IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-830-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-L30-830-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	2972
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	4465	4453	4516
55	3552	3484	3500
65	2630	2489	2486
75	1768	1517	1559
85	575	342	559

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1321.365	1321.365	1321.365	1321.365	1321.365
5	1317.938	1317.627	1316.692	1313.889	1313.889
10	1295.199	1298.937	1298.003	1296.134	1294.576
15	1260.000	1265.295	1264.673	1267.476	1265.295
20	1211.407	1217.637	1217.014	1229.162	1221.375
25	1143.812	1152.534	1159.387	1170.289	1158.452
30	1059.708	1075.595	1083.071	1087.431	1078.087
35	960.341	980.588	984.326	978.096	974.670
40	851.006	860.040	860.663	856.613	862.532
45	726.408	726.096	724.539	723.293	734.818
50	598.072	589.038	591.219	586.235	595.891
55	468.801	462.260	459.768	462.260	461.948
60	350.744	343.891	343.580	348.252	347.318
65	255.738	251.377	242.032	250.754	241.721
70	171.946	171.323	155.748	169.765	156.059
75	105.286	101.236	90.334	99.679	92.826
80	47.659	46.724	38.625	42.675	45.167
85	11.525	12.460	6.853	8.722	11.214
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	481.79	N.A.	16.20
0-30	1014.34	N.A.	34.10
0-40	1623.5	N.A.	54.60
0-60	2598.96	N.A.	87.50
0-80	2954.61	N.A.	99.40
0-90	2971.84	N.A.	100.00
10-90	2846.83	N.A.	95.80
20-40	1141.72	N.A.	38.40
20-50	1701.25	N.A.	57.20
40-70	1224.64	N.A.	41.20
60-80	355.65	N.A.	12.00
70-80	106.47	N.A.	3.60
80-90	17.22	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	2971.84	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.01
10-20	356.78
20-30	532.55
30-40	609.16
40-50	559.53
50-60	415.93
60-70	249.19
70-80	106.47
80-90	17.22
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

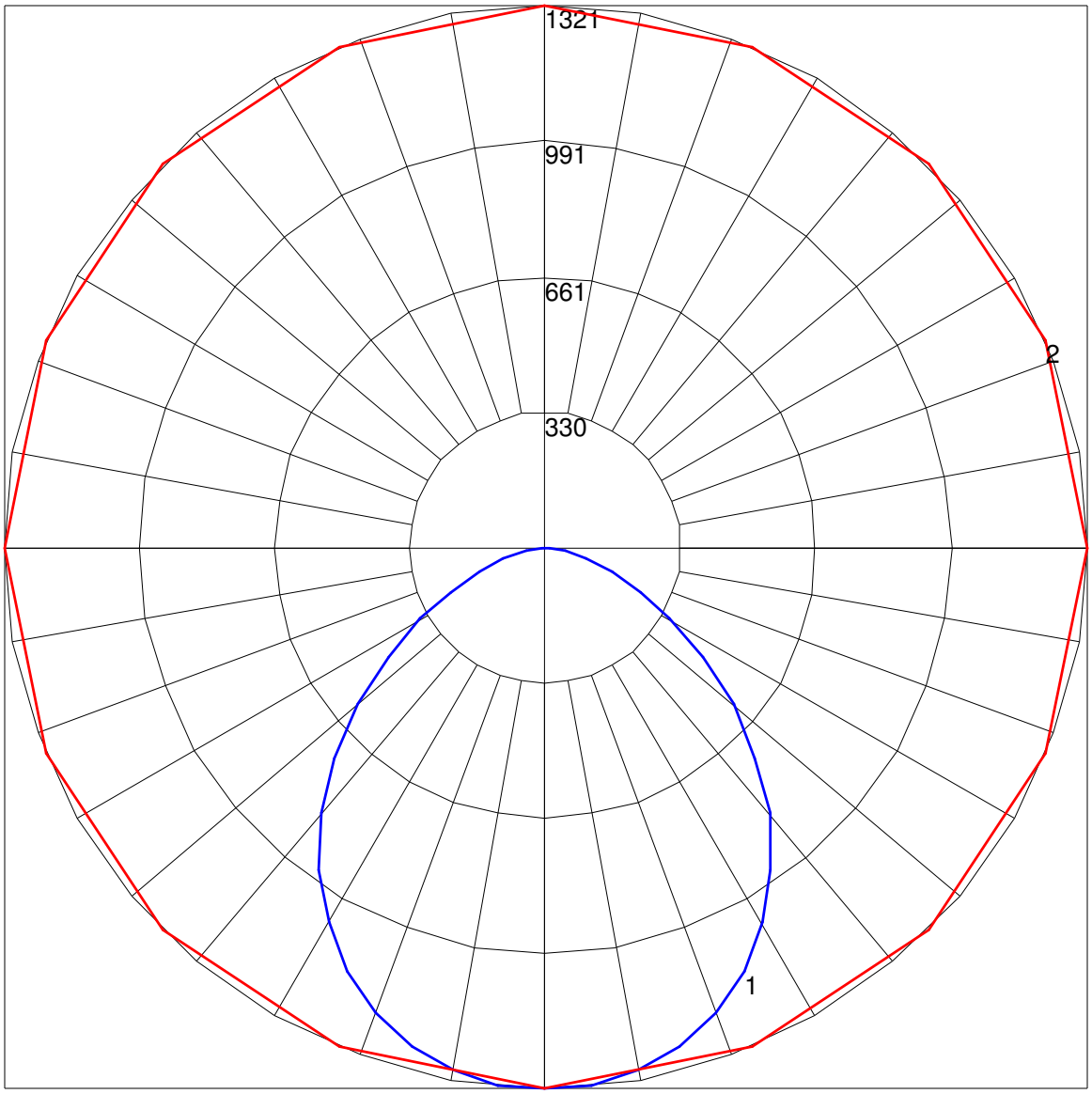
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.8	17.3	16.1	17.6	17.9	15.8	17.3	16.2	17.6	17.9
	3H	16.9	18.3	17.3	18.6	19.0	16.9	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 = 1321.365 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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