IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-850-CS-SAF12125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19835.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2026-04-29
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6-42 LED 22" ARRAYS 1x4' RECESSED WHITE REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-14-L68-850-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	7210
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	60.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.98 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6990	6953	6763
55	5779	5665	5347
65	4190	4141	3842
75	2495	2568	2546
85	545	752	773

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3141.008	3141.008	3141.008	3141.008	3141.008
5	3156.592	3136.852	3118.498	3111.226	3111.918
10	3109.494	3088.023	3075.902	3067.937	3069.322
15	3032.960	3013.221	3007.680	2990.711	2999.368
20	2922.142	2906.212	2906.904	2883.009	2893.052
25	2770.805	2761.455	2756.607	2732.712	2745.871
30	2589.340	2584.492	2568.216	2537.741	2552.632
35	2363.202	2368.050	2337.921	2289.438	2317.143
40	2093.775	2116.977	2068.494	2014.470	2047.716
45	1802.876	1829.196	1793.180	1727.728	1744.350
50	1507.822	1494.316	1498.818	1426.094	1424.016
55	1208.959	1179.869	1185.064	1117.880	1118.573
60	912.866	892.434	886.893	825.943	836.679
65	645.863	633.050	638.245	591.839	592.186
70	422.495	410.028	424.919	406.219	396.868
75	235.489	233.065	242.415	251.073	240.337
80	99.737	96.273	109.087	124.671	111.511
85	17.315	19.393	23.895	35.323	24.588
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1144.89	N.A.	15.90
0-30	2410.75	N.A.	33.40
0-40	3866.57	N.A.	53.60
0-60	6278.43	N.A.	87.10
0-80	7166.97	N.A.	99.40
0-90	7210.14	N.A.	100.00
10-90	6913.24	N.A.	95.90
20-40	2721.69	N.A.	37.70
20-50	4091.44	N.A.	56.70
40-70	3035.84	N.A.	42.10
60-80	888.54	N.A.	12.30
70-80	264.56	N.A.	3.70
80-90	43.17	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	7210.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	296.90
10-20	847.98
20-30	1265.87
30-40	1455.82
40-50	1369.76
50-60	1042.1
60-70	623.98
70-80	264.56
80-90	43.17
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	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

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UGR TABLE - CORRECTED

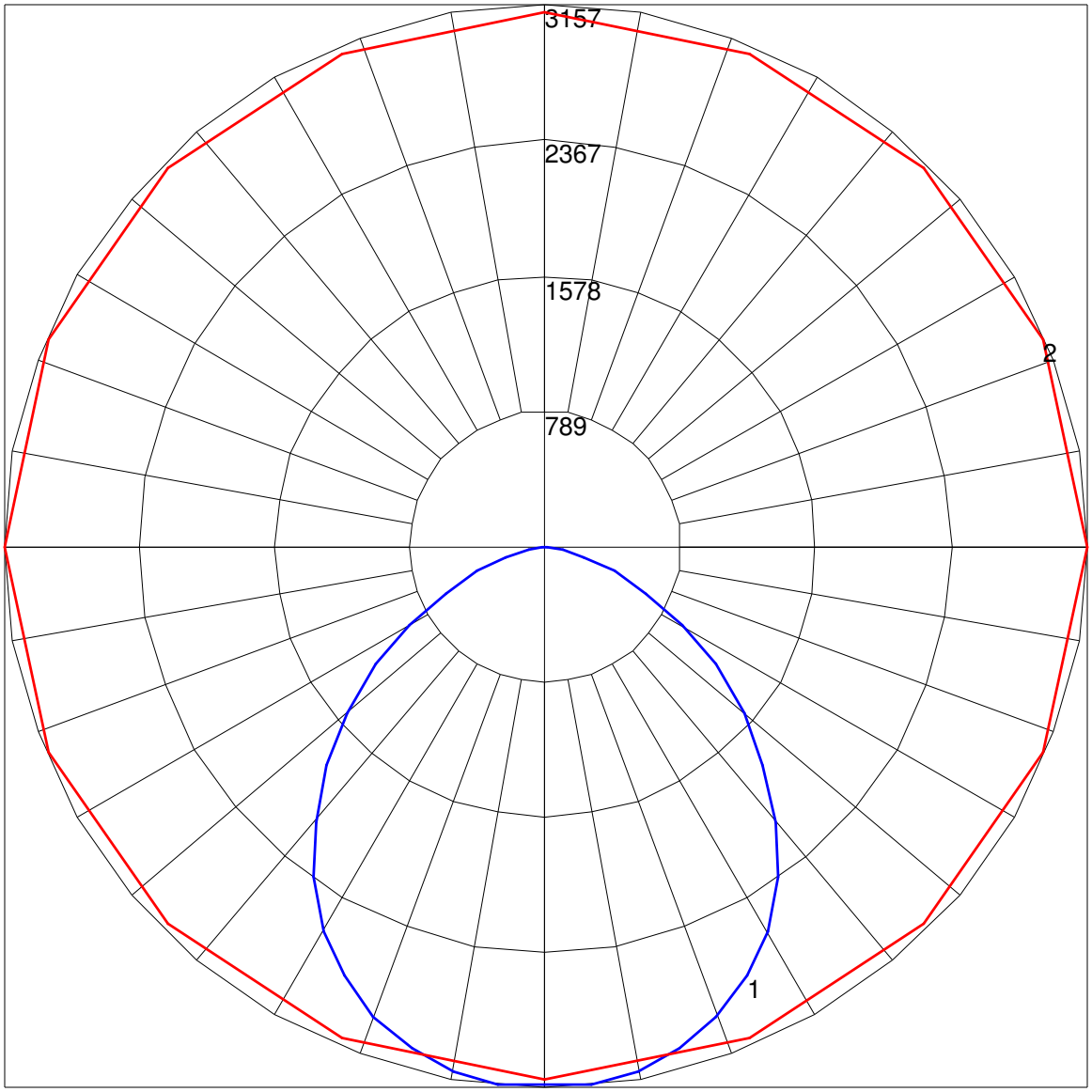
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.7	19.2	18.0	19.5	19.8	17.2	18.7	17.6	19.0	19.3
	3H	18.7	20.1	19.1	20.4	20.8	18.3	19.7	18.7	20.0	20.4
	4H	19.0	20.3	19.4	20.6	21.0	18.6	19.9	19.0	20.3	20.6
	6H	19.1	20.3	19.5	20.7	21.1	18.8	20.0	19.2	20.4	20.7
	8H	19.1	20.3	19.6	20.6	21.0	18.8	20.0	19.3	20.3	20.7
	12H	19.1	20.2	19.5	20.6	21.0	18.8	19.9	19.3	20.3	20.7
4H	2H	18.1	19.3	18.5	19.7	20.1	17.7	18.9	18.1	19.3	19.7
	3H	19.3	20.4	19.7	20.8	21.2	19.0	20.0	19.4	20.4	20.8
	4H	19.7	20.6	20.1	21.0	21.5	19.4	20.3	19.8	20.8	21.2
	6H	19.8	20.7	20.3	21.1	21.6	19.7	20.5	20.1	20.9	21.4
	8H	19.8	20.6	20.3	21.0	21.5	19.7	20.5	20.1	20.9	21.4
	12H	19.8	20.5	20.3	21.0	21.5	19.7	20.4	20.2	20.9	21.3
8H	4H	19.8	20.5	20.2	21.0	21.4	19.5	20.3	20.0	20.7	21.2
	6H	20.0	20.6	20.5	21.1	21.6	19.8	20.5	20.3	21.0	21.4
	8H	20.0	20.6	20.5	21.1	21.6	19.9	20.5	20.4	21.0	21.5
	12H	20.0	20.5	20.5	21.0	21.6	19.9	20.4	20.5	20.9	21.5
12H	4H	19.8	20.4	20.2	20.9	21.4	19.5	20.2	20.0	20.7	21.1
	6H	20.0	20.5	20.5	21.0	21.5	19.8	20.4	20.4	20.9	21.4
	8H	20.0	20.5	20.5	21.0	21.6	19.9	20.4	20.4	20.9	21.5

Maximum UGR = 21.6

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POLAR GRAPH



Maximum Candela = 3156.592 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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