



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L114-AMB-SAF12125-DIM-UNV_.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] 23-MAY-2020

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] PAT12 FROSTED PRISMATIC ACRYLIC LENS IN DOOR

[LUMCAT] MCTG-24-L114-AMB-SAF12125-DIM-UNV

[LAMPCAT] HLM AMBER LED

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Healthcare, Institutional, Office, Direct, Clean Room

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11542
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	118.2
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)	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	7809	7767	7556
55	6456	6328	5973
65	4681	4626	4292
75	2787	2869	2844
85	609	840	864

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : MCTG-24-L114-AMB-SAF12125-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	5028.142	5028.142	5028.142	5028.142	5028.142
5	5053.089	5021.490	4992.108	4980.466	4981.575
10	4977.695	4943.324	4923.921	4911.170	4913.388
15	4855.179	4823.579	4814.710	4787.545	4801.405
20	4677.780	4652.279	4653.388	4615.136	4631.213
25	4435.520	4420.552	4412.791	4374.539	4395.605
30	4145.030	4137.269	4111.213	4062.428	4086.266
35	3783.026	3790.787	3742.557	3664.945	3709.294
40	3351.725	3388.868	3311.256	3224.774	3277.994
45	2886.054	2928.186	2870.531	2765.755	2792.365
50	2413.730	2392.110	2399.316	2282.899	2279.572
55	1935.308	1888.741	1897.057	1789.509	1790.617
60	1461.321	1428.613	1419.743	1322.174	1339.360
65	1033.901	1013.390	1021.705	947.420	947.974
70	676.332	656.375	680.213	650.277	635.309
75	376.972	373.091	388.059	401.919	384.733
80	159.659	154.115	174.627	199.573	178.507
85	27.719	31.045	38.252	56.546	39.360
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTG-24-L114-AMB-SAF12125-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1832.74	N.A.	15.90
0-30	3859.15	N.A.	33.40
0-40	6189.63	N.A.	53.60
0-60	10050.54	N.A.	87.10
0-80	11472.92	N.A.	99.40
0-90	11542.03	N.A.	100.00
10-90	11066.75	N.A.	95.90
20-40	4356.89	N.A.	37.70
20-50	6549.6	N.A.	56.70
40-70	4859.78	N.A.	42.10
60-80	1422.38	N.A.	12.30
70-80	423.51	N.A.	3.70
80-90	69.11	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	11542.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	475.28
10-20	1357.46
20-30	2026.41
30-40	2330.48
40-50	2192.72
50-60	1668.2
60-70	998.87
70-80	423.51
80-90	69.11
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTG-24-L114-AMB-SAF12125-DIM-UNV_.IES

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	78	78	78	78	76	76	76	76	73	73	73	70	70	70	67	67	67	66
1	73	70	67	65	71	68	66	64	66	64	62	63	62	60	61	60	58	57
2	67	62	58	55	65	61	57	54	58	55	53	56	54	51	54	52	50	49
3	61	55	50	46	60	54	50	46	52	48	45	50	47	44	49	46	44	42
4	56	49	44	40	55	48	43	40	47	42	39	45	42	39	44	41	38	37
5	52	44	39	35	51	44	38	35	42	38	34	41	37	34	40	36	34	32
6	48	40	35	31	47	40	34	31	38	34	30	37	33	30	36	33	30	29
7	45	37	31	27	44	36	31	27	35	30	27	34	30	27	33	30	27	25
8	42	34	28	25	41	33	28	24	32	28	24	31	27	24	31	27	24	23
9	39	31	26	22	38	30	26	22	30	25	22	29	25	22	28	25	22	21
10	37	29	24	20	36	28	23	20	28	23	20	27	23	20	26	23	20	19

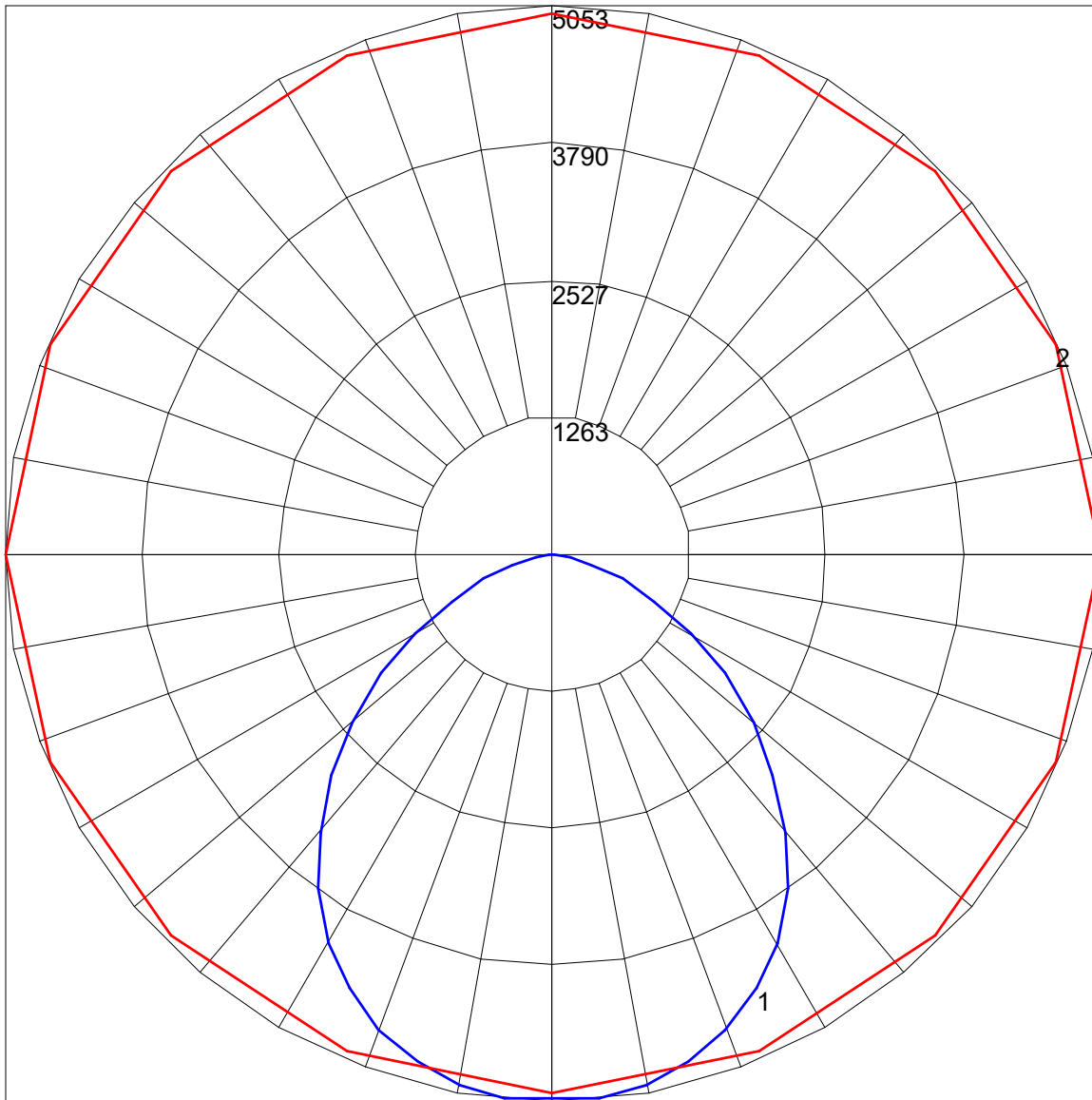
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTG-24-L114-AMB-SAF12125-DIM-UNV_.IES

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					UGR Viewed Endwise				
X=2H	Y=2H	19.5	21.0	19.9	21.3	21.7	19.0	20.6	19.4	20.9	21.2
	3H	20.6	22.0	21.0	22.3	22.6	20.2	21.5	20.5	21.8	22.2
	4H	20.9	22.1	21.3	22.5	22.9	20.5	21.8	20.9	22.1	22.5
	6H	21.0	22.2	21.4	22.5	22.9	20.7	21.8	21.1	22.2	22.6
	8H	21.0	22.1	21.4	22.5	22.9	20.7	21.8	21.1	22.2	22.6
	12H	21.0	22.0	21.4	22.4	22.8	20.7	21.7	21.1	22.1	22.6
4H	2H	19.9	21.2	20.3	21.5	21.9	19.5	20.8	19.9	21.1	21.5
	3H	21.2	22.2	21.6	22.6	23.0	20.8	21.9	21.2	22.3	22.7
	4H	21.5	22.5	22.0	22.9	23.3	21.3	22.2	21.7	22.6	23.0
	6H	21.7	22.5	22.2	22.9	23.4	21.5	22.3	22.0	22.8	23.2
	8H	21.7	22.5	22.2	22.9	23.4	21.5	22.3	22.0	22.7	23.2
	12H	21.7	22.4	22.2	22.8	23.3	21.5	22.2	22.0	22.7	23.2
8H	4H	21.6	22.4	22.1	22.8	23.3	21.4	22.1	21.8	22.6	23.0
	6H	21.8	22.5	22.3	22.9	23.4	21.7	22.3	22.2	22.8	23.3
	8H	21.9	22.4	22.4	22.9	23.4	21.8	22.3	22.3	22.8	23.3
	12H	21.9	22.3	22.4	22.8	23.4	21.8	22.3	22.3	22.8	23.3
12H	4H	21.6	22.3	22.1	22.8	23.2	21.4	22.0	21.8	22.5	23.0
	6H	21.8	22.4	22.4	22.9	23.4	21.7	22.2	22.2	22.7	23.2
	8H	21.9	22.4	22.4	22.9	23.4	21.8	22.3	22.3	22.8	23.3

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 5053.089 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)