



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-14-L75-840-CS-SASY-DIM-120_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19832.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 18-FEB-2020

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

[LUMINAIRE] 4-42 LED 22" ARRAYS 1x4' RECESSED ASYMM WHITE REFL LUMINAIRE

[MORE] FROST ACRYLIC LED LENSES w/KSH-34 ACRYLIC LENS & CLEAR

[LUMCAT] MSTG-14-L75/840-SASY-DIM-120

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6127
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	66
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.88
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.57 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	22560	18640	10268
55	13381	14641	7215
65	7097	7636	5746
75	4282	3552	2762
85	1363	559	0

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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	2407.049	2407.049	2407.049	2407.049	2407.049	2407.049	2407.049	2407.049	2407.049
5	2533.111	2524.212	2496.404	2468.967	2426.329	2381.836	2338.456	2281.728	2266.155
10	2634.331	2612.085	2552.762	2482.315	2395.184	2313.614	2254.661	2180.136	2152.329
15	2722.204	2685.869	2597.625	2466.372	2338.456	2233.528	2146.025	2061.490	2017.738
20	2806.740	2752.608	2619.871	2422.621	2250.583	2123.779	2002.537	1909.473	1816.780
25	2886.456	2828.987	2626.175	2354.399	2136.756	1976.954	1831.982	1702.212	1649.933
30	2928.724	2871.254	2635.444	2263.189	2013.289	1810.106	1632.878	1513.860	1501.625
35	2971.734	2885.344	2624.691	2150.845	1851.262	1604.699	1453.053	1311.048	1317.351
40	3125.974	2978.407	2582.423	2039.243	1632.136	1379.270	1249.871	1137.898	1164.964
45	3036.989	2851.604	2509.381	1918.742	1382.236	1128.258	1055.216	1007.015	1014.802
50	2131.195	2235.381	2134.902	1733.728	1080.057	913.952	897.267	805.316	772.688
55	1461.210	1560.577	1598.767	1456.390	787.889	723.375	761.565	622.155	578.774
60	887.627	982.544	1004.791	982.915	576.550	566.539	598.054	458.274	428.983
65	570.988	625.121	614.368	593.234	462.352	417.489	460.498	317.380	315.156
70	365.210	370.771	344.076	340.739	302.550	261.394	326.650	222.092	222.463
75	210.969	218.014	175.004	166.847	136.073	124.950	111.973	125.321	118.647
80	90.097	94.918	67.110	55.986	39.673	38.189	27.808	37.077	37.077
85	22.617	20.763	9.269	4.449	0.000	1.483	0.000	1.112	1.112
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	896.37	N.A.	14.60
0-30	1918.51	N.A.	31.30
0-40	3175.65	N.A.	51.80
0-60	5434.71	N.A.	88.70
0-80	6109.26	N.A.	99.70
0-90	6127.01	N.A.	100.00
10-90	5897.21	N.A.	96.20
20-40	2279.28	N.A.	37.20
20-50	3585.77	N.A.	58.50
40-70	2758.11	N.A.	45.00
60-80	674.56	N.A.	11.00
70-80	175.50	N.A.	2.90
80-90	17.75	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	6127.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	229.81
10-20	666.56
20-30	1022.14
30-40	1257.14
40-50	1306.49
50-60	952.56
60-70	499.06
70-80	175.50
80-90	17.75
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	100	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	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	73	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	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	44	38	33	43	37	33	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	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	21.7	23.2	22.1	23.5	23.8	19.5	21.1	19.9	21.4	21.7
	3H	22.3	23.7	22.7	24.0	24.4	20.3	21.7	20.7	22.0	22.4
	4H	22.5	23.7	22.9	24.1	24.5	20.5	21.7	20.9	22.1	22.5
	6H	22.5	23.7	22.9	24.1	24.5	20.5	21.6	20.9	22.0	22.4
	8H	22.5	23.6	23.0	24.0	24.4	20.4	21.6	20.9	21.9	22.3
	12H	22.5	23.6	22.9	24.0	24.4	20.4	21.5	20.8	21.9	22.3

UGR Viewed Endwise

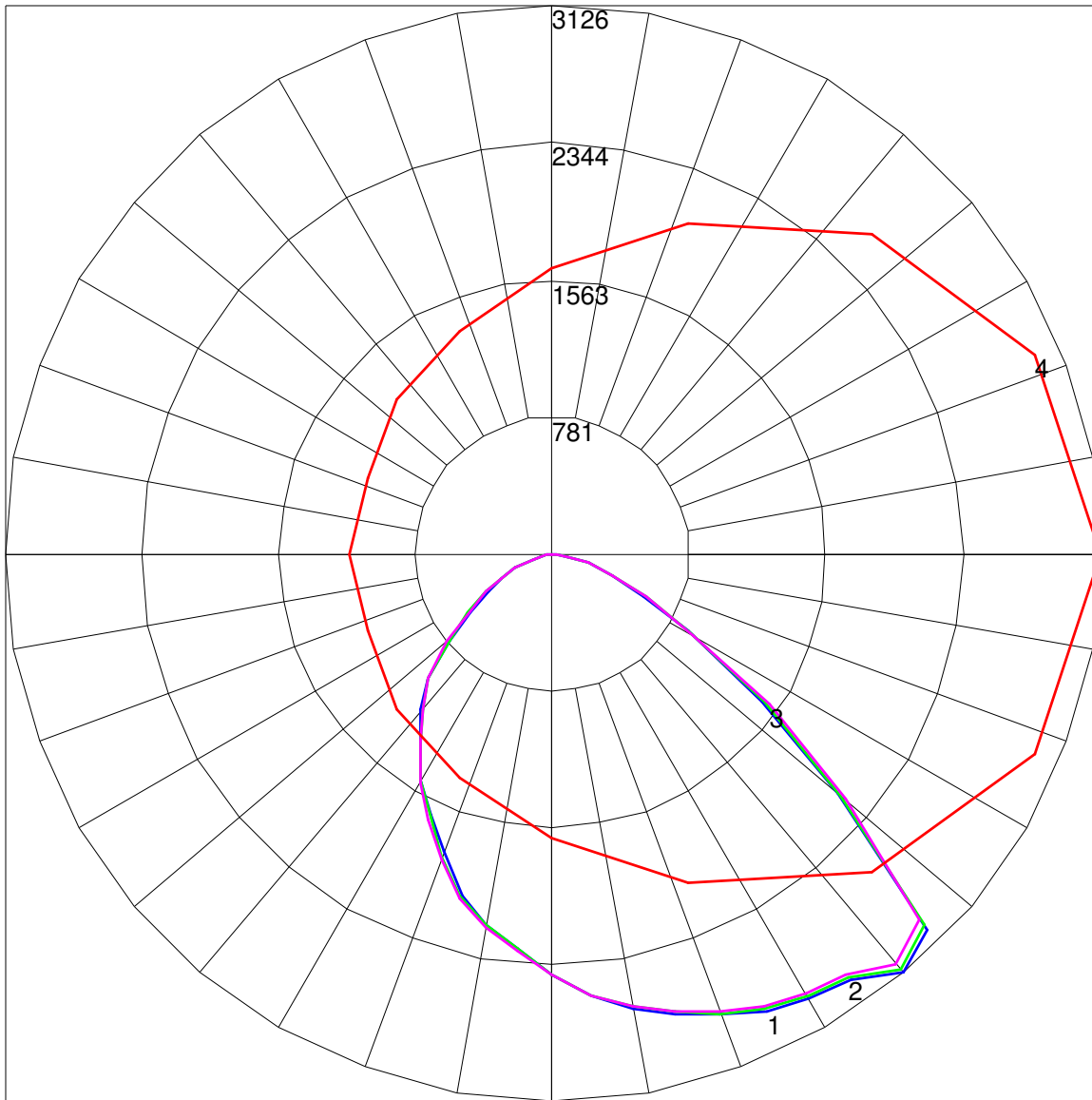
4H	2H	21.9	23.2	22.3	23.5	23.9	19.9	21.2	20.3	21.6	21.9
	3H	22.7	23.7	23.1	24.1	24.5	20.8	21.9	21.3	22.3	22.7
	4H	22.9	23.8	23.3	24.3	24.7	21.0	22.0	21.5	22.4	22.8
	6H	23.0	23.8	23.5	24.3	24.7	21.1	21.9	21.5	22.3	22.8
	8H	23.0	23.8	23.5	24.2	24.7	21.0	21.8	21.5	22.2	22.7
	12H	23.0	23.7	23.5	24.2	24.6	21.0	21.7	21.5	22.1	22.6

8H	4H	22.9	23.7	23.4	24.1	24.6	21.1	21.8	21.5	22.3	22.7
	6H	23.0	23.7	23.5	24.2	24.6	21.1	21.7	21.6	22.2	22.7
	8H	23.1	23.6	23.6	24.1	24.6	21.1	21.6	21.6	22.1	22.6
	12H	23.1	23.5	23.6	24.0	24.6	21.0	21.5	21.5	22.0	22.6

12H	4H	22.9	23.6	23.3	24.0	24.5	21.0	21.7	21.5	22.2	22.7
	6H	23.0	23.6	23.5	24.0	24.6	21.1	21.6	21.6	22.1	22.6
	8H	23.0	23.5	23.5	24.0	24.6	21.1	21.5	21.6	22.0	22.6

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 3125.974 Located At Horizontal Angle = 0, Vertical Angle = 40

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 (40) (Through Max. Cd.)