IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L85-950-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-L85-950-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	7679
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	77.8
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	11537	11508	11671
55	9179	9002	9045
65	6796	6432	6423
75	4569	3920	4028
85	1485	883	1445

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3414.452	3414.452	3414.452	3414.452	3414.452
5	3405.598	3404.793	3402.378	3395.134	3395.134
10	3346.839	3356.498	3354.083	3349.254	3345.229
15	3255.884	3269.567	3267.957	3275.202	3269.567
20	3130.317	3146.415	3144.805	3176.197	3156.074
25	2955.650	2978.188	2995.896	3024.068	2993.481
30	2738.323	2779.374	2798.692	2809.960	2785.813
35	2481.555	2533.874	2543.533	2527.435	2518.581
40	2199.029	2222.372	2223.982	2213.518	2228.811
45	1877.063	1876.258	1872.234	1869.014	1898.796
50	1545.438	1522.095	1527.730	1514.851	1539.804
55	1211.398	1194.495	1188.055	1194.495	1193.690
60	906.335	888.627	887.822	899.896	897.481
65	660.836	649.567	625.419	647.957	624.615
70	444.313	442.704	402.458	438.679	403.263
75	272.061	261.598	233.426	257.573	239.865
80	123.152	120.737	99.810	110.273	116.713
85	29.782	32.197	17.708	22.538	28.977
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1244.95	N.A.	16.20
0-30	2621.09	N.A.	34.10
0-40	4195.19	N.A.	54.60
0-60	6715.81	N.A.	87.50
0-80	7634.82	N.A.	99.40
0-90	7679.33	N.A.	100.00
10-90	7356.31	N.A.	95.80
20-40	2950.24	N.A.	38.40
20-50	4396.09	N.A.	57.20
40-70	3164.52	N.A.	41.20
60-80	919.02	N.A.	12.00
70-80	275.11	N.A.	3.60
80-90	44.51	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	7679.33	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	323.02
10-20	921.94
20-30	1376.14
30-40	1574.1
40-50	1445.85
50-60	1074.77
60-70	643.91
70-80	275.11
80-90	44.51
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	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	72	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	50
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

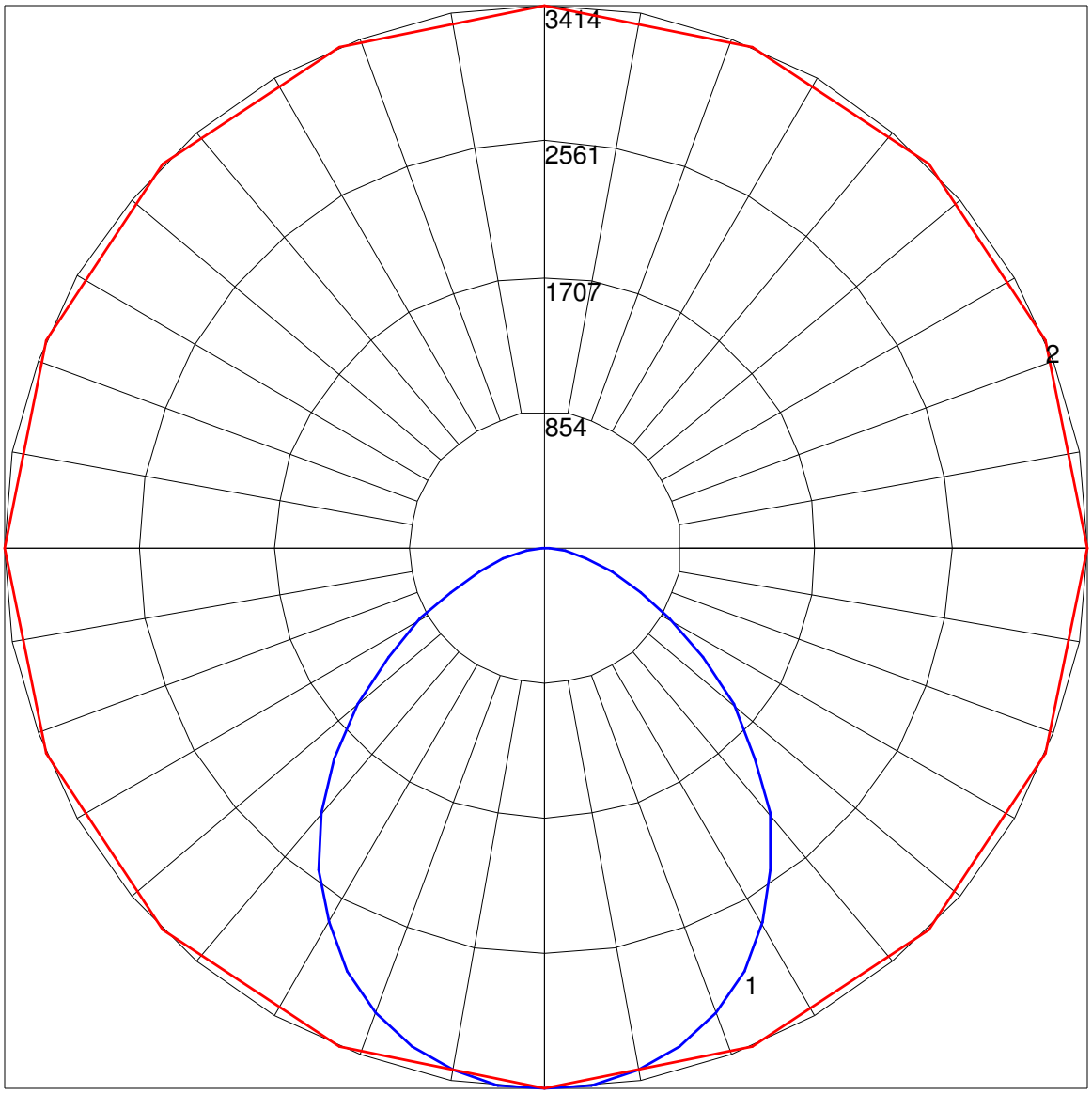
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.1	20.6	19.4	20.9	21.2	19.1	20.6	19.5	20.9	21.2
	3H	20.2	21.6	20.6	21.9	22.3	20.2	21.5	20.5	21.8	22.2
	4H	20.6	21.9	21.0	22.2	22.6	20.5	21.7	20.9	22.1	22.5
	6H	20.8	21.9	21.2	22.3	22.7	20.6	21.8	21.0	22.1	22.5
	8H	20.8	21.9	21.2	22.3	22.7	20.6	21.7	21.0	22.1	22.5
	12H	20.8	21.8	21.2	22.2	22.7	20.6	21.7	21.1	22.1	22.5
4H	2H	19.4	20.7	19.8	21.1	21.4	19.5	20.7	19.9	21.1	21.4
	3H	20.8	21.8	21.2	22.2	22.6	20.7	21.8	21.2	22.2	22.6
	4H	21.2	22.2	21.7	22.6	23.0	21.1	22.1	21.5	22.5	22.9
	6H	21.5	22.3	21.9	22.7	23.2	21.3	22.1	21.8	22.6	23.1
	8H	21.5	22.3	22.0	22.7	23.2	21.4	22.1	21.8	22.6	23.0
	12H	21.5	22.2	22.0	22.7	23.1	21.4	22.0	21.9	22.5	23.0
8H	4H	21.3	22.1	21.8	22.5	23.0	21.2	22.0	21.7	22.4	22.9
	6H	21.6	22.2	22.1	22.7	23.2	21.5	22.1	22.0	22.6	23.1
	8H	21.7	22.2	22.2	22.7	23.2	21.5	22.1	22.0	22.6	23.1
	12H	21.7	22.2	22.2	22.7	23.3	21.5	22.0	22.0	22.5	23.1
12H	4H	21.3	22.0	21.8	22.5	22.9	21.2	21.9	21.7	22.4	22.8
	6H	21.6	22.2	22.1	22.6	23.2	21.5	22.0	22.0	22.5	23.0
	8H	21.7	22.2	22.2	22.7	23.2	21.5	22.0	22.0	22.5	23.1

Maximum UGR = 23.3

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POLAR GRAPH



Maximum Candela = 3414.452 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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