IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-950-CS-SAF125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19834.0
[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 REFL LUMINAIRE
[MORE] FROSTED ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-22-L30-950-CS-SAF125-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	2713
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	27.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2710	2719	2721
55	2373	2310	2354
65	1839	1793	1851
75	1177	1219	1128
85	233	441	359

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1154.665	1154.665	1154.665	1154.665	1154.665
5	1159.298	1151.913	1145.977	1143.225	1143.515
10	1139.316	1133.089	1128.021	1125.704	1122.663
15	1105.721	1099.929	1098.046	1093.847	1091.965
20	1058.081	1055.474	1055.185	1043.890	1045.628
25	997.553	996.249	993.933	987.416	990.023
30	927.757	924.861	918.635	918.635	921.096
35	843.482	841.020	838.413	835.662	836.531
40	751.821	751.821	752.834	748.490	748.490
45	656.974	658.712	659.002	653.065	659.581
50	561.694	556.915	558.508	548.082	562.128
55	466.558	457.000	454.104	454.828	462.793
60	364.181	360.416	353.176	363.457	366.209
65	266.439	270.204	259.778	267.597	268.176
70	181.729	181.005	178.977	177.240	174.344
75	104.403	100.349	108.168	102.521	100.059
80	41.703	41.269	49.668	50.826	46.772
85	6.951	8.978	13.177	14.191	10.715
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	418.25	N.A.	15.40
0-30	874.95	N.A.	32.30
0-40	1399.4	N.A.	51.60
0-60	2314.95	N.A.	85.30
0-80	2693.84	N.A.	99.30
0-90	2712.64	N.A.	100.00
10-90	2603.63	N.A.	96.00
20-40	981.15	N.A.	36.20
20-50	1487.1	N.A.	54.80
40-70	1180.61	N.A.	43.50
60-80	378.89	N.A.	14.00
70-80	113.83	N.A.	4.20
80-90	18.80	N.A.	0.70
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	2712.64	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	109.01
10-20	309.24
20-30	456.70
30-40	524.45
40-50	505.95
50-60	409.61
60-70	265.06
70-80	113.83
80-90	18.80
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	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	45	38	33	44	37	33	43	37	32	42	37	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

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UGR TABLE - CORRECTED

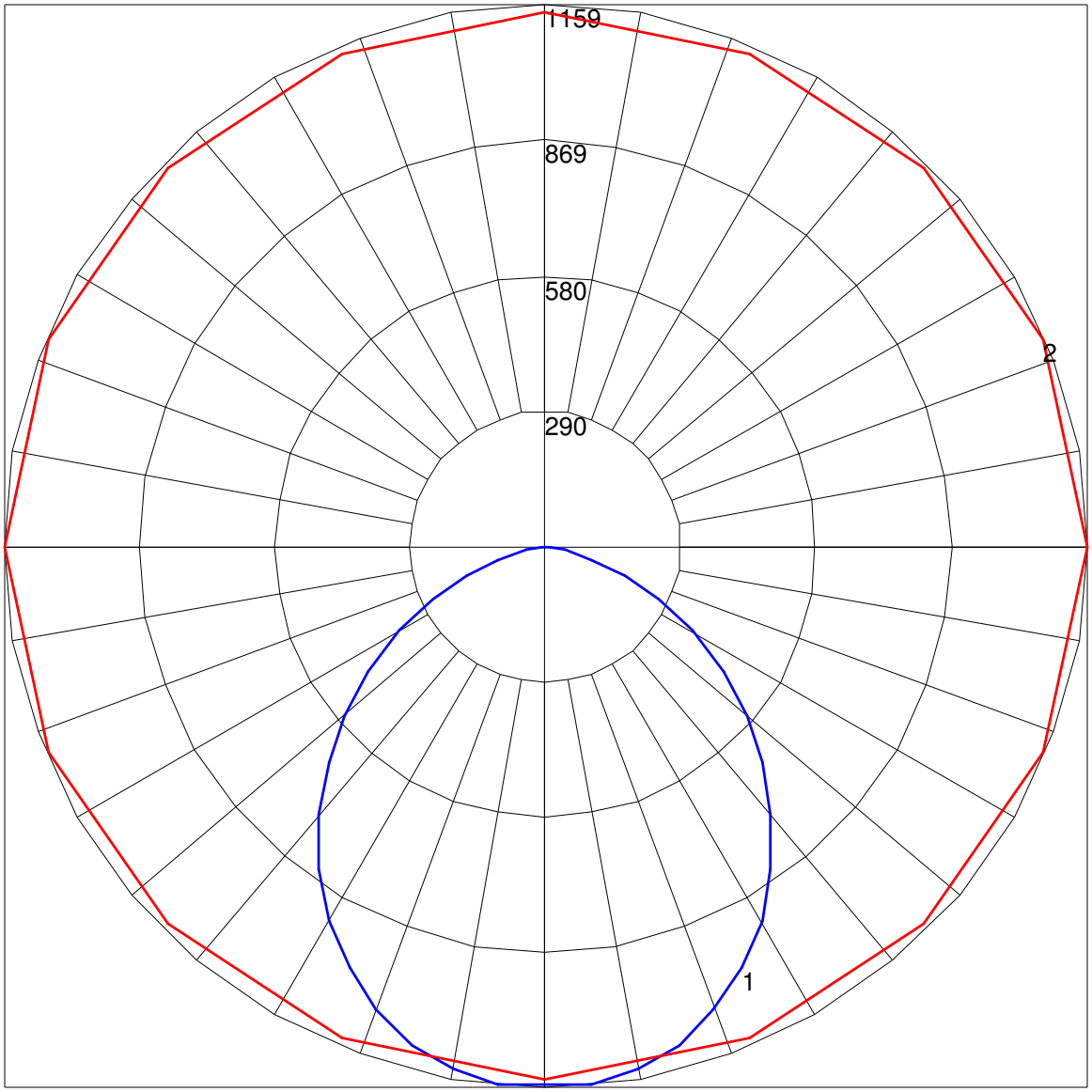
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.8	16.3	15.1	16.6	16.9	14.8	16.3	15.1	16.6	17.0
	3H	16.0	17.4	16.4	17.8	18.1	16.0	17.4	16.4	17.7	18.1
	4H	16.4	17.7	16.8	18.0	18.4	16.3	17.6	16.7	18.0	18.3
	6H	16.5	17.7	16.9	18.1	18.5	16.5	17.7	16.9	18.0	18.4
	8H	16.5	17.7	16.9	18.0	18.4	16.5	17.6	16.9	18.0	18.4
	12H	16.5	17.6	16.9	18.0	18.4	16.5	17.6	16.9	18.0	18.4
4H	2H	15.2	16.5	15.6	16.9	17.2	15.2	16.5	15.6	16.9	17.2
	3H	16.7	17.7	17.1	18.1	18.5	16.6	17.7	17.0	18.1	18.5
	4H	17.1	18.0	17.5	18.5	18.9	17.0	18.0	17.5	18.4	18.9
	6H	17.3	18.1	17.7	18.5	19.0	17.3	18.1	17.7	18.6	19.0
	8H	17.3	18.1	17.7	18.5	19.0	17.3	18.1	17.8	18.5	19.0
	12H	17.3	18.0	17.7	18.4	18.9	17.3	18.0	17.8	18.5	19.0
8H	4H	17.2	18.0	17.7	18.4	18.9	17.2	18.0	17.6	18.4	18.9
	6H	17.5	18.1	17.9	18.6	19.1	17.5	18.1	18.0	18.6	19.1
	8H	17.5	18.1	18.0	18.6	19.1	17.5	18.1	18.1	18.6	19.1
	12H	17.5	18.0	18.0	18.5	19.0	17.6	18.1	18.1	18.6	19.1
12H	4H	17.2	17.9	17.7	18.4	18.9	17.2	17.9	17.6	18.3	18.8
	6H	17.5	18.0	18.0	18.5	19.0	17.5	18.1	18.0	18.5	19.1
	8H	17.5	18.0	18.0	18.5	19.1	17.6	18.1	18.1	18.6	19.1

Maximum UGR = 19.1

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POLAR GRAPH



Maximum Candela = 1159.298 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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