IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L200-935-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-L200-935-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	16914
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	11084	11119	11128
55	9704	9445	9626
65	7521	7333	7570
75	4812	4986	4612
85	951	1804	1467

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	7199.536	7199.536	7199.536	7199.536	7199.536
5	7228.428	7182.382	7145.364	7128.209	7130.015
10	7103.831	7065.008	7033.407	7018.961	7000.001
15	6894.364	6858.249	6846.512	6820.328	6808.591
20	6597.318	6581.066	6579.260	6508.836	6519.670
25	6219.915	6211.789	6197.343	6156.714	6172.966
30	5784.729	5766.671	5727.848	5727.848	5743.197
35	5259.255	5243.906	5227.654	5210.500	5215.917
40	4687.734	4687.734	4694.054	4666.968	4666.968
45	4096.350	4107.185	4108.990	4071.972	4112.602
50	3502.257	3472.463	3482.394	3417.387	3504.966
55	2909.068	2849.478	2831.420	2835.935	2885.593
60	2270.734	2247.259	2202.115	2266.220	2283.374
65	1661.293	1684.767	1619.760	1668.516	1672.127
70	1133.110	1128.595	1115.955	1105.121	1087.063
75	650.974	625.693	674.449	639.236	623.888
80	260.028	257.320	309.687	316.910	291.629
85	43.338	55.978	82.162	88.482	66.813
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2607.84	N.A.	15.40
0-30	5455.47	N.A.	32.30
0-40	8725.49	N.A.	51.60
0-60	14434.13	N.A.	85.30
0-80	16796.57	N.A.	99.30
0-90	16913.78	N.A.	100.00
10-90	16234.11	N.A.	96.00
20-40	6117.65	N.A.	36.20
20-50	9272.32	N.A.	54.80
40-70	7361.33	N.A.	43.50
60-80	2362.44	N.A.	14.00
70-80	709.76	N.A.	4.20
80-90	117.20	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	16913.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	679.67
10-20	1928.17
20-30	2847.63
30-40	3270.01
40-50	3154.68
50-60	2553.97
60-70	1652.68
70-80	709.76
80-90	117.20
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

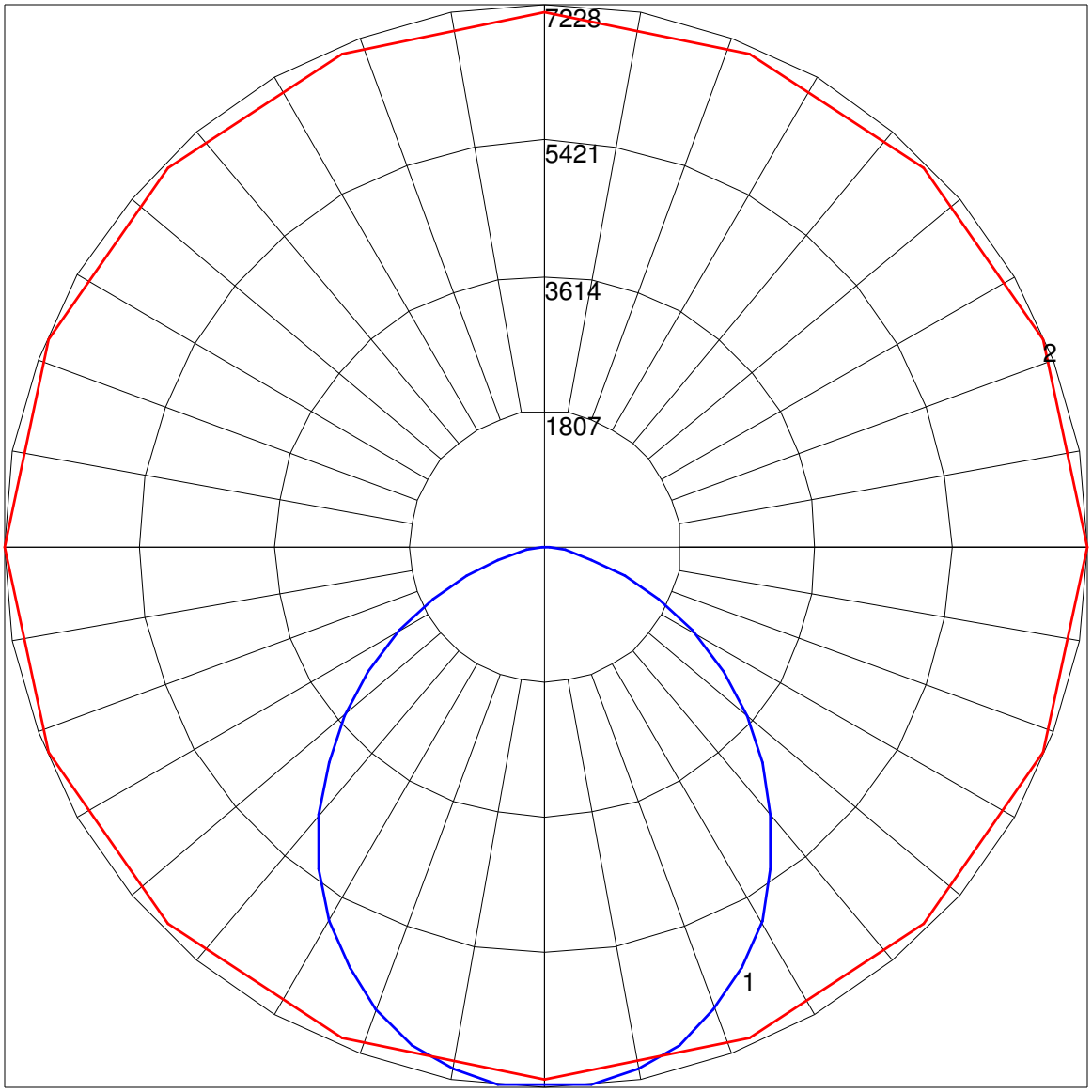
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.6	21.2	20.0	21.5	21.8	19.6	21.2	20.0	21.5	21.8
	3H	20.9	22.3	21.3	22.6	23.0	20.8	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 = 7228.428 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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