IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-840-CS-SAF125-PC250-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] 2026-05-06
[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 w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-22-L30-840-CS-SAF125-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	3104
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	27.3
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	3102	3111	3114
55	2716	2643	2694
65	2105	2052	2118
75	1347	1395	1291
85	266	505	410

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1321.450	1321.450	1321.450	1321.450	1321.450
5	1326.753	1318.301	1311.507	1308.358	1308.689
10	1303.883	1296.757	1290.957	1288.306	1284.826
15	1265.436	1258.808	1256.653	1251.847	1249.693
20	1210.915	1207.932	1207.600	1194.674	1196.663
25	1141.644	1140.152	1137.501	1130.043	1133.026
30	1061.767	1058.452	1051.326	1051.326	1054.144
35	965.318	962.501	959.518	956.369	957.363
40	860.417	860.417	861.577	856.606	856.606
45	751.871	753.859	754.191	747.396	754.854
50	642.827	637.358	639.181	627.249	643.324
55	533.949	523.012	519.697	520.526	529.641
60	416.785	412.477	404.191	415.957	419.105
65	304.924	309.233	297.301	306.250	306.913
70	207.978	207.150	204.830	202.841	199.527
75	119.484	114.844	123.793	117.330	114.512
80	47.727	47.230	56.842	58.168	53.527
85	7.955	10.275	15.081	16.241	12.263
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	478.66	N.A.	15.40
0-30	1001.33	N.A.	32.30
0-40	1601.53	N.A.	51.60
0-60	2649.33	N.A.	85.30
0-80	3082.95	N.A.	99.30
0-90	3104.46	N.A.	100.00
10-90	2979.71	N.A.	96.00
20-40	1122.87	N.A.	36.20
20-50	1701.9	N.A.	54.80
40-70	1351.15	N.A.	43.50
60-80	433.62	N.A.	14.00
70-80	130.27	N.A.	4.20
80-90	21.51	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	3104.46	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.75
10-20	353.91
20-30	522.67
30-40	600.20
40-50	579.03
50-60	468.77
60-70	303.34
70-80	130.27
80-90	21.51
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	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

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UGR TABLE - CORRECTED

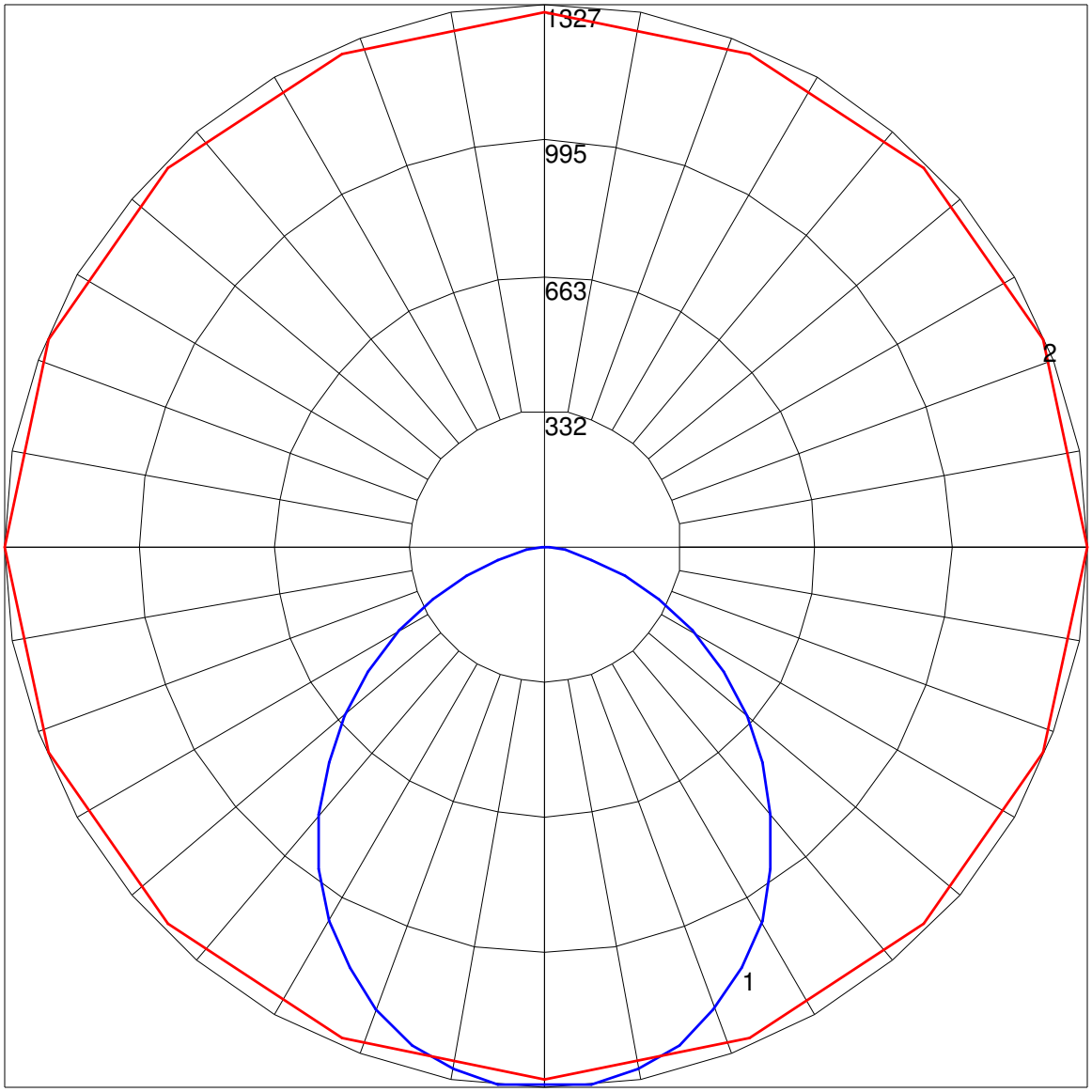
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.2	16.7	15.5	17.0	17.3	15.2	16.7	15.5	17.0	17.4
	3H	16.4	17.8	16.8	18.2	18.5	16.4	17.8	16.8	18.1	18.5
	4H	16.8	18.1	17.2	18.4	18.8	16.7	18.0	17.1	18.4	18.7
	6H	16.9	18.1	17.3	18.5	18.9	16.9	18.1	17.3	18.4	18.8
	8H	16.9	18.1	17.3	18.4	18.8	16.9	18.0	17.3	18.4	18.8
	12H	16.9	18.0	17.3	18.4	18.8	16.9	18.0	17.3	18.4	18.8
4H	2H	15.6	16.9	16.0	17.3	17.6	15.6	16.9	16.0	17.3	17.6
	3H	17.1	18.1	17.5	18.5	18.9	17.0	18.1	17.4	18.5	18.9
	4H	17.5	18.4	17.9	18.9	19.3	17.4	18.4	17.9	18.8	19.3
	6H	17.7	18.5	18.1	18.9	19.4	17.7	18.5	18.1	18.9	19.4
	8H	17.7	18.5	18.1	18.9	19.4	17.7	18.5	18.2	18.9	19.4
	12H	17.7	18.4	18.1	18.8	19.3	17.7	18.4	18.2	18.9	19.4
8H	4H	17.6	18.4	18.1	18.8	19.3	17.6	18.4	18.0	18.8	19.3
	6H	17.9	18.5	18.3	19.0	19.5	17.9	18.5	18.4	19.0	19.5
	8H	17.9	18.5	18.4	19.0	19.5	17.9	18.5	18.5	19.0	19.5
	12H	17.9	18.4	18.4	18.9	19.4	18.0	18.5	18.5	19.0	19.5
12H	4H	17.6	18.3	18.1	18.8	19.2	17.6	18.3	18.0	18.7	19.2
	6H	17.9	18.4	18.4	18.9	19.4	17.9	18.5	18.4	18.9	19.5
	8H	17.9	18.4	18.4	18.9	19.5	18.0	18.5	18.5	19.0	19.5

Maximum UGR = 19.5

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POLAR GRAPH



Maximum Candela = 1326.753 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.)

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