IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L200-950-CS-SAF12125-PC250-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] 2026-05-06
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6-42 LED 22" ARRAYS 2x4' RECESSED WHITE REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-24-L200-950-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	18050
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	186.5
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	12213	12147	11816
55	10096	9896	9341
65	7320	7234	6712
75	4358	4486	4448
85	952	1313	1351

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	7863.062	7863.062	7863.062	7863.062	7863.062
5	7902.074	7852.659	7806.712	7788.506	7790.240
10	7784.171	7730.422	7700.079	7680.140	7683.608
15	7592.580	7543.165	7529.294	7486.814	7508.488
20	7315.162	7275.283	7277.017	7217.199	7242.340
25	6936.313	6912.906	6900.769	6840.951	6873.894
30	6482.041	6469.904	6429.159	6352.869	6390.147
35	5915.936	5928.073	5852.650	5731.279	5800.634
40	5241.464	5299.548	5178.178	5042.936	5126.162
45	4513.242	4579.128	4488.968	4325.118	4366.730
50	3774.617	3740.806	3752.076	3570.021	3564.819
55	3026.455	2953.633	2966.637	2798.453	2800.186
60	2285.230	2234.081	2220.210	2067.630	2094.505
65	1616.826	1584.749	1597.753	1481.585	1482.452
70	1057.656	1026.446	1063.724	1016.910	993.503
75	589.513	583.444	606.852	628.525	601.650
80	249.676	241.007	273.083	312.095	279.152
85	43.347	48.548	59.818	88.427	61.552
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2866.06	N.A.	15.90
0-30	6034.98	N.A.	33.40
0-40	9679.41	N.A.	53.60
0-60	15717.14	N.A.	87.10
0-80	17941.48	N.A.	99.40
0-90	18049.55	N.A.	100.00
10-90	17306.3	N.A.	95.90
20-40	6813.35	N.A.	37.70
20-50	10242.34	N.A.	56.70
40-70	7599.78	N.A.	42.10
60-80	2224.33	N.A.	12.30
70-80	662.28	N.A.	3.70
80-90	108.08	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	18049.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	743.25
10-20	2122.81
20-30	3168.92
30-40	3644.43
40-50	3428.99
50-60	2608.74
60-70	1562.05
70-80	662.28
80-90	108.08
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	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

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UGR TABLE - CORRECTED

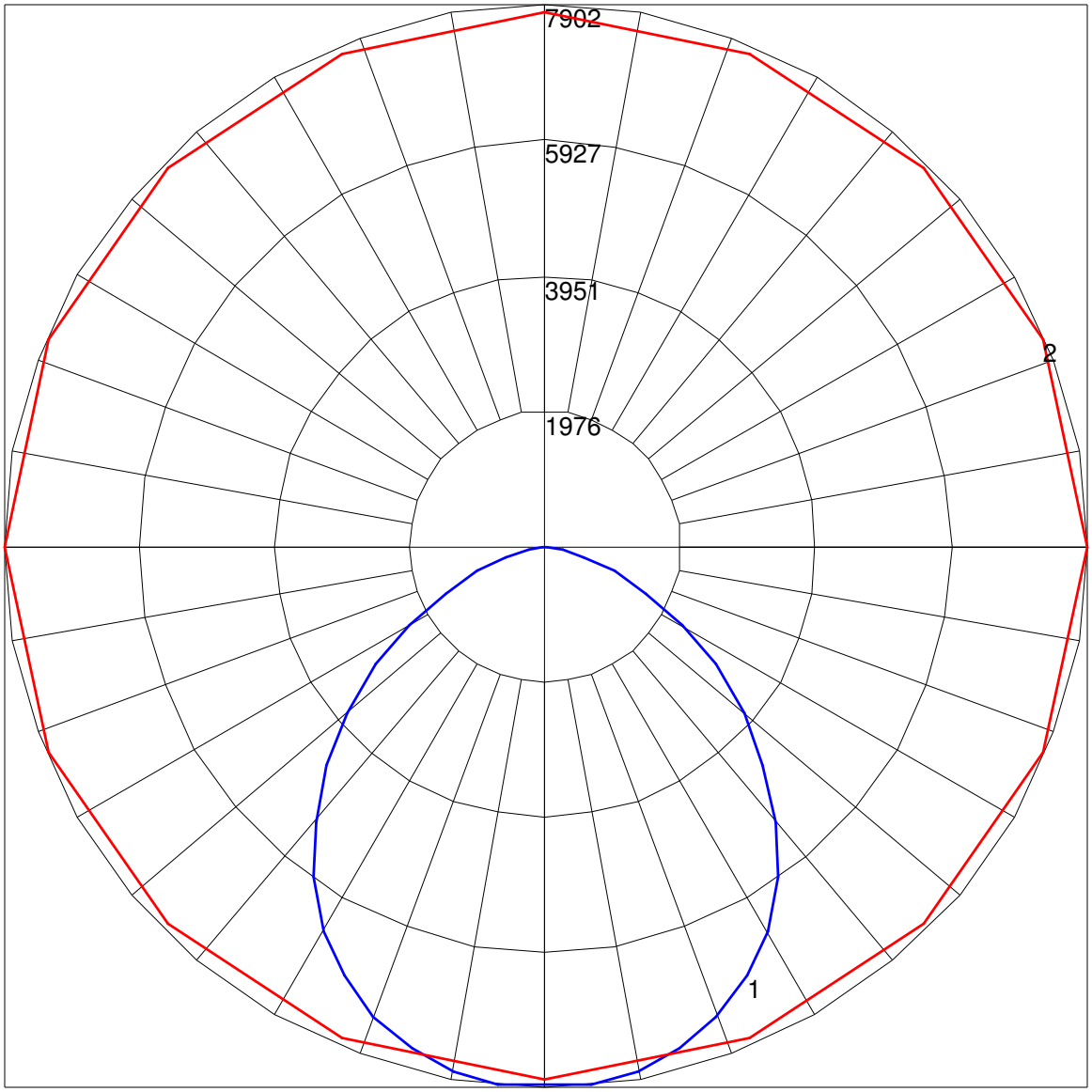
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.6	21.1	20.0	21.4	21.8	19.1	20.7	19.5	21.0	21.3
	3H	20.7	22.1	21.1	22.4	22.7	20.3	21.6	20.6	21.9	22.3
	4H	21.0	22.2	21.4	22.6	23.0	20.6	21.9	21.0	22.2	22.6
	6H	21.1	22.3	21.5	22.6	23.0	20.8	21.9	21.2	22.3	22.7
	8H	21.1	22.2	21.5	22.6	23.0	20.8	21.9	21.2	22.3	22.7
	12H	21.1	22.1	21.5	22.5	22.9	20.8	21.8	21.2	22.2	22.7
4H	2H	20.0	21.3	20.4	21.6	22.0	19.6	20.9	20.0	21.2	21.6
	3H	21.3	22.3	21.7	22.7	23.1	20.9	22.0	21.3	22.4	22.8
	4H	21.6	22.6	22.1	23.0	23.4	21.4	22.3	21.8	22.7	23.1
	6H	21.8	22.6	22.3	23.0	23.5	21.6	22.4	22.1	22.9	23.3
	8H	21.8	22.6	22.3	23.0	23.5	21.6	22.4	22.1	22.8	23.3
	12H	21.8	22.5	22.3	22.9	23.4	21.6	22.3	22.1	22.8	23.3
8H	4H	21.7	22.5	22.2	22.9	23.4	21.5	22.2	21.9	22.7	23.1
	6H	21.9	22.6	22.4	23.0	23.5	21.8	22.4	22.3	22.9	23.4
	8H	22.0	22.5	22.5	23.0	23.5	21.9	22.4	22.4	22.9	23.4
	12H	22.0	22.4	22.5	22.9	23.5	21.9	22.4	22.4	22.9	23.4
12H	4H	21.7	22.4	22.2	22.9	23.3	21.5	22.1	21.9	22.6	23.1
	6H	21.9	22.5	22.5	23.0	23.5	21.8	22.3	22.3	22.8	23.3
	8H	22.0	22.5	22.5	23.0	23.5	21.9	22.4	22.4	22.9	23.4

Maximum UGR = 23.5

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POLAR GRAPH



Maximum Candela = 7902.074 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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