IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-940-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-L30-940-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	2552
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)	1.22
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	3833	3824	3878
55	3050	2991	3005
65	2258	2137	2134
75	1518	1302	1338
85	493	293	480

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1134.505	1134.505	1134.505	1134.505	1134.505
5	1131.563	1131.296	1130.493	1128.086	1128.086
10	1112.040	1115.249	1114.447	1112.842	1111.505
15	1081.818	1086.365	1085.830	1088.237	1086.365
20	1040.097	1045.446	1044.911	1055.341	1048.655
25	982.061	989.549	995.433	1004.794	994.631
30	909.851	923.490	929.909	933.653	925.630
35	824.535	841.919	845.129	839.780	836.838
40	730.662	738.418	738.953	735.476	740.557
45	623.684	623.416	622.079	621.009	630.905
50	513.496	505.740	507.612	503.333	511.624
55	402.506	396.890	394.750	396.890	396.622
60	301.144	295.260	294.993	299.004	298.202
65	219.573	215.829	207.805	215.294	207.538
70	147.630	147.095	133.723	145.758	133.990
75	90.397	86.920	77.559	85.583	79.699
80	40.919	40.117	33.163	36.640	38.780
85	9.895	10.698	5.884	7.488	9.628
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	413.66	N.A.	16.20
0-30	870.90	N.A.	34.10
0-40	1393.92	N.A.	54.60
0-60	2231.43	N.A.	87.50
0-80	2536.79	N.A.	99.40
0-90	2551.58	N.A.	100.00
10-90	2444.25	N.A.	95.80
20-40	980.26	N.A.	38.40
20-50	1460.67	N.A.	57.20
40-70	1051.46	N.A.	41.20
60-80	305.36	N.A.	12.00
70-80	91.41	N.A.	3.60
80-90	14.79	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	2551.58	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.33
10-20	306.33
20-30	457.24
30-40	523.02
40-50	480.41
50-60	357.11
60-70	213.95
70-80	91.41
80-90	14.79
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	71	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	49
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

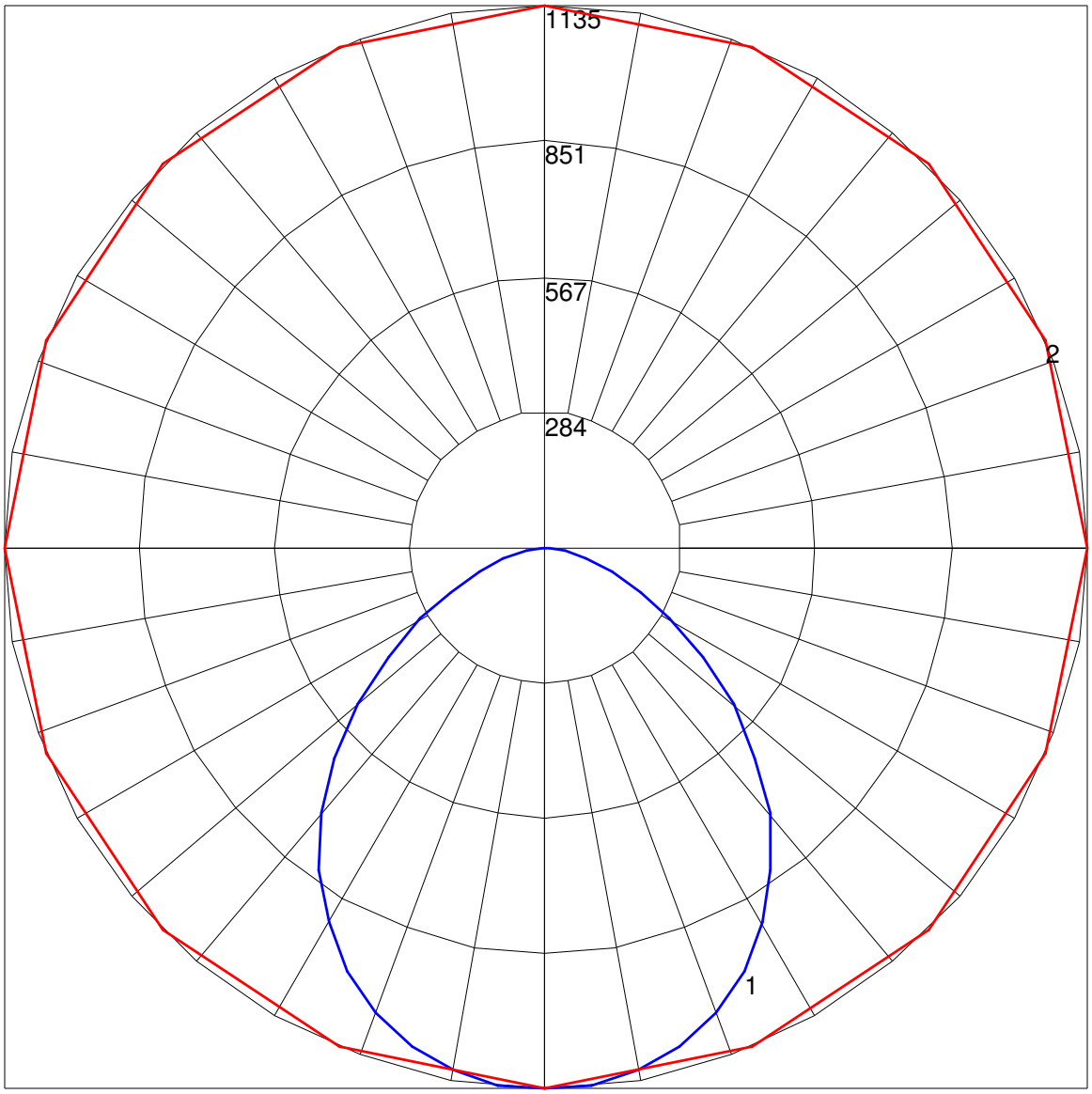
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.3	16.8	15.6	17.1	17.4	15.3	16.8	15.7	17.1	17.4
	3H	16.4	17.8	16.8	18.1	18.5	16.4	17.7	16.7	18.0	18.4
	4H	16.8	18.1	17.2	18.4	18.8	16.7	17.9	17.1	18.3	18.7
	6H	17.0	18.1	17.4	18.5	18.9	16.8	18.0	17.2	18.3	18.7
	8H	17.0	18.1	17.4	18.5	18.9	16.8	17.9	17.2	18.3	18.7
	12H	17.0	18.0	17.4	18.4	18.9	16.8	17.9	17.3	18.3	18.7
4H	2H	15.6	16.9	16.0	17.3	17.6	15.7	16.9	16.1	17.3	17.6
	3H	17.0	18.0	17.4	18.4	18.8	16.9	18.0	17.4	18.4	18.8
	4H	17.4	18.4	17.9	18.8	19.2	17.3	18.3	17.7	18.7	19.1
	6H	17.7	18.5	18.1	18.9	19.4	17.5	18.3	18.0	18.8	19.2
	8H	17.7	18.5	18.2	18.9	19.4	17.6	18.3	18.0	18.8	19.2
	12H	17.7	18.4	18.2	18.9	19.3	17.6	18.2	18.1	18.7	19.2
8H	4H	17.5	18.3	18.0	18.7	19.2	17.4	18.2	17.9	18.6	19.1
	6H	17.8	18.4	18.3	18.9	19.4	17.7	18.3	18.2	18.8	19.3
	8H	17.9	18.4	18.4	18.9	19.4	17.7	18.3	18.2	18.8	19.3
	12H	17.9	18.4	18.4	18.9	19.5	17.7	18.2	18.2	18.7	19.3
12H	4H	17.5	18.2	18.0	18.7	19.1	17.4	18.1	17.9	18.6	19.0
	6H	17.8	18.4	18.3	18.8	19.4	17.7	18.2	18.2	18.7	19.2
	8H	17.9	18.4	18.4	18.9	19.4	17.7	18.2	18.2	18.7	19.3

Maximum UGR = 19.5

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POLAR GRAPH



Maximum Candela = 1134.505 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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