



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MSTG-14-L75-840-CS-SSYM-DIM-120_.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] 4-42 LED 22" ARRAYS 1x4' RECESSED WHITE REFLECTOR LUMINAIRE

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

[LUMCAT] MSTG-14-L75/840-CS-SSYM-DIM-120

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7509
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	66
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)	0.57 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13947	13872	13495
55	11530	11302	10668
65	8360	8261	7665
75	4977	5124	5080
85	1087	1500	1543

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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>
0	3271.211	3271.211	3271.211	3271.211	3271.211
5	3287.441	3266.884	3247.768	3240.194	3240.916
10	3238.391	3216.030	3203.407	3195.112	3196.554
15	3158.685	3138.127	3132.356	3114.684	3123.700
20	3043.273	3026.682	3027.403	3002.518	3012.977
25	2885.663	2875.925	2870.876	2845.990	2859.695
30	2696.676	2691.626	2674.675	2642.937	2658.445
35	2461.163	2466.212	2434.834	2384.342	2413.195
40	2180.567	2204.732	2154.239	2097.975	2132.599
45	1877.610	1905.021	1867.512	1799.347	1816.658
50	1570.326	1556.260	1560.949	1485.209	1483.045
55	1259.074	1228.778	1234.188	1164.219	1164.941
60	950.707	929.428	923.657	860.181	871.361
65	672.636	659.292	664.702	616.373	616.733
70	440.009	427.025	442.533	423.057	413.320
75	245.251	242.726	252.464	261.481	250.300
80	103.871	100.264	113.609	129.839	116.133
85	18.033	20.197	24.886	36.788	25.607
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1192.34	N.A.	15.90
0-30	2510.69	N.A.	33.40
0-40	4026.85	N.A.	53.60
0-60	6538.69	N.A.	87.10
0-80	7464.06	N.A.	99.40
0-90	7509.02	N.A.	100.00
10-90	7199.81	N.A.	95.90
20-40	2834.51	N.A.	37.70
20-50	4261.05	N.A.	56.70
40-70	3161.68	N.A.	42.10
60-80	925.37	N.A.	12.30
70-80	275.53	N.A.	3.70
80-90	44.96	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	7509.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	309.21
10-20	883.14
20-30	1318.34
30-40	1516.17
40-50	1426.54
50-60	1085.3
60-70	649.85
70-80	275.53
80-90	44.96
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	20.0	21.5	20.4	21.9	22.2	19.6	21.1	19.9	21.4	21.7
	3H	21.1	22.5	21.5	22.8	23.2	20.7	22.0	21.0	22.4	22.7
	4H	21.4	22.7	21.8	23.0	23.4	21.0	22.3	21.4	22.6	23.0
	6H	21.5	22.7	21.9	23.0	23.4	21.2	22.3	21.6	22.7	23.1
	8H	21.5	22.6	21.9	23.0	23.4	21.2	22.3	21.6	22.7	23.1
	12H	21.5	22.5	21.9	22.9	23.4	21.2	22.3	21.6	22.6	23.1

UGR Viewed Endwise

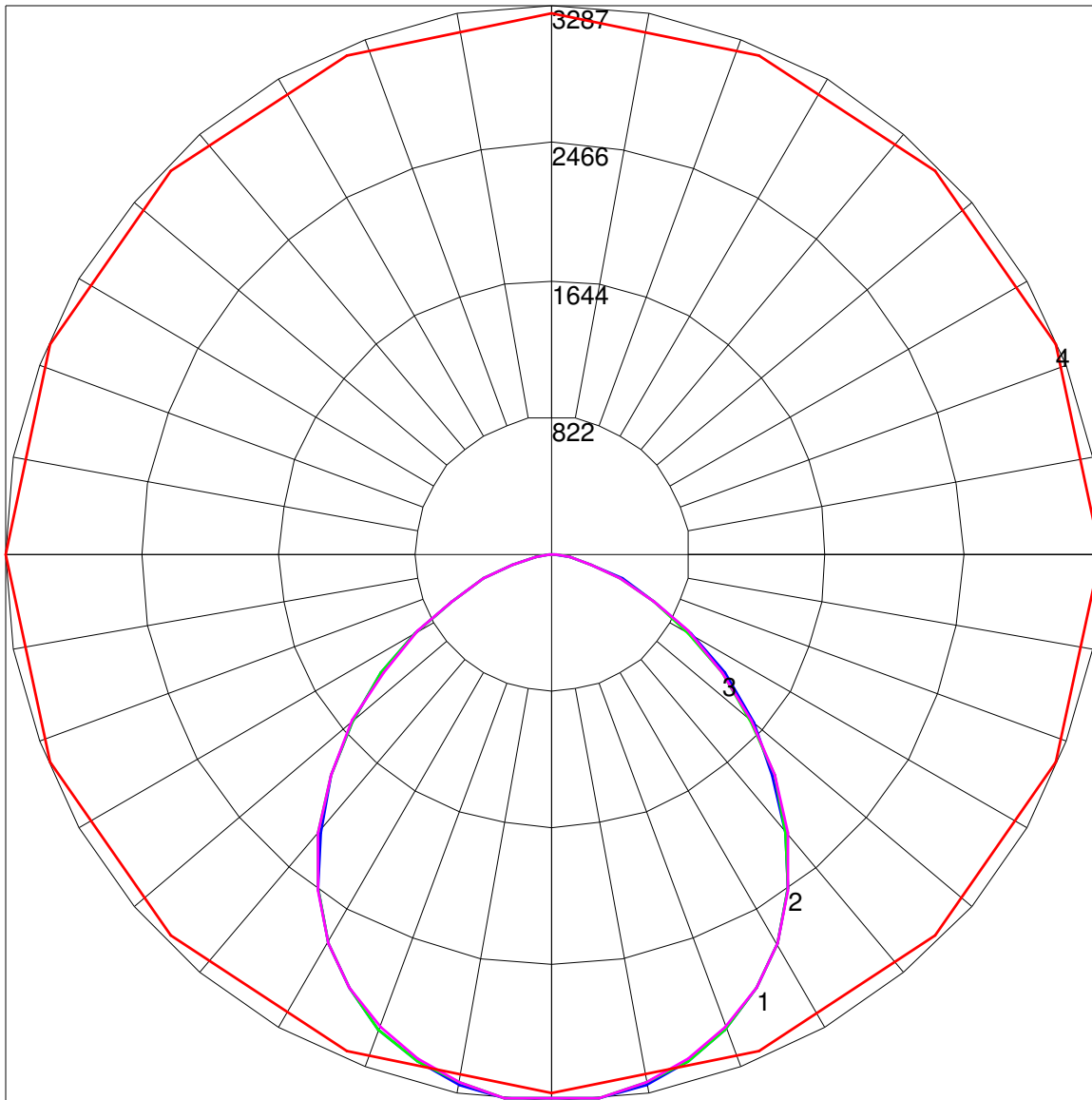
4H	2H	20.4	21.7	20.8	22.0	22.4	20.0	21.3	20.4	21.7	22.0
	3H	21.7	22.7	22.1	23.1	23.5	21.3	22.4	21.7	22.8	23.2
	4H	22.0	23.0	22.5	23.4	23.8	21.8	22.7	22.2	23.1	23.6
	6H	22.2	23.0	22.7	23.5	23.9	22.0	22.8	22.5	23.3	23.7
	8H	22.2	23.0	22.7	23.4	23.9	22.0	22.8	22.5	23.3	23.7
	12H	22.2	22.9	22.7	23.3	23.8	22.0	22.7	22.5	23.2	23.7

8H	4H	22.1	22.9	22.6	23.3	23.8	21.9	22.6	22.3	23.1	23.6
	6H	22.3	23.0	22.8	23.5	23.9	22.2	22.8	22.7	23.3	23.8
	8H	22.4	22.9	22.9	23.4	23.9	22.3	22.8	22.8	23.3	23.8
	12H	22.4	22.9	22.9	23.3	23.9	22.3	22.8	22.8	23.3	23.9

12H	4H	22.1	22.8	22.6	23.3	23.8	21.9	22.5	22.3	23.0	23.5
	6H	22.3	22.9	22.9	23.4	23.9	22.2	22.8	22.7	23.2	23.8
	8H	22.4	22.9	22.9	23.4	23.9	22.3	22.8	22.8	23.3	23.8

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 3287.441 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.)