IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-840-CS-SAF12125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 19835.0
[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 2x4' RECESSED WHITE REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-24-L120-840-CS-SAF12125-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	12360
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	101.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
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	8363	8318	8091
55	6913	6777	6397
65	5013	4954	4596
75	2984	3072	3046
85	652	899	925

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	5384.495	5384.495	5384.495	5384.495	5384.495
5	5411.210	5377.371	5345.907	5333.440	5334.628
10	5330.472	5293.665	5272.887	5259.233	5261.607
15	5199.273	5165.435	5155.936	5126.847	5141.688
20	5009.302	4981.994	4983.181	4942.218	4959.435
25	4749.873	4733.844	4725.533	4684.570	4707.129
30	4438.795	4430.484	4402.582	4350.340	4375.867
35	4051.135	4059.446	4007.798	3924.685	3972.178
40	3589.268	3629.043	3545.930	3453.320	3510.311
45	3090.593	3135.711	3073.971	2961.769	2990.265
50	2584.795	2561.642	2569.360	2444.691	2441.129
55	2072.467	2022.599	2031.504	1916.334	1917.521
60	1564.887	1529.862	1520.363	1415.879	1434.282
65	1107.176	1085.210	1094.115	1014.565	1015.158
70	724.265	702.893	728.421	696.363	680.334
75	403.689	399.533	415.562	430.403	412.000
80	170.974	165.037	187.003	213.718	191.158
85	29.683	33.245	40.963	60.553	42.150
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1962.63	N.A.	15.90
0-30	4132.65	N.A.	33.40
0-40	6628.3	N.A.	53.60
0-60	10762.84	N.A.	87.10
0-80	12286.03	N.A.	99.40
0-90	12360.04	N.A.	100.00
10-90	11851.07	N.A.	95.90
20-40	4665.67	N.A.	37.70
20-50	7013.79	N.A.	56.70
40-70	5204.21	N.A.	42.10
60-80	1523.19	N.A.	12.30
70-80	453.52	N.A.	3.70
80-90	74.01	N.A.	0.60
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	12360.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	508.97
10-20	1453.66
20-30	2170.02
30-40	2495.65
40-50	2348.12
50-60	1786.42
60-70	1069.66
70-80	453.52
80-90	74.01
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	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

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UGR TABLE - CORRECTED

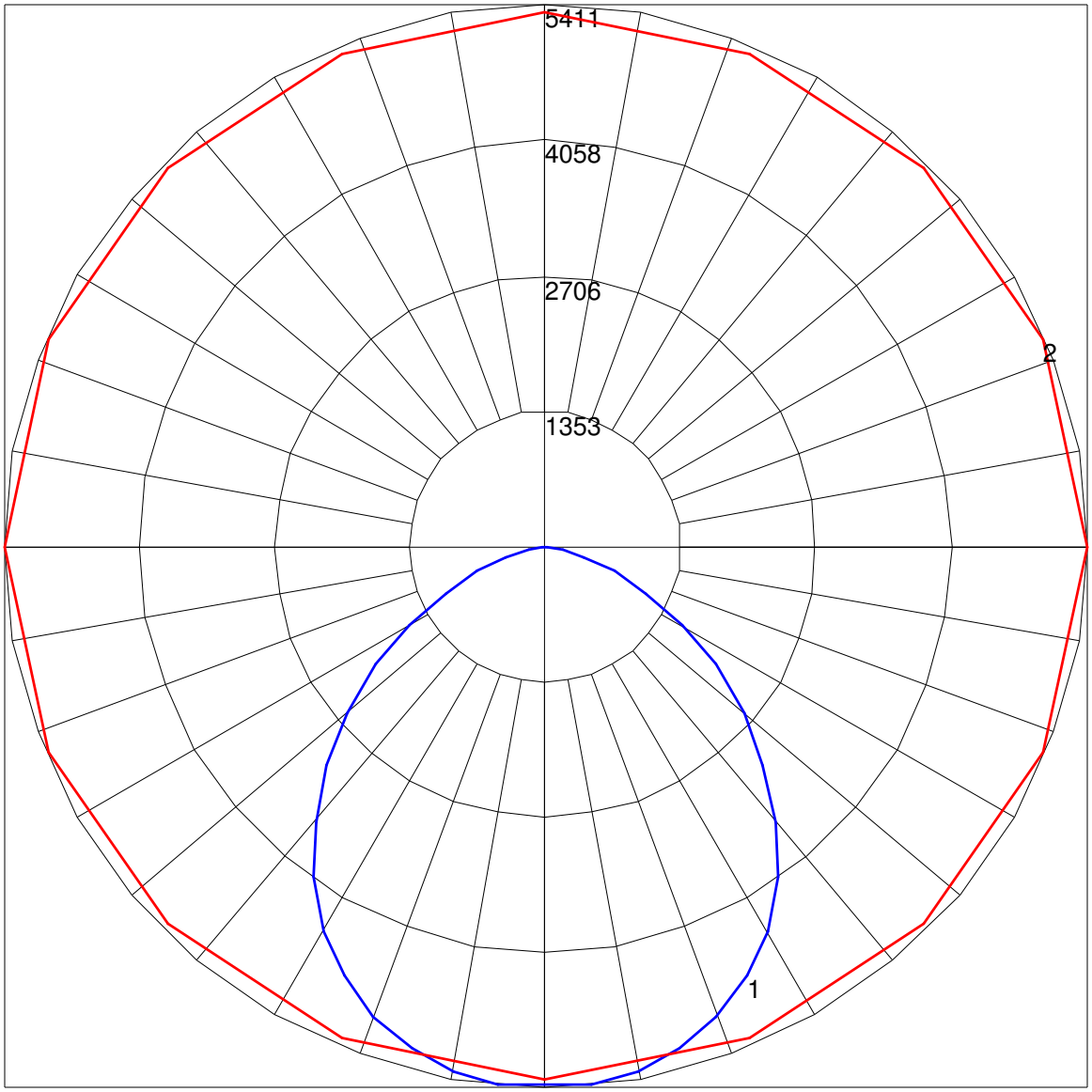
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.2	19.7	18.6	20.0	20.4	17.7	19.3	18.1	19.6	19.9
	3H	19.3	20.7	19.7	21.0	21.3	18.9	20.2	19.2	20.5	20.9
	4H	19.6	20.8	20.0	21.2	21.6	19.2	20.5	19.6	20.8	21.2
	6H	19.7	20.9	20.1	21.2	21.6	19.4	20.5	19.8	20.9	21.3
	8H	19.7	20.8	20.1	21.2	21.6	19.4	20.5	19.8	20.9	21.3
	12H	19.7	20.7	20.1	21.1	21.5	19.4	20.4	19.8	20.8	21.3
4H	2H	18.6	19.9	19.0	20.2	20.6	18.2	19.5	18.6	19.8	20.2
	3H	19.9	20.9	20.3	21.3	21.7	19.5	20.6	19.9	21.0	21.4
	4H	20.2	21.2	20.7	21.6	22.0	20.0	20.9	20.4	21.3	21.7
	6H	20.4	21.2	20.9	21.6	22.1	20.2	21.0	20.7	21.5	21.9
	8H	20.4	21.2	20.9	21.6	22.1	20.2	21.0	20.7	21.4	21.9
	12H	20.4	21.1	20.9	21.5	22.0	20.2	20.9	20.7	21.4	21.9
8H	4H	20.3	21.1	20.8	21.5	22.0	20.1	20.8	20.5	21.3	21.7
	6H	20.5	21.2	21.0	21.6	22.1	20.4	21.0	20.9	21.5	22.0
	8H	20.6	21.1	21.1	21.6	22.1	20.5	21.0	21.0	21.5	22.0
	12H	20.6	21.0	21.1	21.5	22.1	20.5	21.0	21.0	21.5	22.0
12H	4H	20.3	21.0	20.8	21.5	21.9	20.1	20.7	20.5	21.2	21.7
	6H	20.5	21.1	21.1	21.6	22.1	20.4	20.9	20.9	21.4	21.9
	8H	20.6	21.1	21.1	21.6	22.1	20.5	21.0	21.0	21.5	22.0

Maximum UGR = 22.1

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POLAR GRAPH



Maximum Candela = 5411.21 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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