IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-830-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-L65-830-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	6488
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	58.5
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)	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	6482	6502	6508
55	5675	5524	5629
65	4399	4289	4427
75	2814	2916	2697
85	556	1055	858

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2761.540	2761.540	2761.540	2761.540	2761.540
5	2772.623	2754.960	2740.761	2734.181	2734.874
10	2724.831	2709.939	2697.818	2692.277	2685.004
15	2644.485	2630.632	2626.130	2616.087	2611.585
20	2530.546	2524.313	2523.620	2496.607	2500.763
25	2385.785	2382.668	2377.127	2361.543	2367.777
30	2218.860	2211.934	2197.042	2197.042	2202.929
35	2017.303	2011.416	2005.182	1998.602	2000.680
40	1798.084	1798.084	1800.508	1790.118	1790.118
45	1571.245	1575.401	1576.094	1561.895	1577.479
50	1343.368	1331.939	1335.749	1310.814	1344.407
55	1115.837	1092.980	1086.054	1087.785	1106.833
60	870.990	861.986	844.670	869.258	875.838
65	637.225	646.230	621.295	639.996	641.381
70	434.629	432.898	428.049	423.893	416.967
75	249.695	239.998	258.700	245.193	239.306
80	99.740	98.701	118.787	121.558	111.861
85	16.623	21.472	31.515	33.939	25.628
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1000.29	N.A.	15.40
0-30	2092.57	N.A.	32.30
0-40	3346.85	N.A.	51.60
0-60	5536.53	N.A.	85.30
0-80	6442.7	N.A.	99.30
0-90	6487.65	N.A.	100.00
10-90	6226.95	N.A.	96.00
20-40	2346.56	N.A.	36.20
20-50	3556.6	N.A.	54.80
40-70	2823.6	N.A.	43.50
60-80	906.17	N.A.	14.00
70-80	272.24	N.A.	4.20
80-90	44.96	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	6487.65	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	260.70
10-20	739.59
20-30	1092.27
30-40	1254.29
40-50	1210.05
50-60	979.63
60-70	633.92
70-80	272.24
80-90	44.96
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

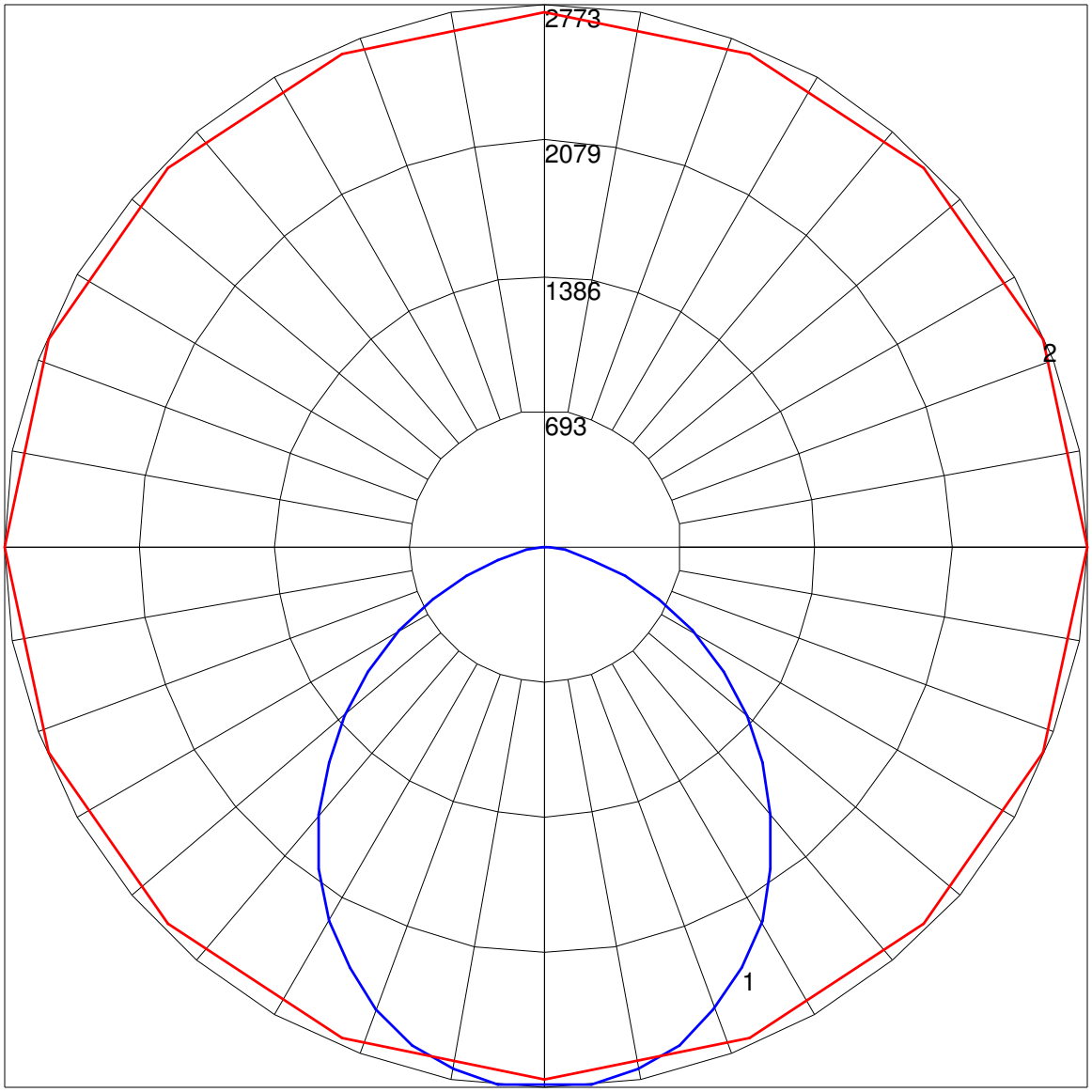
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.8	19.3	18.1	19.6	19.9	17.8	19.3	18.1	19.6	20.0
	3H	19.0	20.4	19.4	20.8	21.1	19.0	20.4	19.4	20.7	21.1
	4H	19.4	20.7	19.8	21.0	21.4	19.3	20.6	19.7	21.0	21.3
	6H	19.5	20.7	19.9	21.1	21.5	19.5	20.7	19.9	21.1	21.4
	8H	19.5	20.7	19.9	21.0	21.4	19.5	20.6	19.9	21.0	21.4
	12H	19.5	20.6	19.9	21.0	21.4	19.5	20.6	19.9	21.0	21.4
4H	2H	18.2	19.5	18.6	19.9	20.2	18.2	19.5	18.6	19.9	20.2
	3H	19.7	20.7	20.1	21.1	21.5	19.6	20.7	20.0	21.1	21.5
	4H	20.1	21.0	20.5	21.5	21.9	20.0	21.0	20.5	21.4	21.9
	6H	20.3	21.1	20.7	21.5	22.0	20.3	21.1	20.7	21.6	22.0
	8H	20.3	21.1	20.7	21.5	22.0	20.3	21.1	20.8	21.5	22.0
	12H	20.3	21.0	20.7	21.4	21.9	20.3	21.0	20.8	21.5	22.0
8H	4H	20.2	21.0	20.7	21.4	21.9	20.2	21.0	20.6	21.4	21.9
	6H	20.5	21.1	21.0	21.6	22.1	20.5	21.1	21.0	21.6	22.1
	8H	20.5	21.1	21.0	21.6	22.1	20.5	21.1	21.1	21.6	22.1
	12H	20.5	21.0	21.0	21.5	22.0	20.6	21.1	21.1	21.6	22.1
12H	4H	20.2	20.9	20.7	21.4	21.9	20.2	20.9	20.6	21.3	21.8
	6H	20.5	21.0	21.0	21.5	22.0	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	22.1

Maximum UGR = 22.1

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POLAR GRAPH



Maximum Candela = 2772.623 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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