



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-24-L114-GRN-CS-SSYM-ASY-DIM1-120-GREEN ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 20165.0
 [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 ASYMMETRIC LUMINAIRE
 [MORE] WHITE ASYMMETRIC REFL w/AF12125 LENS IN DOOR
 [LUMCAT] MSTG-24-L114-GRN-CS-SSYM-ASY-DIM1-120-GREEN ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11088
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	141.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.24
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	10580	9638	7445
55	8731	7941	6060
65	6702	6201	4819
75	4393	3961	3231
85	2274	2059	1595

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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	5037.952	5037.952	5037.952	5037.952	5037.952	5037.952	5037.952	5037.952	5037.952
5	5122.542	5094.345	5033.072	4955.532	4880.160	4823.767	4751.107	4701.763	4680.616
10	5206.589	5164.294	5068.318	4934.384	4772.254	4619.343	4476.191	4377.504	4337.378
15	5319.375	5272.742	5152.907	4976.679	4763.036	4534.753	4342.258	4206.156	4156.812
20	5122.542	5037.952	4849.795	4569.999	4236.521	3867.798	3557.637	3348.332	3282.721
25	4988.608	4913.237	4715.861	4424.679	4074.392	3679.641	3355.381	3146.077	3082.635
30	4915.406	4816.718	4596.026	4257.669	3855.869	3388.458	3021.904	2798.501	2730.179
35	4370.455	4276.647	4058.124	3712.717	3308.206	2850.014	2500.269	2298.013	2241.620
40	4151.932	4053.244	3822.792	3458.949	3028.953	2525.754	2178.178	1999.781	1959.655
45	3910.093	3806.525	3561.975	3193.251	2751.326	2220.473	1894.044	1738.964	1712.936
50	3310.918	3233.377	3012.143	2706.862	2316.992	1849.038	1586.052	1454.288	1440.190
55	2617.393	2546.901	2380.434	2131.003	1816.504	1433.140	1221.667	1130.028	1125.690
60	2013.879	1959.655	1851.750	1654.374	1423.922	1118.641	965.729	907.168	907.168
65	1480.315	1452.119	1369.698	1228.716	1064.417	831.796	716.841	690.814	692.983
70	998.806	977.659	916.386	819.867	726.059	568.810	498.319	491.269	498.319
75	594.295	580.197	535.733	484.220	437.045	338.358	305.281	310.161	319.379
80	307.992	305.281	270.036	251.599	223.403	164.299	155.081	159.961	169.179
85	103.568	103.568	93.808	79.709	72.660	49.344	49.344	58.562	58.562
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	1767.49	N.A.	15.90
0-30	3628.01	N.A.	32.70
0-40	5726.6	N.A.	51.60
0-60	9463.12	N.A.	85.30
0-80	10988.22	N.A.	99.10
0-90	11088.38	N.A.	100.00
10-90	10623.89	N.A.	95.80
20-40	3959.11	N.A.	35.70
20-50	6049.38	N.A.	54.60
40-70	4786.74	N.A.	43.20
60-80	1525.1	N.A.	13.80
70-80	474.88	N.A.	4.30
80-90	100.16	N.A.	0.90
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	11088.38	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	464.49
10-20	1303.00
20-30	1860.53
30-40	2098.58
40-50	2090.27
50-60	1646.25
60-70	1050.22
70-80	474.88
80-90	100.16
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	75	69	90	81	74	69	78	72	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	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	45	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	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	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	20.3	21.8	20.7	22.2	22.5	17.9	19.5	18.3	19.8	20.1
	3H	21.5	22.9	21.9	23.3	23.6	19.2	20.6	19.6	20.9	21.3
	4H	21.9	23.2	22.3	23.5	23.9	19.6	20.9	20.0	21.2	21.6
	6H	22.1	23.3	22.5	23.7	24.1	19.8	21.0	20.2	21.3	21.7
	8H	22.1	23.3	22.6	23.7	24.1	19.8	21.0	20.2	21.4	21.8
	12H	22.2	23.3	22.6	23.6	24.1	19.8	20.9	20.3	21.3	21.7

UGR Viewed Endwise

4H	2H	20.7	22.0	21.1	22.3	22.7	18.5	19.8	18.9	20.1	20.5
	3H	22.1	23.2	22.5	23.6	24.0	19.9	21.0	20.3	21.4	21.8
	4H	22.6	23.5	23.0	23.9	24.4	20.3	21.3	20.8	21.7	22.2
	6H	22.8	23.7	23.3	24.1	24.6	20.6	21.5	21.1	21.9	22.4
	8H	22.9	23.7	23.4	24.2	24.6	20.7	21.5	21.1	21.9	22.4
	12H	23.0	23.7	23.4	24.1	24.6	20.7	21.4	21.2	21.9	22.4

8H	4H	22.7	23.4	23.1	23.9	24.4	20.5	21.3	21.0	21.7	22.2
	6H	23.0	23.7	23.5	24.2	24.6	20.9	21.5	21.4	22.0	22.5
	8H	23.1	23.7	23.7	24.2	24.7	21.0	21.5	21.5	22.0	22.5
	12H	23.2	23.7	23.7	24.2	24.8	21.0	21.5	21.5	22.0	22.6

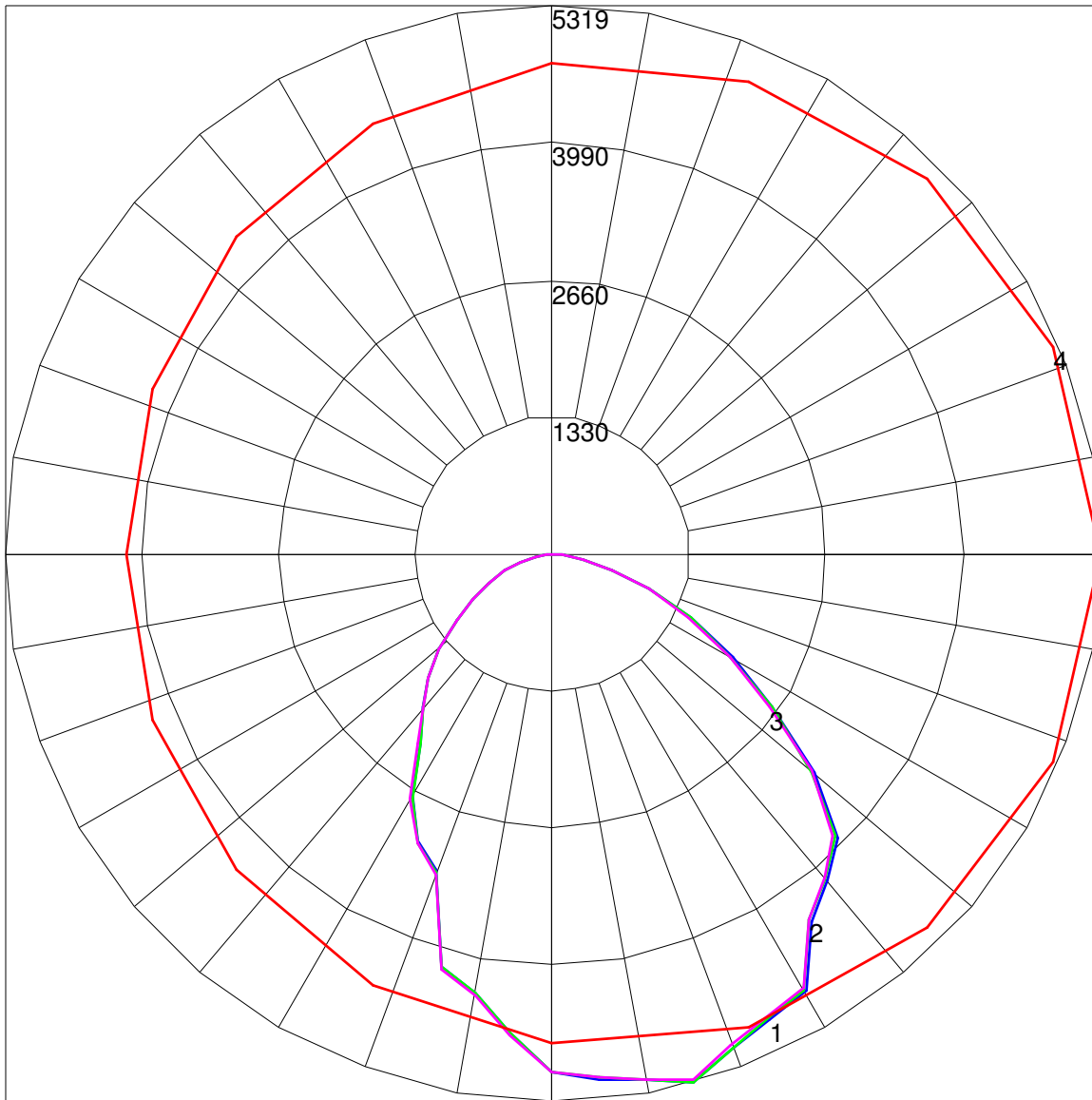
12H	4H	22.6	23.3	23.1	23.8	24.3	20.5	21.2	21.0	21.7	22.1
	6H	23.0	23.6	23.6	24.1	24.6	20.9	21.4	21.4	21.9	22.4
	8H	23.2	23.7	23.7	24.2	24.7	21.0	21.5	21.5	22.0	22.6

Maximum UGR = 24.8

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POLAR GRAPH



Maximum Candela = 5319.375 Located At Horizontal Angle = 0, Vertical Angle = 15

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 (15) (Through Max. Cd.)