



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-22-L58-GRN-CS-SSYM-DIM-120-GREEN ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19833.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 18-FEB-2020

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 3-42 LED 22" ARRAYS 2x2' RECESSED WHITE REFLECTOR LUMINAIRE

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

[LUMCAT] MSTG-22-L58-GRN-CS-SSYM-DIM-120

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5906
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	79
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.57 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	8873	8850	8975
55	7059	6923	6956
65	5226	4946	4940
75	3513	3014	3098
85	1142	679	1111

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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	2625.851	2625.851	2625.851	2625.851	2625.851
5	2619.042	2618.423	2616.566	2610.995	2610.995
10	2573.854	2581.283	2579.425	2575.711	2572.616
15	2503.906	2514.429	2513.191	2518.762	2514.429
20	2407.340	2419.720	2418.482	2442.624	2427.148
25	2273.014	2290.347	2303.965	2325.630	2302.108
30	2105.881	2137.450	2152.307	2160.973	2142.403
35	1908.416	1948.652	1956.080	1943.700	1936.890
40	1691.142	1709.094	1710.332	1702.285	1714.046
45	1443.537	1442.918	1439.823	1437.347	1460.251
50	1188.504	1170.553	1174.886	1164.982	1184.171
55	931.614	918.615	913.663	918.615	917.996
60	697.008	683.390	682.771	692.056	690.199
65	508.209	499.543	480.973	498.305	480.354
70	341.695	340.457	309.506	337.362	310.125
75	209.226	201.179	179.514	198.084	184.466
80	94.709	92.852	76.758	84.805	89.757
85	22.903	24.761	13.618	17.332	22.284
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	957.42	N.A.	16.20
0-30	2015.73	N.A.	34.10
0-40	3226.27	N.A.	54.60
0-60	5164.73	N.A.	87.50
0-80	5871.49	N.A.	99.40
0-90	5905.72	N.A.	100.00
10-90	5657.3	N.A.	95.80
20-40	2268.85	N.A.	38.40
20-50	3380.77	N.A.	57.20
40-70	2433.65	N.A.	41.20
60-80	706.76	N.A.	12.00
70-80	211.57	N.A.	3.60
80-90	34.23	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	5905.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	248.41
10-20	709.01
20-30	1058.31
30-40	1210.55
40-50	1111.92
50-60	826.54
60-70	495.19
70-80	211.57
80-90	34.23
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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	38	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	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	18.5	20.0	20.3	18.2	19.7	18.6	20.0	20.3
	3H	19.3	20.7	19.7	21.0	21.4	19.3	20.6	19.6	20.9	21.3
	4H	19.7	21.0	20.1	21.3	21.7	19.6	20.8	20.0	21.2	21.6
	6H	19.9	21.0	20.3	21.4	21.8	19.7	20.9	20.1	21.2	21.6
	8H	19.9	21.0	20.3	21.4	21.8	19.7	20.8	20.1	21.2	21.6
	12H	19.9	20.9	20.3	21.3	21.8	19.7	20.8	20.2	21.2	21.6

UGR Viewed Endwise

4H	2H	18.5	19.8	18.9	20.2	20.5	18.6	19.8	19.0	20.2	20.5
	3H	19.9	20.9	20.3	21.3	21.7	19.8	20.9	20.3	21.3	21.7
	4H	20.3	21.3	20.8	21.7	22.1	20.2	21.2	20.6	21.6	22.0
	6H	20.6	21.4	21.0	21.8	22.3	20.4	21.2	20.9	21.7	22.2
	8H	20.6	21.4	21.1	21.8	22.3	20.5	21.2	20.9	21.7	22.1
	12H	20.6	21.3	21.1	21.8	22.2	20.5	21.1	21.0	21.6	22.1

8H	4H	20.4	21.2	20.9	21.6	22.1	20.3	21.1	20.8	21.5	22.0
	6H	20.7	21.3	21.2	21.8	22.3	20.6	21.2	21.1	21.7	22.2
	8H	20.8	21.3	21.3	21.8	22.3	20.6	21.2	21.1	21.7	22.2
	12H	20.8	21.3	21.3	21.8	22.4	20.6	21.1	21.1	21.6	22.2

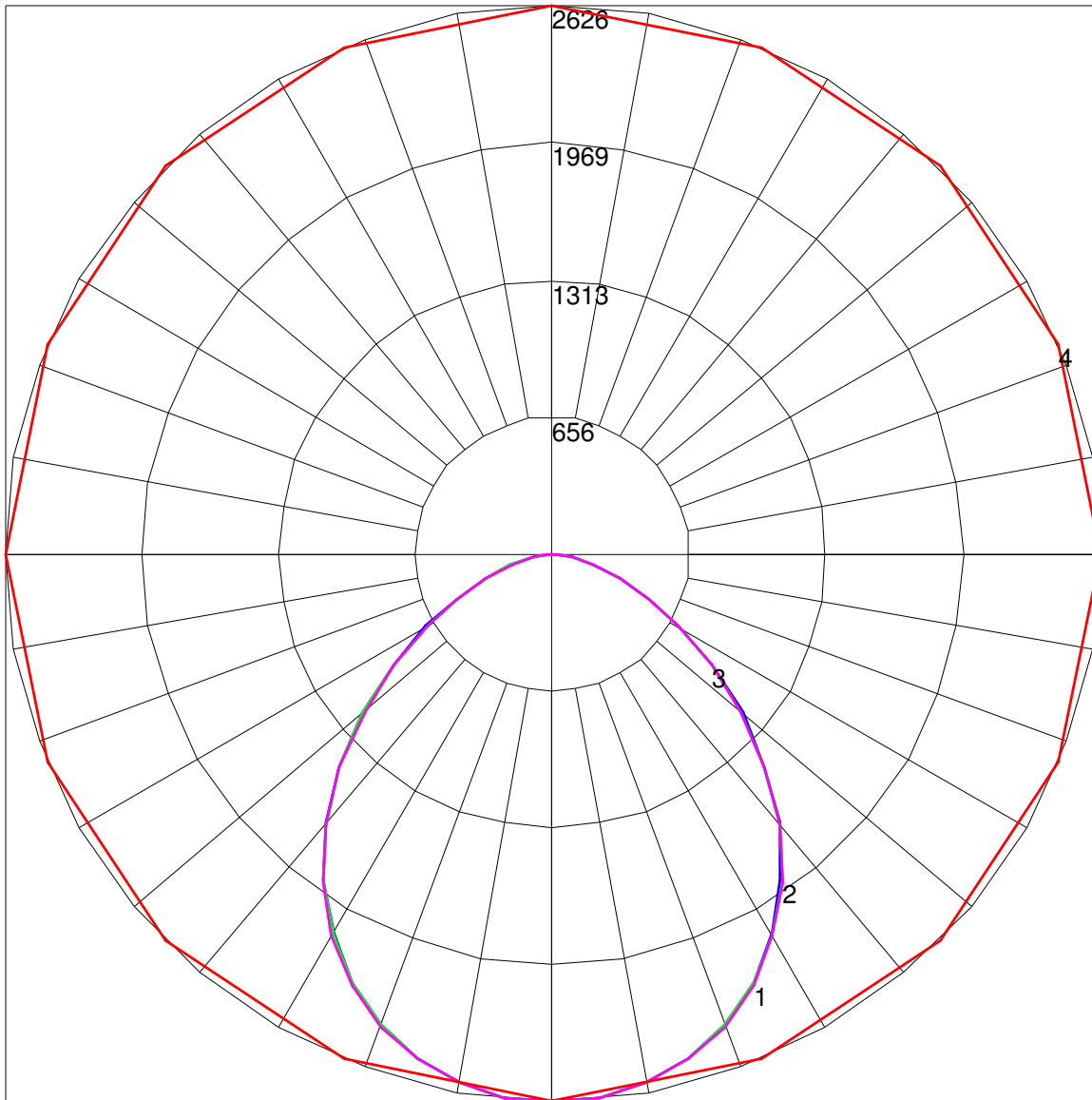
12H	4H	20.4	21.1	20.9	21.6	22.0	20.3	21.0	20.8	21.5	21.9
	6H	20.7	21.3	21.2	21.7	22.3	20.6	21.1	21.1	21.6	22.1
	8H	20.8	21.3	21.3	21.8	22.3	20.6	21.1	21.1	21.6	22.2

Maximum UGR = 22.4

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POLAR GRAPH



Maximum Candela = 2625.851 Located At Horizontal Angle = 0, Vertical Angle = 0

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 (0) (Through Max. Cd.)