



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L82-AMB-SAF125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19834.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 17-FEB-2020

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] FROSTED ACRYLIC LENS IN DOOR

[LUMCAT] MCTG-22-L82-AMB-SAF125-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	7436
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	126.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7430	7453	7459
55	6505	6331	6452
65	5042	4915	5074
75	3226	3342	3092
85	638	1209	983

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MCTG-22-L82-AMB-SAF125-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	3165.251	3165.251	3165.251	3165.251	3165.251
5	3177.954	3157.709	3141.435	3133.893	3134.686
10	3123.175	3106.106	3092.213	3085.862	3077.526
15	3031.083	3015.206	3010.045	2998.534	2993.373
20	2900.488	2893.343	2892.549	2861.587	2866.351
25	2734.564	2730.992	2724.641	2706.778	2713.923
30	2543.236	2535.297	2518.229	2518.229	2524.977
35	2312.213	2305.465	2298.320	2290.778	2293.160
40	2060.946	2060.946	2063.725	2051.816	2051.816
45	1800.946	1805.710	1806.503	1790.229	1808.091
50	1539.755	1526.656	1531.023	1502.442	1540.946
55	1278.962	1252.763	1244.824	1246.809	1268.641
60	998.320	988.000	968.152	996.336	1003.878
65	730.382	740.702	712.122	733.557	735.145
70	498.168	496.183	490.626	485.863	477.924
75	286.198	275.084	296.519	281.038	274.290
80	114.321	113.130	136.153	139.328	128.214
85	19.053	24.611	36.122	38.901	29.374
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTG-22-L82-AMB-SAF125-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1146.53	N.A.	15.40
0-30	2398.48	N.A.	32.30
0-40	3836.13	N.A.	51.60
0-60	6345.92	N.A.	85.30
0-80	7384.56	N.A.	99.30
0-90	7436.08	N.A.	100.00
10-90	7137.27	N.A.	96.00
20-40	2689.6	N.A.	36.20
20-50	4076.55	N.A.	54.80
40-70	3236.38	N.A.	43.50
60-80	1038.64	N.A.	14.00
70-80	312.04	N.A.	4.20
80-90	51.53	N.A.	0.70
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	7436.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	298.81
10-20	847.71
20-30	1251.95
30-40	1437.65
40-50	1386.94
50-60	1122.84
60-70	726.60
70-80	312.04
80-90	51.53
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-22-L82-AMB-SAF125-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	189	189	189	189	185	185	185	185	176	176	176	169	169	169	162	162	162	159
1	175	168	162	156	170	164	159	154	158	153	149	152	148	145	146	143	140	137
2	160	148	138	130	156	145	136	129	140	132	126	135	128	123	130	125	120	117
3	147	131	119	110	143	129	118	109	124	115	107	120	112	105	116	109	103	100
4	135	117	104	94	132	115	103	94	111	101	92	108	99	91	104	97	90	87
5	125	105	92	82	122	104	91	82	100	89	81	97	88	80	95	86	79	76
6	116	95	82	72	113	94	81	72	91	80	71	89	78	71	86	77	70	67
7	107	87	74	64	105	86	73	64	83	72	64	81	71	63	79	70	63	60
8	100	80	67	58	98	78	66	57	76	65	57	74	64	57	73	63	56	54
9	94	73	61	52	92	72	60	52	70	59	52	69	59	51	67	58	51	48
10	88	68	56	47	86	67	55	47	65	55	47	64	54	47	62	53	47	44

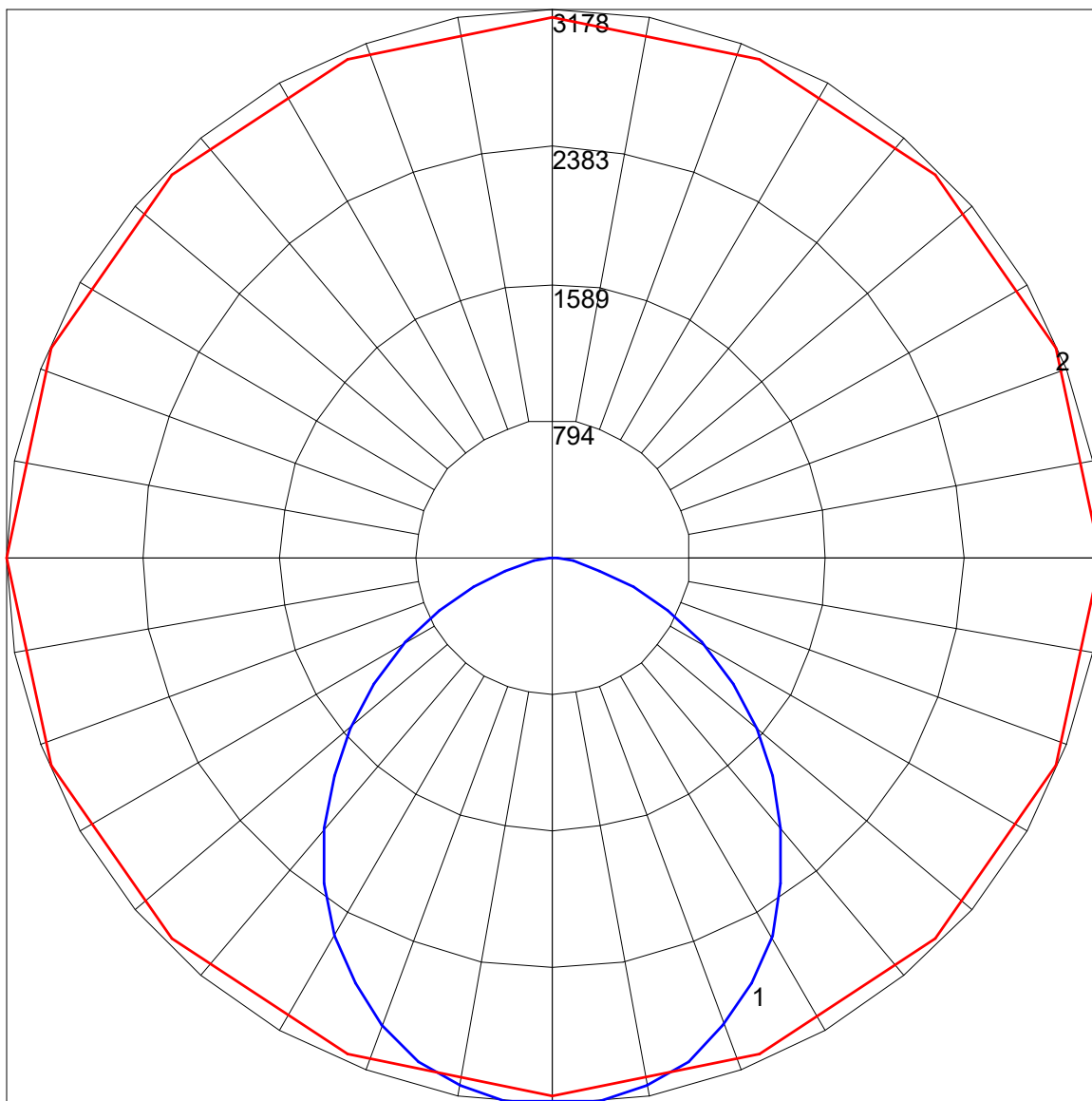
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTG-22-L82-AMB-SAF125-DIM-UNV_.IES

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	16.7	18.2	17.0	18.5	18.8	16.7	18.2	17.0	18.5	18.9
	3H	17.9	19.3	18.3	19.7	20.0	17.9	19.3	18.3	19.6	20.0
	4H	18.3	19.6	18.7	19.9	20.3	18.2	19.5	18.6	19.9	20.2
	6H	18.4	19.6	18.8	20.0	20.4	18.4	19.6	18.8	19.9	20.3
	8H	18.4	19.6	18.8	19.9	20.3	18.4	19.5	18.8	19.9	20.3
	12H	18.4	19.5	18.8	19.9	20.3	18.4	19.5	18.8	19.9	20.3
4H	2H	17.1	18.4	17.5	18.8	19.1	17.1	18.4	17.5	18.8	19.1
	3H	18.6	19.6	19.0	20.0	20.4	18.5	19.6	18.9	20.0	20.4
	4H	19.0	19.9	19.4	20.4	20.8	18.9	19.9	19.4	20.3	20.8
	6H	19.2	20.0	19.6	20.4	20.9	19.2	20.0	19.6	20.4	20.9
	8H	19.2	20.0	19.6	20.4	20.9	19.2	20.0	19.7	20.4	20.9
	12H	19.2	19.9	19.6	20.3	20.8	19.2	19.9	19.7	20.4	20.9
8H	4H	19.1	19.9	19.6	20.3	20.8	19.1	19.9	19.5	20.3	20.8
	6H	19.4	20.0	19.8	20.5	21.0	19.4	20.0	19.9	20.5	21.0
	8H	19.4	20.0	19.9	20.5	21.0	19.4	20.0	20.0	20.5	21.0
	12H	19.4	19.9	19.9	20.4	20.9	19.5	20.0	20.0	20.5	21.0
12H	4H	19.1	19.8	19.6	20.3	20.7	19.1	19.8	19.5	20.2	20.7
	6H	19.4	19.9	19.9	20.4	20.9	19.4	20.0	19.9	20.4	21.0
	8H	19.4	19.9	19.9	20.4	21.0	19.5	20.0	20.0	20.5	21.0

Maximum UGR = 21.0

POLAR GRAPH



Maximum Candela = 3177.954 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.)