IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-935-CS-SAF12125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 19833.0
[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 REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-22-L65-935-CS-SAF12125-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	5482
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	58.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.57 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	8237	8215	8332
55	6553	6427	6457
65	4852	4592	4586
75	3262	2798	2876
85	1060	630	1032

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2437.640	2437.640	2437.640	2437.640	2437.640
5	2431.319	2430.744	2429.021	2423.849	2423.849
10	2389.370	2396.266	2394.542	2391.094	2388.221
15	2324.435	2334.204	2333.055	2338.227	2334.204
20	2234.791	2246.284	2245.134	2267.546	2253.179
25	2110.093	2126.183	2138.825	2158.938	2137.101
30	1954.939	1984.246	1998.037	2006.083	1988.843
35	1771.628	1808.980	1815.875	1804.382	1798.061
40	1569.928	1586.592	1587.742	1580.271	1591.189
45	1340.070	1339.495	1336.622	1334.324	1355.585
50	1103.317	1086.652	1090.674	1081.480	1099.294
55	864.839	852.772	848.175	852.772	852.197
60	647.049	634.407	633.832	642.452	640.728
65	471.783	463.738	446.498	462.588	445.924
70	317.204	316.054	287.322	313.181	287.897
75	194.230	186.759	166.647	183.886	171.244
80	87.921	86.197	71.256	78.726	83.323
85	21.262	22.986	12.642	16.090	20.687
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	888.80	N.A.	16.20
0-30	1871.25	N.A.	34.10
0-40	2995.02	N.A.	54.60
0-60	4794.54	N.A.	87.50
0-80	5450.64	N.A.	99.40
0-90	5482.42	N.A.	100.00
10-90	5251.81	N.A.	95.80
20-40	2106.23	N.A.	38.40
20-50	3138.45	N.A.	57.20
40-70	2259.21	N.A.	41.20
60-80	656.10	N.A.	12.00
70-80	196.41	N.A.	3.60
80-90	31.77	N.A.	0.60
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	5482.42	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	230.61
10-20	658.19
20-30	982.45
30-40	1123.78
40-50	1032.22
50-60	767.30
60-70	459.70
70-80	196.41
80-90	31.77
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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	38	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

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UGR TABLE - CORRECTED

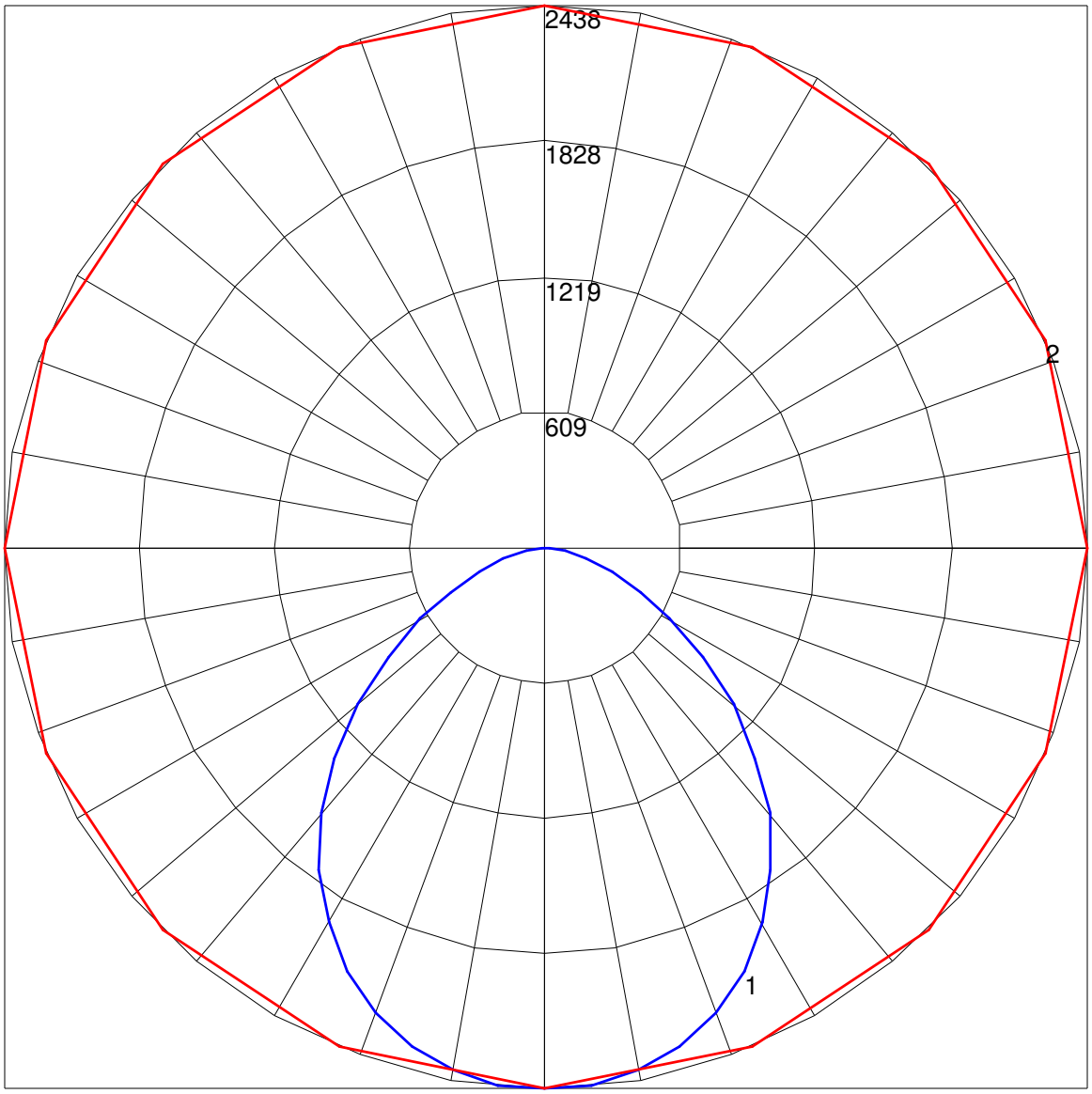
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.9	19.4	18.2	19.7	20.0	17.9	19.4	18.3	19.7	20.0
	3H	19.0	20.4	19.4	20.7	21.1	19.0	20.3	19.3	20.6	21.0
	4H	19.4	20.7	19.8	21.0	21.4	19.3	20.5	19.7	20.9	21.3
	6H	19.6	20.7	20.0	21.1	21.5	19.4	20.6	19.8	20.9	21.3
	8H	19.6	20.7	20.0	21.1	21.5	19.4	20.5	19.8	20.9	21.3
	12H	19.6	20.6	20.0	21.0	21.5	19.4	20.5	19.9	20.9	21.3
4H	2H	18.2	19.5	18.6	19.9	20.2	18.3	19.5	18.7	19.9	20.2
	3H	19.6	20.6	20.0	21.0	21.4	19.5	20.6	20.0	21.0	21.4
	4H	20.0	21.0	20.5	21.4	21.8	19.9	20.9	20.3	21.3	21.7
	6H	20.3	21.1	20.7	21.5	22.0	20.1	20.9	20.6	21.4	21.8
	8H	20.3	21.1	20.8	21.5	22.0	20.2	20.9	20.6	21.4	21.8
	12H	20.3	21.0	20.8	21.5	21.9	20.2	20.8	20.7	21.3	21.8
8H	4H	20.1	20.9	20.6	21.3	21.8	20.0	20.8	20.5	21.2	21.7
	6H	20.4	21.0	20.9	21.5	22.0	20.3	20.9	20.8	21.4	21.9
	8H	20.5	21.0	21.0	21.5	22.0	20.3	20.9	20.8	21.4	21.9
	12H	20.5	21.0	21.0	21.5	22.1	20.3	20.8	20.8	21.3	21.9
12H	4H	20.1	20.8	20.6	21.3	21.7	20.0	20.7	20.5	21.2	21.6
	6H	20.4	21.0	20.9	21.4	22.0	20.3	20.8	20.8	21.3	21.8
	8H	20.5	21.0	21.0	21.5	22.0	20.3	20.8	20.8	21.3	21.9

Maximum UGR = 22.1

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POLAR GRAPH



Maximum Candela = 2437.64 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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