IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-835-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-L30-835-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	3002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	4510	4498	4562
55	3588	3519	3536
65	2657	2514	2511
75	1786	1532	1574
85	581	345	565

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1334.712	1334.712	1334.712	1334.712	1334.712
5	1331.251	1330.936	1329.992	1327.160	1327.160
10	1308.282	1312.058	1311.114	1309.226	1307.653
15	1272.727	1278.076	1277.447	1280.279	1278.076
20	1223.643	1229.936	1229.307	1241.578	1233.712
25	1155.366	1164.176	1171.098	1182.110	1170.154
30	1070.412	1086.459	1094.011	1098.416	1088.976
35	970.042	990.493	994.269	987.976	984.515
40	859.602	868.727	869.356	865.266	871.244
45	733.745	733.431	731.858	730.599	742.241
50	604.113	594.988	597.191	592.156	601.910
55	473.536	466.929	464.412	466.929	466.614
60	354.287	347.365	347.050	351.770	350.826
65	258.321	253.916	244.477	253.287	244.162
70	173.682	173.053	157.321	171.480	157.636
75	106.349	102.259	91.246	100.685	93.763
80	48.140	47.196	39.016	43.106	45.623
85	11.642	12.586	6.922	8.810	11.327
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	486.65	N.A.	16.20
0-30	1024.59	N.A.	34.10
0-40	1639.9	N.A.	54.60
0-60	2625.21	N.A.	87.50
0-80	2984.46	N.A.	99.40
0-90	3001.86	N.A.	100.00
10-90	2875.59	N.A.	95.80
20-40	1153.25	N.A.	38.40
20-50	1718.43	N.A.	57.20
40-70	1237.01	N.A.	41.20
60-80	359.24	N.A.	12.00
70-80	107.54	N.A.	3.60
80-90	17.40	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	3001.86	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.27
10-20	360.39
20-30	537.93
30-40	615.32
40-50	565.18
50-60	420.13
60-70	251.70
70-80	107.54
80-90	17.40
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

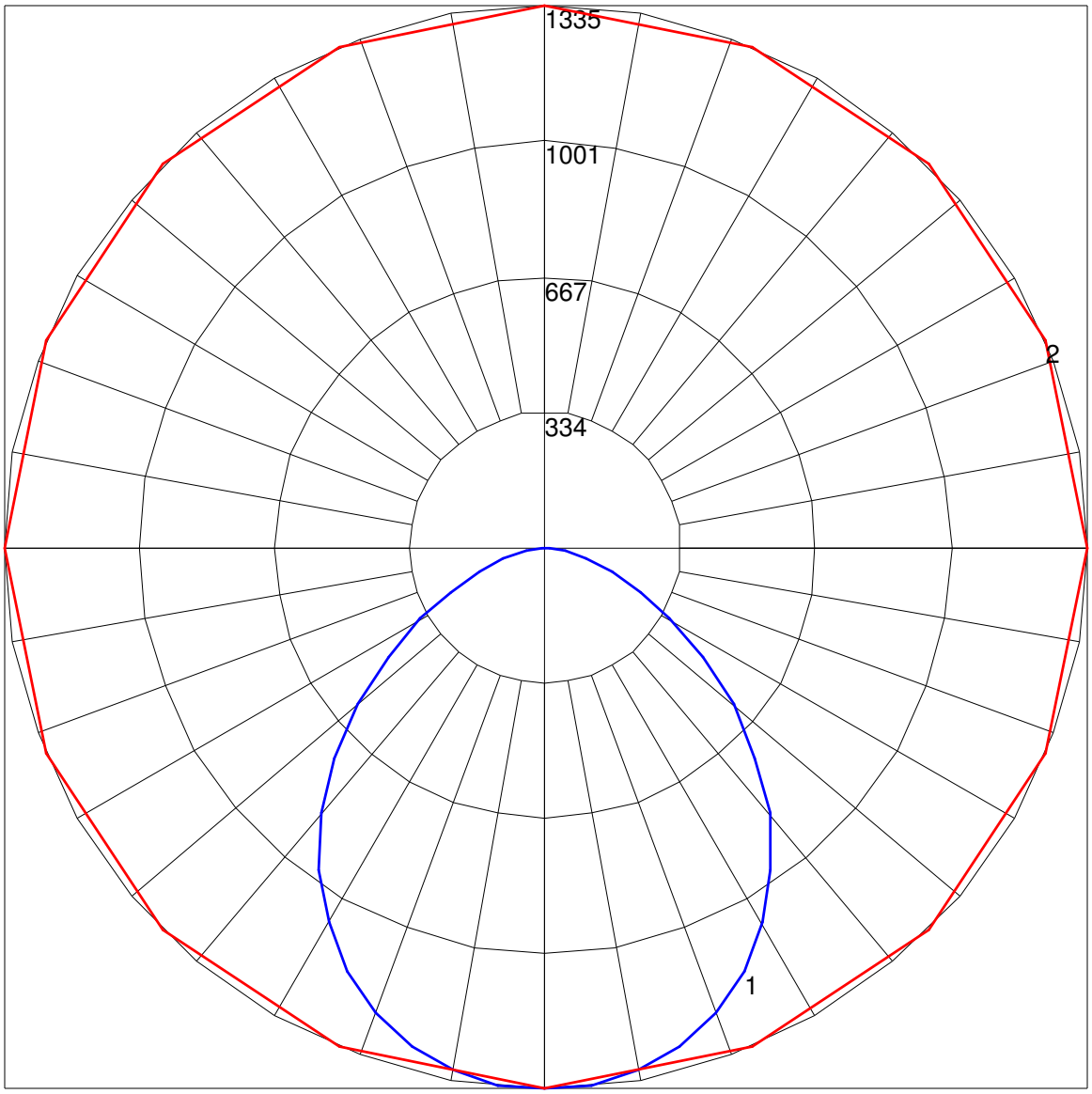
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.8	17.3	16.1	17.6	17.9	15.8	17.3	16.2	17.6	17.9
	3H	16.9	18.3	17.3	18.6	19.0	16.9	18.2	17.2	18.5	18.9
	4H	17.3	18.6	17.7	18.9	19.3	17.2	18.4	17.6	18.8	19.2
	6H	17.5	18.6	17.9	19.0	19.4	17.3	18.5	17.7	18.8	19.2
	8H	17.5	18.6	17.9	19.0	19.4	17.3	18.4	17.7	18.8	19.2
	12H	17.5	18.5	17.9	18.9	19.4	17.3	18.4	17.8	18.8	19.2
4H	2H	16.1	17.4	16.5	17.8	18.1	16.2	17.4	16.6	17.8	18.1
	3H	17.5	18.5	17.9	18.9	19.3	17.4	18.5	17.9	18.9	19.3
	4H	17.9	18.9	18.4	19.3	19.7	17.8	18.8	18.2	19.2	19.6
	6H	18.2	19.0	18.6	19.4	19.9	18.0	18.8	18.5	19.3	19.8
	8H	18.2	19.0	18.7	19.4	19.9	18.1	18.8	18.5	19.3	19.7
	12H	18.2	18.9	18.7	19.4	19.8	18.1	18.7	18.6	19.2	19.7
8H	4H	18.0	18.8	18.5	19.2	19.7	17.9	18.7	18.4	19.1	19.6
	6H	18.3	18.9	18.8	19.4	19.9	18.2	18.8	18.7	19.3	19.8
	8H	18.4	18.9	18.9	19.4	19.9	18.2	18.8	18.7	19.3	19.8
	12H	18.4	18.9	18.9	19.4	20.0	18.2	18.7	18.7	19.2	19.8
12H	4H	18.0	18.7	18.5	19.2	19.6	17.9	18.6	18.4	19.1	19.5
	6H	18.3	18.9	18.8	19.3	19.9	18.2	18.7	18.7	19.2	19.7
	8H	18.4	18.9	18.9	19.4	19.9	18.2	18.7	18.7	19.2	19.8

Maximum UGR = 20.0

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POLAR GRAPH



Maximum Candela = 1334.712 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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