IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-935-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-L30-935-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	2532
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	2530	2537	2540
55	2215	2156	2197
65	1717	1674	1728
75	1098	1138	1053
85	217	412	335

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1077.687	1077.687	1077.687	1077.687	1077.687
5	1082.012	1075.119	1069.578	1067.010	1067.280
10	1063.361	1057.550	1052.819	1050.657	1047.819
15	1032.006	1026.600	1024.843	1020.924	1019.167
20	987.542	985.109	984.839	974.297	975.919
25	931.049	929.833	927.670	921.589	924.021
30	865.907	863.204	857.392	857.392	859.690
35	787.249	784.952	782.519	779.951	780.762
40	701.699	701.699	702.645	698.591	698.591
45	613.176	614.798	615.068	609.527	615.609
50	524.247	519.787	521.274	511.543	524.653
55	435.454	426.534	423.831	424.506	431.940
60	339.903	336.389	329.631	339.227	341.795
65	248.676	252.190	242.459	249.757	250.298
70	169.613	168.938	167.046	165.424	162.721
75	97.443	93.659	100.957	95.686	93.389
80	38.923	38.518	46.356	47.438	43.653
85	6.487	8.379	12.299	13.245	10.001
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	390.36	N.A.	15.40
0-30	816.62	N.A.	32.30
0-40	1306.1	N.A.	51.60
0-60	2160.62	N.A.	85.30
0-80	2514.25	N.A.	99.30
0-90	2531.8	N.A.	100.00
10-90	2430.06	N.A.	96.00
20-40	915.74	N.A.	36.20
20-50	1387.96	N.A.	54.80
40-70	1101.91	N.A.	43.50
60-80	353.63	N.A.	14.00
70-80	106.24	N.A.	4.20
80-90	17.54	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	2531.8	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.74
10-20	288.62
20-30	426.26
30-40	489.48
40-50	472.22
50-60	382.30
60-70	247.39
70-80	106.24
80-90	17.54
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

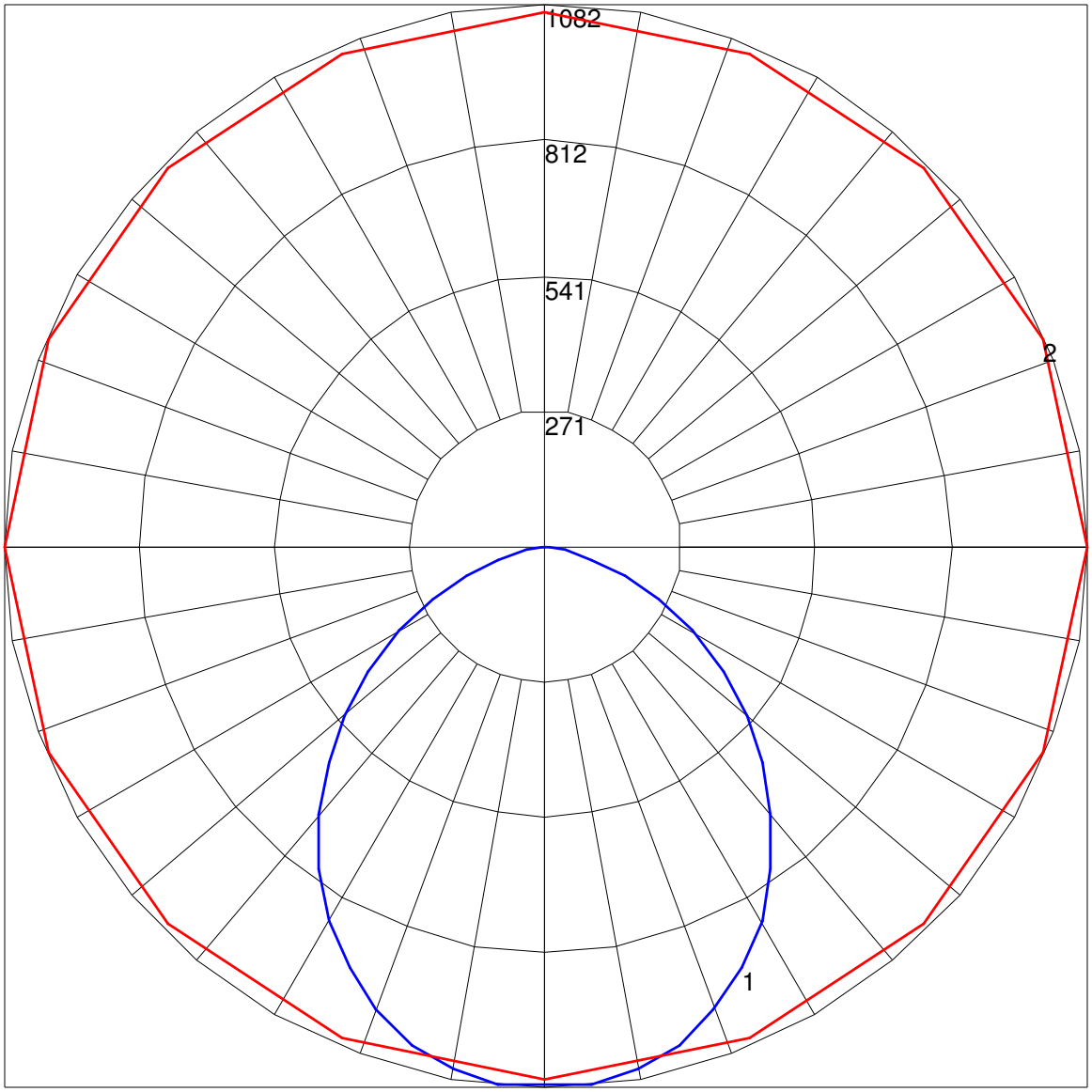
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.5	16.0	14.8	16.3	16.6	14.5	16.0	14.8	16.3	16.7
	3H	15.7	17.1	16.1	17.5	17.8	15.7	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	17.8	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 = 1082.012 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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