IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L85-927-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-L85-927-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	6826
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)	1.22
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	10255	10229	10374
55	8159	8002	8040
65	6041	5717	5710
75	4061	3484	3580
85	1320	785	1284

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3035.069	3035.069	3035.069	3035.069	3035.069
5	3027.199	3026.483	3024.337	3017.897	3017.897
10	2974.968	2983.554	2981.408	2977.115	2973.537
15	2894.119	2906.282	2904.851	2911.291	2906.282
20	2782.504	2796.814	2795.383	2823.287	2805.400
25	2627.245	2647.278	2663.019	2688.061	2660.872
30	2434.065	2470.555	2487.726	2497.743	2476.278
35	2205.827	2252.333	2260.919	2246.609	2238.739
40	1954.693	1975.442	1976.873	1967.572	1981.166
45	1668.501	1667.785	1664.208	1661.346	1687.819
50	1373.723	1352.974	1357.982	1346.535	1368.714
55	1076.798	1061.773	1056.049	1061.773	1061.058
60	805.631	789.891	789.175	799.907	797.761
65	587.410	577.393	555.928	575.962	555.213
70	394.945	393.514	357.740	389.937	358.456
75	241.832	232.531	207.489	228.954	213.213
80	109.469	107.322	88.720	98.021	103.745
85	26.473	28.619	15.741	20.033	25.757
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1106.63	N.A.	16.20
0-30	2329.86	N.A.	34.10
0-40	3729.06	N.A.	54.60
0-60	5969.61	N.A.	87.50
0-80	6786.51	N.A.	99.40
0-90	6826.07	N.A.	100.00
10-90	6538.95	N.A.	95.80
20-40	2622.43	N.A.	38.40
20-50	3907.63	N.A.	57.20
40-70	2812.91	N.A.	41.20
60-80	816.90	N.A.	12.00
70-80	244.54	N.A.	3.60
80-90	39.56	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	6826.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	287.13
10-20	819.50
20-30	1223.23
30-40	1399.2
40-50	1285.2
50-60	955.35
60-70	572.36
70-80	244.54
80-90	39.56
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

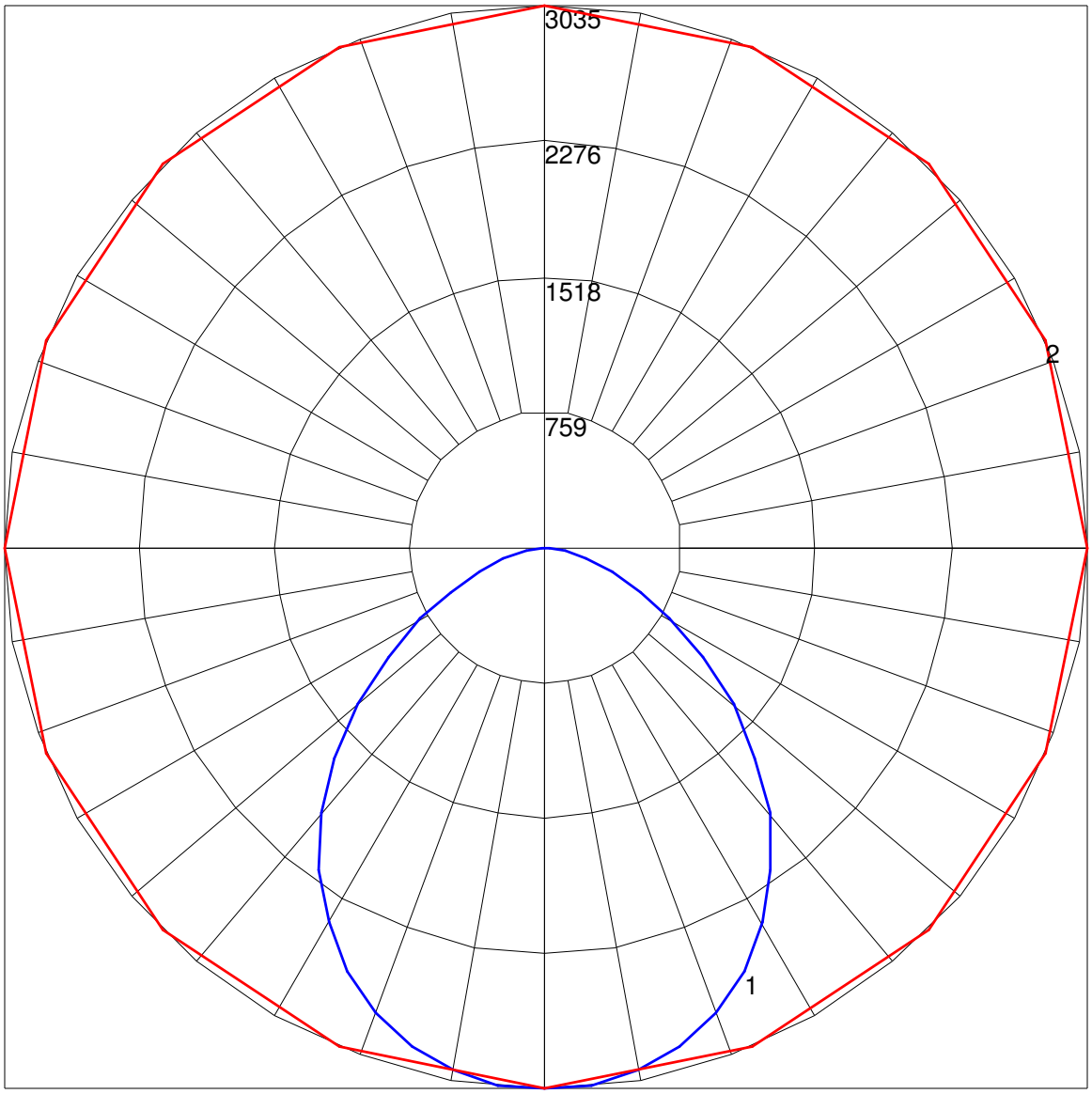
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.7	20.2	19.0	20.5	20.8	18.7	20.2	19.1	20.5	20.8
	3H	19.8	21.2	20.2	21.5	21.9	19.8	21.1	20.1	21.4	21.8
	4H	20.2	21.5	20.6	21.8	22.2	20.1	21.3	20.5	21.7	22.1
	6H	20.4	21.5	20.8	21.9	22.3	20.2	21.4	20.6	21.7	22.1
	8H	20.4	21.5	20.8	21.9	22.3	20.2	21.3	20.6	21.7	22.1
	12H	20.4	21.4	20.8	21.8	22.3	20.2	21.3	20.7	21.7	22.1
4H	2H	19.0	20.3	19.4	20.7	21.0	19.1	20.3	19.5	20.7	21.0
	3H	20.4	21.4	20.8	21.8	22.2	20.3	21.4	20.8	21.8	22.2
	4H	20.8	21.8	21.3	22.2	22.6	20.7	21.7	21.1	22.1	22.5
	6H	21.1	21.9	21.5	22.3	22.8	20.9	21.7	21.4	22.2	22.7
	8H	21.1	21.9	21.6	22.3	22.8	21.0	21.7	21.4	22.2	22.6
	12H	21.1	21.8	21.6	22.3	22.7	21.0	21.6	21.5	22.1	22.6
8H	4H	20.9	21.7	21.4	22.1	22.6	20.8	21.6	21.3	22.0	22.5
	6H	21.2	21.8	21.7	22.3	22.8	21.1	21.7	21.6	22.2	22.7
	8H	21.3	21.8	21.8	22.3	22.8	21.1	21.7	21.6	22.2	22.7
	12H	21.3	21.8	21.8	22.3	22.9	21.1	21.6	21.6	22.1	22.7
12H	4H	20.9	21.6	21.4	22.1	22.5	20.8	21.5	21.3	22.0	22.4
	6H	21.2	21.8	21.7	22.2	22.8	21.1	21.6	21.6	22.1	22.6
	8H	21.3	21.8	21.8	22.3	22.8	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 22.9

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POLAR GRAPH



Maximum Candela = 3035.069 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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