IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-850-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-L65-850-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	6918
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	58.5
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	10394	10367	10514
55	8269	8110	8149
65	6122	5794	5787
75	4116	3531	3629
85	1338	796	1302

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3076.070	3076.070	3076.070	3076.070	3076.070
5	3068.093	3067.368	3065.193	3058.667	3058.667
10	3015.158	3023.860	3021.684	3017.333	3013.708
15	2933.216	2945.544	2944.093	2950.620	2945.544
20	2820.093	2834.596	2833.146	2861.427	2843.298
25	2662.737	2683.041	2698.994	2724.374	2696.819
30	2466.947	2503.930	2521.333	2531.485	2509.731
35	2235.626	2282.760	2291.462	2276.959	2268.982
40	1981.099	2002.129	2003.579	1994.152	2007.930
45	1691.041	1690.316	1686.690	1683.789	1710.620
50	1392.281	1371.251	1376.327	1364.725	1387.205
55	1091.345	1076.117	1070.316	1076.117	1075.392
60	816.515	800.561	799.836	810.713	808.538
65	595.345	585.193	563.439	583.743	562.713
70	400.281	398.830	362.573	395.205	363.298
75	245.099	235.673	210.292	232.047	216.094
80	110.947	108.772	89.918	99.345	105.146
85	26.830	29.006	15.953	20.304	26.105
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1121.58	N.A.	16.20
0-30	2361.33	N.A.	34.10
0-40	3779.44	N.A.	54.60
0-60	6050.25	N.A.	87.50
0-80	6878.19	N.A.	99.40
0-90	6918.29	N.A.	100.00
10-90	6627.28	N.A.	95.80
20-40	2657.86	N.A.	38.40
20-50	3960.42	N.A.	57.20
40-70	2850.91	N.A.	41.20
60-80	827.94	N.A.	12.00
70-80	247.85	N.A.	3.60
80-90	40.10	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	6918.29	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	291.01
10-20	830.57
20-30	1239.76
30-40	1418.1
40-50	1302.56
50-60	968.25
60-70	580.09
70-80	247.85
80-90	40.10
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

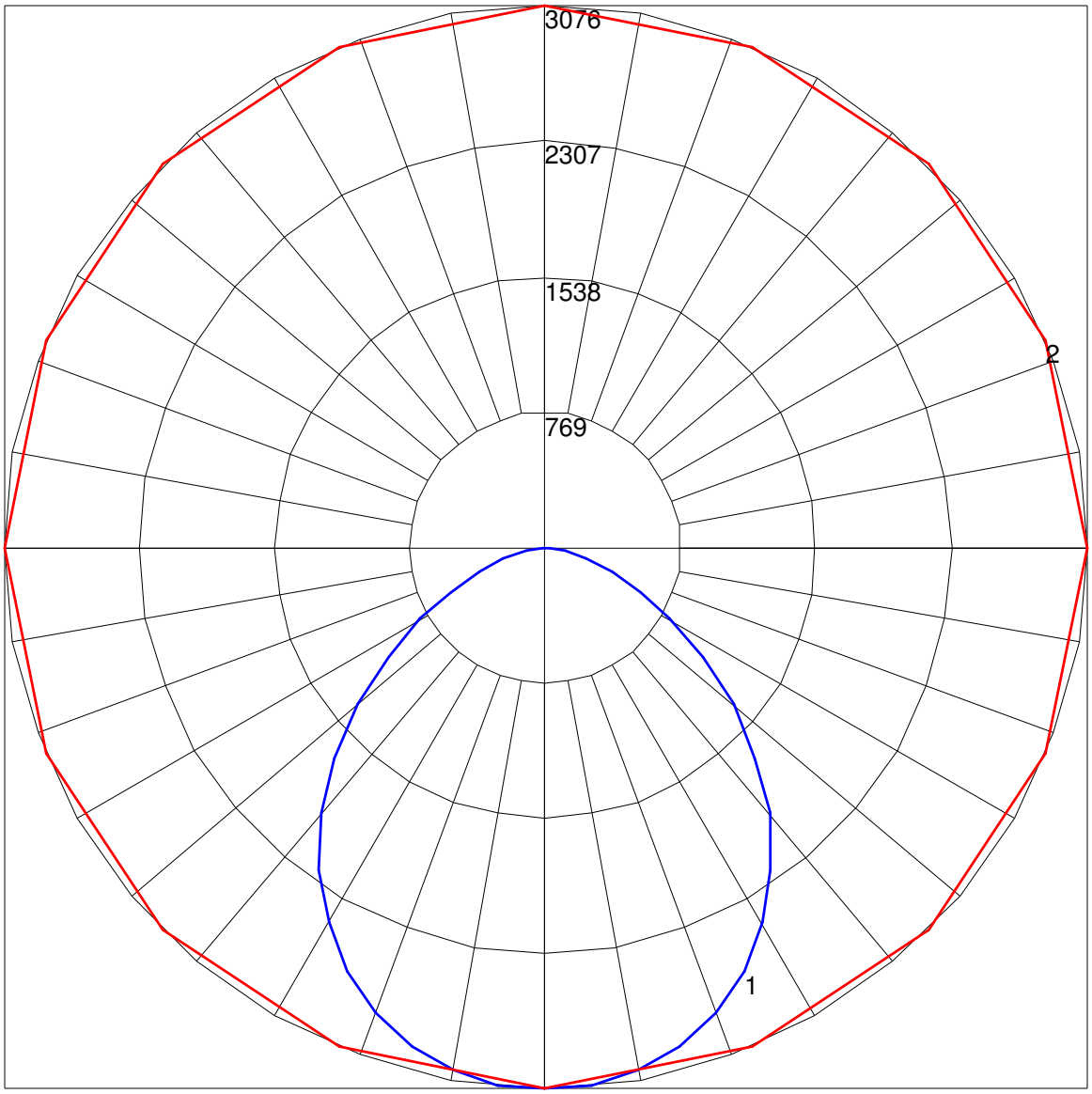
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.7	20.2	19.0	20.5	20.8	18.7	20.2	19.1	20.5	20.8
	3H	19.8	21.2	20.2	21.5	21.9	19.8	21.1	20.1	21.4	21.8
	4H	20.2	21.5	20.6	21.8	22.2	20.1	21.3	20.5	21.7	22.1
	6H	20.4	21.5	20.8	21.9	22.3	20.2	21.4	20.6	21.7	22.1
	8H	20.4	21.5	20.8	21.9	22.3	20.2	21.3	20.6	21.7	22.1
	12H	20.4	21.4	20.8	21.8	22.3	20.2	21.3	20.7	21.7	22.1
4H	2H	19.0	20.3	19.4	20.7	21.0	19.1	20.3	19.5	20.7	21.0
	3H	20.4	21.4	20.8	21.8	22.2	20.3	21.4	20.8	21.8	22.2
	4H	20.8	21.8	21.3	22.2	22.6	20.7	21.7	21.1	22.1	22.5
	6H	21.1	21.9	21.5	22.3	22.8	20.9	21.7	21.4	22.2	22.7
	8H	21.1	21.9	21.6	22.3	22.8	21.0	21.7	21.4	22.2	22.6
	12H	21.1	21.8	21.6	22.3	22.7	21.0	21.6	21.5	22.1	22.6
8H	4H	20.9	21.7	21.4	22.1	22.6	20.8	21.6	21.3	22.0	22.5
	6H	21.2	21.8	21.7	22.3	22.8	21.1	21.7	21.6	22.2	22.7
	8H	21.3	21.8	21.8	22.3	22.8	21.1	21.7	21.6	22.2	22.7
	12H	21.3	21.8	21.8	22.3	22.9	21.1	21.6	21.6	22.1	22.7
12H	4H	20.9	21.6	21.4	22.1	22.5	20.8	21.5	21.3	22.0	22.4
	6H	21.2	21.8	21.7	22.2	22.8	21.1	21.6	21.6	22.1	22.6
	8H	21.3	21.8	21.8	22.3	22.8	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 22.9

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POLAR GRAPH



Maximum Candela = 3076.07 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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