IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-930-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-L30-930-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	2502
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	27.3
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	2500	2507	2509
55	2188	2130	2171
65	1696	1654	1707
75	1085	1124	1040
85	215	407	331

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1064.858	1064.858	1064.858	1064.858	1064.858
5	1069.131	1062.320	1056.845	1054.308	1054.575
10	1050.702	1044.960	1040.286	1038.149	1035.345
15	1019.721	1014.379	1012.643	1008.770	1007.034
20	975.786	973.382	973.115	962.698	964.301
25	919.965	918.763	916.627	910.617	913.021
30	855.598	852.928	847.185	847.185	849.456
35	777.877	775.607	773.204	770.666	771.467
40	693.346	693.346	694.281	690.274	690.274
45	605.876	607.479	607.746	602.271	608.280
50	518.006	513.599	515.068	505.453	518.407
55	430.270	421.456	418.785	419.453	426.798
60	335.856	332.384	325.707	335.188	337.726
65	245.716	249.188	239.573	246.784	247.318
70	167.594	166.926	165.057	163.454	160.784
75	96.283	92.544	99.755	94.547	92.277
80	38.460	38.059	45.805	46.873	43.134
85	6.410	8.280	12.152	13.087	9.882
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	385.72	N.A.	15.40
0-30	806.90	N.A.	32.30
0-40	1290.56	N.A.	51.60
0-60	2134.9	N.A.	85.30
0-80	2484.32	N.A.	99.30
0-90	2501.66	N.A.	100.00
10-90	2401.13	N.A.	96.00
20-40	904.84	N.A.	36.20
20-50	1371.44	N.A.	54.80
40-70	1088.79	N.A.	43.50
60-80	349.42	N.A.	14.00
70-80	104.98	N.A.	4.20
80-90	17.33	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	2501.66	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.53
10-20	285.19
20-30	421.18
30-40	483.66
40-50	466.60
50-60	377.75
60-70	244.44
70-80	104.98
80-90	17.33
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	45	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

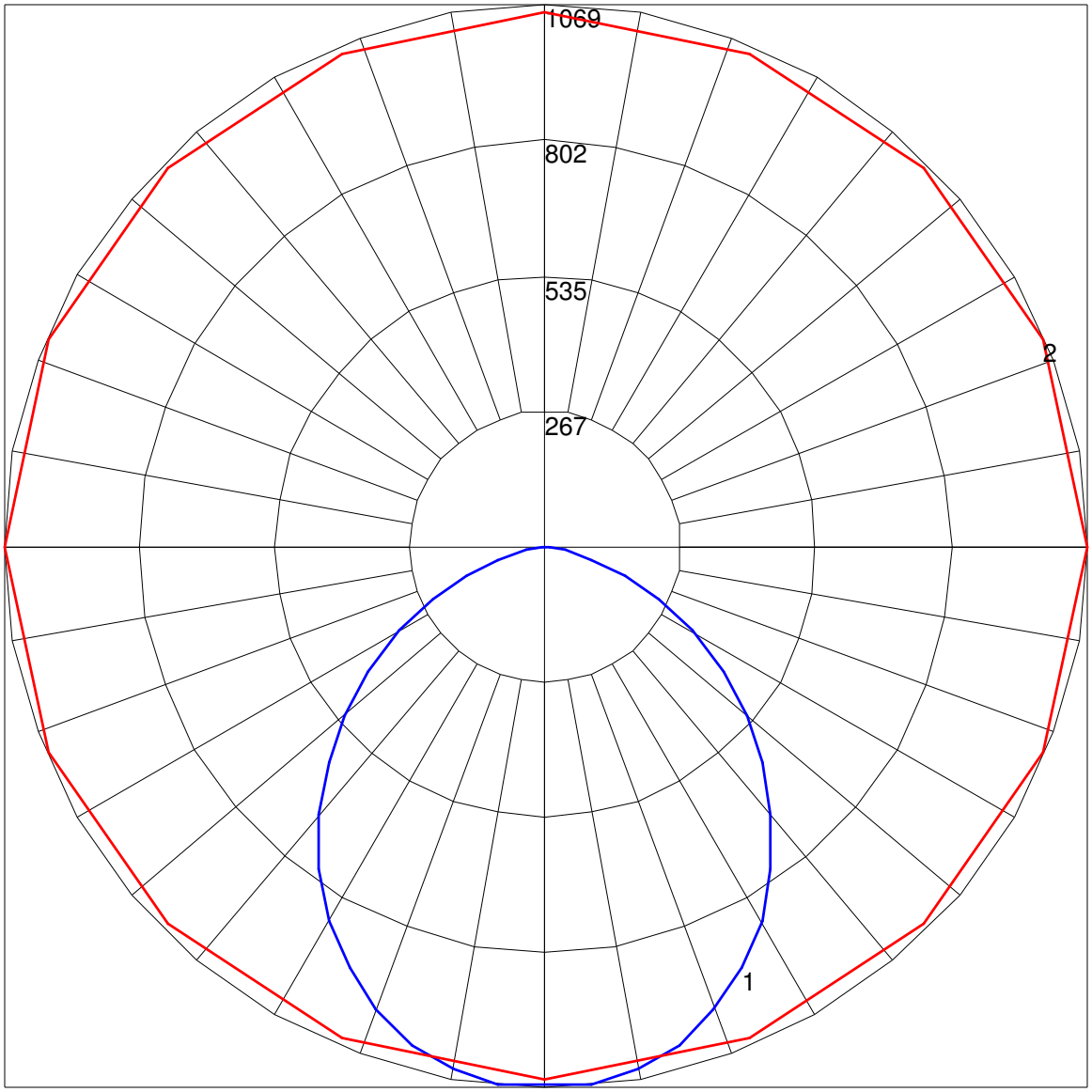
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.5	16.0	14.8	16.3	16.6	14.5	16.0	14.8	16.3	16.7
	3H	15.7	17.1	16.1	17.5	17.8	15.7	17.1	16.1	17.4	17.8
	4H	16.1	17.4	16.5	17.7	18.1	16.0	17.3	16.4	17.7	18.0
	6H	16.2	17.4	16.6	17.8	18.2	16.2	17.4	16.6	17.7	18.1
	8H	16.2	17.4	16.6	17.7	18.1	16.2	17.3	16.6	17.7	18.1
	12H	16.2	17.3	16.6	17.7	18.1	16.2	17.3	16.6	17.7	18.1
4H	2H	14.9	16.2	15.3	16.6	16.9	14.9	16.2	15.3	16.6	16.9
	3H	16.4	17.4	16.8	17.8	18.2	16.3	17.4	16.7	17.8	18.2
	4H	16.8	17.7	17.2	18.2	18.6	16.7	17.7	17.2	18.1	18.6
	6H	17.0	17.8	17.4	18.2	18.7	17.0	17.8	17.4	18.3	18.7
	8H	17.0	17.8	17.4	18.2	18.7	17.0	17.8	17.5	18.2	18.7
	12H	17.0	17.7	17.4	18.1	18.6	17.0	17.7	17.5	18.2	18.7
8H	4H	16.9	17.7	17.4	18.1	18.6	16.9	17.7	17.3	18.1	18.6
	6H	17.2	17.8	17.6	18.3	18.8	17.2	17.8	17.7	18.3	18.8
	8H	17.2	17.8	17.7	18.3	18.8	17.2	17.8	17.8	18.3	18.8
	12H	17.2	17.7	17.7	18.2	18.7	17.3	17.8	17.8	18.3	18.8
12H	4H	16.9	17.6	17.4	18.1	18.6	16.9	17.6	17.3	18.0	18.5
	6H	17.2	17.7	17.7	18.2	18.7	17.2	17.8	17.7	18.2	18.8
	8H	17.2	17.7	17.7	18.2	18.8	17.3	17.8	17.8	18.3	18.8

Maximum UGR = 18.8

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POLAR GRAPH



Maximum Candela = 1069.131 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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