



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L14-RED-L134-835-SAF12125-WHITE 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] 17-FEB-2020

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

[LUMINAIRE] 6-42 LED 22" ARRAYS 2x4' RECESSED WHITE REFLECTOR LUMINAIRE

[MORE] PAT12 ACRYLIC LENS w/FROSTED PRISMATIC ACRYLIC LENS IN DOOR

[LUMCAT] MSTG-24-L14/RED/L134/835-SAF12125-WHITE ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13495
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	101.7
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)	3.57 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	8926	8903	9029
55	7102	6965	6998
65	5258	4976	4970
75	3535	3033	3116
85	1149	683	1118

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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	6000.424	6000.424	6000.424	6000.424	6000.424
5	5984.864	5983.449	5979.206	5966.475	5966.475
10	5881.604	5898.578	5894.334	5885.847	5878.774
15	5721.762	5745.809	5742.980	5755.711	5745.809
20	5501.096	5529.386	5526.557	5581.724	5546.361
25	5194.143	5233.750	5264.870	5314.378	5260.626
30	4812.221	4884.362	4918.311	4938.114	4895.678
35	4360.987	4452.931	4469.906	4441.615	4426.055
40	3864.488	3905.509	3908.338	3889.949	3916.825
45	3298.677	3297.263	3290.190	3284.532	3336.869
50	2715.892	2674.871	2684.772	2662.140	2705.990
55	2128.863	2099.158	2087.842	2099.158	2097.744
60	1592.757	1561.638	1560.223	1581.441	1577.198
65	1161.327	1141.523	1099.088	1138.694	1097.673
70	780.819	777.990	707.264	770.917	708.678
75	478.110	459.721	410.213	452.649	421.529
80	216.423	212.179	175.401	193.790	205.106
85	52.338	56.581	31.120	39.607	50.923
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2187.83	N.A.	16.20
0-30	4606.2	N.A.	34.10
0-40	7372.47	N.A.	54.60
0-60	11802.1	N.A.	87.50
0-80	13417.14	N.A.	99.40
0-90	13495.35	N.A.	100.00
10-90	12927.7	N.A.	95.80
20-40	5184.63	N.A.	38.40
20-50	7725.51	N.A.	57.20
40-70	5561.21	N.A.	41.20
60-80	1615.04	N.A.	12.00
70-80	483.47	N.A.	3.60
80-90	78.21	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	13495.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	567.66
10-20	1620.18
20-30	2418.37
30-40	2766.26
40-50	2540.88
50-60	1888.75
60-70	1131.58
70-80	483.47
80-90	78.21
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	18.1	19.6	18.5	19.9	20.3	18.1	19.6	18.5	20.0	20.3
	3H	19.3	20.6	19.7	21.0	21.3	19.2	20.6	19.6	20.9	21.3
	4H	19.6	20.9	20.0	21.3	21.6	19.5	20.8	19.9	21.1	21.5
	6H	19.8	21.0	20.2	21.3	21.7	19.7	20.8	20.1	21.2	21.6
	8H	19.8	20.9	20.3	21.3	21.7	19.7	20.8	20.1	21.2	21.6
	12H	19.8	20.9	20.3	21.3	21.7	19.7	20.7	20.1	21.1	21.5

UGR Viewed Endwise

4H	2H	18.5	19.8	18.9	20.1	20.5	18.5	19.8	18.9	20.1	20.5
	3H	19.9	20.9	20.3	21.3	21.7	19.8	20.8	20.2	21.2	21.6
	4H	20.3	21.2	20.7	21.6	22.1	20.2	21.1	20.6	21.5	22.0
	6H	20.5	21.3	21.0	21.8	22.2	20.4	21.2	20.8	21.6	22.1
	8H	20.6	21.3	21.0	21.8	22.2	20.4	21.2	20.9	21.6	22.1
	12H	20.6	21.2	21.1	21.7	22.2	20.4	21.1	20.9	21.6	22.0

8H	4H	20.4	21.1	20.8	21.6	22.0	20.3	21.0	20.7	21.5	21.9
	6H	20.7	21.3	21.2	21.8	22.3	20.5	21.1	21.0	21.6	22.1
	8H	20.7	21.3	21.2	21.8	22.3	20.6	21.1	21.1	21.6	22.1
	12H	20.8	21.2	21.3	21.7	22.3	20.6	21.1	21.1	21.6	22.1

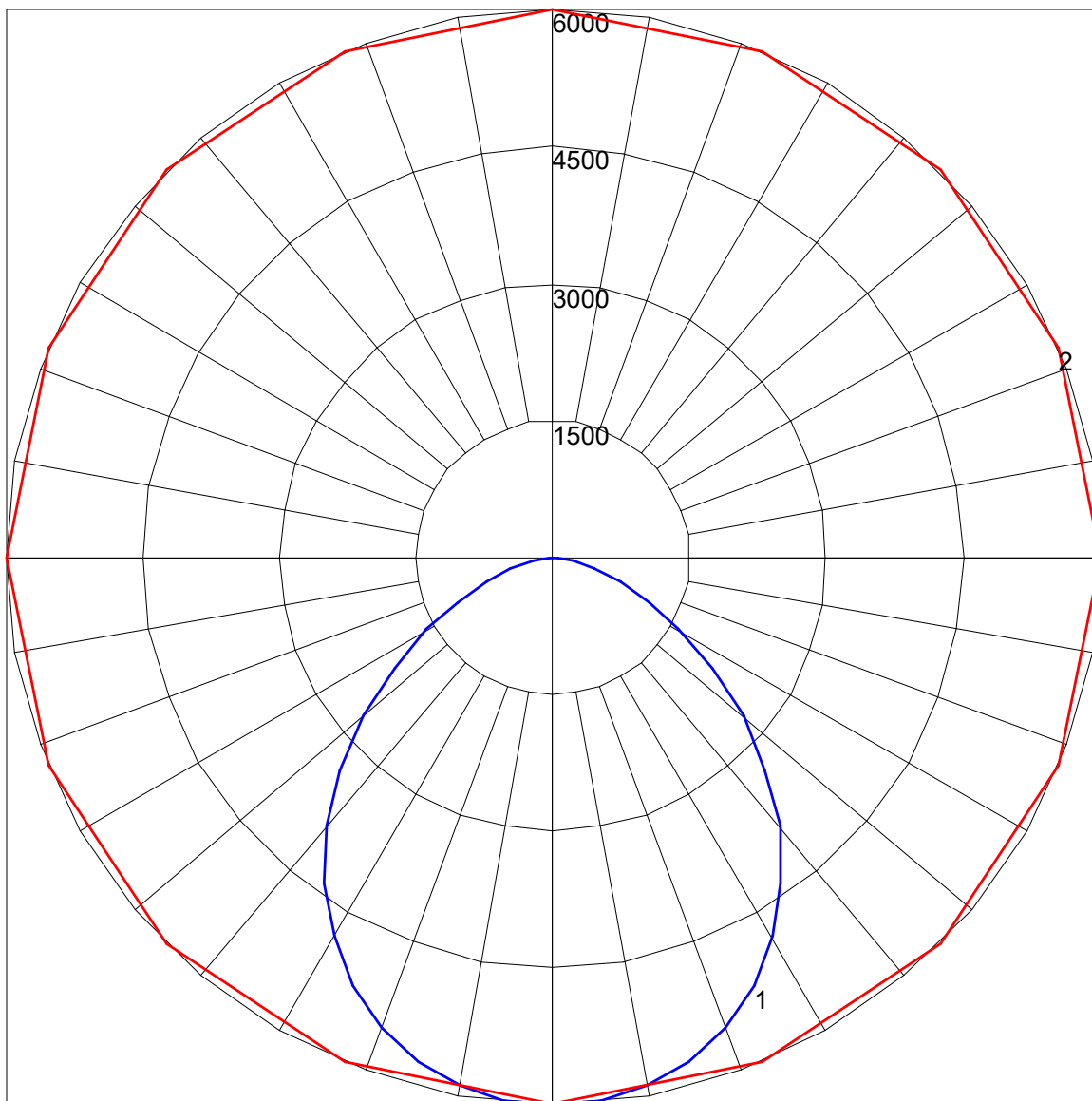
12H	4H	20.4	21.0	20.9	21.5	22.0	20.3	20.9	20.8	21.4	21.9
	6H	20.7	21.2	21.2	21.7	22.2	20.5	21.1	21.0	21.5	22.1
	8H	20.7	21.2	21.2	21.7	22.3	20.6	21.1	21.1	21.6	22.1

Maximum UGR = 22.3

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POLAR GRAPH



Maximum Candela = 6000.424 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)