IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-840-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-L60-840-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	6225
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	4080	4092	4096
55	3572	3477	3543
65	2768	2699	2786
75	1771	1835	1698
85	350	664	540

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2649.942	2649.942	2649.942	2649.942	2649.942
5	2660.576	2643.628	2630.003	2623.689	2624.353
10	2614.716	2600.426	2588.795	2583.477	2576.499
15	2537.617	2524.324	2520.004	2510.366	2506.046
20	2428.283	2422.301	2421.636	2395.715	2399.703
25	2289.372	2286.381	2281.064	2266.109	2272.091
30	2129.192	2122.546	2108.256	2108.256	2113.905
35	1935.780	1930.131	1924.149	1917.835	1919.829
40	1725.420	1725.420	1727.746	1717.777	1717.777
45	1507.749	1511.736	1512.401	1498.776	1513.730
50	1289.080	1278.114	1281.769	1257.842	1290.077
55	1070.744	1048.811	1042.164	1043.826	1062.104
60	835.792	827.151	810.535	834.130	840.444
65	611.474	620.114	596.187	614.133	615.462
70	417.065	415.404	410.751	406.763	400.117
75	239.605	230.300	248.245	235.285	229.635
80	95.709	94.712	113.987	116.645	107.340
85	15.951	20.604	30.241	32.568	24.592
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	959.87	N.A.	15.40
0-30	2008.00	N.A.	32.30
0-40	3211.6	N.A.	51.60
0-60	5312.79	N.A.	85.30
0-80	6182.34	N.A.	99.30
0-90	6225.47	N.A.	100.00
10-90	5975.31	N.A.	96.00
20-40	2251.73	N.A.	36.20
20-50	3412.88	N.A.	54.80
40-70	2709.49	N.A.	43.50
60-80	869.55	N.A.	14.00
70-80	261.24	N.A.	4.20
80-90	43.14	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	6225.47	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	250.17
10-20	709.70
20-30	1048.13
30-40	1203.6
40-50	1161.15
50-60	940.04
60-70	608.31
70-80	261.24
80-90	43.14
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

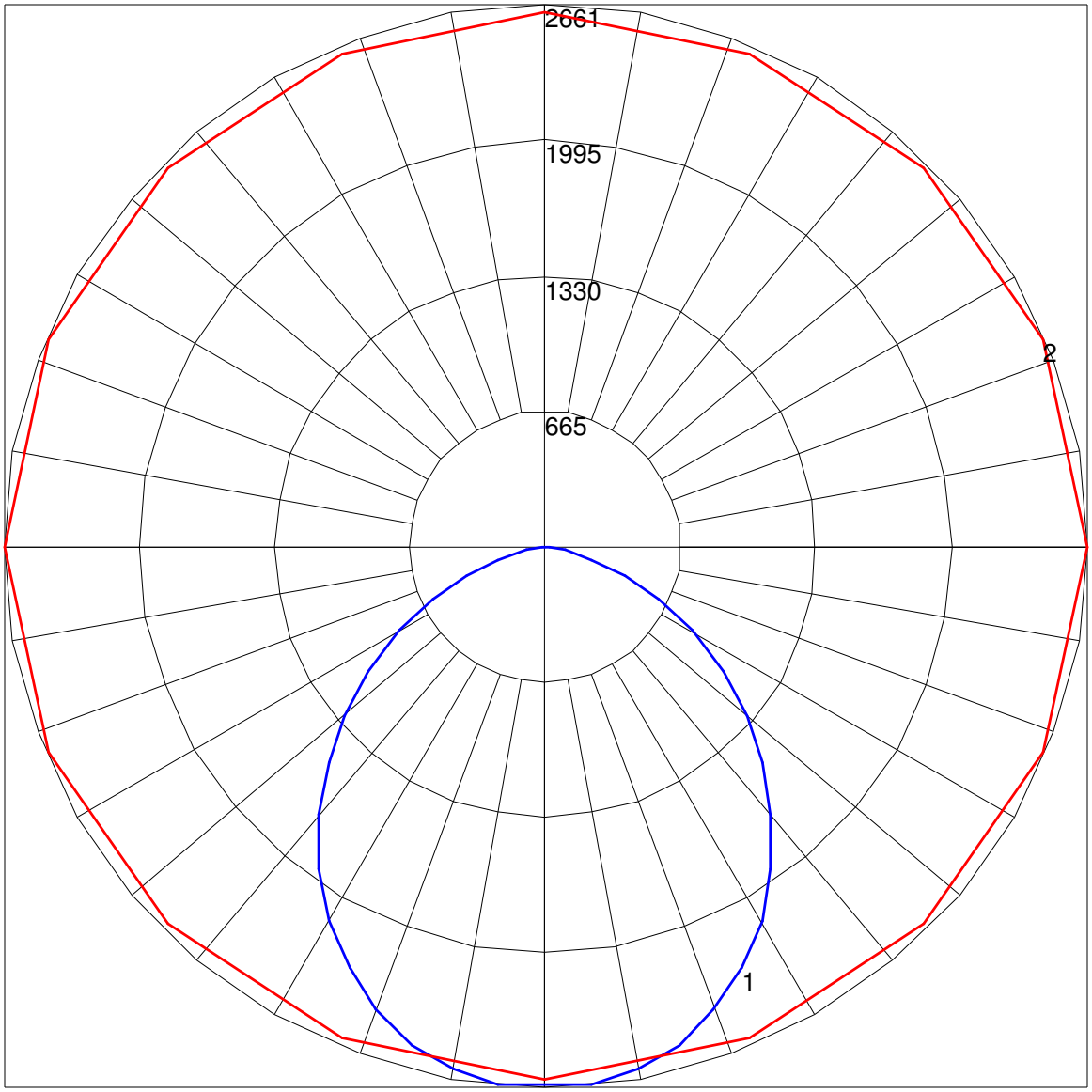
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.2	17.8	16.6	18.1	18.4	16.2	17.8	16.6	18.1	18.4
	3H	17.5	18.9	17.9	19.2	19.6	17.4	18.8	17.8	19.2	19.5
	4H	17.8	19.1	18.2	19.5	19.8	17.8	19.1	18.2	19.4	19.8
	6H	17.9	19.1	18.4	19.5	19.9	17.9	19.1	18.3	19.5	19.9
	8H	17.9	19.1	18.4	19.5	19.9	17.9	19.1	18.4	19.5	19.9
	12H	17.9	19.0	18.4	19.4	19.8	17.9	19.0	18.4	19.4	19.8
4H	2H	16.6	17.9	17.0	18.3	18.7	16.7	18.0	17.1	18.3	18.7
	3H	18.1	19.2	18.5	19.6	20.0	18.1	19.1	18.5	19.5	19.9
	4H	18.5	19.5	18.9	19.9	20.3	18.5	19.4	18.9	19.8	20.3
	6H	18.7	19.5	19.1	20.0	20.4	18.7	19.5	19.2	20.0	20.4
	8H	18.7	19.5	19.2	19.9	20.4	18.7	19.5	19.2	20.0	20.4
	12H	18.7	19.4	19.2	19.9	20.4	18.7	19.4	19.2	19.9	20.4
8H	4H	18.6	19.4	19.1	19.9	20.3	18.6	19.4	19.1	19.8	20.3
	6H	18.9	19.5	19.4	20.0	20.5	18.9	19.6	19.4	20.0	20.5
	8H	18.9	19.5	19.4	20.0	20.5	19.0	19.6	19.5	20.1	20.6
	12H	18.9	19.4	19.4	19.9	20.5	19.0	19.5	19.5	20.0	20.6
12H	4H	18.6	19.3	19.1	19.8	20.3	18.6	19.3	19.1	19.8	20.2
	6H	18.9	19.5	19.4	19.9	20.5	18.9	19.5	19.4	19.9	20.5
	8H	18.9	19.4	19.4	19.9	20.5	19.0	19.5	19.5	20.0	20.6

Maximum UGR = 20.6

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POLAR GRAPH



Maximum Candela = 2660.576 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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