IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L200-927-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-L200-927-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	16108
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	186.5
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	10557	10589	10598
55	9242	8996	9168
65	7163	6984	7210
75	4583	4749	4393
85	906	1718	1397

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	6856.702	6856.702	6856.702	6856.702	6856.702
5	6884.219	6840.365	6805.109	6788.772	6790.491
10	6765.555	6728.580	6698.484	6684.726	6666.668
15	6566.062	6531.667	6520.488	6495.552	6484.373
20	6283.161	6267.683	6265.963	6198.892	6209.211
25	5923.730	5915.991	5902.233	5863.538	5879.016
30	5509.267	5492.069	5455.094	5455.094	5469.712
35	5008.815	4994.197	4978.719	4962.381	4967.541
40	4464.509	4464.509	4470.529	4444.732	4444.732
45	3901.287	3911.605	3913.325	3878.070	3916.764
50	3335.484	3307.108	3316.566	3254.655	3338.064
55	2770.541	2713.789	2696.591	2700.891	2748.184
60	2162.604	2140.247	2097.253	2158.305	2174.643
65	1582.184	1604.541	1542.629	1589.063	1592.502
70	1079.152	1074.853	1062.815	1052.496	1035.298
75	619.975	595.899	642.332	608.797	594.179
80	247.646	245.066	294.940	301.819	277.742
85	41.274	53.313	78.249	84.268	63.631
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2483.66	N.A.	15.40
0-30	5195.69	N.A.	32.30
0-40	8309.99	N.A.	51.60
0-60	13746.79	N.A.	85.30
0-80	15996.74	N.A.	99.30
0-90	16108.36	N.A.	100.00
10-90	15461.06	N.A.	96.00
20-40	5826.33	N.A.	36.20
20-50	8830.79	N.A.	54.80
40-70	7010.79	N.A.	43.50
60-80	2249.95	N.A.	14.00
70-80	675.96	N.A.	4.20
80-90	111.62	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	16108.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	647.30
10-20	1836.35
20-30	2712.03
30-40	3114.3
40-50	3004.45
50-60	2432.35
60-70	1573.98
70-80	675.96
80-90	111.62
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

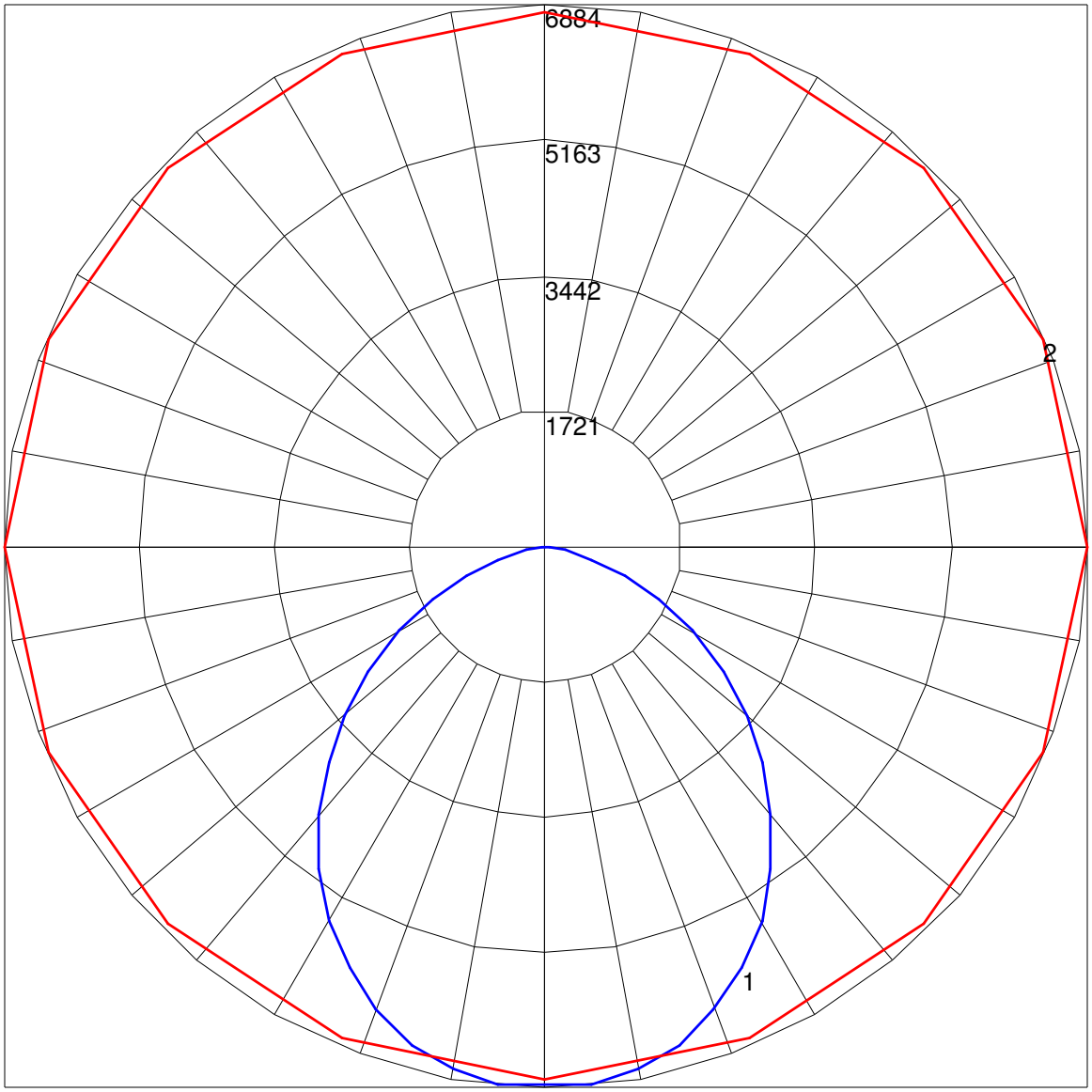
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.5	21.1	19.9	21.4	21.7	19.5	21.1	19.9	21.4	21.7
	3H	20.8	22.2	21.2	22.5	22.9	20.7	22.1	21.1	22.5	22.8
	4H	21.1	22.4	21.5	22.8	23.1	21.1	22.4	21.5	22.7	23.1
	6H	21.2	22.4	21.7	22.8	23.2	21.2	22.4	21.6	22.8	23.2
	8H	21.2	22.4	21.7	22.8	23.2	21.2	22.4	21.7	22.8	23.2
	12H	21.2	22.3	21.7	22.7	23.1	21.2	22.3	21.7	22.7	23.1
4H	2H	19.9	21.2	20.3	21.6	22.0	20.0	21.3	20.4	21.6	22.0
	3H	21.4	22.5	21.8	22.9	23.3	21.4	22.4	21.8	22.8	23.2
	4H	21.8	22.8	22.2	23.2	23.6	21.8	22.7	22.2	23.1	23.6
	6H	22.0	22.8	22.4	23.3	23.7	22.0	22.8	22.5	23.3	23.7
	8H	22.0	22.8	22.5	23.2	23.7	22.0	22.8	22.5	23.3	23.7
	12H	22.0	22.7	22.5	23.2	23.7	22.0	22.7	22.5	23.2	23.7
8H	4H	21.9	22.7	22.4	23.2	23.6	21.9	22.7	22.4	23.1	23.6
	6H	22.2	22.8	22.7	23.3	23.8	22.2	22.9	22.7	23.3	23.8
	8H	22.2	22.8	22.7	23.3	23.8	22.3	22.9	22.8	23.4	23.9
	12H	22.2	22.7	22.7	23.2	23.8	22.3	22.8	22.8	23.3	23.9
12H	4H	21.9	22.6	22.4	23.1	23.6	21.9	22.6	22.4	23.1	23.5
	6H	22.2	22.8	22.7	23.2	23.8	22.2	22.8	22.7	23.2	23.8
	8H	22.2	22.7	22.7	23.2	23.8	22.3	22.8	22.8	23.3	23.9

Maximum UGR = 23.9

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POLAR GRAPH



Maximum Candela = 6884.219 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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