IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-950-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-L120-950-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	10843
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	7106	7128	7134
55	6221	6055	6171
65	4822	4701	4853
75	3085	3197	2957
85	610	1156	940

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	4615.581	4615.581	4615.581	4615.581	4615.581
5	4634.103	4604.583	4580.851	4569.853	4571.011
10	4554.225	4529.335	4509.076	4499.815	4487.660
15	4419.937	4396.784	4389.259	4372.473	4364.948
20	4229.502	4219.083	4217.926	4172.777	4179.723
25	3987.552	3982.342	3973.081	3947.034	3957.453
30	3708.556	3696.980	3672.090	3672.090	3681.930
35	3371.678	3361.838	3351.419	3340.421	3343.894
40	3005.279	3005.279	3009.331	2991.966	2991.966
45	2626.146	2633.092	2634.250	2610.518	2636.565
50	2245.277	2226.176	2232.543	2190.867	2247.013
55	1864.986	1826.784	1815.207	1818.101	1849.937
60	1455.754	1440.705	1411.763	1452.860	1463.858
65	1065.045	1080.095	1038.419	1069.676	1071.991
70	726.430	723.536	715.432	708.486	696.910
75	417.336	401.128	432.385	409.811	399.971
80	166.703	164.966	198.538	203.169	186.962
85	27.784	35.887	52.673	56.725	42.833
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1671.87	N.A.	15.40
0-30	3497.47	N.A.	32.30
0-40	5593.86	N.A.	51.60
0-60	9253.64	N.A.	85.30
0-80	10768.19	N.A.	99.30
0-90	10843.32	N.A.	100.00
10-90	10407.59	N.A.	96.00
20-40	3921.99	N.A.	36.20
20-50	5944.43	N.A.	54.80
40-70	4719.3	N.A.	43.50
60-80	1514.55	N.A.	14.00
70-80	455.02	N.A.	4.20
80-90	75.14	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	10843.32	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	435.73
10-20	1236.14
20-30	1825.6
30-40	2096.39
40-50	2022.45
50-60	1637.33
60-70	1059.53
70-80	455.02
80-90	75.14
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

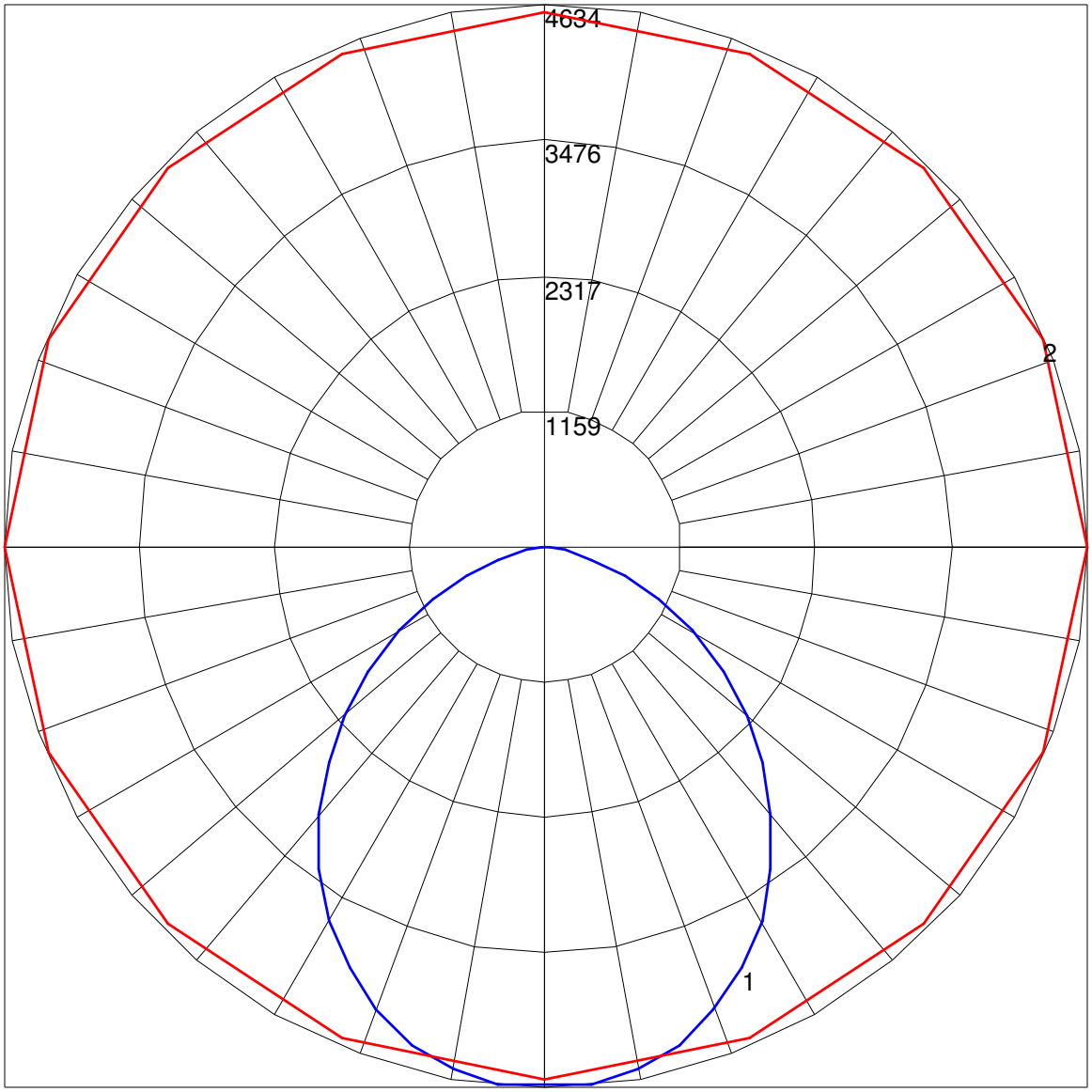
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.1	19.7	18.5	20.0	20.3	18.1	19.7	18.5	20.0	20.3
	3H	19.4	20.8	19.8	21.1	21.5	19.3	20.7	19.7	21.1	21.4
	4H	19.7	21.0	20.1	21.4	21.7	19.7	21.0	20.1	21.3	21.7
	6H	19.8	21.0	20.3	21.4	21.8	19.8	21.0	20.2	21.4	21.8
	8H	19.8	21.0	20.3	21.4	21.8	19.8	21.0	20.3	21.4	21.8
	12H	19.8	20.9	20.3	21.3	21.7	19.8	20.9	20.3	21.3	21.7
4H	2H	18.5	19.8	18.9	20.2	20.6	18.6	19.9	19.0	20.2	20.6
	3H	20.0	21.1	20.4	21.5	21.9	20.0	21.0	20.4	21.4	21.8
	4H	20.4	21.4	20.8	21.8	22.2	20.4	21.3	20.8	21.7	22.2
	6H	20.6	21.4	21.0	21.9	22.3	20.6	21.4	21.1	21.9	22.3
	8H	20.6	21.4	21.1	21.8	22.3	20.6	21.4	21.1	21.9	22.3
	12H	20.6	21.3	21.1	21.8	22.3	20.6	21.3	21.1	21.8	22.3
8H	4H	20.5	21.3	21.0	21.8	22.2	20.5	21.3	21.0	21.7	22.2
	6H	20.8	21.4	21.3	21.9	22.4	20.8	21.5	21.3	21.9	22.4
	8H	20.8	21.4	21.3	21.9	22.4	20.9	21.5	21.4	22.0	22.5
	12H	20.8	21.3	21.3	21.8	22.4	20.9	21.4	21.4	21.9	22.5
12H	4H	20.5	21.2	21.0	21.7	22.2	20.5	21.2	21.0	21.7	22.1
	6H	20.8	21.4	21.3	21.8	22.4	20.8	21.4	21.3	21.8	22.4
	8H	20.8	21.3	21.3	21.8	22.4	20.9	21.4	21.4	21.9	22.5

Maximum UGR = 22.5

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POLAR GRAPH



Maximum Candela = 4634.103 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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