IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L200-950-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-L200-950-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	18122
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)	1.20
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	11876	11913	11923
55	10397	10120	10314
65	8059	7857	8111
75	5156	5342	4942
85	1019	1933	1572

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	7713.789	7713.789	7713.789	7713.789	7713.789
5	7744.745	7695.409	7655.747	7637.367	7639.302
10	7611.248	7569.651	7535.794	7520.316	7500.001
15	7386.819	7348.124	7335.548	7307.495	7294.919
20	7068.555	7051.142	7049.208	6973.753	6985.361
25	6664.195	6655.489	6640.011	6596.480	6613.892
30	6197.924	6178.577	6136.980	6136.980	6153.425
35	5634.916	5618.471	5601.058	5582.678	5588.483
40	5022.573	5022.573	5029.344	5000.323	5000.323
45	4388.947	4400.555	4402.490	4362.828	4406.359
50	3752.419	3720.496	3731.137	3661.486	3755.321
55	3116.858	3053.012	3033.665	3038.502	3091.707
60	2432.929	2407.778	2359.410	2428.093	2446.473
65	1779.956	1805.108	1735.457	1787.695	1791.565
70	1214.046	1209.209	1195.666	1184.058	1164.711
75	697.472	670.386	722.624	684.896	668.451
80	278.602	275.700	331.807	339.546	312.460
85	46.434	59.977	88.030	94.802	71.585
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2794.11	N.A.	15.40
0-30	5845.15	N.A.	32.30
0-40	9348.74	N.A.	51.60
0-60	15465.14	N.A.	85.30
0-80	17996.33	N.A.	99.30
0-90	18121.9	N.A.	100.00
10-90	17393.69	N.A.	96.00
20-40	6554.62	N.A.	36.20
20-50	9934.63	N.A.	54.80
40-70	7887.14	N.A.	43.50
60-80	2531.19	N.A.	14.00
70-80	760.46	N.A.	4.20
80-90	125.57	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	18121.9	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	728.22
10-20	2065.9
20-30	3051.04
30-40	3503.59
40-50	3380.01
50-60	2736.39
60-70	1770.73
70-80	760.46
80-90	125.57
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	96	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

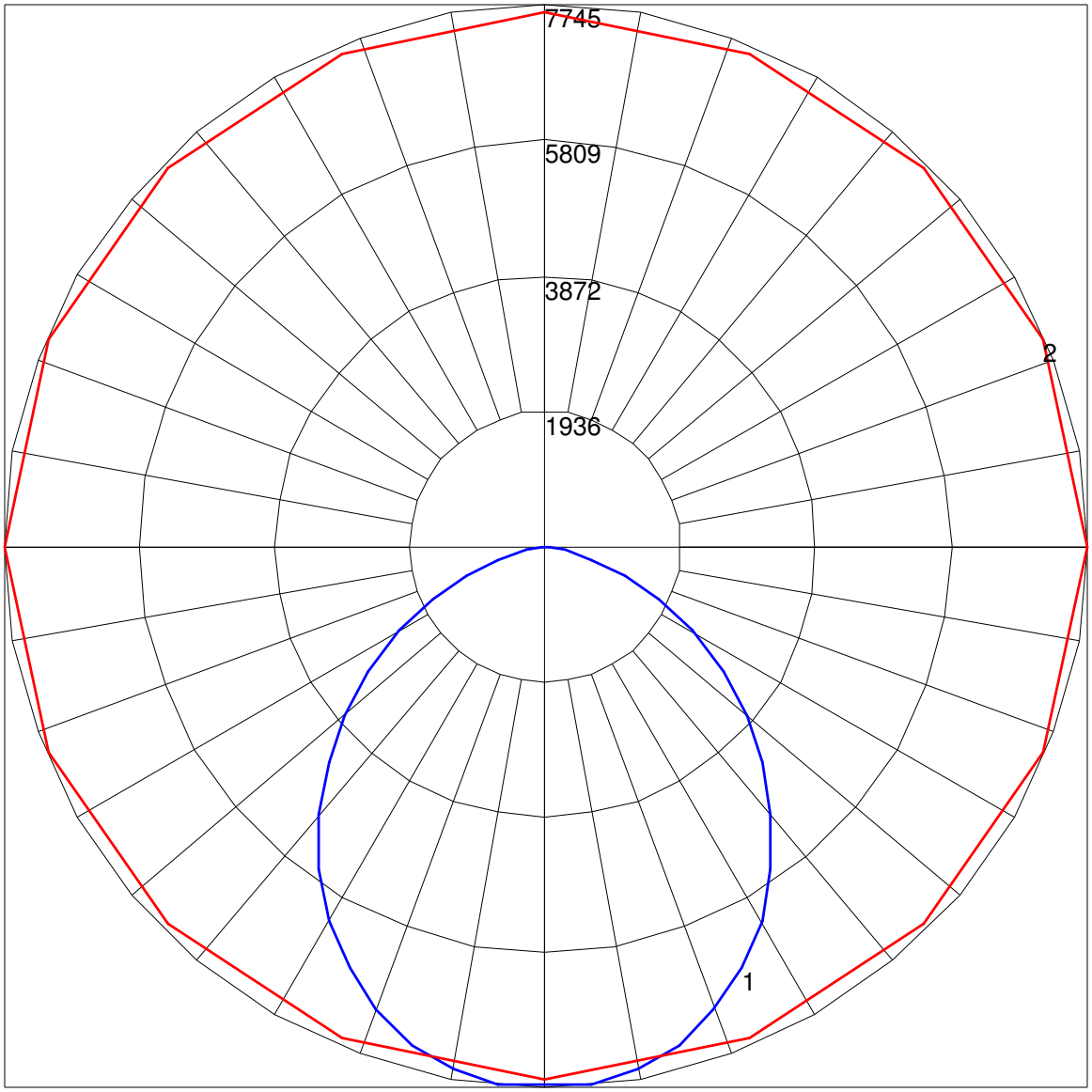
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.9	21.5	20.3	21.8	22.1	19.9	21.5	20.3	21.8	22.1
	3H	21.2	22.6	21.6	22.9	23.3	21.1	22.5	21.5	22.9	23.2
	4H	21.5	22.8	21.9	23.2	23.5	21.5	22.8	21.9	23.1	23.5
	6H	21.6	22.8	22.1	23.2	23.6	21.6	22.8	22.0	23.2	23.6
	8H	21.6	22.8	22.1	23.2	23.6	21.6	22.8	22.1	23.2	23.6
	12H	21.6	22.7	22.1	23.1	23.5	21.6	22.7	22.1	23.1	23.5
4H	2H	20.3	21.6	20.7	22.0	22.4	20.4	21.7	20.8	22.0	22.4
	3H	21.8	22.9	22.2	23.3	23.7	21.8	22.8	22.2	23.2	23.6
	4H	22.2	23.2	22.6	23.6	24.0	22.2	23.1	22.6	23.5	24.0
	6H	22.4	23.2	22.8	23.7	24.1	22.4	23.2	22.9	23.7	24.1
	8H	22.4	23.2	22.9	23.6	24.1	22.4	23.2	22.9	23.7	24.1
	12H	22.4	23.1	22.9	23.6	24.1	22.4	23.1	22.9	23.6	24.1
8H	4H	22.3	23.1	22.8	23.6	24.0	22.3	23.1	22.8	23.5	24.0
	6H	22.6	23.2	23.1	23.7	24.2	22.6	23.3	23.1	23.7	24.2
	8H	22.6	23.2	23.1	23.7	24.2	22.7	23.3	23.2	23.8	24.3
	12H	22.6	23.1	23.1	23.6	24.2	22.7	23.2	23.2	23.7	24.3
12H	4H	22.3	23.0	22.8	23.5	24.0	22.3	23.0	22.8	23.5	23.9
	6H	22.6	23.2	23.1	23.6	24.2	22.6	23.2	23.1	23.6	24.2
	8H	22.6	23.1	23.1	23.6	24.2	22.7	23.2	23.2	23.7	24.3

Maximum UGR = 24.3

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POLAR GRAPH



Maximum Candela = 7744.745 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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