



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-24-L32-GRN-L121-840-CS-SSYM-ASY-DIM-120-WHITE 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-L32-GRN-L121-840-SSYM-ASY-DIM-120-WHITE ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11807
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	93.8
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	11266	10263	7927
55	9297	8456	6452
65	7136	6603	5131
75	4678	4217	3440
85	2421	2193	1699

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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	5364.508	5364.508	5364.508	5364.508	5364.508	5364.508	5364.508	5364.508	5364.508
5	5454.580	5424.556	5359.311	5276.745	5196.488	5136.440	5059.070	5006.528	4984.010
10	5544.075	5499.039	5396.842	5254.227	5081.588	4918.765	4766.334	4661.250	4618.523
15	5664.172	5614.517	5486.914	5299.263	5071.772	4828.692	4623.720	4478.795	4426.253
20	5454.580	5364.508	5164.154	4866.222	4511.129	4118.506	3788.240	3565.368	3495.504
25	5311.966	5231.709	5021.540	4711.483	4338.490	3918.152	3572.874	3350.003	3282.448
30	5234.018	5128.934	4893.937	4533.647	4105.803	3608.095	3217.781	2979.897	2907.146
35	4653.744	4553.856	4321.169	3953.373	3522.642	3034.749	2662.334	2446.969	2386.920
40	4421.057	4315.972	4070.582	3683.155	3225.287	2689.471	2319.366	2129.405	2086.679
45	4163.542	4053.261	3792.859	3400.235	2929.665	2364.402	2016.815	1851.682	1823.967
50	3525.529	3442.962	3207.388	2882.319	2467.177	1968.892	1688.859	1548.553	1533.541
55	2787.050	2711.989	2534.731	2269.133	1934.248	1526.035	1300.854	1203.276	1198.657
60	2144.417	2086.679	1971.779	1761.609	1516.220	1191.151	1028.327	965.969	965.969
65	1576.268	1546.244	1458.481	1308.360	1133.412	885.713	763.306	735.592	737.901
70	1063.548	1041.030	975.785	873.010	773.122	605.680	530.619	523.113	530.619
75	632.817	617.805	570.459	515.607	465.374	360.290	325.069	330.266	340.081
80	327.956	325.069	287.539	267.908	237.884	174.948	165.133	170.329	180.145
85	110.281	110.281	99.888	84.876	77.370	52.542	52.542	62.358	62.358
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-SSYM-ASY-DIM-120-WHITE ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1882.05	N.A.	15.90
0-30	3863.18	N.A.	32.70
0-40	6097.79	N.A.	51.60
0-60	10076.51	N.A.	85.30
0-80	11700.46	N.A.	99.10
0-90	11807.12	N.A.	100.00
10-90	11312.52	N.A.	95.80
20-40	4215.73	N.A.	35.70
20-50	6441.5	N.A.	54.60
40-70	5097.01	N.A.	43.20
60-80	1623.95	N.A.	13.80
70-80	505.66	N.A.	4.30
80-90	106.65	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	11807.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	494.60
10-20	1387.46
20-30	1981.13
30-40	2234.61
40-50	2225.76
50-60	1752.96
60-70	1118.29
70-80	505.66
80-90	106.65
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	20.5	22.0	20.9	22.4	22.7	18.1	19.7	18.5	20.0	20.3
	3H	21.7	23.1	22.1	23.5	23.8	19.4	20.8	19.8	21.1	21.5
	4H	22.1	23.4	22.5	23.7	24.1	19.8	21.1	20.2	21.4	21.8
	6H	22.3	23.5	22.7	23.9	24.3	20.0	21.2	20.4	21.5	21.9
	8H	22.3	23.5	22.8	23.9	24.3	20.0	21.2	20.4	21.6	22.0
	12H	22.4	23.5	22.8	23.8	24.3	20.0	21.1	20.5	21.5	21.9

UGR Viewed Endwise

4H	2H	20.9	22.2	21.3	22.5	22.9	18.7	20.0	19.1	20.3	20.7
	3H	22.3	23.4	22.7	23.8	24.2	20.1	21.2	20.5	21.6	22.0
	4H	22.8	23.7	23.2	24.1	24.6	20.5	21.5	21.0	21.9	22.4
	6H	23.0	23.9	23.5	24.3	24.8	20.8	21.7	21.3	22.1	22.6
	8H	23.1	23.9	23.6	24.4	24.8	20.9	21.7	21.3	22.1	22.6
	12H	23.2	23.9	23.6	24.3	24.8	20.9	21.6	21.4	22.1	22.6

8H	4H	22.9	23.6	23.3	24.1	24.6	20.7	21.5	21.2	21.9	22.4
	6H	23.2	23.9	23.7	24.4	24.8	21.1	21.7	21.6	22.2	22.7
	8H	23.3	23.9	23.9	24.4	24.9	21.2	21.7	21.7	22.2	22.7
	12H	23.4	23.9	23.9	24.4	25.0	21.2	21.7	21.7	22.2	22.8

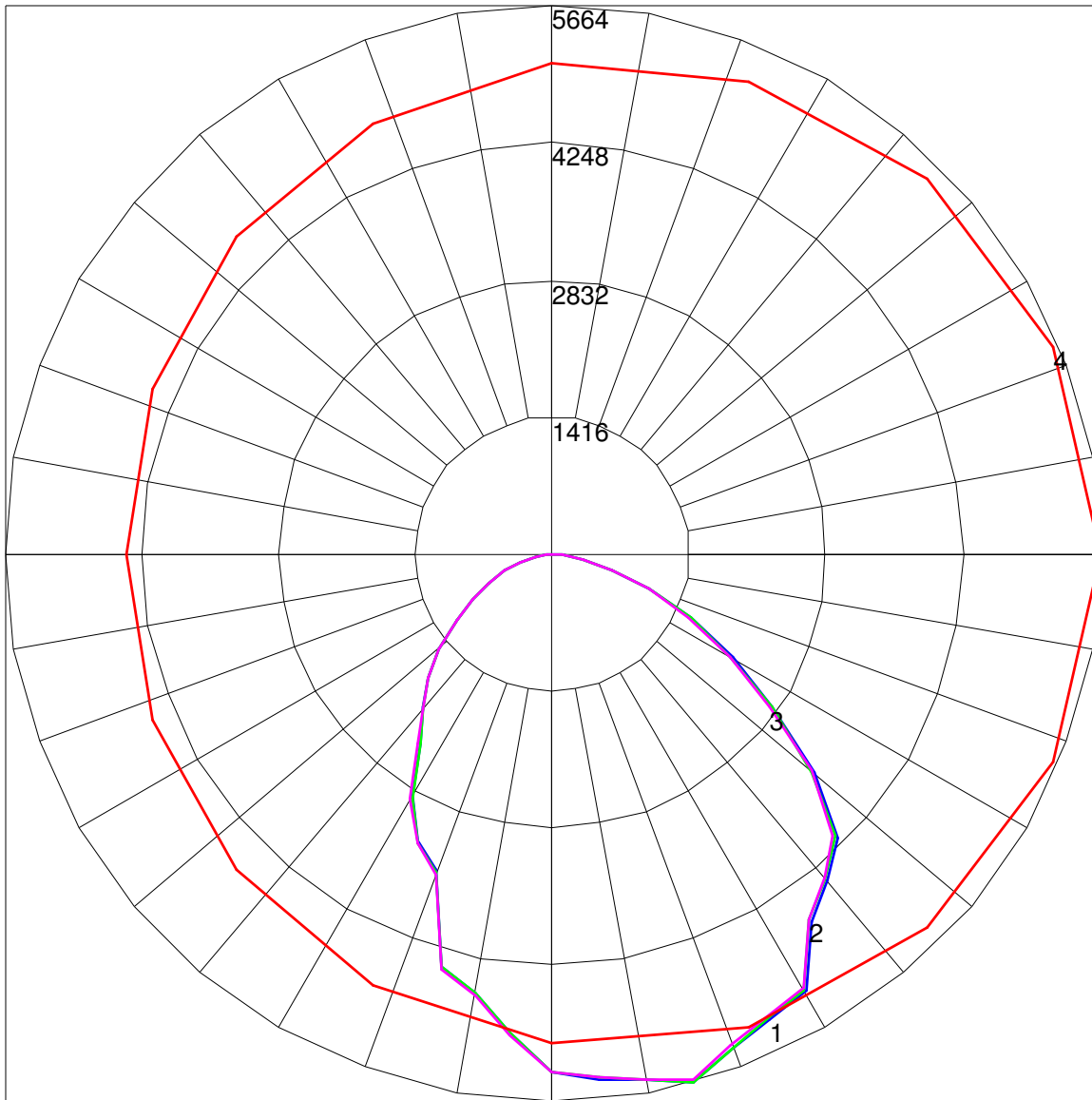
12H	4H	22.8	23.5	23.3	24.0	24.5	20.7	21.4	21.2	21.9	22.3
	6H	23.2	23.8	23.8	24.3	24.8	21.1	21.6	21.6	22.1	22.6
	8H	23.4	23.9	23.9	24.4	24.9	21.2	21.7	21.7	22.2	22.8

Maximum UGR = 25.0

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POLAR GRAPH



Maximum Candela = 5664.172 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.)