IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-827-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-L120-827-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	11687
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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	7659	7683	7689
55	6705	6526	6651
65	5197	5067	5231
75	3325	3445	3187
85	657	1246	1013

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	4974.570	4974.570	4974.570	4974.570	4974.570
5	4994.533	4962.717	4937.139	4925.286	4926.534
10	4908.442	4881.617	4859.782	4849.801	4836.700
15	4763.709	4738.755	4730.645	4712.554	4704.444
20	4558.463	4547.234	4545.986	4497.326	4504.812
25	4297.694	4292.080	4282.098	4254.025	4265.254
30	3996.999	3984.522	3957.697	3957.697	3968.302
35	3633.919	3623.314	3612.085	3600.231	3603.974
40	3239.023	3239.023	3243.390	3224.674	3224.674
45	2830.402	2837.888	2839.136	2813.558	2841.631
50	2419.909	2399.322	2406.185	2361.268	2421.781
55	2010.041	1968.867	1956.390	1959.509	1993.821
60	1568.980	1552.760	1521.567	1565.860	1577.714
65	1147.882	1164.102	1119.185	1152.873	1155.368
70	782.930	779.811	771.077	763.591	751.114
75	449.795	432.327	466.015	441.685	431.080
80	179.668	177.797	213.980	218.971	201.503
85	29.945	38.679	56.770	61.137	46.165
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1801.9	N.A.	15.40
0-30	3769.5	N.A.	32.30
0-40	6028.94	N.A.	51.60
0-60	9973.36	N.A.	85.30
0-80	11605.71	N.A.	99.30
0-90	11686.69	N.A.	100.00
10-90	11217.07	N.A.	96.00
20-40	4227.03	N.A.	36.20
20-50	6406.78	N.A.	54.80
40-70	5086.36	N.A.	43.50
60-80	1632.35	N.A.	14.00
70-80	490.41	N.A.	4.20
80-90	80.98	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	11686.69	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	469.62
10-20	1332.28
20-30	1967.59
30-40	2259.44
40-50	2179.75
50-60	1764.68
60-70	1141.93
70-80	490.41
80-90	80.98
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	96	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

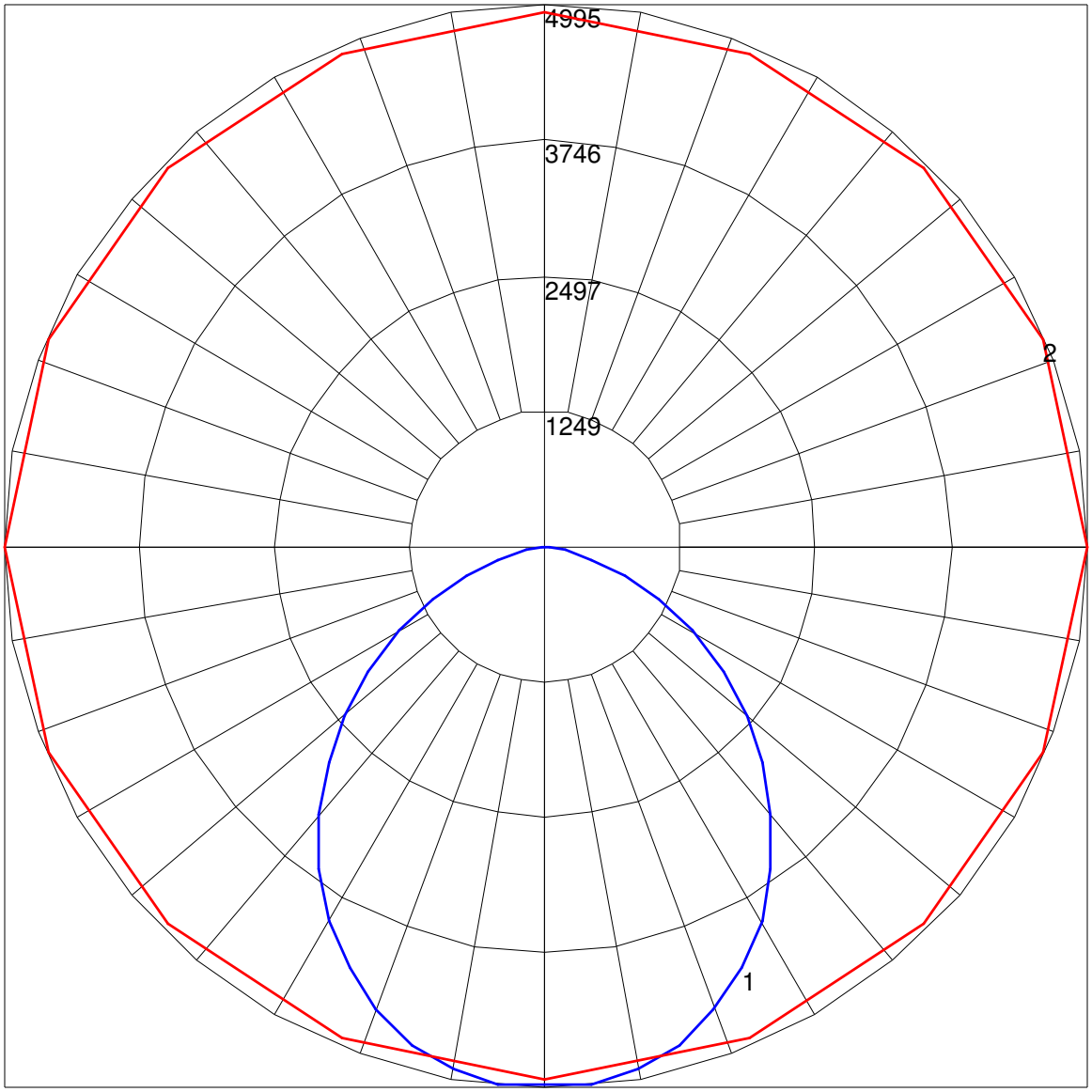
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.3	19.9	18.7	20.2	20.5	18.3	19.9	18.7	20.2	20.5
	3H	19.6	21.0	20.0	21.3	21.7	19.5	20.9	19.9	21.3	21.6
	4H	19.9	21.2	20.3	21.6	21.9	19.9	21.2	20.3	21.5	21.9
	6H	20.0	21.2	20.5	21.6	22.0	20.0	21.2	20.4	21.6	22.0
	8H	20.0	21.2	20.5	21.6	22.0	20.0	21.2	20.5	21.6	22.0
	12H	20.0	21.1	20.5	21.5	21.9	20.0	21.1	20.5	21.5	21.9
4H	2H	18.7	20.0	19.1	20.4	20.8	18.8	20.1	19.2	20.4	20.8
	3H	20.2	21.3	20.6	21.7	22.1	20.2	21.2	20.6	21.6	22.0
	4H	20.6	21.6	21.0	22.0	22.4	20.6	21.5	21.0	21.9	22.4
	6H	20.8	21.6	21.2	22.1	22.5	20.8	21.6	21.3	22.1	22.5
	8H	20.8	21.6	21.3	22.0	22.5	20.8	21.6	21.3	22.1	22.5
	12H	20.8	21.5	21.3	22.0	22.5	20.8	21.5	21.3	22.0	22.5
8H	4H	20.7	21.5	21.2	22.0	22.4	20.7	21.5	21.2	21.9	22.4
	6H	21.0	21.6	21.5	22.1	22.6	21.0	21.7	21.5	22.1	22.6
	8H	21.0	21.6	21.5	22.1	22.6	21.1	21.7	21.6	22.2	22.7
	12H	21.0	21.5	21.5	22.0	22.6	21.1	21.6	21.6	22.1	22.7
12H	4H	20.7	21.4	21.2	21.9	22.4	20.7	21.4	21.2	21.9	22.3
	6H	21.0	21.6	21.5	22.0	22.6	21.0	21.6	21.5	22.0	22.6
	8H	21.0	21.5	21.5	22.0	22.6	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 22.7

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POLAR GRAPH



Maximum Candela = 4994.533 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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