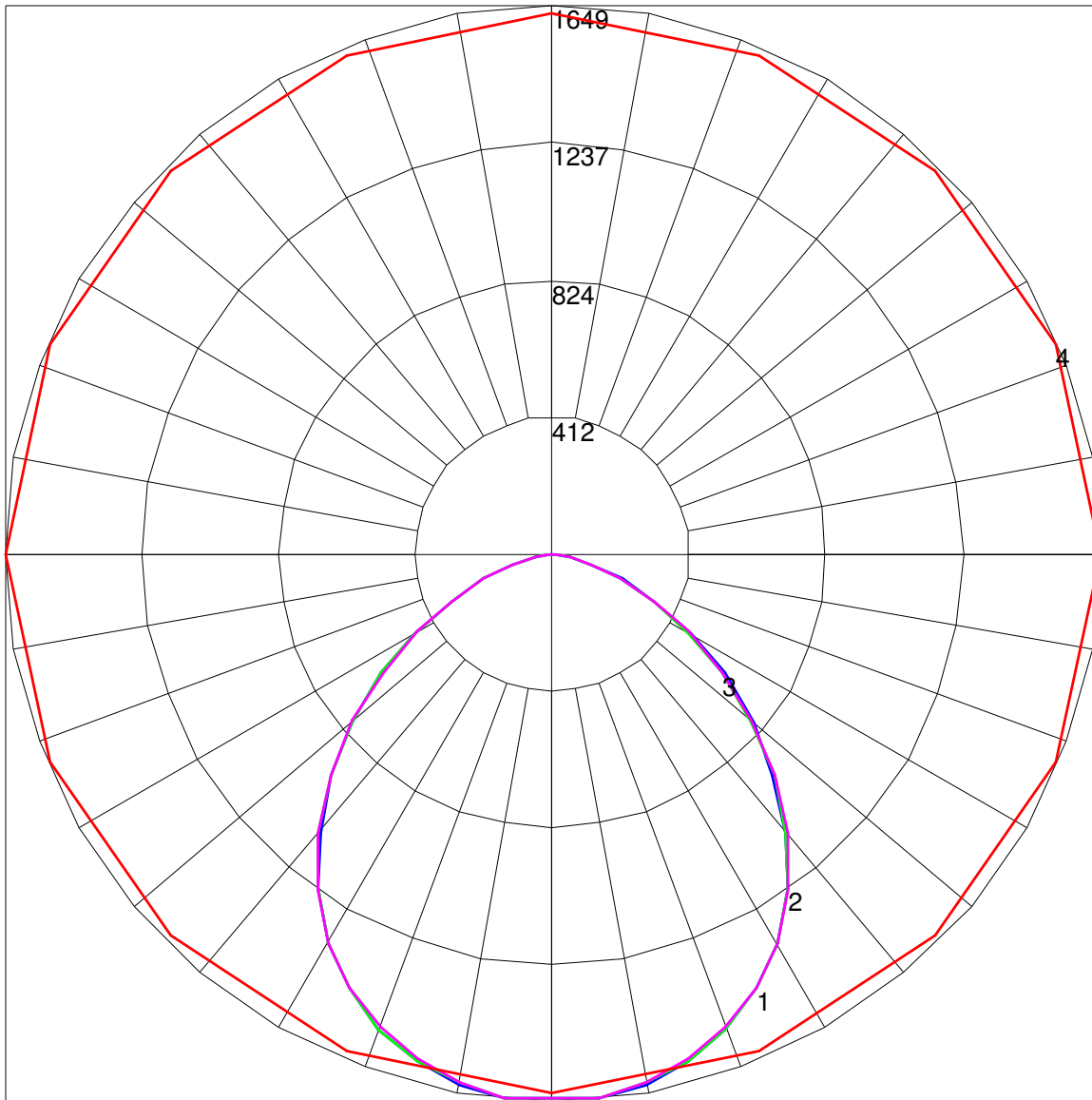
4H	2H	18.0	19.3	18.4	19.6	20.0	17.6	18.9	18.0	19.2	19.6
	3H	19.3	20.3	19.7	20.7	21.1	18.9	20.0	19.3	20.4	20.8
	4H	19.6	20.6	20.1	21.0	21.4	19.4	20.3	19.8	20.7	21.2
	6H	19.8	20.6	20.3	21.1	21.5	19.6	20.4	20.1	20.9	21.3
	8H	19.8	20.6	20.3	21.0	21.5	19.6	20.4	20.1	20.9	21.3
	12H	19.8	20.5	20.3	20.9	21.4	19.6	20.3	20.1	20.8	21.3
8H	4H	19.7	20.5	20.2	20.9	21.4	19.5	20.2	19.9	20.7	21.2
	6H	19.9	20.6	20.4	21.1	21.5	19.8	20.4	20.3	20.9	21.4
	8H	20.0	20.5	20.5	21.0	21.5	19.9	20.4	20.4	20.9	21.4
	12H	20.0	20.5	20.5	20.9	21.5	19.9	20.4	20.4	20.9	21.4
12H	4H	19.7	20.4	20.2	20.9	21.3	19.5	20.1	19.9	20.6	21.1
	6H	19.9	20.5	20.5	21.0	21.5	19.8	20.4	20.3	20.8	21.4
	8H	20.0	20.5	20.5	21.0	21.5	19.9	20.4	20.4	20.9	21.4

Maximum UGR = 21.5

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## POLAR GRAPH



Maximum Candela = 1648.755 Located At Horizontal Angle = 0, Vertical Angle = 5

# 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 (5) (Through Max. Cd.)