IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L200-940-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-L200-940-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	17115
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	11216	11251	11261
55	9820	9558	9741
65	7611	7421	7661
75	4870	5045	4667
85	963	1825	1484

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	7285.246	7285.246	7285.246	7285.246	7285.246
5	7314.482	7267.887	7230.428	7213.069	7214.897
10	7188.402	7149.116	7117.139	7102.521	7083.335
15	6976.441	6939.896	6928.018	6901.523	6889.646
20	6675.858	6659.413	6657.585	6586.323	6597.286
25	6293.963	6285.740	6271.122	6230.009	6246.454
30	5853.595	5835.323	5796.037	5796.037	5811.569
35	5321.866	5306.334	5289.889	5272.530	5278.012
40	4743.541	4743.541	4749.936	4722.528	4722.528
45	4145.117	4156.080	4157.907	4120.449	4161.562
50	3543.951	3513.802	3523.852	3458.071	3546.692
55	2943.700	2883.401	2865.128	2869.696	2919.946
60	2297.767	2274.013	2228.331	2293.199	2310.558
65	1681.070	1704.824	1639.043	1688.379	1692.034
70	1146.599	1142.031	1129.241	1118.277	1100.005
75	658.724	633.142	682.478	646.847	631.315
80	263.124	260.383	313.373	320.682	295.101
85	43.854	56.645	83.140	89.535	67.608
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2638.89	N.A.	15.40
0-30	5520.42	N.A.	32.30
0-40	8829.36	N.A.	51.60
0-60	14605.97	N.A.	85.30
0-80	16996.54	N.A.	99.30
0-90	17115.13	N.A.	100.00
10-90	16427.37	N.A.	96.00
20-40	6190.48	N.A.	36.20
20-50	9382.71	N.A.	54.80
40-70	7448.96	N.A.	43.50
60-80	2390.57	N.A.	14.00
70-80	718.21	N.A.	4.20
80-90	118.60	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	17115.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	687.76
10-20	1951.13
20-30	2881.53
30-40	3308.94
40-50	3192.23
50-60	2584.37
60-70	1672.36
70-80	718.21
80-90	118.60
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

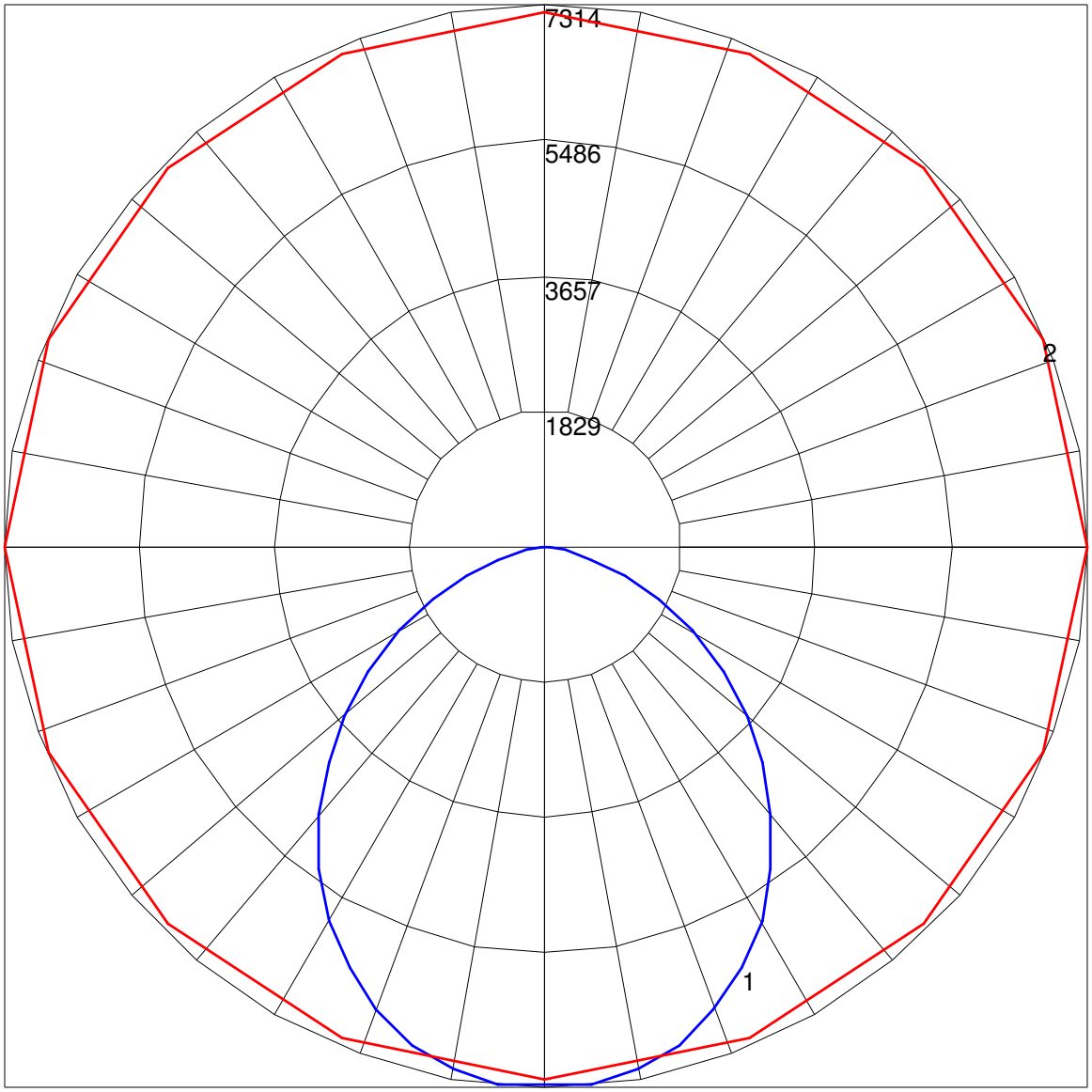
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.7	21.3	20.1	21.6	21.9	19.7	21.3	20.1	21.6	21.9
	3H	21.0	22.4	21.4	22.7	23.1	20.9	22.3	21.3	22.7	23.0
	4H	21.3	22.6	21.7	23.0	23.3	21.3	22.6	21.7	22.9	23.3
	6H	21.4	22.6	21.9	23.0	23.4	21.4	22.6	21.8	23.0	23.4
	8H	21.4	22.6	21.9	23.0	23.4	21.4	22.6	21.9	23.0	23.4
	12H	21.4	22.5	21.9	22.9	23.3	21.4	22.5	21.9	22.9	23.3
4H	2H	20.1	21.4	20.5	21.8	22.2	20.2	21.5	20.6	21.8	22.2
	3H	21.6	22.7	22.0	23.1	23.5	21.6	22.6	22.0	23.0	23.4
	4H	22.0	23.0	22.4	23.4	23.8	22.0	22.9	22.4	23.3	23.8
	6H	22.2	23.0	22.6	23.5	23.9	22.2	23.0	22.7	23.5	23.9
	8H	22.2	23.0	22.7	23.4	23.9	22.2	23.0	22.7	23.5	23.9
	12H	22.2	22.9	22.7	23.4	23.9	22.2	22.9	22.7	23.4	23.9
8H	4H	22.1	22.9	22.6	23.4	23.8	22.1	22.9	22.6	23.3	23.8
	6H	22.4	23.0	22.9	23.5	24.0	22.4	23.1	22.9	23.5	24.0
	8H	22.4	23.0	22.9	23.5	24.0	22.5	23.1	23.0	23.6	24.1
	12H	22.4	22.9	22.9	23.4	24.0	22.5	23.0	23.0	23.5	24.1
12H	4H	22.1	22.8	22.6	23.3	23.8	22.1	22.8	22.6	23.3	23.7
	6H	22.4	23.0	22.9	23.4	24.0	22.4	23.0	22.9	23.4	24.0
	8H	22.4	22.9	22.9	23.4	24.0	22.5	23.0	23.0	23.5	24.1

Maximum UGR = 24.1

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POLAR GRAPH



Maximum Candela = 7314.482 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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