



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L28-AMB-L68-835-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

[ISSUE DATE] 17-FEB-2020

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

[LUMINAIRE] 3-42 LED 22" ARRAYS 2x2' RECESSED WHITE REFLECTOR LUMINAIRE

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

[LUMCAT] MSTG-22-L28/AMB/L68/835-SAF12125-WHITE ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6859
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	59.5
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)	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	10304	10278	10424
55	8198	8040	8078
65	6070	5744	5737
75	4080	3501	3597
85	1326	789	1291

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	3049.562	3049.562	3049.562	3049.562	3049.562
5	3041.654	3040.936	3038.779	3032.309	3032.309
10	2989.175	2997.802	2995.645	2991.332	2987.737
15	2907.940	2920.161	2918.723	2925.193	2920.161
20	2795.792	2810.169	2808.732	2836.769	2818.796
25	2639.791	2659.920	2675.736	2700.897	2673.579
30	2445.689	2482.352	2499.606	2509.670	2488.103
35	2216.360	2263.089	2271.715	2257.337	2249.430
40	1964.027	1984.875	1986.313	1976.968	1990.627
45	1676.468	1675.750	1672.155	1669.279	1695.879
50	1380.283	1359.435	1364.467	1352.965	1375.251
55	1081.940	1066.844	1061.092	1066.844	1066.125
60	809.478	793.663	792.944	803.727	801.570
65	590.215	580.150	558.583	578.712	557.864
70	396.831	395.394	359.449	391.799	360.168
75	242.987	233.642	208.480	230.047	214.231
80	109.991	107.835	89.143	98.489	104.240
85	26.599	28.756	15.816	20.129	25.880
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1111.91	N.A.	16.20
0-30	2340.99	N.A.	34.10
0-40	3746.87	N.A.	54.60
0-60	5998.11	N.A.	87.50
0-80	6818.92	N.A.	99.40
0-90	6858.67	N.A.	100.00
10-90	6570.17	N.A.	95.80
20-40	2634.96	N.A.	38.40
20-50	3926.29	N.A.	57.20
40-70	2826.34	N.A.	41.20
60-80	820.80	N.A.	12.00
70-80	245.71	N.A.	3.60
80-90	39.75	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	6858.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	288.50
10-20	823.41
20-30	1229.07
30-40	1405.88
40-50	1291.34
50-60	959.91
60-70	575.09
70-80	245.71
80-90	39.75
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	120	120	120	120	118	118	118	118	112	112	112	108	108	108	103	103	103	101
1	112	107	104	100	109	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	95	89	84	100	93	88	83	90	85	81	87	83	79	84	81	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	67	65
4	87	76	68	62	85	75	67	61	72	66	61	70	64	60	68	63	59	57
5	81	69	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	75	62	54	48	73	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	37	36
9	61	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	31	42	36	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	18.7	20.2	19.0	20.5	20.8	18.7	20.2	19.1	20.5	20.8
	3H	19.8	21.2	20.2	21.5	21.9	19.8	21.1	20.1	21.4	21.8
	4H	20.2	21.5	20.6	21.8	22.2	20.1	21.3	20.5	21.7	22.1
	6H	20.4	21.5	20.8	21.9	22.3	20.2	21.4	20.6	21.7	22.1
	8H	20.4	21.5	20.8	21.9	22.3	20.2	21.3	20.6	21.7	22.1
	12H	20.4	21.4	20.8	21.8	22.3	20.2	21.3	20.7	21.7	22.1

UGR Viewed Endwise

4H	2H	19.0	20.3	19.4	20.7	21.0	19.1	20.3	19.5	20.7	21.0
	3H	20.4	21.4	20.8	21.8	22.2	20.3	21.4	20.8	21.8	22.2
	4H	20.8	21.8	21.3	22.2	22.6	20.7	21.7	21.1	22.1	22.5
	6H	21.1	21.9	21.5	22.3	22.8	20.9	21.7	21.4	22.2	22.6
	8H	21.1	21.9	21.6	22.3	22.8	21.0	21.7	21.4	22.2	22.6
	12H	21.1	21.8	21.6	22.3	22.7	21.0	21.6	21.5	22.1	22.6

8H	4H	20.9	21.7	21.4	22.1	22.6	20.8	21.6	21.3	22.0	22.5
	6H	21.2	21.8	21.7	22.3	22.8	21.1	21.7	21.6	22.2	22.7
	8H	21.3	21.8	21.8	22.3	22.8	21.1	21.7	21.6	22.2	22.7
	12H	21.3	21.8	21.8	22.3	22.9	21.1	21.6	21.6	22.1	22.7

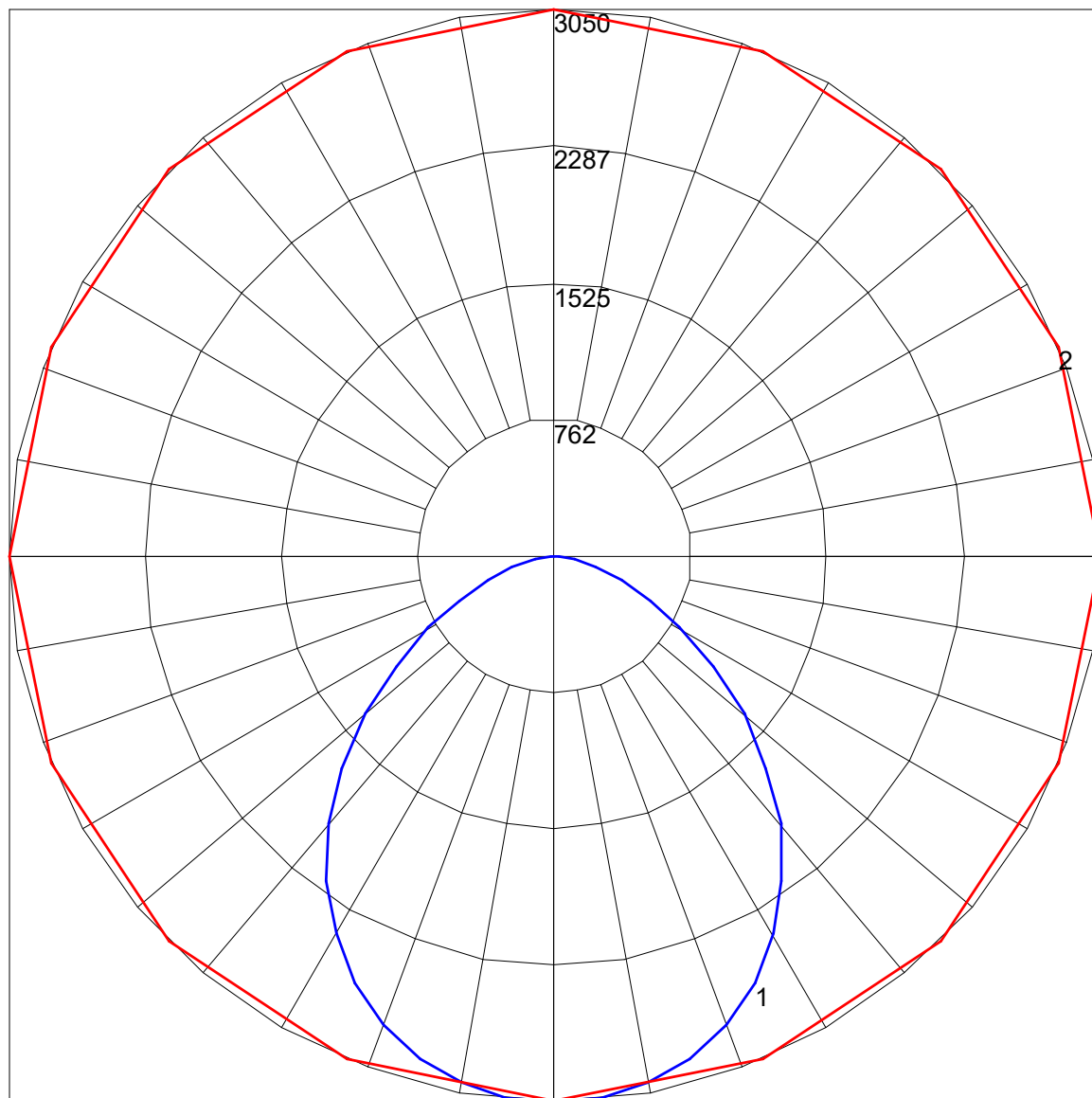
12H	4H	20.9	21.6	21.4	22.1	22.5	20.8	21.5	21.3	22.0	22.4
	6H	21.2	21.8	21.7	22.2	22.8	21.1	21.6	21.6	22.1	22.6
	8H	21.3	21.8	21.8	22.3	22.8	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 22.9

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POLAR GRAPH



Maximum Candela = 3049.562 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.)