IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L200-927-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-L200-927-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	16044
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
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	10856	10797	10503
55	8974	8797	8303
65	6507	6430	5966
75	3874	3988	3954
85	846	1167	1201

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	6989.389	6989.389	6989.389	6989.389	6989.389
5	7024.066	6980.142	6939.300	6923.117	6924.658
10	6919.264	6871.487	6844.515	6826.792	6829.874
15	6748.960	6705.036	6692.706	6654.947	6674.212
20	6502.367	6466.919	6468.460	6415.288	6437.636
25	6165.612	6144.806	6134.017	6080.846	6110.129
30	5761.815	5751.027	5714.808	5646.995	5680.131
35	5258.610	5269.398	5202.356	5094.471	5156.119
40	4659.079	4710.710	4602.825	4482.610	4556.589
45	4011.771	4070.337	3990.194	3844.549	3881.538
50	3355.215	3325.161	3335.179	3173.352	3168.729
55	2690.183	2625.452	2637.011	2487.514	2489.055
60	2031.315	1985.850	1973.520	1837.893	1861.782
65	1437.179	1408.666	1420.225	1316.964	1317.735
70	940.138	912.397	945.533	903.920	883.114
75	524.012	518.617	539.424	558.689	534.800
80	221.934	214.228	242.741	277.418	248.135
85	38.530	43.154	53.172	78.602	54.713
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2547.61	N.A.	15.90
0-30	5364.42	N.A.	33.40
0-40	8603.92	N.A.	53.60
0-60	13970.79	N.A.	87.10
0-80	15947.98	N.A.	99.40
0-90	16044.05	N.A.	100.00
10-90	15383.38	N.A.	95.90
20-40	6056.31	N.A.	37.70
20-50	9104.3	N.A.	56.70
40-70	6755.36	N.A.	42.10
60-80	1977.18	N.A.	12.30
70-80	588.70	N.A.	3.70
80-90	96.07	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	16044.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	660.67
10-20	1886.94
20-30	2816.82
30-40	3239.49
40-50	3047.99
50-60	2318.88
60-70	1388.49
70-80	588.70
80-90	96.07
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

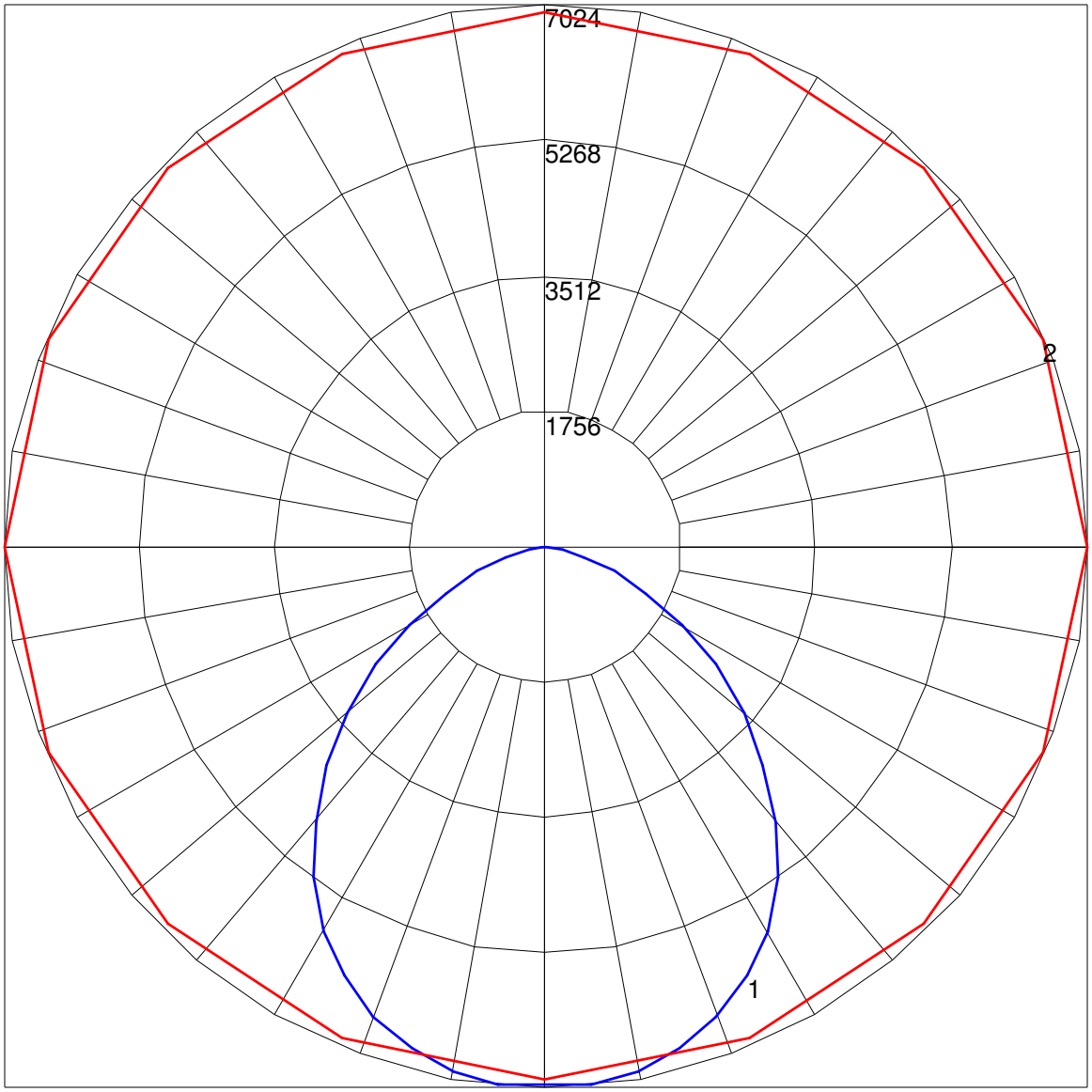
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.1	20.6	19.5	20.9	21.3	18.6	20.2	19.0	20.5	20.8
	3H	20.2	21.6	20.6	21.9	22.2	19.8	21.1	20.1	21.4	21.8
	4H	20.5	21.7	20.9	22.1	22.5	20.1	21.4	20.5	21.7	22.1
	6H	20.6	21.8	21.0	22.1	22.5	20.3	21.4	20.7	21.8	22.2
	8H	20.6	21.7	21.0	22.1	22.5	20.3	21.4	20.7	21.8	22.2
	12H	20.6	21.6	21.0	22.0	22.4	20.3	21.3	20.7	21.7	22.2
4H	2H	19.5	20.8	19.9	21.1	21.5	19.1	20.4	19.5	20.7	21.1
	3H	20.8	21.8	21.2	22.2	22.6	20.4	21.5	20.8	21.9	22.3
	4H	21.1	22.1	21.6	22.5	22.9	20.9	21.8	21.3	22.2	22.6
	6H	21.3	22.1	21.8	22.5	23.0	21.1	21.9	21.6	22.4	22.8
	8H	21.3	22.1	21.7	22.5	23.0	21.1	21.9	21.6	22.3	22.8
	12H	21.3	22.0	21.8	22.4	22.9	21.1	21.8	21.6	22.3	22.8
8H	4H	21.2	22.0	21.7	22.4	22.9	21.0	21.7	21.4	22.2	22.6
	6H	21.4	22.1	21.9	22.5	23.0	21.3	21.9	21.8	22.4	22.9
	8H	21.5	22.0	22.0	22.5	23.0	21.4	21.9	21.9	22.4	22.9
	12H	21.5	21.9	22.0	22.4	23.0	21.4	21.9	21.9	22.4	22.9
12H	4H	21.2	21.9	21.7	22.4	22.8	21.0	21.6	21.4	22.1	22.6
	6H	21.4	22.0	22.0	22.5	23.0	21.3	21.8	21.8	22.3	22.8
	8H	21.5	22.0	22.0	22.5	23.0	21.4	21.9	21.9	22.4	22.9

Maximum UGR = 23.0

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POLAR GRAPH



Maximum Candela = 7024.066 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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