IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-927-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-L30-927-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	2401
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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	3608	3599	3650
55	2871	2815	2829
65	2125	2011	2009
75	1429	1226	1260
85	464	276	452

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1067.769	1067.769	1067.769	1067.769	1067.769
5	1065.001	1064.749	1063.994	1061.728	1061.728
10	1046.626	1049.646	1048.891	1047.381	1046.122
15	1018.182	1022.461	1021.958	1024.223	1022.461
20	978.915	983.949	983.445	993.262	986.969
25	924.293	931.341	936.878	945.688	936.123
30	856.330	869.167	875.209	878.733	871.181
35	776.033	792.395	795.415	790.381	787.612
40	687.682	694.982	695.485	692.213	696.995
45	586.996	586.745	585.486	584.479	593.793
50	483.290	475.991	477.753	473.725	481.528
55	378.829	373.543	371.529	373.543	373.291
60	283.430	277.892	277.640	281.416	280.661
65	206.657	203.133	195.582	202.630	195.330
70	138.946	138.443	125.857	137.184	126.109
75	85.079	81.807	72.997	80.548	75.011
80	38.512	37.757	31.212	34.485	36.498
85	9.313	10.069	5.538	7.048	9.062
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	389.32	N.A.	16.20
0-30	819.67	N.A.	34.10
0-40	1311.92	N.A.	54.60
0-60	2100.17	N.A.	87.50
0-80	2387.57	N.A.	99.40
0-90	2401.49	N.A.	100.00
10-90	2300.47	N.A.	95.80
20-40	922.60	N.A.	38.40
20-50	1374.75	N.A.	57.20
40-70	989.61	N.A.	41.20
60-80	287.40	N.A.	12.00
70-80	86.03	N.A.	3.60
80-90	13.92	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	2401.49	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.01
10-20	288.31
20-30	430.35
30-40	492.25
40-50	452.15
50-60	336.10
60-70	201.36
70-80	86.03
80-90	13.92
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	52	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

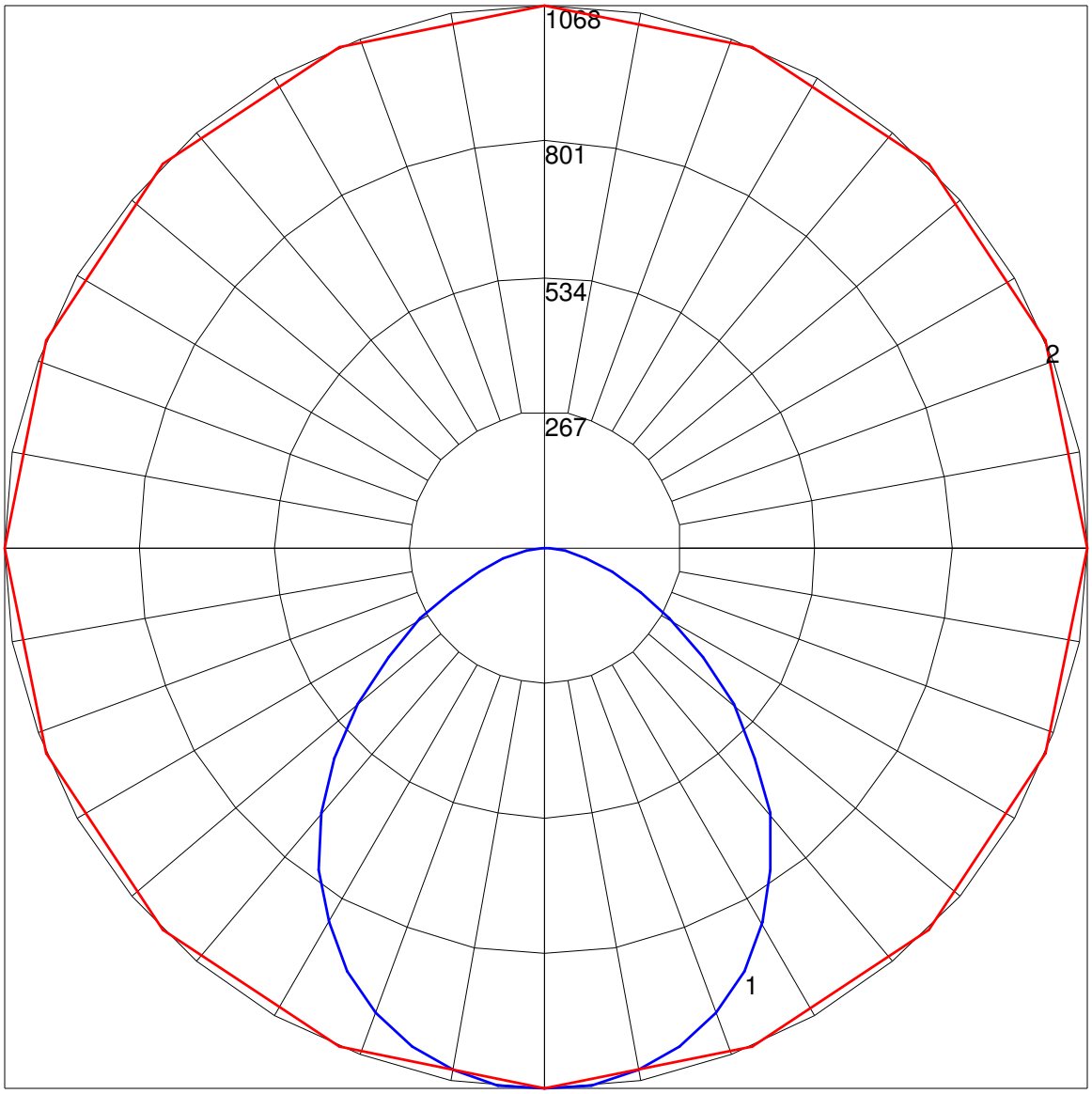
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.0	16.5	15.3	16.8	17.1	15.0	16.5	15.4	16.8	17.1
	3H	16.1	17.5	16.5	17.8	18.2	16.1	17.4	16.4	17.7	18.1
	4H	16.5	17.8	16.9	18.1	18.5	16.4	17.6	16.8	18.0	18.4
	6H	16.7	17.8	17.1	18.2	18.6	16.5	17.7	16.9	18.0	18.4
	8H	16.7	17.8	17.1	18.2	18.6	16.5	17.6	16.9	18.0	18.4
	12H	16.7	17.7	17.1	18.1	18.6	16.5	17.6	17.0	18.0	18.4
4H	2H	15.3	16.6	15.7	17.0	17.3	15.4	16.6	15.8	17.0	17.3
	3H	16.7	17.7	17.1	18.1	18.5	16.6	17.7	17.1	18.1	18.5
	4H	17.1	18.1	17.6	18.5	18.9	17.0	18.0	17.4	18.4	18.8
	6H	17.4	18.2	17.8	18.6	19.1	17.2	18.0	17.7	18.5	18.9
	8H	17.4	18.2	17.9	18.6	19.1	17.3	18.0	17.7	18.5	18.9
	12H	17.4	18.1	17.9	18.6	19.0	17.3	17.9	17.8	18.4	18.9
8H	4H	17.2	18.0	17.7	18.4	18.9	17.1	17.9	17.6	18.3	18.8
	6H	17.5	18.1	18.0	18.6	19.1	17.4	18.0	17.9	18.5	19.0
	8H	17.6	18.1	18.1	18.6	19.1	17.4	18.0	17.9	18.5	19.0
	12H	17.6	18.1	18.1	18.6	19.2	17.4	17.9	17.9	18.4	19.0
12H	4H	17.2	17.9	17.7	18.4	18.8	17.1	17.8	17.6	18.3	18.7
	6H	17.5	18.1	18.0	18.5	19.1	17.4	17.9	17.9	18.4	18.9
	8H	17.6	18.1	18.1	18.6	19.1	17.4	17.9	17.9	18.4	19.0

Maximum UGR = 19.2

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POLAR GRAPH



Maximum Candela = 1067.769 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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