IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L85-927-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] 3-42 LED 22" ARRAYS 2x2' RECESSED WHITE REFL LUMINAIRE
[MORE] FROSTED ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-22-L85-927-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	6854
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	77.8
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)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6848	6869	6875
55	5995	5835	5947
65	4647	4531	4677
75	2973	3080	2849
85	588	1114	906

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2917.389	2917.389	2917.389	2917.389	2917.389
5	2929.097	2910.438	2895.437	2888.486	2889.218
10	2878.608	2862.876	2850.070	2844.217	2836.533
15	2793.728	2779.093	2774.337	2763.727	2758.971
20	2673.359	2666.773	2666.041	2637.504	2641.895
25	2520.428	2517.135	2511.282	2494.818	2501.403
30	2344.082	2336.765	2321.033	2321.033	2327.253
35	2131.150	2124.931	2118.345	2111.394	2113.589
40	1899.559	1899.559	1902.120	1891.144	1891.144
45	1659.919	1664.309	1665.041	1650.041	1666.505
50	1419.181	1407.108	1411.132	1384.790	1420.279
55	1178.810	1154.663	1147.345	1149.175	1169.297
60	920.145	910.632	892.339	918.315	925.267
65	673.187	682.700	656.358	676.114	677.578
70	459.158	457.328	452.206	447.816	440.499
75	263.787	253.543	273.299	259.031	252.811
80	105.368	104.271	125.491	128.418	118.174
85	17.561	22.683	33.294	35.855	27.074
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1056.75	N.A.	15.40
0-30	2210.66	N.A.	32.30
0-40	3535.73	N.A.	51.60
0-60	5848.98	N.A.	85.30
0-80	6806.29	N.A.	99.30
0-90	6853.78	N.A.	100.00
10-90	6578.37	N.A.	96.00
20-40	2478.99	N.A.	36.20
20-50	3757.32	N.A.	54.80
40-70	2982.95	N.A.	43.50
60-80	957.31	N.A.	14.00
70-80	287.61	N.A.	4.20
80-90	47.49	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	6853.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	275.41
10-20	781.33
20-30	1153.92
30-40	1325.07
40-50	1278.34
50-60	1034.92
60-70	669.70
70-80	287.61
80-90	47.49
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

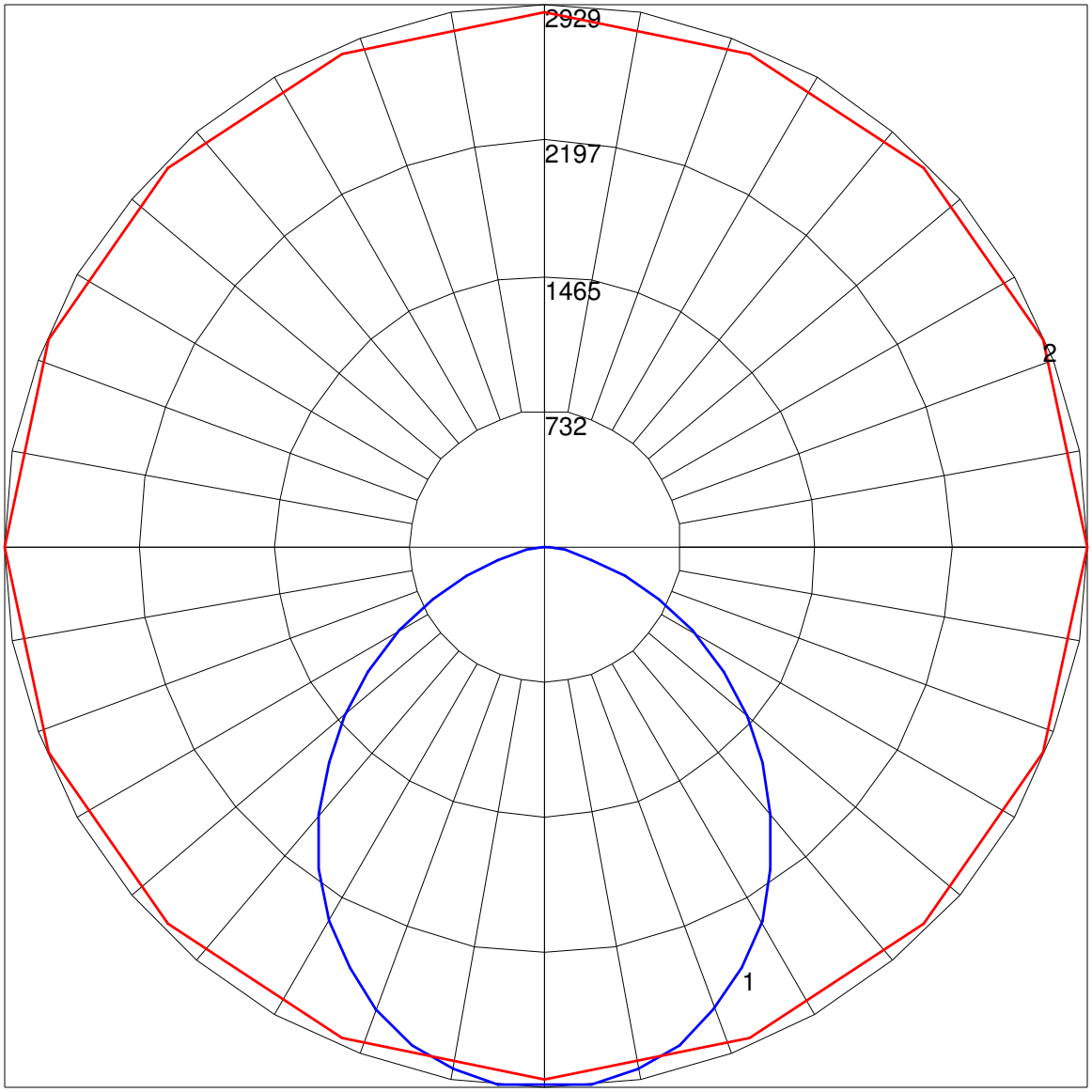
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.0	19.5	18.3	19.8	20.1	18.0	19.5	18.3	19.8	20.2
	3H	19.2	20.6	19.6	21.0	21.3	19.2	20.6	19.6	20.9	21.3
	4H	19.6	20.9	20.0	21.2	21.6	19.5	20.8	19.9	21.2	21.5
	6H	19.7	20.9	20.1	21.3	21.7	19.7	20.9	20.1	21.2	21.6
	8H	19.7	20.9	20.1	21.2	21.6	19.7	20.8	20.1	21.2	21.6
	12H	19.7	20.8	20.1	21.2	21.6	19.7	20.8	20.1	21.2	21.6
4H	2H	18.4	19.7	18.8	20.1	20.4	18.4	19.7	18.8	20.1	20.4
	3H	19.9	20.9	20.3	21.3	21.7	19.8	20.9	20.2	21.3	21.7
	4H	20.3	21.2	20.7	21.7	22.1	20.2	21.2	20.7	21.6	22.1
	6H	20.5	21.3	20.9	21.7	22.2	20.5	21.3	20.9	21.7	22.2
	8H	20.5	21.3	20.9	21.7	22.2	20.5	21.3	21.0	21.7	22.2
	12H	20.5	21.2	20.9	21.6	22.1	20.5	21.2	21.0	21.7	22.2
8H	4H	20.4	21.2	20.9	21.6	22.1	20.4	21.2	20.8	21.6	22.1
	6H	20.7	21.3	21.1	21.8	22.3	20.7	21.3	21.2	21.8	22.3
	8H	20.7	21.3	21.2	21.8	22.3	20.7	21.3	21.3	21.8	22.3
	12H	20.7	21.2	21.2	21.7	22.2	20.8	21.3	21.3	21.8	22.3
12H	4H	20.4	21.1	20.9	21.6	22.0	20.4	21.1	20.8	21.5	22.0
	6H	20.7	21.2	21.2	21.7	22.2	20.7	21.3	21.2	21.7	22.3
	8H	20.7	21.2	21.2	21.7	22.3	20.8	21.3	21.3	21.8	22.3

Maximum UGR = 22.3

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POLAR GRAPH



Maximum Candela = 2929.097 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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