IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-950-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-L60-950-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	5440
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	48.9
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	3565	3576	3579
55	3121	3038	3096
65	2419	2359	2435
75	1548	1604	1483
85	306	580	472

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2315.483	2315.483	2315.483	2315.483	2315.483
5	2324.775	2309.966	2298.060	2292.543	2293.124
10	2284.703	2272.217	2262.053	2257.407	2251.309
15	2217.335	2205.720	2201.945	2193.524	2189.749
20	2121.800	2116.573	2115.993	2093.343	2096.828
25	2000.422	1997.808	1993.162	1980.095	1985.322
30	1860.459	1854.651	1842.165	1842.165	1847.101
35	1691.458	1686.522	1681.295	1675.778	1677.520
40	1507.648	1507.648	1509.681	1500.970	1500.970
45	1317.450	1320.935	1321.515	1309.610	1322.677
50	1126.381	1116.798	1119.992	1099.085	1127.252
55	935.601	916.436	910.629	912.081	928.052
60	730.303	722.754	708.235	728.852	734.369
65	534.298	541.847	520.940	536.621	537.782
70	364.426	362.974	358.909	355.424	349.616
75	209.363	201.233	216.913	205.588	200.652
80	83.629	82.758	99.600	101.923	93.792
85	13.938	18.004	26.424	28.457	21.488
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	838.72	N.A.	15.40
0-30	1754.56	N.A.	32.30
0-40	2806.25	N.A.	51.60
0-60	4642.24	N.A.	85.30
0-80	5402.04	N.A.	99.30
0-90	5439.73	N.A.	100.00
10-90	5221.14	N.A.	96.00
20-40	1967.53	N.A.	36.20
20-50	2982.12	N.A.	54.80
40-70	2367.52	N.A.	43.50
60-80	759.80	N.A.	14.00
70-80	228.27	N.A.	4.20
80-90	37.69	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	5439.73	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	218.59
10-20	620.13
20-30	915.84
30-40	1051.69
40-50	1014.59
50-60	821.40
60-70	531.53
70-80	228.27
80-90	37.69
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	63	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

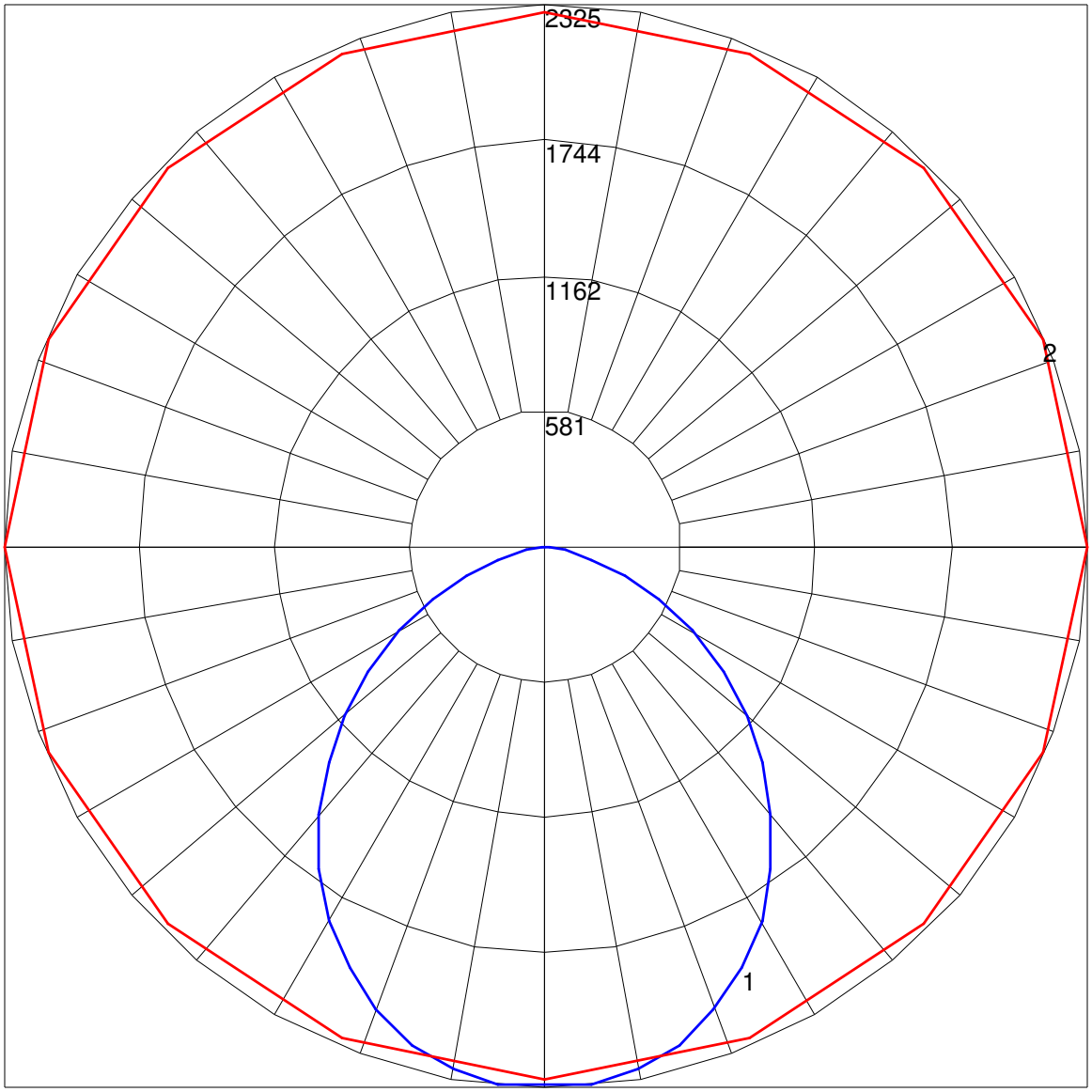
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.7	17.3	16.1	17.6	17.9	15.7	17.3	16.1	17.6	17.9
	3H	17.0	18.4	17.4	18.7	19.1	16.9	18.3	17.3	18.7	19.0
	4H	17.3	18.6	17.7	19.0	19.3	17.3	18.6	17.7	18.9	19.3
	6H	17.4	18.6	17.9	19.0	19.4	17.4	18.6	17.8	19.0	19.4
	8H	17.4	18.6	17.9	19.0	19.4	17.4	18.6	17.9	19.0	19.4
	12H	17.4	18.5	17.9	18.9	19.3	17.4	18.5	17.9	18.9	19.3
4H	2H	16.2	17.4	16.5	17.8	18.2	16.2	17.5	16.6	17.8	18.2
	3H	17.6	18.7	18.0	19.1	19.5	17.6	18.6	18.0	19.0	19.4
	4H	18.0	19.0	18.4	19.4	19.8	18.0	18.9	18.4	19.3	19.8
	6H	18.2	19.0	18.6	19.5	19.9	18.2	19.0	18.7	19.5	19.9
	8H	18.2	19.0	18.7	19.4	19.9	18.2	19.0	18.7	19.5	19.9
	12H	18.2	18.9	18.7	19.4	19.9	18.2	18.9	18.7	19.4	19.9
8H	4H	18.1	18.9	18.6	19.4	19.8	18.1	18.9	18.6	19.3	19.8
	6H	18.4	19.0	18.9	19.5	20.0	18.4	19.1	18.9	19.5	20.0
	8H	18.4	19.0	18.9	19.5	20.0	18.5	19.1	19.0	19.6	20.1
	12H	18.4	18.9	18.9	19.4	20.0	18.5	19.0	19.0	19.5	20.1
12H	4H	18.1	18.8	18.6	19.3	19.8	18.1	18.8	18.6	19.3	19.7
	6H	18.4	19.0	18.9	19.4	20.0	18.4	19.0	18.9	19.4	20.0
	8H	18.4	18.9	18.9	19.4	20.0	18.5	19.0	19.0	19.5	20.1

Maximum UGR = 20.1

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POLAR GRAPH



Maximum Candela = 2324.775 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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