IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-950-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-L120-950-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	10800
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	7307	7268	7070
55	6041	5922	5589
65	4380	4328	4016
75	2608	2684	2661
85	569	786	809

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	4704.899	4704.899	4704.899	4704.899	4704.899
5	4728.242	4698.675	4671.182	4660.288	4661.326
10	4657.695	4625.533	4607.378	4595.447	4597.522
15	4543.055	4513.487	4505.188	4479.770	4492.738
20	4377.061	4353.199	4354.237	4318.444	4333.487
25	4150.375	4136.369	4129.107	4093.314	4113.026
30	3878.559	3871.297	3846.917	3801.268	3823.574
35	3539.827	3547.089	3501.960	3429.337	3470.836
40	3136.254	3171.009	3098.386	3017.464	3067.262
45	2700.519	2739.942	2685.994	2587.954	2612.853
50	2258.559	2238.329	2245.072	2136.138	2133.026
55	1810.893	1767.320	1775.101	1674.467	1675.504
60	1367.378	1336.772	1328.473	1237.176	1253.257
65	967.435	948.242	956.023	886.513	887.032
70	632.853	614.179	636.484	608.473	594.467
75	352.738	349.107	363.112	376.081	360.000
80	149.395	144.207	163.401	186.744	167.032
85	25.937	29.049	35.793	52.911	36.830
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1714.92	N.A.	15.90
0-30	3611.06	N.A.	33.40
0-40	5791.72	N.A.	53.60
0-60	9404.42	N.A.	87.10
0-80	10735.36	N.A.	99.40
0-90	10800.03	N.A.	100.00
10-90	10355.31	N.A.	95.90
20-40	4076.8	N.A.	37.70
20-50	6128.55	N.A.	56.70
40-70	4547.37	N.A.	42.10
60-80	1330.94	N.A.	12.30
70-80	396.28	N.A.	3.70
80-90	64.67	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	10800.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	444.73
10-20	1270.19
20-30	1896.14
30-40	2180.66
40-50	2051.75
50-60	1560.95
60-70	934.66
70-80	396.28
80-90	64.67
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

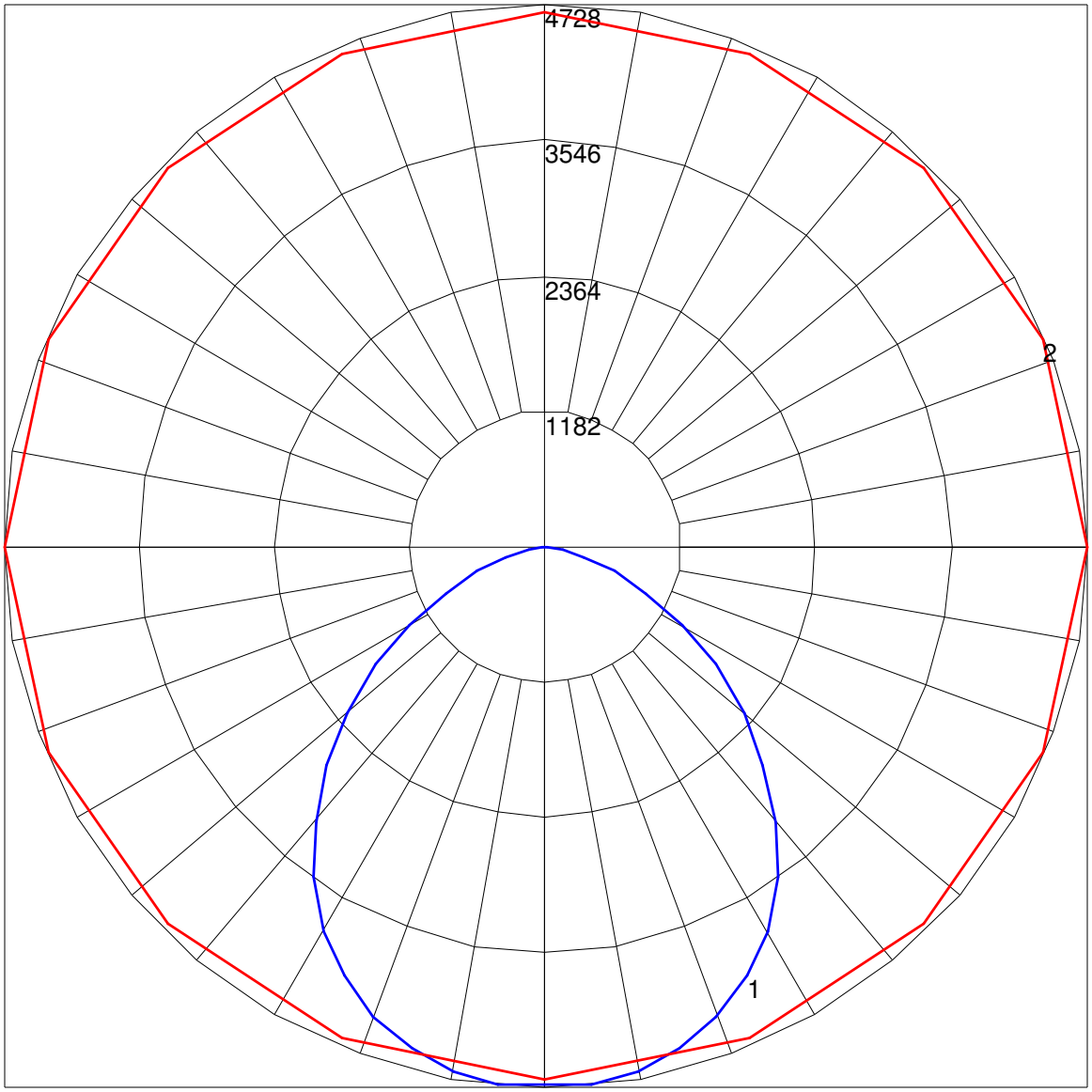
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.8	19.3	18.2	19.6	20.0	17.3	18.9	17.7	19.2	19.5
	3H	18.9	20.3	19.3	20.6	20.9	18.5	19.8	18.8	20.1	20.5
	4H	19.2	20.4	19.6	20.8	21.2	18.8	20.1	19.2	20.4	20.8
	6H	19.3	20.5	19.7	20.8	21.2	19.0	20.1	19.4	20.5	20.9
	8H	19.3	20.4	19.7	20.8	21.2	19.0	20.1	19.4	20.5	20.9
	12H	19.3	20.3	19.7	20.7	21.1	19.0	20.0	19.4	20.4	20.9
4H	2H	18.2	19.5	18.6	19.8	20.2	17.8	19.1	18.2	19.4	19.8
	3H	19.5	20.5	19.9	20.9	21.3	19.1	20.2	19.5	20.6	21.0
	4H	19.8	20.8	20.3	21.2	21.6	19.6	20.5	20.0	20.9	21.3
	6H	20.0	20.8	20.5	21.2	21.7	19.8	20.6	20.3	21.1	21.5
	8H	20.0	20.8	20.4	21.2	21.7	19.8	20.6	20.3	21.0	21.5
	12H	20.0	20.7	20.5	21.1	21.6	19.8	20.5	20.3	21.0	21.5
8H	4H	19.9	20.7	20.4	21.1	21.6	19.7	20.4	20.1	20.9	21.3
	6H	20.1	20.8	20.6	21.2	21.7	20.0	20.6	20.5	21.1	21.6
	8H	20.2	20.7	20.7	21.2	21.7	20.1	20.6	20.6	21.1	21.6
	12H	20.2	20.6	20.7	21.1	21.7	20.1	20.6	20.6	21.1	21.6
12H	4H	19.9	20.6	20.4	21.1	21.5	19.7	20.3	20.1	20.8	21.3
	6H	20.1	20.7	20.7	21.2	21.7	20.0	20.5	20.5	21.0	21.5
	8H	20.2	20.7	20.7	21.2	21.7	20.1	20.6	20.6	21.1	21.6

Maximum UGR = 21.7

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POLAR GRAPH



Maximum Candela = 4728.242 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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