IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L200-930-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] 6-42 LED 22" ARRAYS 2'x4' RECESSED WHITE REFL LUMINAIRE
[MORE] FROSTED ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-24-L200-930-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	16712
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	186.5
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)	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	10952	10986	10996
55	9589	9333	9511
65	7432	7246	7480
75	4755	4927	4557
85	940	1782	1449

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	7113.828	7113.828	7113.828	7113.828	7113.828
5	7142.376	7096.877	7060.300	7043.350	7045.134
10	7019.262	6980.901	6949.676	6935.402	6916.667
15	6812.288	6776.603	6765.006	6739.134	6727.536
20	6518.778	6502.720	6500.936	6431.350	6442.055
25	6145.869	6137.840	6123.566	6083.420	6099.478
30	5715.863	5698.021	5659.659	5659.659	5674.825
35	5196.645	5181.479	5165.420	5148.470	5153.823
40	4631.928	4631.928	4638.173	4611.409	4611.409
45	4047.584	4058.290	4060.074	4023.497	4063.642
50	3460.564	3431.124	3440.937	3376.704	3463.240
55	2874.436	2815.556	2797.713	2802.174	2851.241
60	2243.702	2220.506	2175.900	2239.241	2256.191
65	1641.515	1664.711	1600.477	1648.652	1652.221
70	1119.620	1115.160	1102.670	1091.965	1074.122
75	643.224	618.245	666.420	631.627	616.460
80	256.933	254.256	306.000	313.137	288.157
85	42.822	55.312	81.184	87.429	66.017
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2576.79	N.A.	15.40
0-30	5390.53	N.A.	32.30
0-40	8621.61	N.A.	51.60
0-60	14262.3	N.A.	85.30
0-80	16596.62	N.A.	99.30
0-90	16712.42	N.A.	100.00
10-90	16040.85	N.A.	96.00
20-40	6044.82	N.A.	36.20
20-50	9161.94	N.A.	54.80
40-70	7273.69	N.A.	43.50
60-80	2334.32	N.A.	14.00
70-80	701.31	N.A.	4.20
80-90	115.81	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	16712.42	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	671.58
10-20	1905.22
20-30	2813.73
30-40	3231.09
40-50	3117.12
50-60	2523.56
60-70	1633.01
70-80	701.31
80-90	115.81
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	45	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	19.6	21.2	20.0	21.5	21.8	19.6	21.2	20.0	21.5	21.8
	3H	20.9	22.3	21.3	22.6	23.0	20.8	22.2	21.2	22.6	22.9
	4H	21.2	22.5	21.6	22.9	23.2	21.2	22.5	21.6	22.8	23.2
	6H	21.3	22.5	21.8	22.9	23.3	21.3	22.5	21.7	22.9	23.3
	8H	21.3	22.5	21.8	22.9	23.3	21.3	22.5	21.8	22.9	23.3
	12H	21.3	22.4	21.8	22.8	23.2	21.3	22.4	21.8	22.8	23.2
4H	2H	20.0	21.3	20.4	21.7	22.1	20.1	21.4	20.5	21.7	22.1
	3H	21.5	22.6	21.9	23.0	23.4	21.5	22.5	21.9	22.9	23.3
	4H	21.9	22.9	22.3	23.3	23.7	21.9	22.8	22.3	23.2	23.7
	6H	22.1	22.9	22.5	23.4	23.8	22.1	22.9	22.6	23.4	23.8
	8H	22.1	22.9	22.6	23.3	23.8	22.1	22.9	22.6	23.4	23.8
	12H	22.1	22.8	22.6	23.3	23.8	22.1	22.8	22.6	23.3	23.8
8H	4H	22.0	22.8	22.5	23.3	23.7	22.0	22.8	22.5	23.2	23.7
	6H	22.3	22.9	22.8	23.4	23.9	22.3	23.0	22.8	23.4	23.9
	8H	22.3	22.9	22.8	23.4	23.9	22.4	23.0	22.9	23.5	24.0
	12H	22.3	22.8	22.8	23.3	23.9	22.4	22.9	22.9	23.4	24.0
12H	4H	22.0	22.7	22.5	23.2	23.7	22.0	22.7	22.5	23.2	23.6
	6H	22.3	22.9	22.8	23.3	23.9	22.3	22.9	22.8	23.3	23.9
	8H	22.3	22.8	22.8	23.3	23.9	22.4	22.9	22.9	23.4	24.0

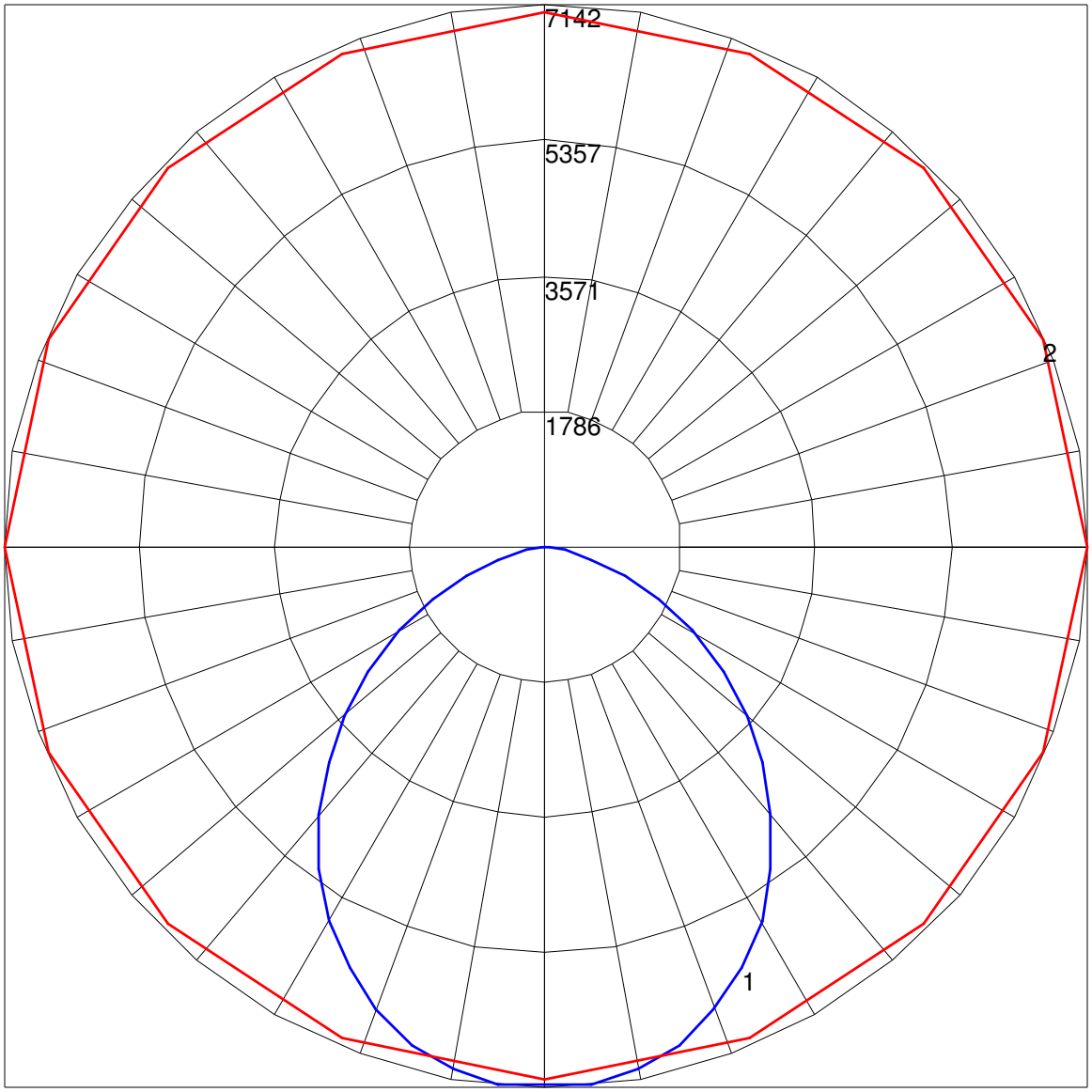
Maximum UGR = 24.0

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POLAR GRAPH



Maximum Candela = 7142.376 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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