IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-827-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-L30-827-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	2912
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	4375	4363	4425
55	3480	3413	3430
65	2577	2439	2436
75	1732	1486	1527
85	563	335	548

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1294.670	1294.670	1294.670	1294.670	1294.670
5	1291.313	1291.008	1290.092	1287.345	1287.345
10	1269.033	1272.696	1271.780	1269.949	1268.423
15	1234.545	1239.734	1239.123	1241.870	1239.734
20	1186.934	1193.038	1192.427	1204.330	1196.700
25	1120.705	1129.250	1135.965	1146.647	1135.049
30	1038.300	1053.865	1061.190	1065.463	1056.307
35	940.940	960.778	964.441	958.337	954.980
40	833.814	842.665	843.275	839.308	845.107
45	711.733	711.428	709.902	708.681	719.973
50	585.989	577.139	579.275	574.392	583.853
55	459.330	452.921	450.479	452.921	452.616
60	343.658	336.944	336.639	341.217	340.301
65	250.572	246.299	237.143	245.688	236.837
70	168.472	167.862	152.601	166.336	152.907
75	103.159	99.191	88.509	97.665	90.950
80	46.696	45.780	37.845	41.813	44.254
85	11.293	12.208	6.714	8.546	10.987
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	472.05	N.A.	16.20
0-30	993.85	N.A.	34.10
0-40	1590.71	N.A.	54.60
0-60	2546.46	N.A.	87.50
0-80	2894.92	N.A.	99.40
0-90	2911.8	N.A.	100.00
10-90	2789.32	N.A.	95.80
20-40	1118.65	N.A.	38.40
20-50	1666.88	N.A.	57.20
40-70	1199.9	N.A.	41.20
60-80	348.47	N.A.	12.00
70-80	104.31	N.A.	3.60
80-90	16.88	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	2911.8	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.48
10-20	349.57
20-30	521.80
30-40	596.86
40-50	548.23
50-60	407.52
60-70	244.15
70-80	104.31
80-90	16.88
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

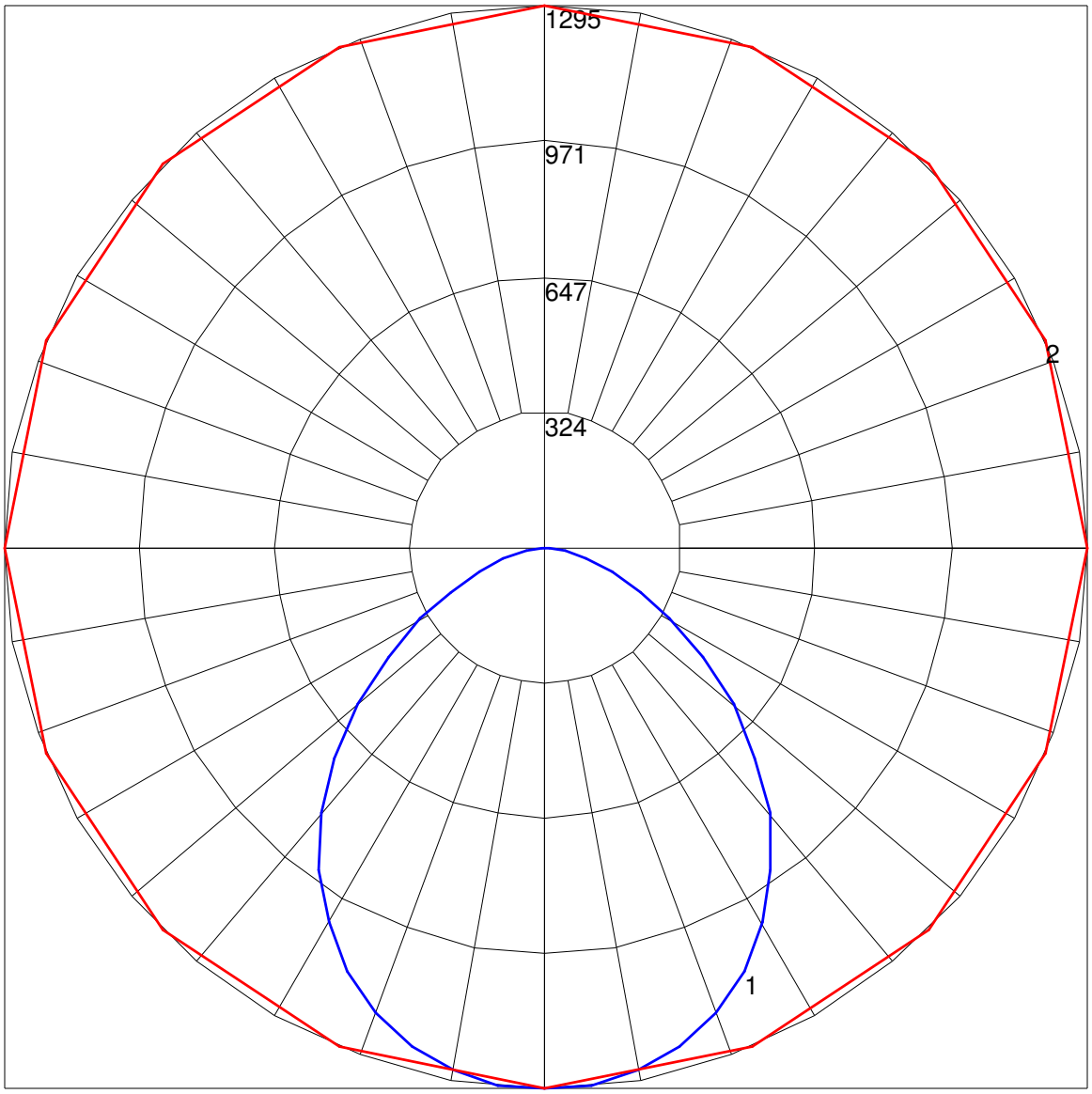
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.7	17.2	16.0	17.5	17.8	15.7	17.2	16.1	17.5	17.8
	3H	16.8	18.2	17.2	18.5	18.9	16.8	18.1	17.1	18.4	18.8
	4H	17.2	18.5	17.6	18.8	19.2	17.1	18.3	17.5	18.7	19.1
	6H	17.4	18.5	17.8	18.9	19.3	17.2	18.4	17.6	18.7	19.1
	8H	17.4	18.5	17.8	18.9	19.3	17.2	18.3	17.6	18.7	19.1
	12H	17.4	18.4	17.8	18.8	19.3	17.2	18.3	17.7	18.7	19.1
4H	2H	16.0	17.3	16.4	17.7	18.0	16.1	17.3	16.5	17.7	18.0
	3H	17.4	18.4	17.8	18.8	19.2	17.3	18.4	17.8	18.8	19.2
	4H	17.8	18.8	18.3	19.2	19.6	17.7	18.7	18.1	19.1	19.5
	6H	18.1	18.9	18.5	19.3	19.8	17.9	18.7	18.4	19.2	19.7
	8H	18.1	18.9	18.6	19.3	19.8	18.0	18.7	18.4	19.2	19.6
	12H	18.1	18.8	18.6	19.3	19.7	18.0	18.6	18.5	19.1	19.6
8H	4H	17.9	18.7	18.4	19.1	19.6	17.8	18.6	18.3	19.0	19.5
	6H	18.2	18.8	18.7	19.3	19.8	18.1	18.7	18.6	19.2	19.7
	8H	18.3	18.8	18.8	19.3	19.8	18.1	18.7	18.6	19.2	19.7
	12H	18.3	18.8	18.8	19.3	19.9	18.1	18.6	18.6	19.1	19.7
12H	4H	17.9	18.6	18.4	19.1	19.5	17.8	18.5	18.3	19.0	19.4
	6H	18.2	18.8	18.7	19.2	19.8	18.1	18.6	18.6	19.1	19.6
	8H	18.3	18.8	18.8	19.3	19.8	18.1	18.6	18.6	19.1	19.7

Maximum UGR = 19.9

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POLAR GRAPH



Maximum Candela = 1294.67 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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