IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-930-CS-SAF12125-PC250-DIM-UNV_.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] 2026-05-06
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 3-42 LED 22" ARRAYS 2x2' RECESSED WHITE REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-22-L30-930-CS-SAF12125-PC250-DIM-UNV_
[_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	2492
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	27.3
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	3743	3734	3787
55	2978	2921	2935
65	2205	2087	2084
75	1482	1272	1307
85	482	286	469

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1107.811	1107.811	1107.811	1107.811	1107.811
5	1104.938	1104.677	1103.893	1101.543	1101.543
10	1085.874	1089.008	1088.224	1086.657	1085.351
15	1056.363	1060.803	1060.281	1062.631	1060.803
20	1015.624	1020.847	1020.324	1030.509	1023.980
25	958.953	966.266	972.011	981.151	971.228
30	888.442	901.761	908.029	911.685	903.850
35	805.134	822.109	825.243	820.020	817.147
40	713.470	721.043	721.565	718.170	723.132
45	609.009	608.747	607.442	606.397	616.060
50	501.414	493.840	495.668	491.490	499.585
55	393.035	387.551	385.462	387.551	387.290
60	294.058	288.313	288.052	291.969	291.185
65	214.407	210.750	202.916	210.228	202.655
70	144.156	143.634	130.576	142.328	130.838
75	88.270	84.875	75.734	83.569	77.824
80	39.956	39.173	32.383	35.778	37.867
85	9.663	10.446	5.745	7.312	9.402
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	403.92	N.A.	16.20
0-30	850.41	N.A.	34.10
0-40	1361.12	N.A.	54.60
0-60	2178.93	N.A.	87.50
0-80	2477.1	N.A.	99.40
0-90	2491.54	N.A.	100.00
10-90	2386.74	N.A.	95.80
20-40	957.20	N.A.	38.40
20-50	1426.3	N.A.	57.20
40-70	1026.72	N.A.	41.20
60-80	298.17	N.A.	12.00
70-80	89.26	N.A.	3.60
80-90	14.44	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	2491.54	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.80
10-20	299.12
20-30	446.48
30-40	510.71
40-50	469.10
50-60	348.71
60-70	208.91
70-80	89.26
80-90	14.44
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	71	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	49
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

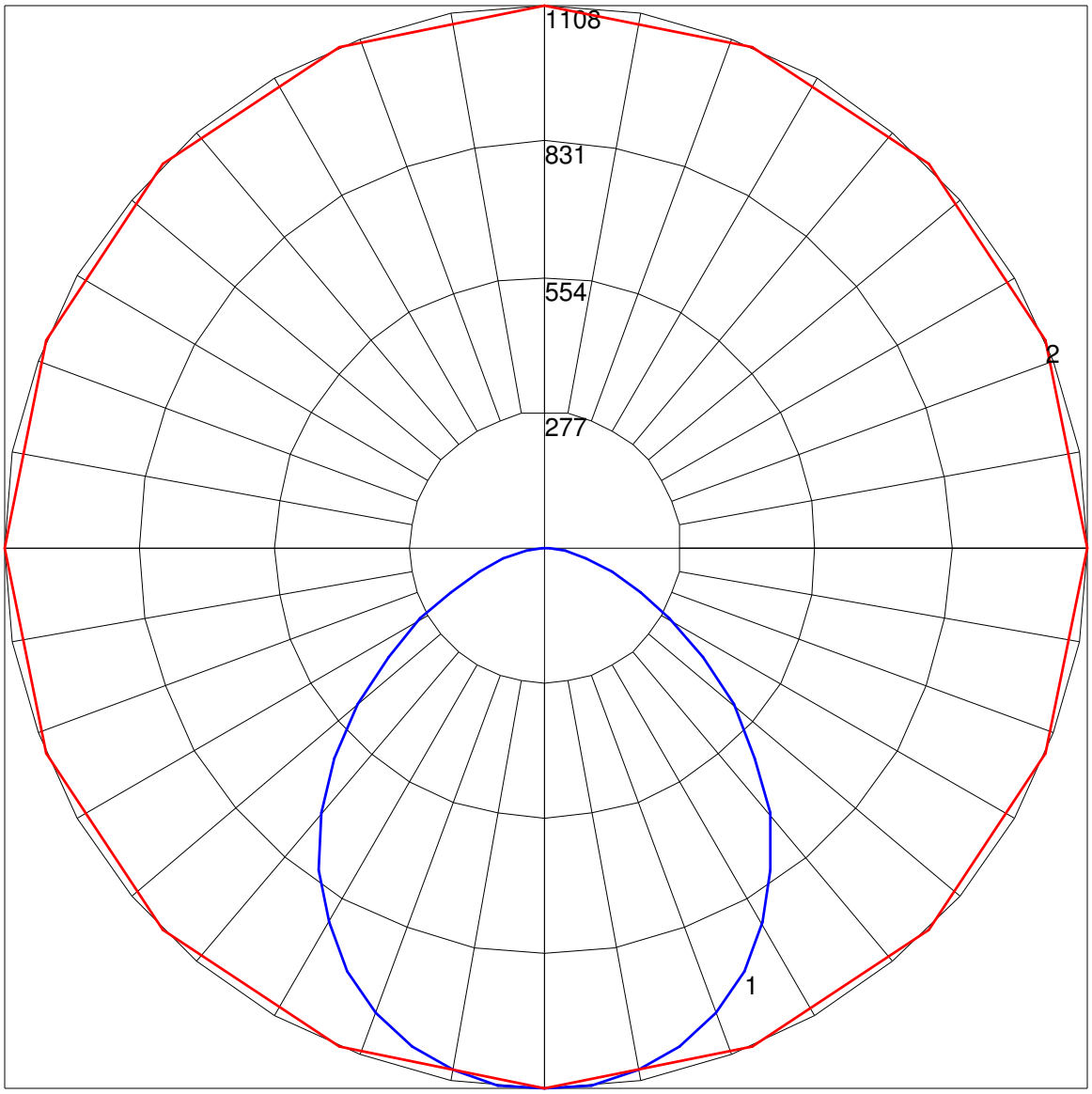
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.2	16.7	15.5	17.0	17.3	15.2	16.7	15.6	17.0	17.3
	3H	16.3	17.7	16.7	18.0	18.4	16.3	17.6	16.6	17.9	18.3
	4H	16.7	18.0	17.1	18.3	18.7	16.6	17.8	17.0	18.2	18.6
	6H	16.9	18.0	17.3	18.4	18.8	16.7	17.9	17.1	18.2	18.6
	8H	16.9	18.0	17.3	18.4	18.8	16.7	17.8	17.1	18.2	18.6
	12H	16.9	17.9	17.3	18.3	18.8	16.7	17.8	17.2	18.2	18.6
4H	2H	15.5	16.8	15.9	17.2	17.5	15.6	16.8	16.0	17.2	17.5
	3H	16.9	17.9	17.3	18.3	18.7	16.8	17.9	17.3	18.3	18.7
	4H	17.3	18.3	17.8	18.7	19.1	17.2	18.2	17.6	18.6	19.0
	6H	17.6	18.4	18.0	18.8	19.3	17.4	18.2	17.9	18.7	19.1
	8H	17.6	18.4	18.1	18.8	19.3	17.5	18.2	17.9	18.7	19.1
	12H	17.6	18.3	18.1	18.8	19.2	17.5	18.1	18.0	18.6	19.1
8H	4H	17.4	18.2	17.9	18.6	19.1	17.3	18.1	17.8	18.5	19.0
	6H	17.7	18.3	18.2	18.8	19.3	17.6	18.2	18.1	18.7	19.2
	8H	17.8	18.3	18.3	18.8	19.3	17.6	18.2	18.1	18.7	19.2
	12H	17.8	18.3	18.3	18.8	19.4	17.6	18.1	18.1	18.6	19.2
12H	4H	17.4	18.1	17.9	18.6	19.0	17.3	18.0	17.8	18.5	18.9
	6H	17.7	18.3	18.2	18.7	19.3	17.6	18.1	18.1	18.6	19.1
	8H	17.8	18.3	18.3	18.8	19.3	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 19.4

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POLAR GRAPH



Maximum Candela = 1107.811 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.)

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