IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-935-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-L120-935-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	10120
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)	1.20
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	6632	6653	6659
55	5807	5652	5760
65	4500	4388	4530
75	2880	2983	2760
85	569	1079	878

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	4307.876	4307.876	4307.876	4307.876	4307.876
5	4325.163	4297.611	4275.461	4265.197	4266.277
10	4250.610	4227.380	4208.471	4199.828	4188.482
15	4125.274	4103.665	4096.642	4080.975	4073.952
20	3947.535	3937.811	3936.731	3894.592	3901.075
25	3721.715	3716.853	3708.209	3683.898	3693.622
30	3461.319	3450.514	3427.284	3427.284	3436.468
35	3146.899	3137.715	3127.991	3117.726	3120.968
40	2804.927	2804.927	2808.709	2792.502	2792.502
45	2451.070	2457.553	2458.633	2436.483	2460.794
50	2095.592	2077.764	2083.707	2044.809	2097.213
55	1740.654	1704.998	1694.193	1696.895	1726.608
60	1358.704	1344.658	1317.646	1356.003	1366.268
65	994.042	1008.088	969.191	998.364	1000.525
70	678.001	675.300	667.737	661.254	650.449
75	389.513	374.386	403.559	382.490	373.306
80	155.589	153.968	185.302	189.624	174.498
85	25.932	33.495	49.162	52.944	39.978
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1560.41	N.A.	15.40
0-30	3264.31	N.A.	32.30
0-40	5220.93	N.A.	51.60
0-60	8636.73	N.A.	85.30
0-80	10050.31	N.A.	99.30
0-90	10120.44	N.A.	100.00
10-90	9713.75	N.A.	96.00
20-40	3660.52	N.A.	36.20
20-50	5548.14	N.A.	54.80
40-70	4404.68	N.A.	43.50
60-80	1413.58	N.A.	14.00
70-80	424.69	N.A.	4.20
80-90	70.13	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	10120.44	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	406.68
10-20	1153.73
20-30	1703.89
30-40	1956.63
40-50	1887.62
50-60	1528.18
60-70	988.89
70-80	424.69
80-90	70.13
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	97	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

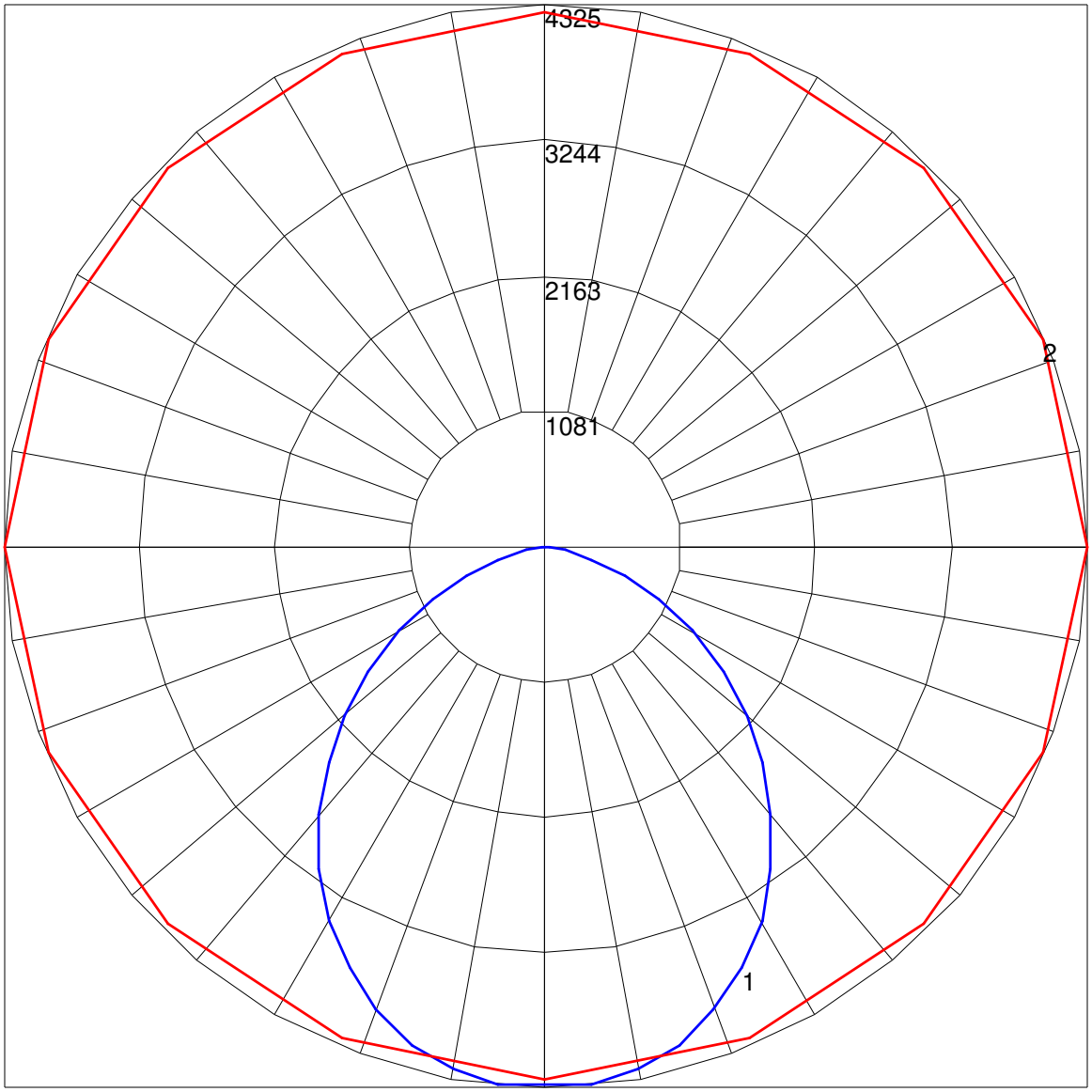
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.8	19.4	18.2	19.7	20.0	17.8	19.4	18.2	19.7	20.0
	3H	19.1	20.5	19.5	20.8	21.2	19.0	20.4	19.4	20.8	21.1
	4H	19.4	20.7	19.8	21.1	21.4	19.4	20.7	19.8	21.0	21.4
	6H	19.5	20.7	20.0	21.1	21.5	19.5	20.7	19.9	21.1	21.5
	8H	19.5	20.7	20.0	21.1	21.5	19.5	20.7	20.0	21.1	21.5
	12H	19.5	20.6	20.0	21.0	21.4	19.5	20.6	20.0	21.0	21.4
4H	2H	18.2	19.5	18.6	19.9	20.3	18.3	19.6	18.7	19.9	20.3
	3H	19.7	20.8	20.1	21.2	21.6	19.7	20.7	20.1	21.1	21.5
	4H	20.1	21.1	20.5	21.5	21.9	20.1	21.0	20.5	21.4	21.9
	6H	20.3	21.1	20.7	21.6	22.0	20.3	21.1	20.8	21.6	22.0
	8H	20.3	21.1	20.8	21.5	22.0	20.3	21.1	20.8	21.6	22.0
	12H	20.3	21.0	20.8	21.5	22.0	20.3	21.0	20.8	21.5	22.0
8H	4H	20.2	21.0	20.7	21.5	21.9	20.2	21.0	20.7	21.4	21.9
	6H	20.5	21.1	21.0	21.6	22.1	20.5	21.2	21.0	21.6	22.1
	8H	20.5	21.1	21.0	21.6	22.1	20.6	21.2	21.1	21.7	22.2
	12H	20.5	21.0	21.0	21.5	22.1	20.6	21.1	21.1	21.6	22.2
12H	4H	20.2	20.9	20.7	21.4	21.9	20.2	20.9	20.7	21.4	21.8
	6H	20.5	21.1	21.0	21.5	22.1	20.5	21.1	21.0	21.5	22.1
	8H	20.5	21.0	21.0	21.5	22.1	20.6	21.1	21.1	21.6	22.2

Maximum UGR = 22.2

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POLAR GRAPH



Maximum Candela = 4325.163 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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