



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-24-L114-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] 6-42 LED 22" ARRAYS 2x4' RECESSED WHITE REFLECTOR LUMINAIRE

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

[LUMCAT] MSTG-24-L114-GRN-CS-SSYM-DIM-120

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11466
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	141.9
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)	1.57 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7758	7716	7506
55	6413	6287	5934
65	4650	4595	4264
75	2769	2850	2826
85	605	834	858

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	4995.034	4995.034	4995.034	4995.034	4995.034
5	5019.816	4988.425	4959.237	4947.672	4948.773
10	4944.918	4910.774	4891.499	4878.832	4881.035
15	4823.209	4791.818	4783.007	4756.021	4769.789
20	4646.979	4621.646	4622.747	4584.747	4600.718
25	4406.314	4391.444	4383.734	4345.735	4366.662
30	4117.736	4110.026	4084.142	4035.679	4059.360
35	3758.116	3765.826	3717.913	3640.813	3684.870
40	3329.656	3366.554	3289.453	3203.541	3256.410
45	2867.050	2908.905	2851.630	2747.544	2773.979
50	2397.837	2376.358	2383.518	2267.867	2264.562
55	1922.565	1876.304	1884.565	1777.725	1778.827
60	1451.699	1419.206	1410.395	1313.468	1330.540
65	1027.094	1006.717	1014.978	941.181	941.732
70	671.879	652.053	675.734	645.995	631.126
75	374.490	370.635	385.504	399.272	382.200
80	158.607	153.100	173.477	198.259	177.332
85	27.536	30.840	38.000	56.173	39.101
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1820.67	N.A.	15.90
0-30	3833.74	N.A.	33.40
0-40	6148.87	N.A.	53.60
0-60	9984.36	N.A.	87.10
0-80	11397.38	N.A.	99.40
0-90	11466.03	N.A.	100.00
10-90	10993.88	N.A.	95.90
20-40	4328.2	N.A.	37.70
20-50	6506.48	N.A.	56.70
40-70	4827.79	N.A.	42.10
60-80	1413.01	N.A.	12.30
70-80	420.72	N.A.	3.70
80-90	68.66	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	11466.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	472.15
10-20	1348.52
20-30	2013.07
30-40	2315.14
40-50	2178.28
50-60	1657.21
60-70	992.30
70-80	420.72
80-90	68.66
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

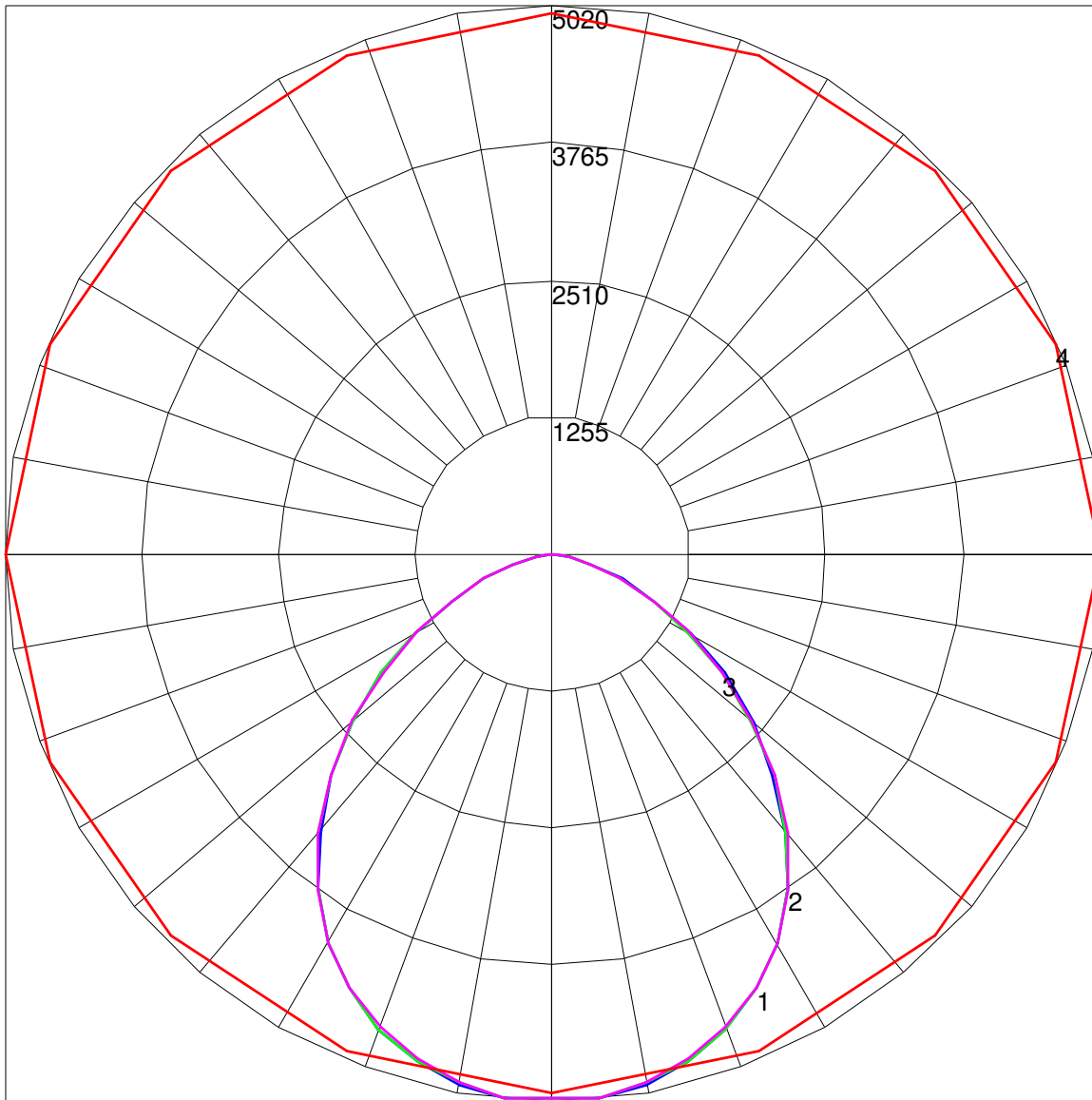
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.0	19.5	18.4	19.8	20.2	17.5	19.1	17.9	19.4	19.7
	3H	19.1	20.5	19.5	20.8	21.1	18.7	20.0	19.0	20.3	20.7
	4H	19.4	20.6	19.8	21.0	21.4	19.0	20.3	19.4	20.6	21.0
	6H	19.5	20.7	19.9	21.0	21.4	19.2	20.3	19.6	20.7	21.1
	8H	19.5	20.6	19.9	21.0	21.4	19.2	20.3	19.6	20.7	21.1
	12H	19.5	20.5	19.9	20.9	21.3	19.2	20.2	19.6	20.6	21.1
4H	2H	18.4	19.7	18.8	20.0	20.4	18.0	19.3	18.4	19.6	20.0
	3H	19.7	20.7	20.1	21.1	21.5	19.3	20.4	19.7	20.8	21.2
	4H	20.0	21.0	20.5	21.4	21.8	19.8	20.7	20.2	21.1	21.5
	6H	20.2	21.0	20.7	21.4	21.9	20.0	20.8	20.5	21.3	21.7
	8H	20.2	21.0	20.6	21.4	21.9	20.0	20.8	20.5	21.2	21.7
	12H	20.2	20.9	20.7	21.3	21.8	20.0	20.7	20.5	21.2	21.7
8H	4H	20.1	20.9	20.6	21.3	21.8	19.9	20.6	20.3	21.1	21.5
	6H	20.3	21.0	20.8	21.4	21.9	20.2	20.8	20.7	21.3	21.8
	8H	20.4	20.9	20.9	21.4	21.9	20.3	20.8	20.8	21.3	21.8
	12H	20.4	20.8	20.9	21.3	21.9	20.3	20.8	20.8	21.3	21.8
12H	4H	20.1	20.8	20.6	21.3	21.7	19.9	20.5	20.3	21.0	21.5
	6H	20.3	20.9	20.9	21.4	21.9	20.2	20.7	20.7	21.2	21.7
	8H	20.4	20.9	20.9	21.4	21.9	20.3	20.8	20.8	21.3	21.8

Maximum UGR = 21.9

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POLAR GRAPH



Maximum Candela = 5019.816 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.)