IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L85-935-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-L85-935-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	7167
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	10768	10740	10893
55	8567	8402	8442
65	6343	6003	5995
75	4264	3658	3759
85	1386	824	1349

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3186.822	3186.822	3186.822	3186.822	3186.822
5	3178.558	3177.807	3175.553	3168.792	3168.792
10	3123.717	3132.732	3130.478	3125.970	3122.214
15	3038.825	3051.596	3050.094	3056.855	3051.596
20	2921.629	2936.654	2935.152	2964.451	2945.669
25	2758.607	2779.642	2796.170	2822.464	2793.916
30	2555.768	2594.082	2612.112	2622.630	2600.092
35	2316.118	2364.950	2373.965	2358.940	2350.676
40	2052.428	2074.214	2075.717	2065.950	2080.224
45	1751.926	1751.175	1747.418	1744.413	1772.210
50	1442.409	1420.622	1425.881	1413.861	1437.150
55	1130.638	1114.862	1108.852	1114.862	1114.111
60	845.913	829.385	828.634	839.903	837.649
65	616.780	606.262	583.725	604.760	582.974
70	414.693	413.190	375.627	409.434	376.379
75	253.924	244.158	217.864	240.401	223.874
80	114.942	112.688	93.156	102.922	108.932
85	27.796	30.050	16.528	21.035	27.045
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1161.96	N.A.	16.20
0-30	2446.35	N.A.	34.10
0-40	3915.51	N.A.	54.60
0-60	6268.09	N.A.	87.50
0-80	7125.84	N.A.	99.40
0-90	7167.38	N.A.	100.00
10-90	6865.89	N.A.	95.80
20-40	2753.56	N.A.	38.40
20-50	4103.02	N.A.	57.20
40-70	2953.55	N.A.	41.20
60-80	857.75	N.A.	12.00
70-80	256.77	N.A.	3.60
80-90	41.54	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	7167.38	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	301.48
10-20	860.47
20-30	1284.39
30-40	1469.16
40-50	1349.46
50-60	1003.11
60-70	600.98
70-80	256.77
80-90	41.54
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	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

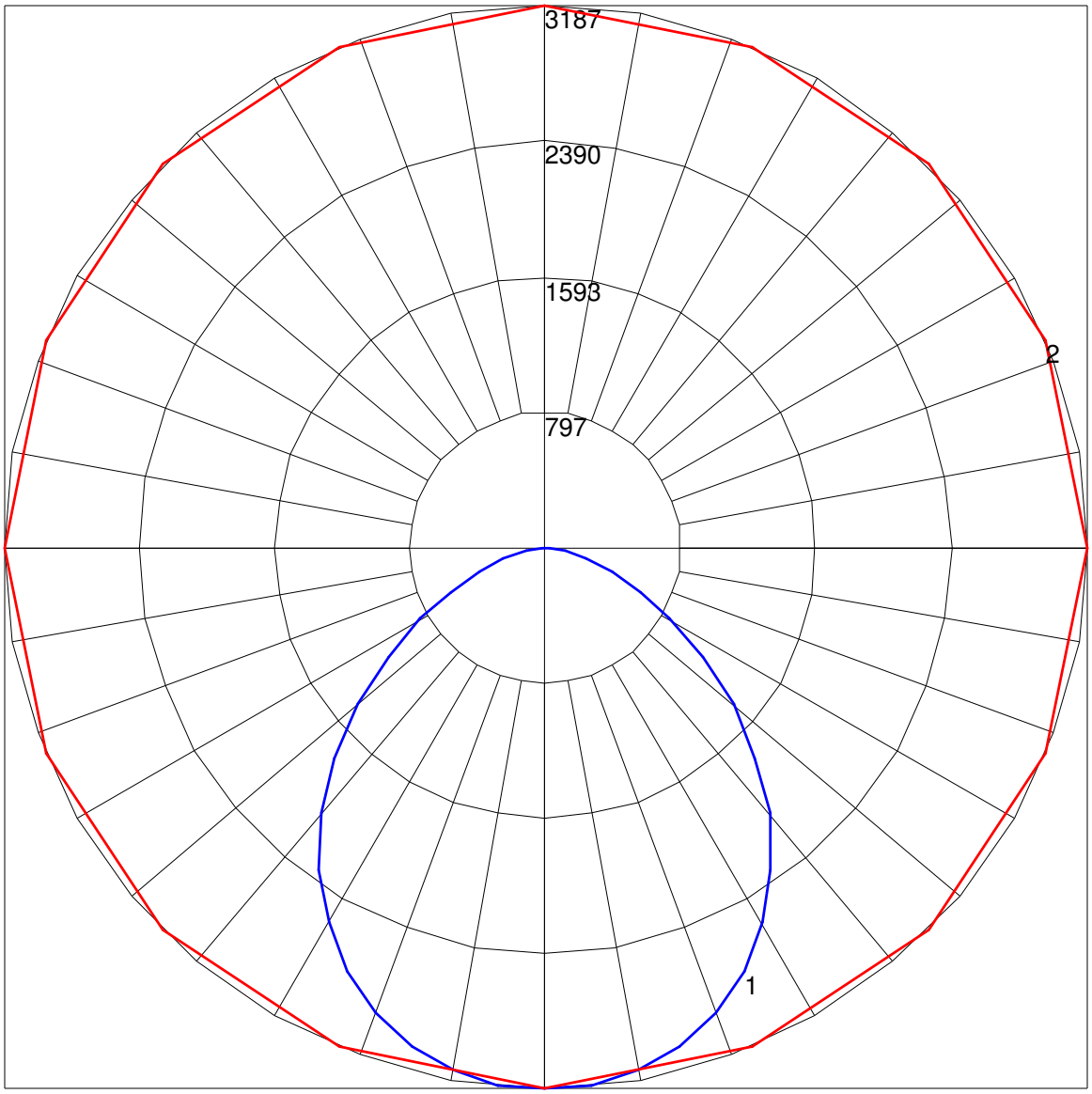
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.8	20.3	19.1	20.6	20.9	18.8	20.3	19.2	20.6	20.9
	3H	19.9	21.3	20.3	21.6	22.0	19.9	21.2	20.2	21.5	21.9
	4H	20.3	21.6	20.7	21.9	22.3	20.2	21.4	20.6	21.8	22.2
	6H	20.5	21.6	20.9	22.0	22.4	20.3	21.5	20.7	21.8	22.2
	8H	20.5	21.6	20.9	22.0	22.4	20.3	21.4	20.7	21.8	22.2
	12H	20.5	21.5	20.9	21.9	22.4	20.3	21.4	20.8	21.8	22.2
4H	2H	19.1	20.4	19.5	20.8	21.1	19.2	20.4	19.6	20.8	21.1
	3H	20.5	21.5	20.9	21.9	22.3	20.4	21.5	20.9	21.9	22.3
	4H	20.9	21.9	21.4	22.3	22.7	20.8	21.8	21.2	22.2	22.6
	6H	21.2	22.0	21.6	22.4	22.9	21.0	21.8	21.5	22.3	22.8
	8H	21.2	22.0	21.7	22.4	22.9	21.1	21.8	21.5	22.3	22.7
	12H	21.2	21.9	21.7	22.4	22.8	21.1	21.7	21.6	22.2	22.7
8H	4H	21.0	21.8	21.5	22.2	22.7	20.9	21.7	21.4	22.1	22.6
	6H	21.3	21.9	21.8	22.4	22.9	21.2	21.8	21.7	22.3	22.8
	8H	21.4	21.9	21.9	22.4	22.9	21.2	21.8	21.7	22.3	22.8
	12H	21.4	21.9	21.9	22.4	23.0	21.2	21.7	21.7	22.2	22.8
12H	4H	21.0	21.7	21.5	22.2	22.6	20.9	21.6	21.4	22.1	22.5
	6H	21.3	21.9	21.8	22.3	22.9	21.2	21.7	21.7	22.2	22.7
	8H	21.4	21.9	21.9	22.4	22.9	21.2	21.7	21.7	22.2	22.8

Maximum UGR = 23.0

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POLAR GRAPH



Maximum Candela = 3186.822 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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