



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-22-L58-GRN-CS-SSYM-ASY-DIM-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] 3-42 LED 22" ARRAYS 2x2' RECESSED ASYMMETRIC LUMINAIRE
 [MORE] WHITE ASYMMETRIC REFL w/AF12125 LENS IN DOOR
 [LUMCAT] MSTG-22-L58-GRN-CS-SSYM-ASY-DIM-120

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5717
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	79
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)	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	12391	11288	8719
55	10226	9300	7097
65	7849	7263	5644
75	5145	4638	3784
85	2663	2412	1868

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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	2597.517	2597.517	2597.517	2597.517	2597.517	2597.517	2597.517	2597.517	2597.517
5	2641.131	2626.593	2595.001	2555.022	2516.162	2487.086	2449.623	2424.182	2413.278
10	2684.465	2662.658	2613.174	2544.119	2460.526	2381.687	2307.879	2256.997	2236.308
15	2742.616	2718.573	2656.787	2565.926	2455.774	2338.073	2238.825	2168.652	2143.210
20	2641.131	2597.517	2500.505	2356.245	2184.308	1994.198	1834.282	1726.366	1692.538
25	2572.076	2533.215	2431.451	2281.320	2100.715	1897.186	1730.001	1622.085	1589.375
30	2534.334	2483.451	2369.665	2195.211	1988.047	1747.055	1558.063	1442.879	1407.653
35	2253.362	2204.996	2092.328	1914.240	1705.678	1469.438	1289.113	1184.832	1155.757
40	2140.694	2089.812	1970.993	1783.399	1561.698	1302.253	1123.047	1031.067	1010.379
45	2016.005	1962.606	1836.518	1646.408	1418.556	1144.853	976.550	896.592	883.173
50	1707.076	1667.097	1553.031	1395.631	1194.618	953.346	817.752	749.816	742.547
55	1349.501	1313.157	1227.328	1098.724	936.571	738.913	629.879	582.631	580.395
60	1038.336	1010.379	954.744	852.979	734.160	576.760	497.920	467.726	467.726
65	763.236	748.698	706.203	633.514	548.803	428.866	369.596	356.177	357.295
70	514.974	504.071	472.479	422.715	374.349	293.273	256.928	253.294	256.928
75	306.413	299.144	276.219	249.659	225.336	174.454	157.400	159.916	164.669
80	158.798	157.400	139.228	129.722	115.184	84.711	79.958	82.474	87.227
85	53.399	53.399	48.366	41.097	37.463	25.441	25.441	30.194	30.194
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	911.30	N.A.	15.90
0-30	1870.57	N.A.	32.70
0-40	2952.57	N.A.	51.60
0-60	4879.09	N.A.	85.30
0-80	5665.41	N.A.	99.10
0-90	5717.06	N.A.	100.00
10-90	5477.57	N.A.	95.80
20-40	2041.28	N.A.	35.70
20-50	3119.00	N.A.	54.60
40-70	2468.00	N.A.	43.20
60-80	786.32	N.A.	13.80
70-80	244.84	N.A.	4.30
80-90	51.64	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	5717.06	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	239.49
10-20	671.81
20-30	959.27
30-40	1082.01
40-50	1077.72
50-60	848.79
60-70	541.48
70-80	244.84
80-90	51.64
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	20.8	22.4	21.2	22.7	23.0	18.5	20.0	18.8	20.3	20.7
	3H	22.1	23.5	22.5	23.8	24.2	19.8	21.1	20.1	21.5	21.8
	4H	22.4	23.7	22.8	24.1	24.5	20.1	21.4	20.5	21.8	22.1
	6H	22.7	23.9	23.1	24.2	24.6	20.3	21.5	20.7	21.9	22.3
	8H	22.7	23.8	23.1	24.2	24.6	20.4	21.5	20.8	21.9	22.3
	12H	22.7	23.8	23.1	24.2	24.6	20.4	21.5	20.8	21.9	22.3

UGR Viewed Endwise

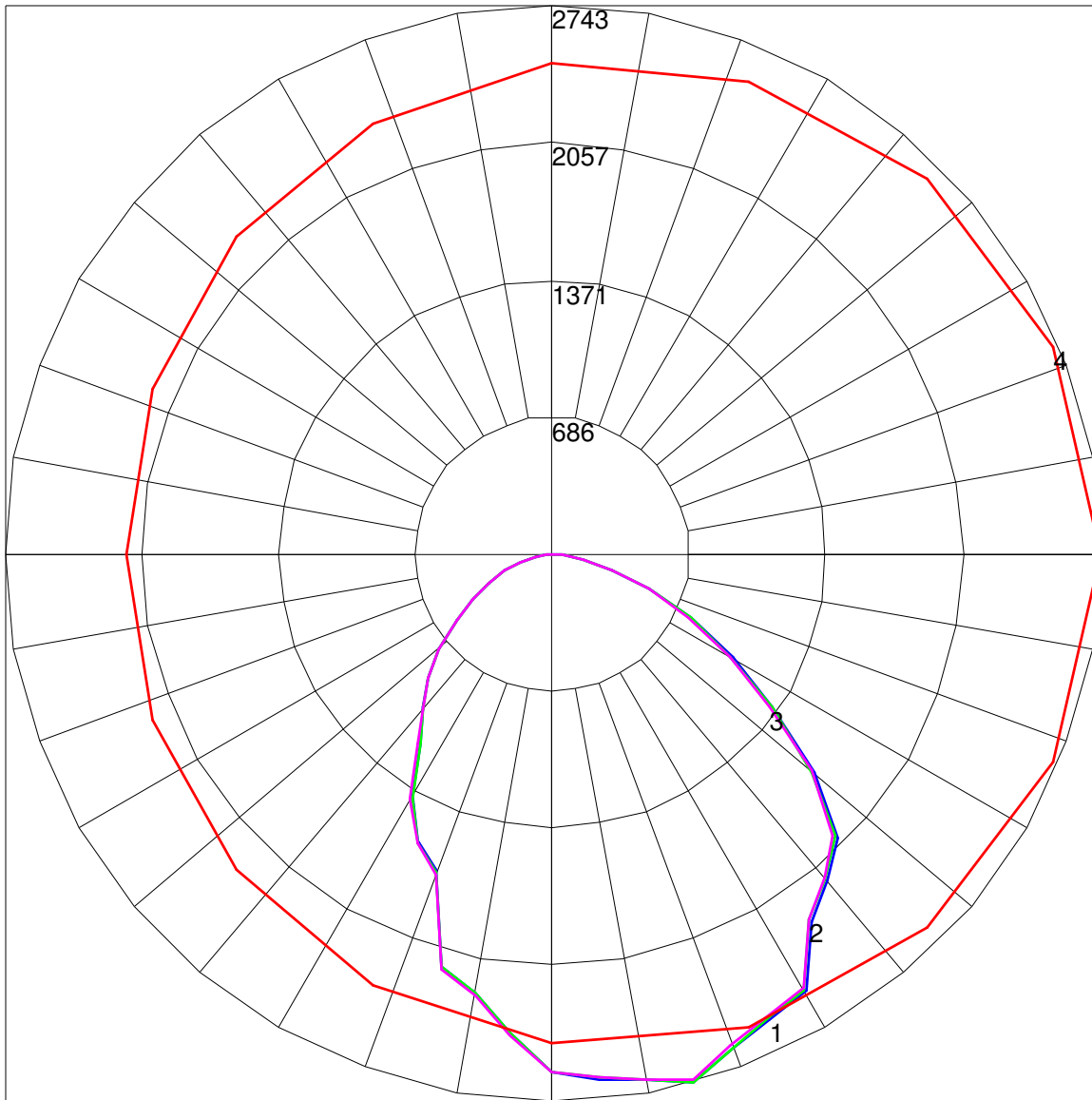
4H	2H	21.2	22.5	21.6	22.9	23.3	19.0	20.3	19.4	20.7	21.0
	3H	22.7	23.7	23.1	24.1	24.5	20.4	21.5	20.9	21.9	22.3
	4H	23.1	24.1	23.5	24.5	24.9	20.9	21.8	21.3	22.3	22.7
	6H	23.4	24.2	23.9	24.7	25.1	21.2	22.0	21.6	22.5	22.9
	8H	23.5	24.3	23.9	24.7	25.2	21.2	22.0	21.7	22.5	22.9
	12H	23.5	24.2	24.0	24.7	25.2	21.3	22.0	21.7	22.4	22.9
8H	4H	23.2	24.0	23.7	24.4	24.9	21.0	21.8	21.5	22.3	22.7
	6H	23.6	24.2	24.1	24.7	25.2	21.4	22.0	21.9	22.5	23.0
	8H	23.7	24.3	24.2	24.8	25.3	21.5	22.1	22.0	22.6	23.1
	12H	23.8	24.3	24.3	24.8	25.3	21.6	22.1	22.1	22.6	23.1
12H	4H	23.2	23.9	23.7	24.4	24.8	21.0	21.7	21.5	22.2	22.7
	6H	23.6	24.2	24.1	24.6	25.2	21.4	22.0	21.9	22.5	23.0
	8H	23.7	24.2	24.2	24.7	25.3	21.5	22.1	22.0	22.5	23.1

Maximum UGR = 25.3

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POLAR GRAPH



Maximum Candela = 2742.616 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.)