



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-24-L32-GRN-L121-840-CS-SSYM-DIM-120-WHITE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 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-L32-GRN-L121-840-CS-SSYM-DIM-120-WHITE ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12210
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	93.8
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	8261	8217	7993
55	6830	6695	6319
65	4952	4893	4540
75	2948	3035	3009
85	644	888	914

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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	5319.149	5319.149	5319.149	5319.149	5319.149
5	5345.540	5312.112	5281.030	5268.714	5269.887
10	5265.782	5229.422	5208.896	5195.407	5197.753
15	5136.175	5102.747	5093.364	5064.628	5079.289
20	4948.510	4921.533	4922.706	4882.240	4899.247
25	4692.229	4676.394	4668.184	4627.719	4650.004
30	4384.926	4376.716	4349.152	4297.544	4322.762
35	4001.971	4010.181	3959.160	3877.056	3923.972
40	3545.709	3585.001	3502.897	3411.410	3467.710
45	3053.086	3097.657	3036.665	2925.825	2953.975
50	2553.426	2530.555	2538.178	2415.023	2411.504
55	2047.315	1998.053	2006.850	1893.078	1894.251
60	1545.896	1511.295	1501.912	1398.696	1416.876
65	1093.739	1072.040	1080.837	1002.252	1002.839
70	715.475	694.363	719.581	687.912	672.078
75	398.790	394.684	410.519	425.180	407.000
80	168.899	163.035	184.733	211.124	188.839
85	29.323	32.841	40.465	59.818	41.638
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1938.81	N.A.	15.90
0-30	4082.5	N.A.	33.40
0-40	6547.86	N.A.	53.60
0-60	10632.22	N.A.	87.10
0-80	12136.92	N.A.	99.40
0-90	12210.04	N.A.	100.00
10-90	11707.25	N.A.	95.90
20-40	4609.05	N.A.	37.70
20-50	6928.67	N.A.	56.70
40-70	5141.05	N.A.	42.10
60-80	1504.7	N.A.	12.30
70-80	448.02	N.A.	3.70
80-90	73.11	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	12210.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	502.79
10-20	1436.02
20-30	2143.69
30-40	2465.36
40-50	2319.62
50-60	1764.75
60-70	1056.68
70-80	448.02
80-90	73.11
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	18.2	19.7	18.6	20.0	20.4	17.7	19.3	18.1	19.6	19.9
	3H	19.3	20.7	19.7	21.0	21.3	18.9	20.2	19.2	20.5	20.9
	4H	19.6	20.8	20.0	21.2	21.6	19.2	20.5	19.6	20.8	21.2
	6H	19.7	20.9	20.1	21.2	21.6	19.4	20.5	19.8	20.9	21.3
	8H	19.7	20.8	20.1	21.2	21.6	19.4	20.5	19.8	20.9	21.3
	12H	19.7	20.7	20.1	21.1	21.5	19.4	20.4	19.8	20.8	21.3

UGR Viewed Endwise

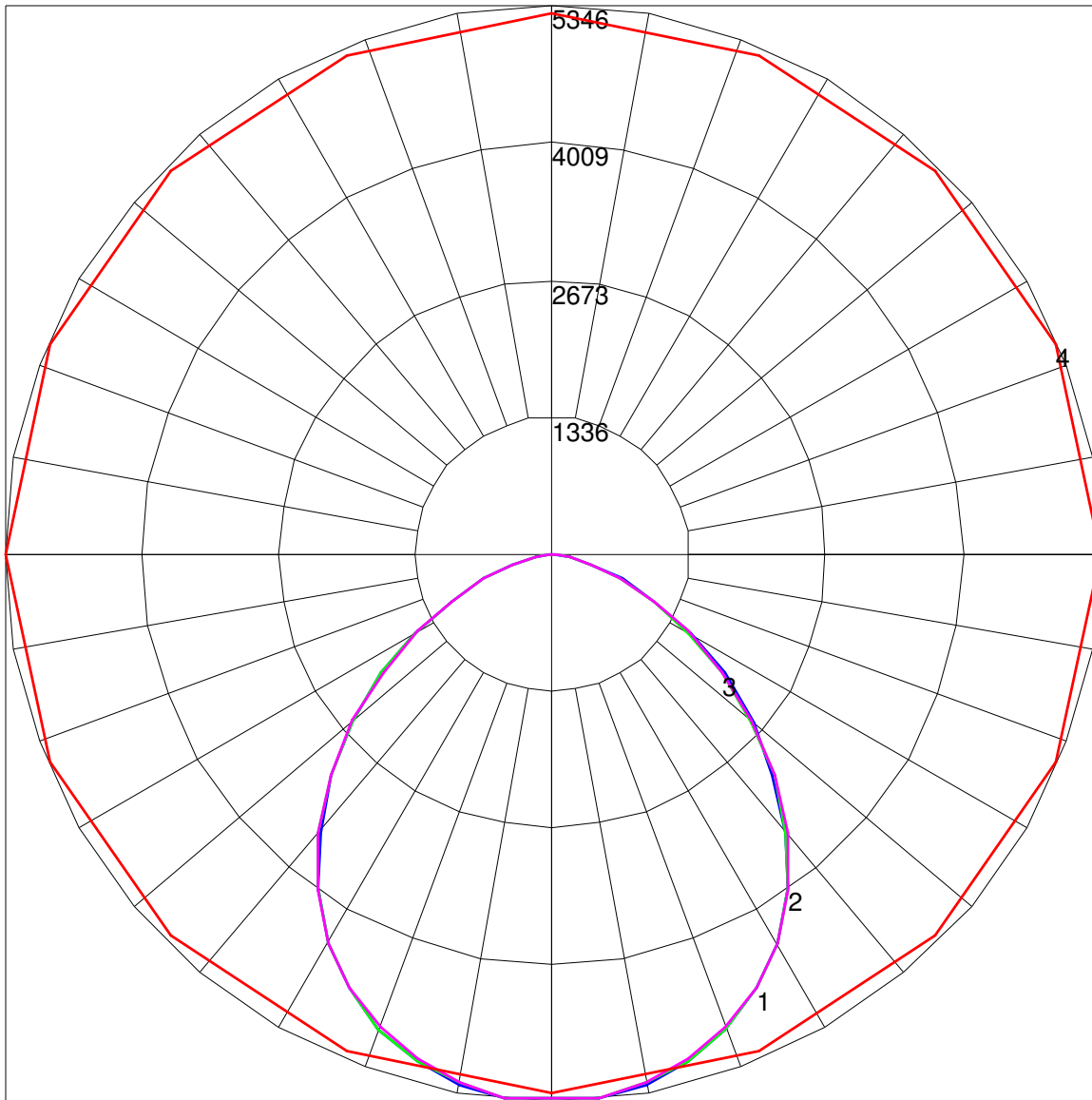
4H	2H	18.6	19.9	19.0	20.2	20.6	18.2	19.5	18.6	19.8	20.2
	3H	19.9	20.9	20.3	21.3	21.7	19.5	20.6	19.9	21.0	21.4
	4H	20.2	21.2	20.7	21.6	22.0	20.0	20.9	20.4	21.3	21.7
	6H	20.4	21.2	20.9	21.6	22.1	20.2	21.0	20.7	21.5	21.9
	8H	20.4	21.2	20.9	21.6	22.1	20.2	21.0	20.7	21.4	21.9
	12H	20.4	21.1	20.9	21.5	22.0	20.2	20.9	20.7	21.4	21.9
8H	4H	20.3	21.1	20.8	21.5	22.0	20.1	20.8	20.5	21.3	21.7
	6H	20.5	21.2	21.0	21.6	22.1	20.4	21.0	20.9	21.5	22.0
	8H	20.6	21.1	21.1	21.6	22.1	20.5	21.0	21.0	21.5	22.0
	12H	20.6	21.0	21.1	21.5	22.1	20.5	21.0	21.0	21.5	22.0
12H	4H	20.3	21.0	20.8	21.5	21.9	20.1	20.7	20.5	21.2	21.7
	6H	20.5	21.1	21.1	21.6	22.1	20.4	20.9	20.9	21.4	21.9
	8H	20.6	21.1	21.1	21.6	22.1	20.5	21.0	21.0	21.5	22.0

Maximum UGR = 22.1

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POLAR GRAPH



Maximum Candela = 5345.54 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.)