IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-835-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-L120-835-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	12000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
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	8119	8076	7856
55	6712	6579	6210
65	4867	4809	4462
75	2897	2983	2957
85	633	873	898

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	5227.666	5227.666	5227.666	5227.666	5227.666
5	5253.603	5220.750	5190.202	5178.098	5179.251
10	5175.217	5139.482	5119.309	5106.052	5108.358
15	5047.839	5014.986	5005.764	4977.522	4991.931
20	4863.401	4836.888	4838.041	4798.271	4814.986
25	4611.528	4595.966	4587.897	4548.127	4570.029
30	4309.510	4301.441	4274.352	4223.632	4248.415
35	3933.142	3941.211	3891.067	3810.375	3856.484
40	3484.727	3523.343	3442.652	3352.738	3408.069
45	3000.577	3044.381	2984.438	2875.505	2903.170
50	2509.510	2487.032	2494.525	2373.487	2370.029
55	2012.104	1963.689	1972.334	1860.519	1861.672
60	1519.308	1485.303	1476.081	1374.640	1392.507
65	1074.928	1053.602	1062.248	985.014	985.591
70	703.170	682.421	707.205	676.081	660.519
75	391.931	387.896	403.458	417.867	400.000
80	165.994	160.231	181.556	207.493	185.591
85	28.818	32.277	39.769	58.790	40.922
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1905.47	N.A.	15.90
0-30	4012.29	N.A.	33.40
0-40	6435.24	N.A.	53.60
0-60	10449.36	N.A.	87.10
0-80	11928.18	N.A.	99.40
0-90	12000.04	N.A.	100.00
10-90	11505.9	N.A.	95.90
20-40	4529.78	N.A.	37.70
20-50	6809.5	N.A.	56.70
40-70	5052.63	N.A.	42.10
60-80	1478.82	N.A.	12.30
70-80	440.31	N.A.	3.70
80-90	71.85	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	12000.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	494.14
10-20	1411.32
20-30	2106.82
30-40	2422.96
40-50	2279.73
50-60	1734.39
60-70	1038.51
70-80	440.31
80-90	71.85
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

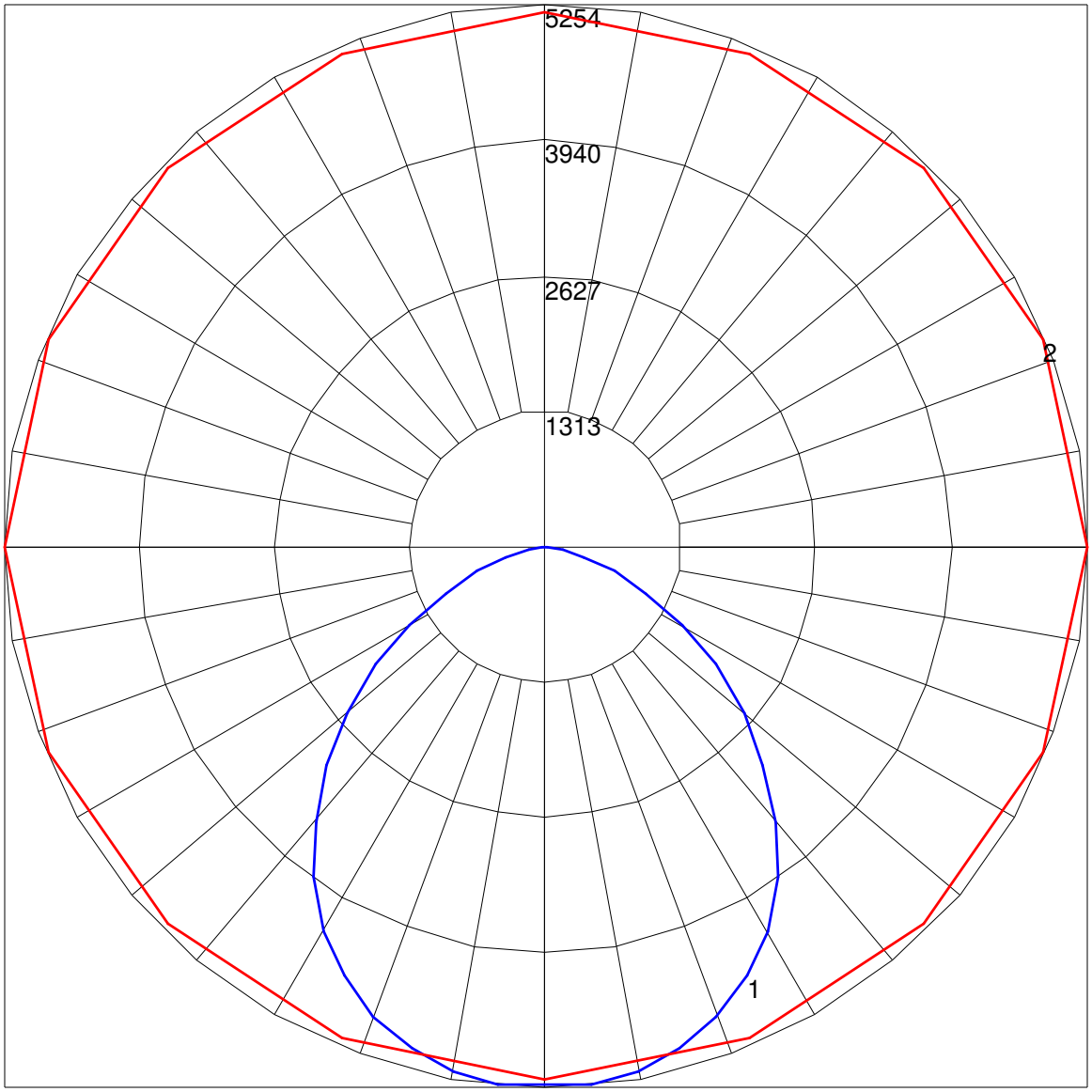
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.1	19.6	18.5	19.9	20.3	17.6	19.2	18.0	19.5	19.8
	3H	19.2	20.6	19.6	20.9	21.2	18.8	20.1	19.1	20.4	20.8
	4H	19.5	20.7	19.9	21.1	21.5	19.1	20.4	19.5	20.7	21.1
	6H	19.6	20.8	20.0	21.1	21.5	19.3	20.4	19.7	20.8	21.2
	8H	19.6	20.7	20.0	21.1	21.5	19.3	20.4	19.7	20.8	21.2
	12H	19.6	20.6	20.0	21.0	21.4	19.3	20.3	19.7	20.7	21.2
4H	2H	18.5	19.8	18.9	20.1	20.5	18.1	19.4	18.5	19.7	20.1
	3H	19.8	20.8	20.2	21.2	21.6	19.4	20.5	19.8	20.9	21.3
	4H	20.1	21.1	20.6	21.5	21.9	19.9	20.8	20.3	21.2	21.6
	6H	20.3	21.1	20.8	21.5	22.0	20.1	20.9	20.6	21.4	21.8
	8H	20.3	21.1	20.8	21.5	22.0	20.1	20.9	20.6	21.3	21.8
	12H	20.3	21.0	20.8	21.4	21.9	20.1	20.8	20.6	21.3	21.8
8H	4H	20.2	21.0	20.7	21.4	21.9	20.0	20.7	20.4	21.2	21.6
	6H	20.4	21.1	20.9	21.5	22.0	20.3	20.9	20.8	21.4	21.9
	8H	20.5	21.0	21.0	21.5	22.0	20.4	20.9	20.9	21.4	21.9
	12H	20.5	20.9	21.0	21.4	22.0	20.4	20.9	20.9	21.4	21.9
12H	4H	20.2	20.9	20.7	21.4	21.8	20.0	20.6	20.4	21.1	21.6
	6H	20.4	21.0	21.0	21.5	22.0	20.3	20.8	20.8	21.3	21.8
	8H	20.5	21.0	21.0	21.5	22.0	20.4	20.9	20.9	21.4	21.9

Maximum UGR = 22.0

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POLAR GRAPH



Maximum Candela = 5253.603 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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