IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-827-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-L120-827-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	11640
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	7876	7833	7620
55	6511	6382	6024
65	4721	4665	4328
75	2811	2893	2868
85	614	847	871

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	5070.836	5070.836	5070.836	5070.836	5070.836
5	5095.994	5064.127	5034.496	5022.755	5023.873
10	5019.960	4985.297	4965.729	4952.870	4955.107
15	4896.403	4864.536	4855.591	4828.196	4842.173
20	4717.498	4691.781	4692.899	4654.323	4670.536
25	4473.181	4458.086	4450.259	4411.683	4432.928
30	4180.225	4172.398	4146.121	4096.922	4120.962
35	3815.147	3822.974	3774.334	3696.063	3740.790
40	3380.184	3417.643	3339.372	3252.156	3305.827
45	2910.559	2953.049	2894.905	2789.239	2816.075
50	2434.225	2412.421	2419.689	2302.282	2298.928
55	1951.741	1904.778	1913.164	1804.703	1805.821
60	1473.729	1440.743	1431.798	1333.401	1350.732
65	1042.680	1021.994	1030.380	955.464	956.023
70	682.075	661.948	685.988	655.798	640.703
75	380.173	376.259	391.354	405.331	388.000
80	161.014	155.424	176.110	201.268	180.023
85	27.954	31.308	38.576	57.026	39.695
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1848.3	N.A.	15.90
0-30	3891.92	N.A.	33.40
0-40	6242.18	N.A.	53.60
0-60	10135.88	N.A.	87.10
0-80	11570.34	N.A.	99.40
0-90	11640.04	N.A.	100.00
10-90	11160.72	N.A.	95.90
20-40	4393.88	N.A.	37.70
20-50	6605.22	N.A.	56.70
40-70	4901.05	N.A.	42.10
60-80	1434.46	N.A.	12.30
70-80	427.10	N.A.	3.70
80-90	69.70	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	11640.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	479.32
10-20	1368.98
20-30	2043.62
30-40	2350.27
40-50	2211.33
50-60	1682.36
60-70	1007.35
70-80	427.10
80-90	69.70
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

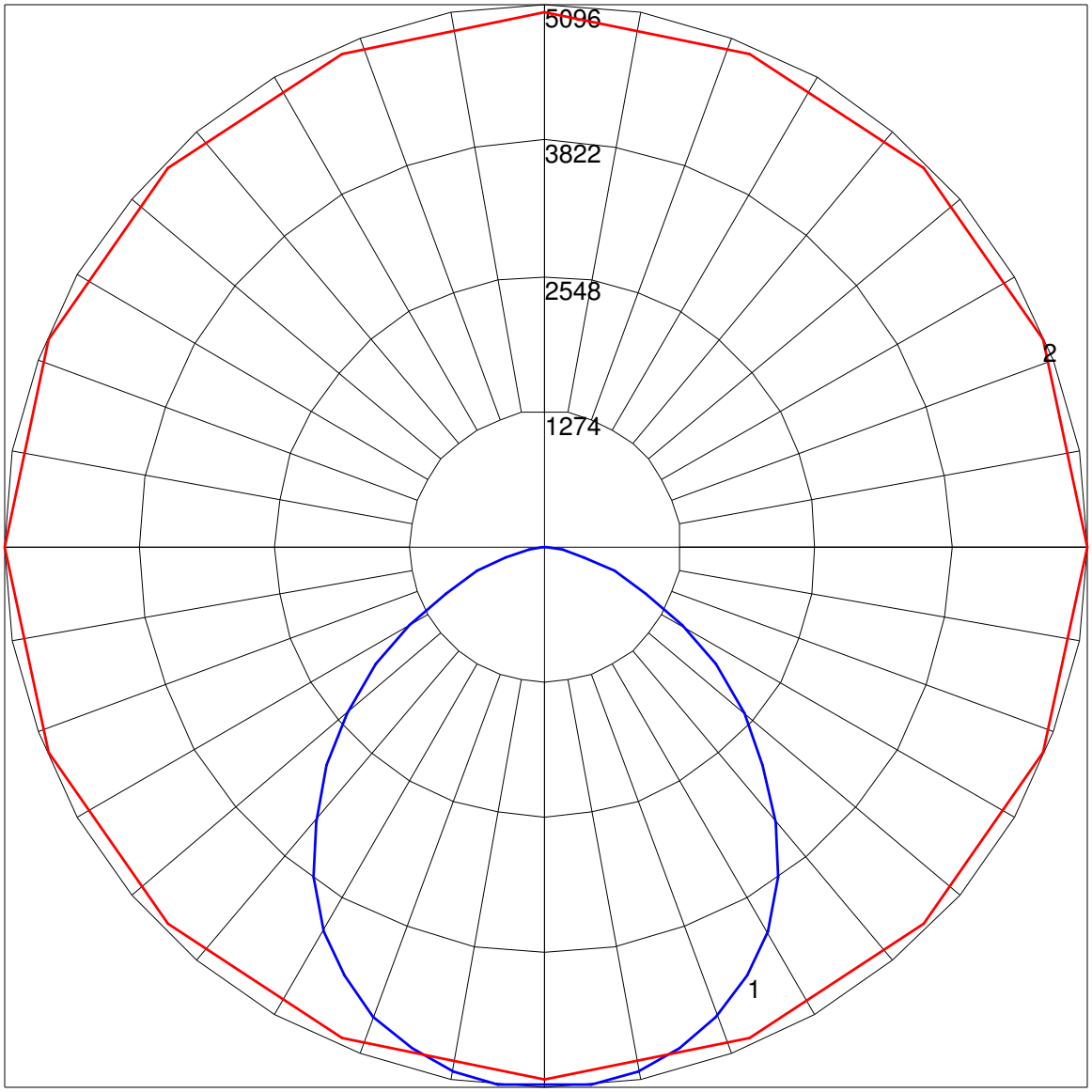
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.0	19.5	18.4	19.8	20.2	17.5	19.1	17.9	19.4	19.7
	3H	19.1	20.5	19.5	20.8	21.1	18.7	20.0	19.0	20.3	20.7
	4H	19.4	20.6	19.8	21.0	21.4	19.0	20.3	19.4	20.6	21.0
	6H	19.5	20.7	19.9	21.0	21.4	19.2	20.3	19.6	20.7	21.1
	8H	19.5	20.6	19.9	21.0	21.4	19.2	20.3	19.6	20.7	21.1
	12H	19.5	20.5	19.9	20.9	21.3	19.2	20.2	19.6	20.6	21.1
4H	2H	18.4	19.7	18.8	20.0	20.4	18.0	19.3	18.4	19.6	20.0
	3H	19.7	20.7	20.1	21.1	21.5	19.3	20.4	19.7	20.8	21.2
	4H	20.0	21.0	20.5	21.4	21.8	19.8	20.7	20.2	21.1	21.5
	6H	20.2	21.0	20.7	21.4	21.9	20.0	20.8	20.5	21.3	21.7
	8H	20.2	21.0	20.7	21.4	21.9	20.0	20.8	20.5	21.2	21.7
	12H	20.2	20.9	20.7	21.3	21.8	20.0	20.7	20.5	21.2	21.7
8H	4H	20.1	20.9	20.6	21.3	21.8	19.9	20.6	20.3	21.1	21.5
	6H	20.3	21.0	20.8	21.4	21.9	20.2	20.8	20.7	21.3	21.8
	8H	20.4	20.9	20.9	21.4	21.9	20.3	20.8	20.8	21.3	21.8
	12H	20.4	20.8	20.9	21.3	21.9	20.3	20.8	20.8	21.3	21.8
12H	4H	20.1	20.8	20.6	21.3	21.7	19.9	20.5	20.3	21.0	21.5
	6H	20.3	20.9	20.9	21.4	21.9	20.2	20.7	20.7	21.2	21.7
	8H	20.4	20.9	20.9	21.4	21.9	20.3	20.8	20.8	21.3	21.8

Maximum UGR = 21.9

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POLAR GRAPH



Maximum Candela = 5095.994 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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