



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-22-L14-GRN-L57-840-CS-SASY-DIM-120-WHITE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19910.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 18-FEB-2020

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

[LUMINAIRE] 2-42 WHITE LED-ON, 1-56 GREEN LED-OFF 22" ARRAYS ON ASY WHITE

[MORE] REFLECTOR w/FROST ACRYLIC LED LENSES, 2x2' RECESSED TROFFER

[MORE] KSH-34 ACRYLIC LENS & CLEAR ACRYLIC LENS

[LUMCAT] MSTG-22-L14-GRN-L57-840-CS-SASY-DIM-120-WHITE ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4439
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	48.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.26
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	13678	7548	6489
55	9328	8983	4285
65	4278	4807	2801
75	2861	2062	1563
85	741	99	49

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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	1913.464	1913.464	1913.464	1913.464	1913.464	1913.464	1913.464	1913.464	1913.464
5	2006.563	1994.678	1975.860	1951.100	1915.445	1876.819	1837.203	1814.424	1812.443
10	2040.236	2027.361	2000.620	1956.052	1892.666	1816.405	1754.999	1708.450	1704.489
15	2026.371	2016.467	1992.697	1932.282	1845.126	1747.076	1662.892	1610.400	1598.515
20	1970.908	1961.994	1940.205	1880.781	1765.894	1658.930	1550.976	1487.590	1478.676
25	1911.484	1887.714	1845.126	1789.664	1679.729	1550.976	1431.137	1353.885	1343.981
30	1831.261	1808.481	1736.182	1665.863	1572.765	1428.165	1296.441	1221.171	1215.228
35	1715.383	1688.642	1631.199	1514.331	1445.993	1286.537	1150.852	1080.533	1081.523
40	1679.729	1551.966	1421.233	1340.019	1270.691	1114.207	975.550	910.183	925.039
45	2225.442	1864.934	1228.103	1113.216	1055.773	894.337	805.200	796.286	816.095
50	2041.227	1860.973	1423.213	845.807	806.190	713.092	668.524	686.351	699.227
55	1231.075	1128.072	1185.516	713.092	565.522	566.512	561.560	590.282	559.579
60	714.083	701.207	756.670	606.128	390.220	430.827	461.529	465.491	428.846
65	415.971	424.884	467.472	379.325	272.362	309.997	338.719	329.805	316.930
70	281.275	266.419	258.496	207.985	182.235	199.072	206.995	239.678	231.755
75	170.350	165.398	122.810	101.021	93.098	103.993	109.935	143.609	143.609
80	70.319	69.328	38.626	30.703	31.693	32.683	42.587	48.530	58.434
85	14.856	12.875	1.981	1.981	0.990	1.981	2.971	4.952	8.914
90	0.990	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MSTG-22-L14-GRN-L57-840-CS-SASY-DIM-120-WHITE ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	695.58	N.A.	15.70
0-30	1453.44	N.A.	32.70
0-40	2324.76	N.A.	52.40
0-60	3916.45	N.A.	88.20
0-80	4423.69	N.A.	99.70
0-90	4438.58	N.A.	100.00
10-90	4257.37	N.A.	95.90
20-40	1629.17	N.A.	36.70
20-50	2518.62	N.A.	56.70
40-70	1961.65	N.A.	44.20
60-80	507.24	N.A.	11.40
70-80	137.28	N.A.	3.10
80-90	14.90	N.A.	0.30
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	4438.58	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	181.21
10-20	514.37
20-30	757.86
30-40	871.31
40-50	889.45
50-60	702.24
60-70	369.96
70-80	137.28
80-90	14.90
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	93	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	76	71	91	82	75	70	79	74	69	77	72	68	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	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	46	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	34
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	30	55	43	35	30	42	35	30	41	35	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	20.0	21.6	20.4	21.9	22.2	16.7	18.2	17.0	18.5	18.8
	3H	20.7	22.0	21.0	22.3	22.7	17.5	18.9	17.9	19.2	19.6
	4H	20.8	22.1	21.2	22.5	22.8	17.7	18.9	18.1	19.3	19.7
	6H	20.9	22.1	21.3	22.5	22.9	17.7	18.9	18.1	19.2	19.6
	8H	20.9	22.0	21.3	22.4	22.8	17.7	18.8	18.1	19.2	19.6
	12H	20.9	22.0	21.3	22.3	22.8	17.6	18.7	18.1	19.1	19.5

UGR Viewed Endwise

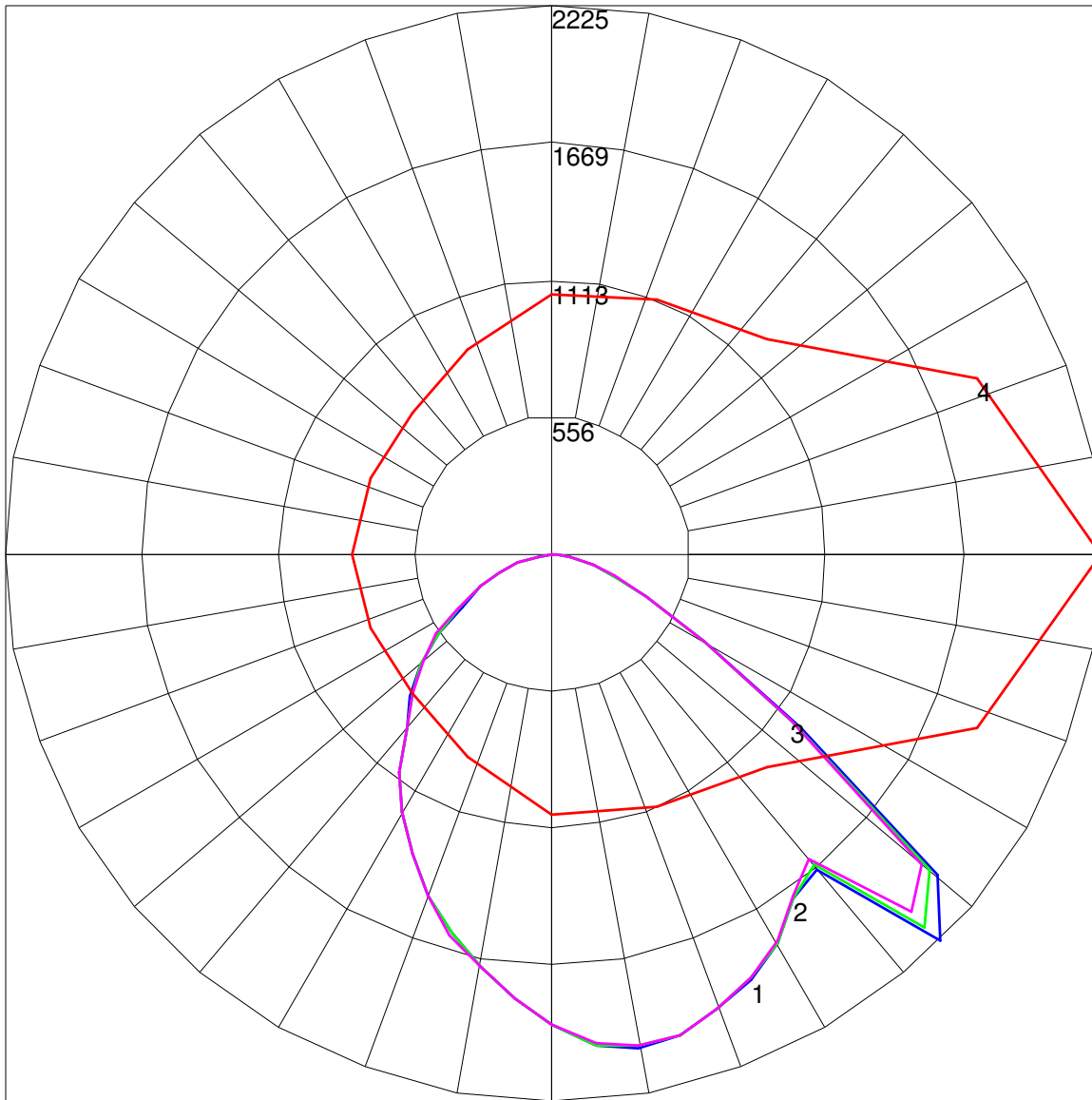
4H	2H	20.3	21.6	20.7	21.9	22.3	17.3	18.6	17.7	18.9	19.3
	3H	21.0	22.1	21.4	22.5	22.9	18.3	19.3	18.7	19.7	20.1
	4H	21.3	22.2	21.7	22.6	23.1	18.5	19.4	18.9	19.8	20.3
	6H	21.4	22.2	21.9	22.7	23.1	18.5	19.3	19.0	19.8	20.2
	8H	21.4	22.2	21.9	22.6	23.1	18.5	19.2	19.0	19.7	20.2
	12H	21.4	22.1	21.9	22.6	23.0	18.5	19.1	18.9	19.6	20.1
8H	4H	21.3	22.0	21.8	22.5	22.9	18.6	19.3	19.0	19.8	20.2
	6H	21.4	22.0	21.9	22.5	23.0	18.6	19.2	19.1	19.7	20.2
	8H	21.4	22.0	22.0	22.5	23.0	18.6	19.2	19.1	19.7	20.2
	12H	21.4	21.9	21.9	22.4	23.0	18.6	19.1	19.1	19.6	20.1
12H	4H	21.2	21.9	21.7	22.4	22.9	18.5	19.2	19.0	19.7	20.2
	6H	21.4	21.9	21.9	22.4	23.0	18.6	19.2	19.1	19.6	20.2
	8H	21.4	21.9	21.9	22.4	23.0	18.6	19.1	19.1	19.6	20.1

Maximum UGR = 23.1

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POLAR GRAPH



Maximum Candela = 2225.442 Located At Horizontal Angle = 0, Vertical Angle = 45

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 (45) (Through Max. Cd.)