IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-850-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-L30-850-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	3182
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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	4780	4768	4836
55	3803	3730	3748
65	2816	2665	2662
75	1893	1624	1669
85	615	366	599

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1414.794	1414.794	1414.794	1414.794	1414.794
5	1411.126	1410.792	1409.792	1406.790	1406.790
10	1386.779	1390.781	1389.780	1387.779	1386.112
15	1349.091	1354.761	1354.094	1357.095	1354.761
20	1297.062	1303.732	1303.065	1316.072	1307.734
25	1224.688	1234.026	1241.364	1253.037	1240.363
30	1134.637	1151.647	1159.651	1164.320	1154.315
35	1028.244	1049.923	1053.925	1047.255	1043.586
40	911.178	920.850	921.517	917.182	923.519
45	777.770	777.436	775.769	774.435	786.775
50	640.360	630.687	633.022	627.686	638.025
55	501.948	494.945	492.276	494.945	494.611
60	375.544	368.207	367.873	372.876	371.875
65	273.820	269.151	259.145	268.484	258.812
70	184.103	183.436	166.760	181.769	167.094
75	112.730	108.394	96.721	106.727	99.389
80	51.029	50.028	41.357	45.692	48.360
85	12.340	13.341	7.337	9.339	12.007
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	515.85	N.A.	16.20
0-30	1086.06	N.A.	34.10
0-40	1738.3	N.A.	54.60
0-60	2782.73	N.A.	87.50
0-80	3163.53	N.A.	99.40
0-90	3181.97	N.A.	100.00
10-90	3048.12	N.A.	95.80
20-40	1222.44	N.A.	38.40
20-50	1821.54	N.A.	57.20
40-70	1311.23	N.A.	41.20
60-80	380.80	N.A.	12.00
70-80	113.99	N.A.	3.60
80-90	18.44	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	3181.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.84
10-20	382.01
20-30	570.21
30-40	652.24
40-50	599.09
50-60	445.33
60-70	266.81
70-80	113.99
80-90	18.44
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

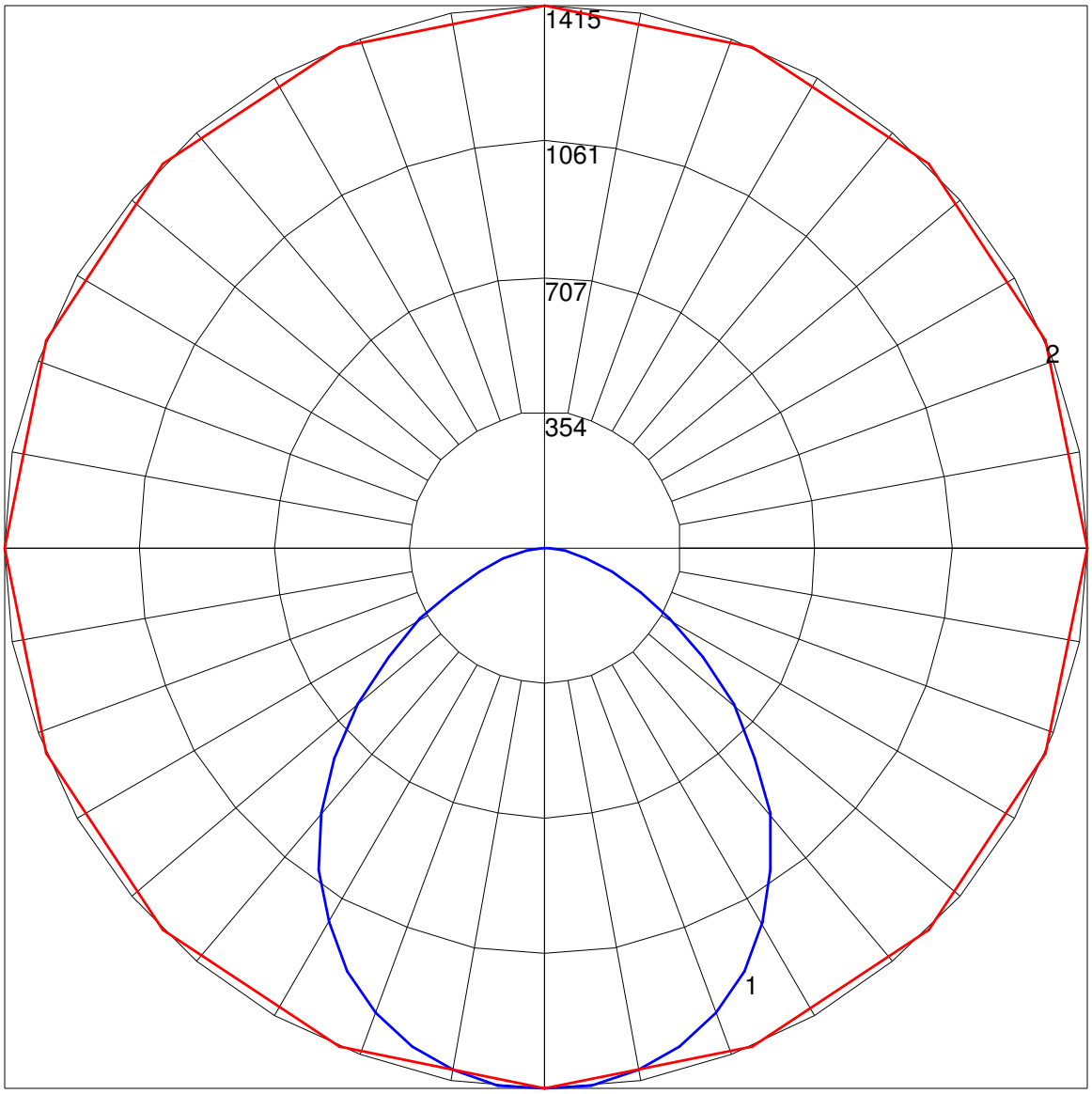
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.0	17.5	16.3	17.8	18.1	16.0	17.5	16.4	17.8	18.1
	3H	17.1	18.5	17.5	18.8	19.2	17.1	18.4	17.4	18.7	19.1
	4H	17.5	18.8	17.9	19.1	19.5	17.4	18.6	17.8	19.0	19.4
	6H	17.7	18.8	18.1	19.2	19.6	17.5	18.7	17.9	19.0	19.4
	8H	17.7	18.8	18.1	19.2	19.6	17.5	18.6	17.9	19.0	19.4
	12H	17.7	18.7	18.1	19.1	19.6	17.5	18.6	18.0	19.0	19.4
4H	2H	16.3	17.6	16.7	18.0	18.3	16.4	17.6	16.8	18.0	18.3
	3H	17.7	18.7	18.1	19.1	19.5	17.6	18.7	18.1	19.1	19.5
	4H	18.1	19.1	18.6	19.5	19.9	18.0	19.0	18.4	19.4	19.8
	6H	18.4	19.2	18.8	19.6	20.1	18.2	19.0	18.7	19.5	20.0
	8H	18.4	19.2	18.9	19.6	20.1	18.3	19.0	18.7	19.5	19.9
	12H	18.4	19.1	18.9	19.6	20.0	18.3	18.9	18.8	19.4	19.9
8H	4H	18.2	19.0	18.7	19.4	19.9	18.1	18.9	18.6	19.3	19.8
	6H	18.5	19.1	19.0	19.6	20.1	18.4	19.0	18.9	19.5	20.0
	8H	18.6	19.1	19.1	19.6	20.1	18.4	19.0	18.9	19.5	20.0
	12H	18.6	19.1	19.1	19.6	20.2	18.4	18.9	18.9	19.4	20.0
12H	4H	18.2	18.9	18.7	19.4	19.8	18.1	18.8	18.6	19.3	19.7
	6H	18.5	19.1	19.0	19.5	20.1	18.4	18.9	18.9	19.4	19.9
	8H	18.6	19.1	19.1	19.6	20.1	18.4	18.9	18.9	19.4	20.0

Maximum UGR = 20.2

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POLAR GRAPH



Maximum Candela = 1414.794 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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