IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-840-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-L30-840-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	3092
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	4645	4633	4699
55	3696	3625	3642
65	2736	2590	2586
75	1839	1578	1622
85	598	356	582

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1374.753	1374.753	1374.753	1374.753	1374.753
5	1371.188	1370.864	1369.892	1366.975	1366.975
10	1347.530	1351.419	1350.447	1348.502	1346.882
15	1310.909	1316.418	1315.770	1318.687	1316.418
20	1260.352	1266.834	1266.186	1278.825	1270.723
25	1190.027	1199.101	1206.231	1217.573	1205.258
30	1102.525	1119.053	1126.831	1131.368	1121.645
35	999.143	1020.208	1024.097	1017.615	1014.050
40	885.390	894.788	895.437	891.224	897.381
45	755.758	755.434	753.813	752.517	764.508
50	622.236	612.838	615.106	609.921	619.968
55	487.742	480.937	478.344	480.937	480.613
60	364.916	357.786	357.462	362.323	361.351
65	266.071	261.534	251.811	260.885	251.487
70	178.893	178.245	162.041	176.624	162.365
75	109.539	105.326	93.984	103.706	96.576
80	49.584	48.612	40.186	44.399	46.992
85	11.991	12.963	7.130	9.074	11.667
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	501.25	N.A.	16.20
0-30	1055.32	N.A.	34.10
0-40	1689.1	N.A.	54.60
0-60	2703.97	N.A.	87.50
0-80	3073.99	N.A.	99.40
0-90	3091.91	N.A.	100.00
10-90	2961.86	N.A.	95.80
20-40	1187.85	N.A.	38.40
20-50	1769.99	N.A.	57.20
40-70	1274.12	N.A.	41.20
60-80	370.02	N.A.	12.00
70-80	110.77	N.A.	3.60
80-90	17.92	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	3091.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.06
10-20	371.20
20-30	554.07
30-40	633.78
40-50	582.14
50-60	432.73
60-70	259.25
70-80	110.77
80-90	17.92
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	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

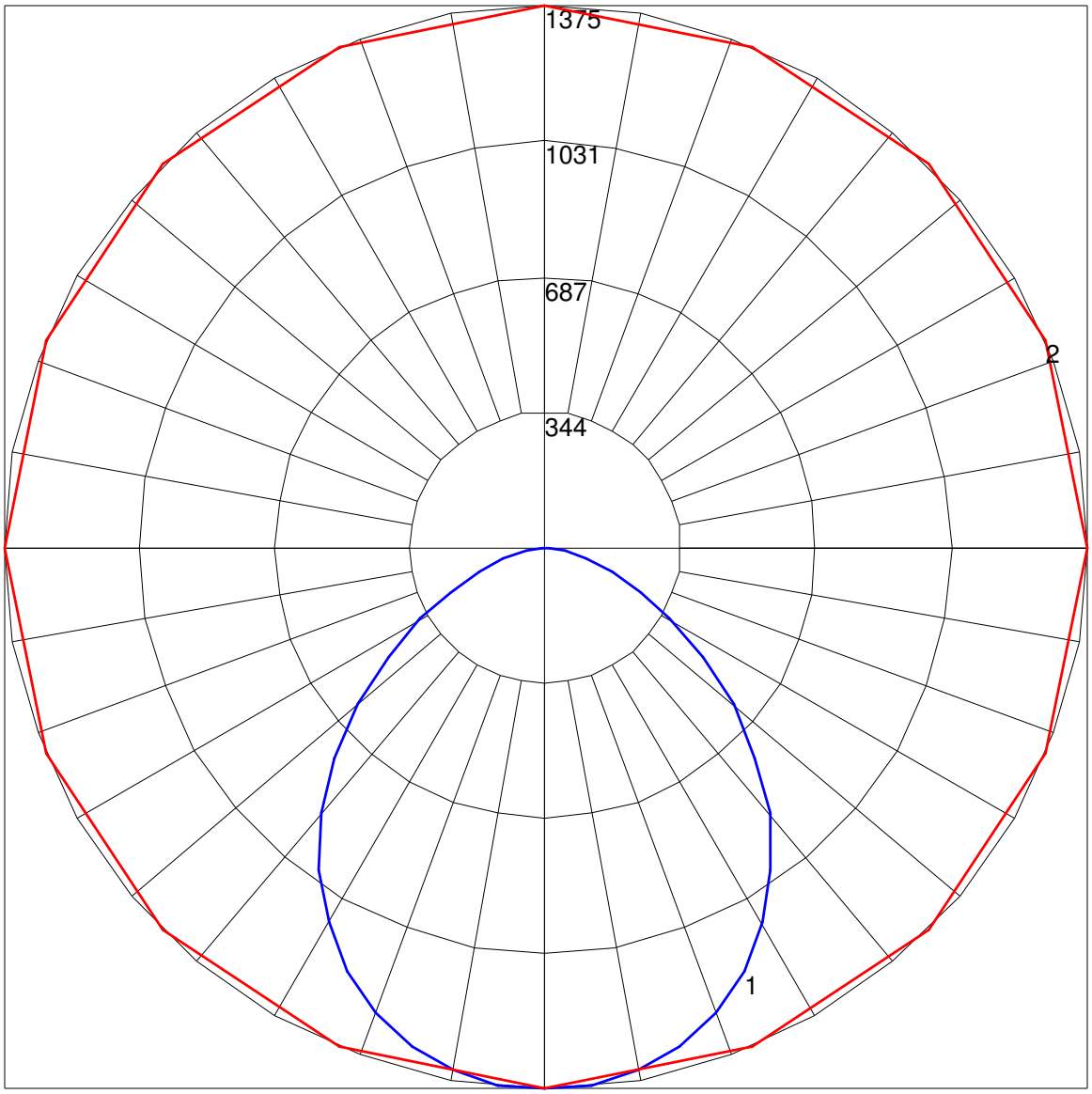
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.9	17.4	16.2	17.7	18.0	15.9	17.4	16.3	17.7	18.0
	3H	17.0	18.4	17.4	18.7	19.1	17.0	18.3	17.3	18.6	19.0
	4H	17.4	18.7	17.8	19.0	19.4	17.3	18.5	17.7	18.9	19.3
	6H	17.6	18.7	18.0	19.1	19.5	17.4	18.6	17.8	18.9	19.3
	8H	17.6	18.7	18.0	19.1	19.5	17.4	18.5	17.8	18.9	19.3
	12H	17.6	18.6	18.0	19.0	19.5	17.4	18.5	17.9	18.9	19.3
4H	2H	16.2	17.5	16.6	17.9	18.2	16.3	17.5	16.7	17.9	18.2
	3H	17.6	18.6	18.0	19.0	19.4	17.5	18.6	18.0	19.0	19.4
	4H	18.0	19.0	18.5	19.4	19.8	17.9	18.9	18.3	19.3	19.7
	6H	18.3	19.1	18.7	19.5	20.0	18.1	18.9	18.6	19.4	19.9
	8H	18.3	19.1	18.8	19.5	20.0	18.2	18.9	18.6	19.4	19.8
	12H	18.3	19.0	18.8	19.5	19.9	18.2	18.8	18.7	19.3	19.8
8H	4H	18.1	18.9	18.6	19.3	19.8	18.0	18.8	18.5	19.2	19.7
	6H	18.4	19.0	18.9	19.5	20.0	18.3	18.9	18.8	19.4	19.9
	8H	18.5	19.0	19.0	19.5	20.0	18.3	18.9	18.8	19.4	19.9
	12H	18.5	19.0	19.0	19.5	20.1	18.3	18.8	18.8	19.3	19.9
12H	4H	18.1	18.8	18.6	19.3	19.7	18.0	18.7	18.5	19.2	19.6
	6H	18.4	19.0	18.9	19.4	20.0	18.3	18.8	18.8	19.3	19.8
	8H	18.5	19.0	19.0	19.5	20.0	18.3	18.8	18.8	19.3	19.9

Maximum UGR = 20.1

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POLAR GRAPH



Maximum Candela = 1374.753 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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