IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-940-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-L120-940-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	10241
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	6711	6732	6738
55	5876	5719	5828
65	4554	4440	4584
75	2914	3019	2793
85	576	1092	888

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	4359.160	4359.160	4359.160	4359.160	4359.160
5	4376.653	4348.773	4326.359	4315.973	4317.066
10	4301.212	4277.705	4258.572	4249.825	4238.345
15	4174.385	4152.518	4145.411	4129.557	4122.451
20	3994.530	3984.690	3983.596	3940.956	3947.516
25	3766.021	3761.101	3752.354	3727.754	3737.594
30	3502.525	3491.592	3468.085	3468.085	3477.378
35	3184.362	3175.069	3165.229	3154.842	3158.122
40	2838.319	2838.319	2842.146	2825.746	2825.746
45	2480.249	2486.809	2487.903	2465.489	2490.089
50	2120.539	2102.499	2108.512	2069.152	2122.179
55	1761.376	1725.296	1714.362	1717.096	1747.163
60	1374.879	1360.666	1333.332	1372.146	1382.533
65	1005.876	1020.089	980.729	1010.249	1012.436
70	686.073	683.340	675.686	669.126	658.193
75	394.150	378.843	408.364	387.044	377.750
80	157.441	155.801	187.508	191.882	176.575
85	26.240	33.894	49.747	53.574	40.454
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1578.99	N.A.	15.40
0-30	3303.17	N.A.	32.30
0-40	5283.09	N.A.	51.60
0-60	8739.55	N.A.	85.30
0-80	10169.95	N.A.	99.30
0-90	10240.92	N.A.	100.00
10-90	9829.39	N.A.	96.00
20-40	3704.1	N.A.	36.20
20-50	5614.19	N.A.	54.80
40-70	4457.12	N.A.	43.50
60-80	1430.41	N.A.	14.00
70-80	429.74	N.A.	4.20
80-90	70.96	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	10240.92	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	411.52
10-20	1167.46
20-30	1724.18
30-40	1979.92
40-50	1910.09
50-60	1546.37
60-70	1000.66
70-80	429.74
80-90	70.96
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

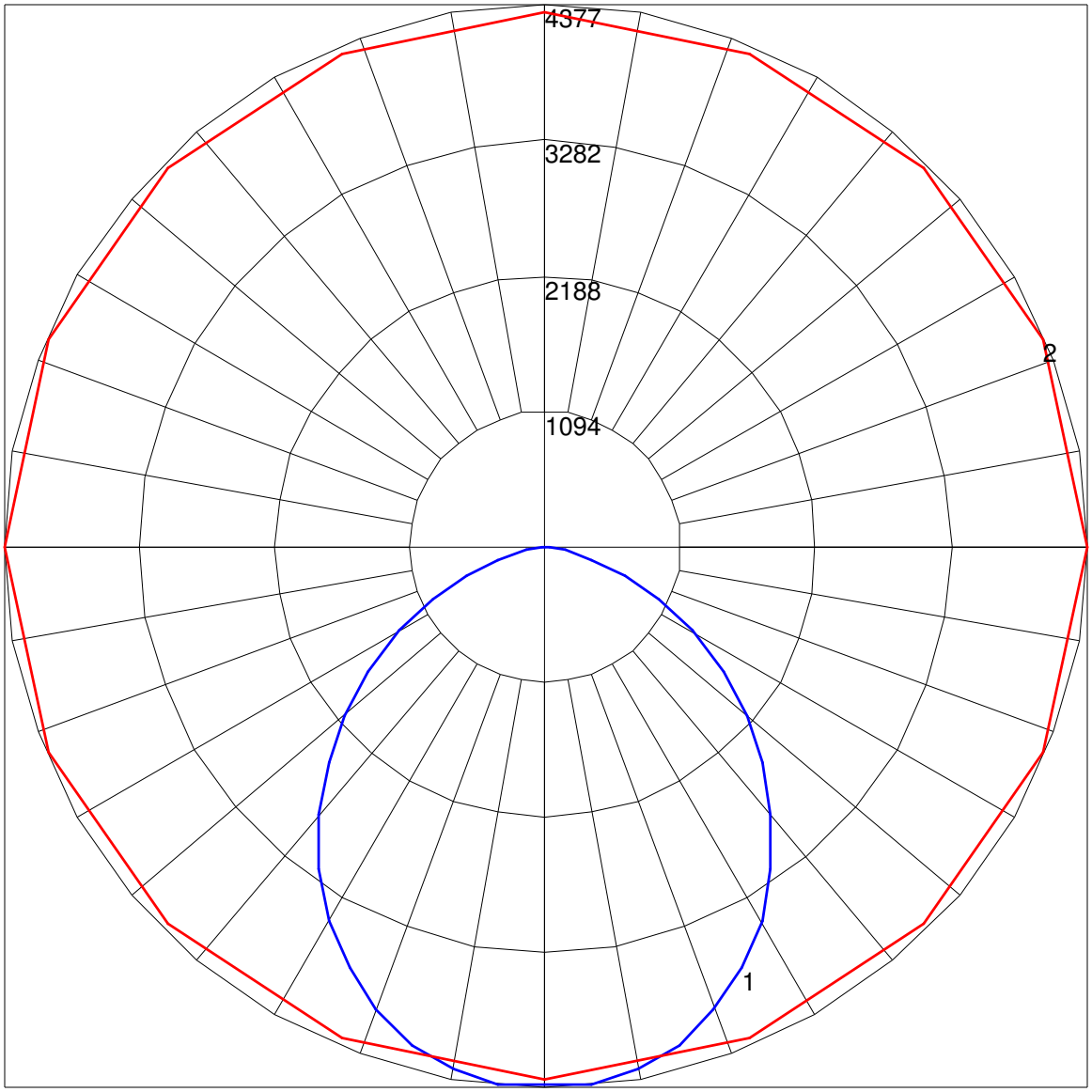
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.9	19.5	18.3	19.8	20.1	17.9	19.5	18.3	19.8	20.1
	3H	19.2	20.6	19.6	20.9	21.3	19.1	20.5	19.5	20.9	21.2
	4H	19.5	20.8	19.9	21.2	21.5	19.5	20.8	19.9	21.1	21.5
	6H	19.6	20.8	20.1	21.2	21.6	19.6	20.8	20.0	21.2	21.6
	8H	19.6	20.8	20.1	21.2	21.6	19.6	20.8	20.1	21.2	21.6
	12H	19.6	20.7	20.1	21.1	21.5	19.6	20.7	20.1	21.1	21.5
4H	2H	18.3	19.6	18.7	20.0	20.4	18.4	19.7	18.8	20.0	20.4
	3H	19.8	20.9	20.2	21.3	21.7	19.8	20.8	20.2	21.2	21.6
	4H	20.2	21.2	20.6	21.6	22.0	20.2	21.1	20.6	21.5	22.0
	6H	20.4	21.2	20.8	21.7	22.1	20.4	21.2	20.9	21.7	22.1
	8H	20.4	21.2	20.9	21.6	22.1	20.4	21.2	20.9	21.7	22.1
	12H	20.4	21.1	20.9	21.6	22.1	20.4	21.1	20.9	21.6	22.1
8H	4H	20.3	21.1	20.8	21.6	22.0	20.3	21.1	20.8	21.5	22.0
	6H	20.6	21.2	21.1	21.7	22.2	20.6	21.3	21.1	21.7	22.2
	8H	20.6	21.2	21.1	21.7	22.2	20.7	21.3	21.2	21.8	22.3
	12H	20.6	21.1	21.1	21.6	22.2	20.7	21.2	21.2	21.7	22.3
12H	4H	20.3	21.0	20.8	21.5	22.0	20.3	21.0	20.8	21.5	21.9
	6H	20.6	21.2	21.1	21.6	22.2	20.6	21.2	21.1	21.6	22.2
	8H	20.6	21.1	21.1	21.6	22.2	20.7	21.2	21.2	21.7	22.3

Maximum UGR = 22.3

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POLAR GRAPH



Maximum Candela = 4376.653 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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