IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-935-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-L120-935-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	10080
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	6820	6784	6599
55	5638	5527	5217
65	4088	4040	3748
75	2434	2505	2484
85	531	733	755

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	4391.239	4391.239	4391.239	4391.239	4391.239
5	4413.026	4385.429	4359.769	4349.602	4350.570
10	4347.181	4317.164	4300.219	4289.083	4291.020
15	4240.184	4212.588	4204.841	4181.118	4193.222
20	4085.256	4062.985	4063.954	4030.547	4044.588
25	3873.683	3860.611	3853.833	3820.426	3838.824
30	3619.988	3613.210	3590.455	3547.850	3568.668
35	3303.838	3310.616	3268.495	3200.714	3239.446
40	2927.170	2959.608	2891.827	2816.299	2862.778
45	2520.484	2557.279	2506.928	2415.423	2438.663
50	2107.988	2089.106	2095.400	1993.729	1990.824
55	1690.167	1649.498	1656.761	1562.836	1563.804
60	1276.219	1247.654	1239.908	1154.697	1169.706
65	902.939	885.026	892.288	827.412	827.896
70	590.663	573.233	594.052	567.908	554.836
75	329.222	325.833	338.905	351.009	336.000
80	139.435	134.594	152.507	174.294	155.896
85	24.207	27.112	33.406	49.383	34.375
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1600.59	N.A.	15.90
0-30	3370.32	N.A.	33.40
0-40	5405.6	N.A.	53.60
0-60	8777.46	N.A.	87.10
0-80	10019.67	N.A.	99.40
0-90	10080.03	N.A.	100.00
10-90	9664.95	N.A.	95.90
20-40	3805.01	N.A.	37.70
20-50	5719.98	N.A.	56.70
40-70	4244.21	N.A.	42.10
60-80	1242.21	N.A.	12.30
70-80	369.86	N.A.	3.70
80-90	60.36	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	10080.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	415.08
10-20	1185.51
20-30	1769.73
30-40	2035.28
40-50	1914.97
50-60	1456.89
60-70	872.35
70-80	369.86
80-90	60.36
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

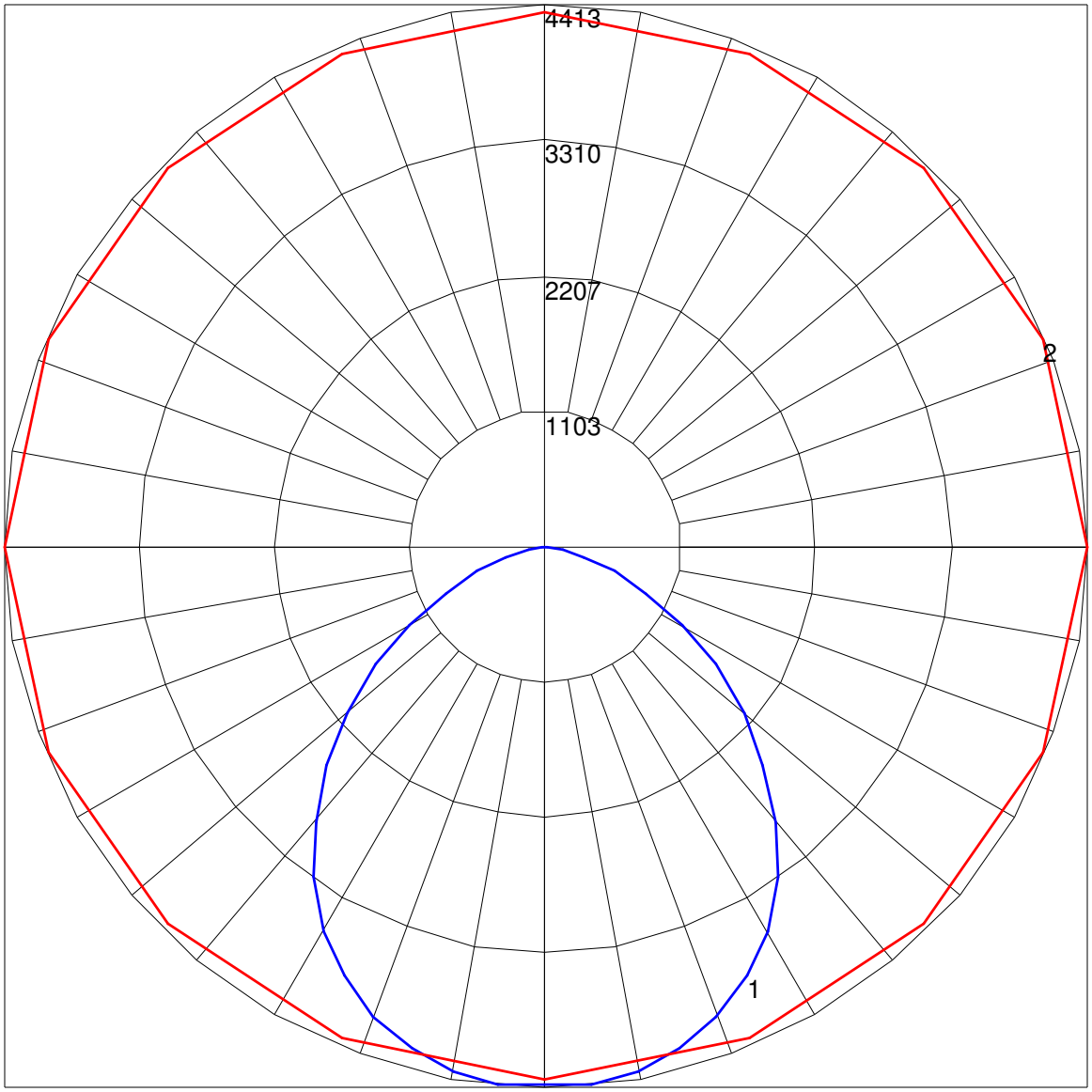
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.5	19.0	17.9	19.3	19.7	17.0	18.6	17.4	18.9	19.2
	3H	18.6	20.0	19.0	20.3	20.6	18.2	19.5	18.5	19.8	20.2
	4H	18.9	20.1	19.3	20.5	20.9	18.5	19.8	18.9	20.1	20.5
	6H	19.0	20.2	19.4	20.5	20.9	18.7	19.8	19.1	20.2	20.6
	8H	19.0	20.1	19.4	20.5	20.9	18.7	19.8	19.1	20.2	20.6
	12H	19.0	20.0	19.4	20.4	20.8	18.7	19.7	19.1	20.1	20.6
4H	2H	17.9	19.2	18.3	19.5	19.9	17.5	18.8	17.9	19.1	19.5
	3H	19.2	20.2	19.6	20.6	21.0	18.8	19.9	19.2	20.3	20.7
	4H	19.5	20.5	20.0	20.9	21.3	19.3	20.2	19.7	20.6	21.0
	6H	19.7	20.5	20.2	20.9	21.4	19.5	20.3	20.0	20.8	21.2
	8H	19.7	20.5	20.2	20.9	21.4	19.5	20.3	20.0	20.7	21.2
	12H	19.7	20.4	20.2	20.8	21.3	19.5	20.2	20.0	20.7	21.2
8H	4H	19.6	20.4	20.1	20.8	21.3	19.4	20.1	19.8	20.6	21.0
	6H	19.8	20.5	20.3	20.9	21.4	19.7	20.3	20.2	20.8	21.3
	8H	19.9	20.4	20.4	20.9	21.4	19.8	20.3	20.3	20.8	21.3
	12H	19.9	20.3	20.4	20.8	21.4	19.8	20.3	20.3	20.8	21.3
12H	4H	19.6	20.3	20.1	20.8	21.2	19.4	20.0	19.8	20.5	21.0
	6H	19.8	20.4	20.4	20.9	21.4	19.7	20.2	20.2	20.7	21.2
	8H	19.9	20.4	20.4	20.9	21.4	19.8	20.3	20.3	20.8	21.3

Maximum UGR = 21.4

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POLAR GRAPH



Maximum Candela = 4413.026 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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