IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-935-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-L30-935-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	2522
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	3788	3779	3832
55	3014	2956	2970
65	2232	2112	2109
75	1500	1287	1323
85	488	290	474

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1121.158	1121.158	1121.158	1121.158	1121.158
5	1118.250	1117.986	1117.193	1114.814	1114.814
10	1098.957	1102.128	1101.335	1099.749	1098.428
15	1069.091	1073.584	1073.055	1075.434	1073.584
20	1027.860	1033.146	1032.617	1042.925	1036.318
25	970.507	977.907	983.722	992.972	982.929
30	899.146	912.625	918.969	922.669	914.740
35	814.835	832.014	835.186	829.900	826.993
40	722.066	729.730	730.259	726.823	731.845
45	616.346	616.082	614.760	613.703	623.482
50	507.455	499.790	501.640	497.411	505.605
55	397.770	392.220	390.106	392.220	391.956
60	297.601	291.786	291.522	295.487	294.694
65	216.990	213.290	205.361	212.761	205.096
70	145.893	145.365	132.150	144.043	132.414
75	89.333	85.897	76.647	84.576	78.761
80	40.438	39.645	32.773	36.209	38.323
85	9.779	10.572	5.815	7.400	9.515
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	408.79	N.A.	16.20
0-30	860.65	N.A.	34.10
0-40	1377.52	N.A.	54.60
0-60	2205.18	N.A.	87.50
0-80	2506.94	N.A.	99.40
0-90	2521.56	N.A.	100.00
10-90	2415.49	N.A.	95.80
20-40	968.73	N.A.	38.40
20-50	1443.48	N.A.	57.20
40-70	1039.09	N.A.	41.20
60-80	301.77	N.A.	12.00
70-80	90.33	N.A.	3.60
80-90	14.61	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	2521.56	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.07
10-20	302.72
20-30	451.86
30-40	516.87
40-50	474.75
50-60	352.91
60-70	211.43
70-80	90.33
80-90	14.61
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	71	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	49
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

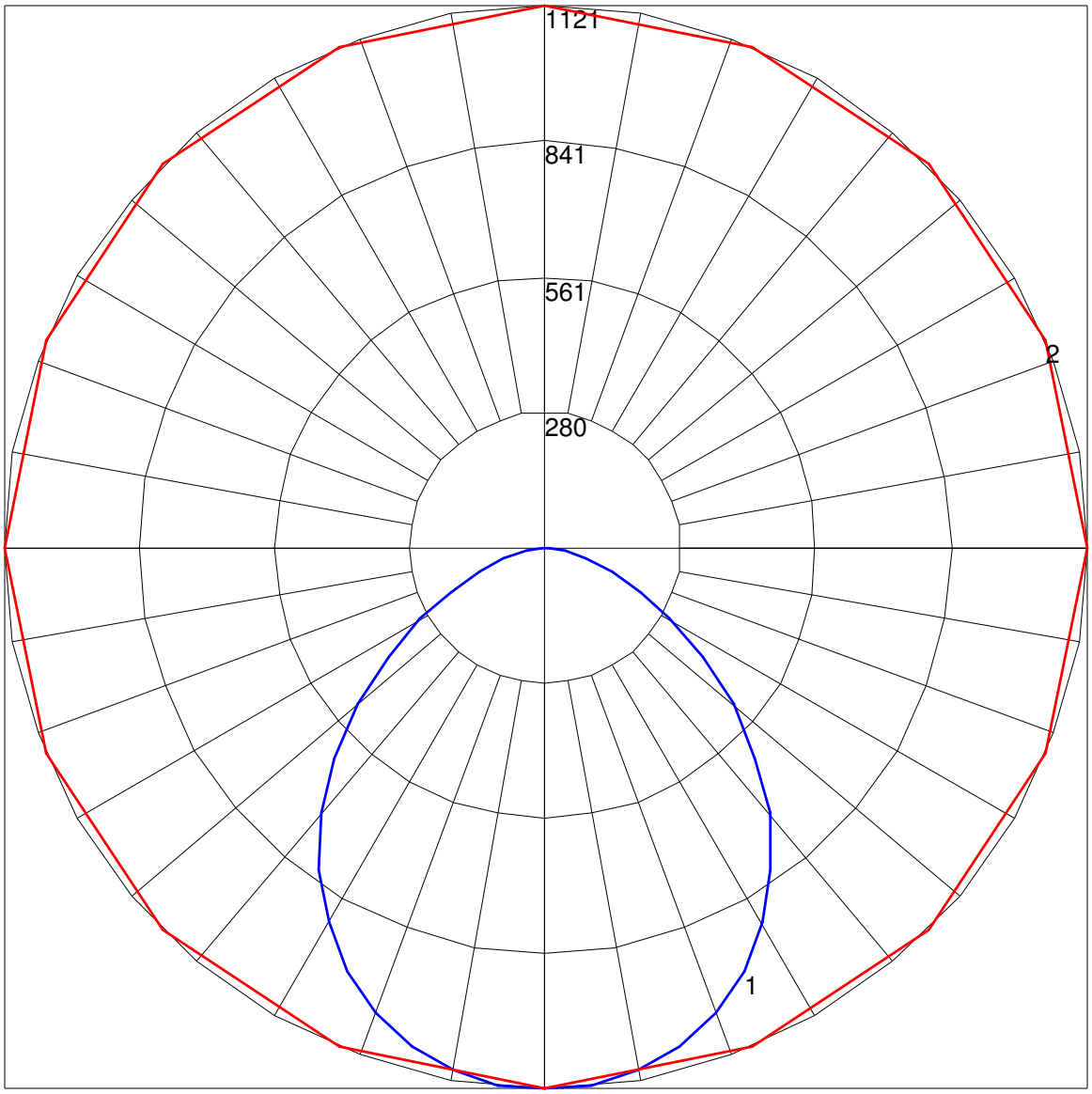
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.2	16.7	15.5	17.0	17.3	15.2	16.7	15.6	17.0	17.3
	3H	16.3	17.7	16.7	18.0	18.4	16.3	17.6	16.6	17.9	18.3
	4H	16.7	18.0	17.1	18.3	18.7	16.6	17.8	17.0	18.2	18.6
	6H	16.9	18.0	17.3	18.4	18.8	16.7	17.9	17.1	18.2	18.6
	8H	16.9	18.0	17.3	18.4	18.8	16.7	17.8	17.1	18.2	18.6
	12H	16.9	17.9	17.3	18.3	18.8	16.7	17.8	17.2	18.2	18.6
4H	2H	15.5	16.8	15.9	17.2	17.5	15.6	16.8	16.0	17.2	17.5
	3H	16.9	17.9	17.3	18.3	18.7	16.8	17.9	17.3	18.3	18.7
	4H	17.3	18.3	17.8	18.7	19.1	17.2	18.2	17.6	18.6	19.0
	6H	17.6	18.4	18.0	18.8	19.3	17.4	18.2	17.9	18.7	19.1
	8H	17.6	18.4	18.1	18.8	19.3	17.5	18.2	17.9	18.7	19.1
	12H	17.6	18.3	18.1	18.8	19.2	17.5	18.1	18.0	18.6	19.1
8H	4H	17.4	18.2	17.9	18.6	19.1	17.3	18.1	17.8	18.5	19.0
	6H	17.7	18.3	18.2	18.8	19.3	17.6	18.2	18.1	18.7	19.2
	8H	17.8	18.3	18.3	18.8	19.3	17.6	18.2	18.1	18.7	19.2
	12H	17.8	18.3	18.3	18.8	19.4	17.6	18.1	18.1	18.6	19.2
12H	4H	17.4	18.1	17.9	18.6	19.0	17.3	18.0	17.8	18.5	18.9
	6H	17.7	18.3	18.2	18.7	19.3	17.6	18.1	18.1	18.6	19.1
	8H	17.8	18.3	18.3	18.8	19.3	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 19.4

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POLAR GRAPH



Maximum Candela = 1121.158 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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