IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-927-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-L120-927-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	9639
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	101.8
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	6317	6336	6342
55	5530	5382	5485
65	4286	4179	4314
75	2742	2841	2628
85	542	1028	836

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	4102.739	4102.739	4102.739	4102.739	4102.739
5	4119.203	4092.963	4071.868	4062.092	4063.121
10	4048.200	4026.076	4008.068	3999.836	3989.031
15	3928.833	3908.252	3901.563	3886.643	3879.954
20	3759.557	3750.296	3749.267	3709.135	3715.309
25	3544.490	3539.860	3531.628	3508.474	3517.736
30	3296.494	3286.204	3264.080	3264.080	3272.827
35	2997.047	2988.300	2979.039	2969.263	2972.350
40	2671.359	2671.359	2674.961	2659.525	2659.525
45	2334.352	2340.526	2341.556	2320.460	2343.614
50	1995.802	1978.823	1984.482	1947.437	1997.345
55	1657.766	1623.808	1613.517	1616.090	1644.388
60	1294.004	1280.627	1254.901	1291.431	1301.207
65	946.707	960.084	923.039	950.823	952.881
70	645.716	643.143	635.940	629.766	619.475
75	370.965	356.559	384.342	364.276	355.530
80	148.180	146.637	176.478	180.595	166.188
85	24.697	31.900	46.821	50.422	38.074
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1486.11	N.A.	15.40
0-30	3108.86	N.A.	32.30
0-40	4972.32	N.A.	51.60
0-60	8225.46	N.A.	85.30
0-80	9571.72	N.A.	99.30
0-90	9638.51	N.A.	100.00
10-90	9251.19	N.A.	96.00
20-40	3486.21	N.A.	36.20
20-50	5283.94	N.A.	54.80
40-70	4194.94	N.A.	43.50
60-80	1346.27	N.A.	14.00
70-80	404.47	N.A.	4.20
80-90	66.79	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	9638.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	387.32
10-20	1098.79
20-30	1622.76
30-40	1863.46
40-50	1797.73
50-60	1455.41
60-70	941.80
70-80	404.47
80-90	66.79
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	63	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

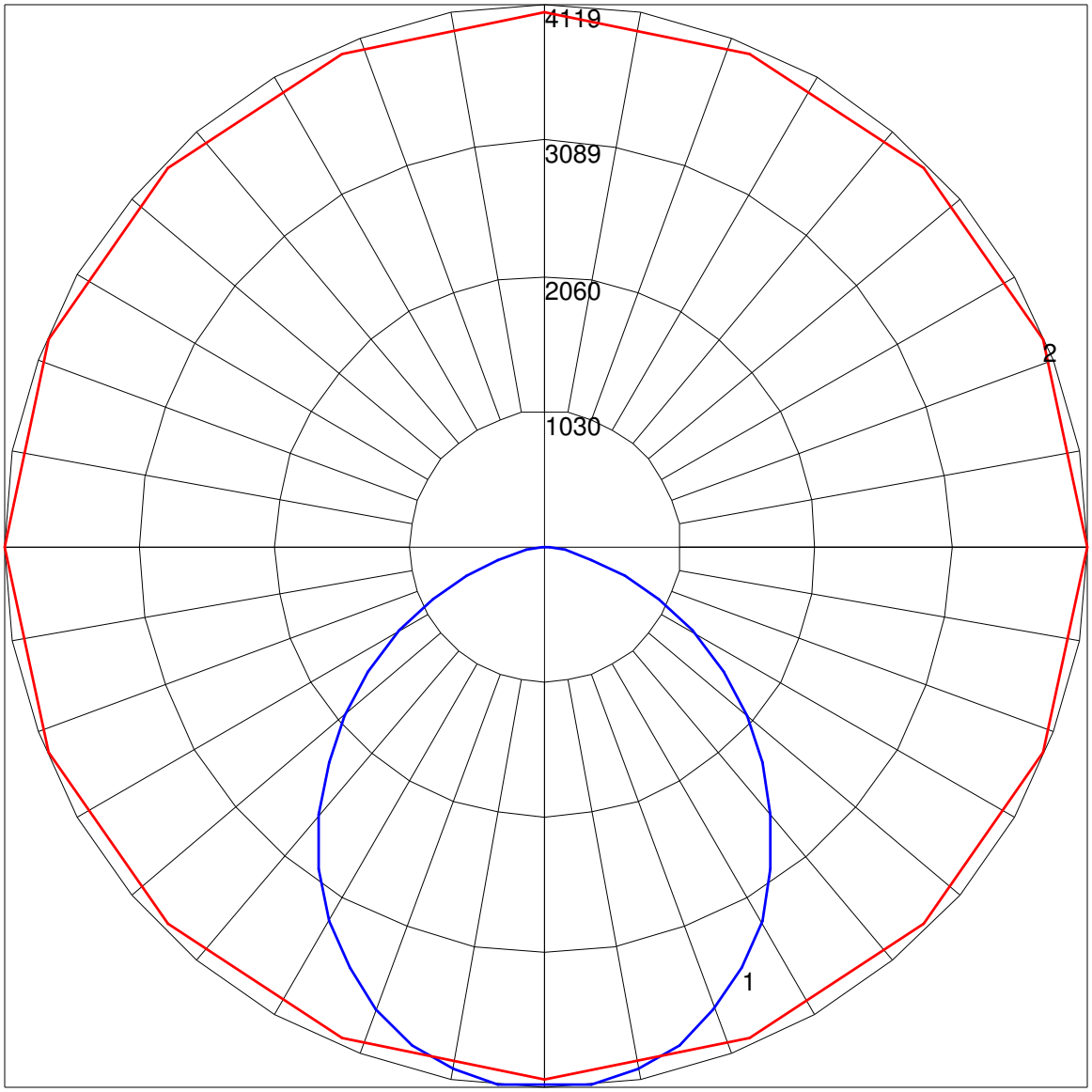
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.7	19.3	18.1	19.6	19.9	17.7	19.3	18.1	19.6	19.9
	3H	19.0	20.4	19.4	20.7	21.1	18.9	20.3	19.3	20.7	21.0
	4H	19.3	20.6	19.7	21.0	21.3	19.3	20.6	19.7	20.9	21.3
	6H	19.4	20.6	19.9	21.0	21.4	19.4	20.6	19.8	21.0	21.4
	8H	19.4	20.6	19.9	21.0	21.4	19.4	20.6	19.9	21.0	21.4
	12H	19.4	20.5	19.9	20.9	21.3	19.4	20.5	19.9	20.9	21.3
4H	2H	18.1	19.4	18.5	19.8	20.2	18.2	19.5	18.6	19.8	20.2
	3H	19.6	20.7	20.0	21.1	21.5	19.6	20.6	20.0	21.0	21.4
	4H	20.0	21.0	20.4	21.4	21.8	20.0	20.9	20.4	21.3	21.8
	6H	20.2	21.0	20.6	21.5	21.9	20.2	21.0	20.7	21.5	21.9
	8H	20.2	21.0	20.7	21.4	21.9	20.2	21.0	20.7	21.5	21.9
	12H	20.2	20.9	20.7	21.4	21.9	20.2	20.9	20.7	21.4	21.9
8H	4H	20.1	20.9	20.6	21.4	21.8	20.1	20.9	20.6	21.3	21.8
	6H	20.4	21.0	20.9	21.5	22.0	20.4	21.1	20.9	21.5	22.0
	8H	20.4	21.0	20.9	21.5	22.0	20.5	21.1	21.0	21.6	22.1
	12H	20.4	20.9	20.9	21.4	22.0	20.5	21.0	21.0	21.5	22.1
12H	4H	20.1	20.8	20.6	21.3	21.8	20.1	20.8	20.6	21.3	21.7
	6H	20.4	21.0	20.9	21.4	22.0	20.4	21.0	20.9	21.4	22.0
	8H	20.4	20.9	20.9	21.4	22.0	20.5	21.0	21.0	21.5	22.1

Maximum UGR = 22.1

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POLAR GRAPH



Maximum Candela = 4119.203 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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