IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-840-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-L68-840-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	7006
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	6793	6756	6572
55	5615	5504	5195
65	4071	4023	3733
75	2424	2495	2474
85	529	730	752

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3052.111	3052.111	3052.111	3052.111	3052.111
5	3067.254	3048.073	3030.238	3023.172	3023.845
10	3021.489	3000.626	2988.848	2981.108	2982.454
15	2947.121	2927.940	2922.556	2906.067	2914.480
20	2839.439	2823.960	2824.633	2801.414	2811.173
25	2692.386	2683.300	2678.589	2655.370	2668.158
30	2516.057	2511.346	2495.530	2465.917	2480.387
35	2296.318	2301.029	2271.753	2224.642	2251.563
40	2034.516	2057.062	2009.951	1957.456	1989.761
45	1751.851	1777.426	1742.429	1678.829	1694.982
50	1465.148	1452.024	1456.399	1385.732	1383.713
55	1174.743	1146.477	1151.524	1086.242	1086.915
60	887.030	867.176	861.792	802.567	812.999
65	627.584	615.133	620.181	575.089	575.426
70	410.538	398.423	412.893	394.722	385.636
75	228.824	226.469	235.554	243.967	233.535
80	96.914	93.549	105.999	121.142	108.355
85	16.825	18.844	23.219	34.324	23.892
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1112.48	N.A.	15.90
0-30	2342.53	N.A.	33.40
0-40	3757.14	N.A.	53.60
0-60	6100.74	N.A.	87.10
0-80	6964.13	N.A.	99.40
0-90	7006.08	N.A.	100.00
10-90	6717.58	N.A.	95.90
20-40	2644.66	N.A.	37.70
20-50	3975.65	N.A.	56.70
40-70	2949.92	N.A.	42.10
60-80	863.39	N.A.	12.30
70-80	257.07	N.A.	3.70
80-90	41.95	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	7006.08	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	288.50
10-20	823.98
20-30	1230.04
30-40	1414.61
40-50	1330.99
50-60	1012.61
60-70	606.32
70-80	257.07
80-90	41.95
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

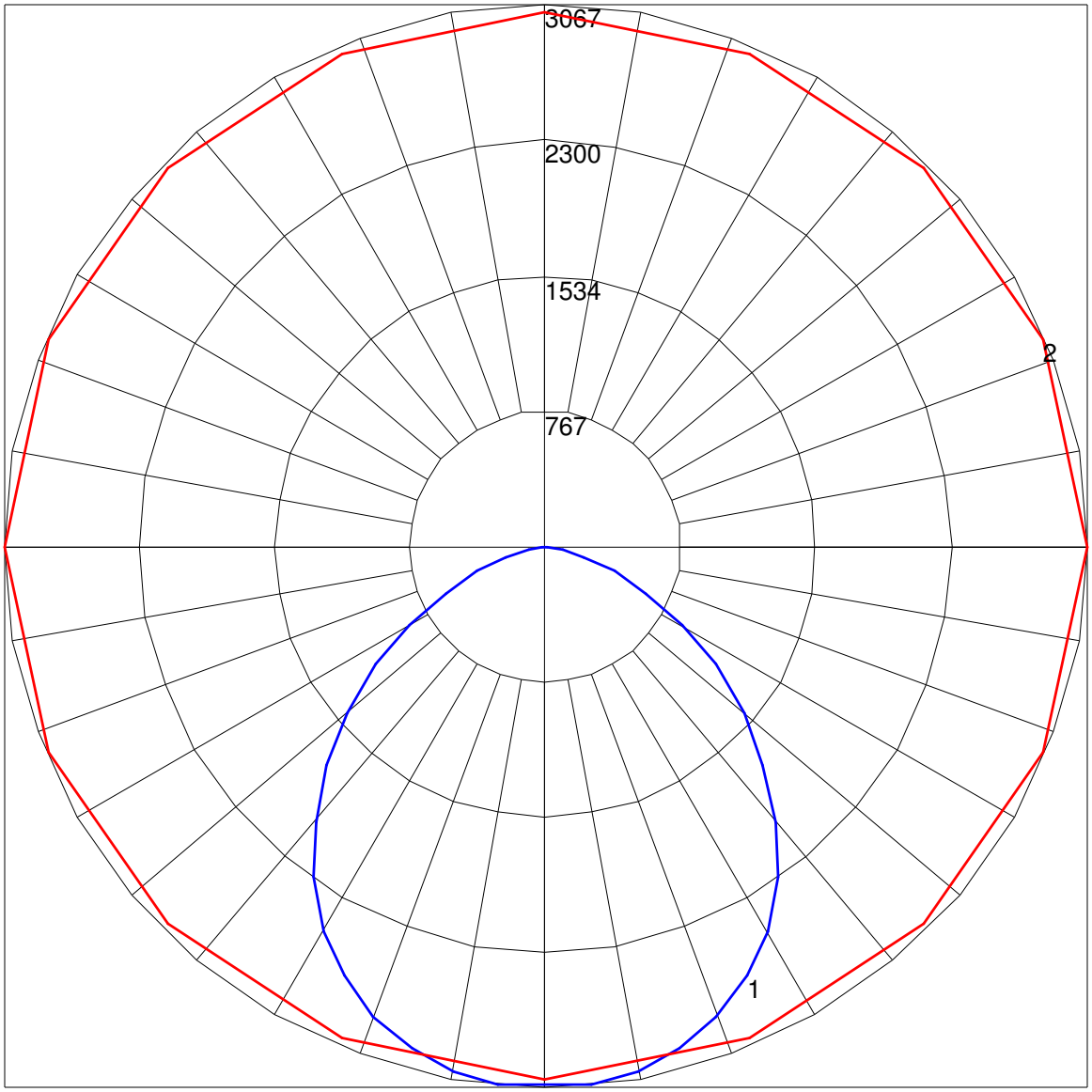
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.6	19.1	17.9	19.4	19.7	17.1	18.6	17.5	18.9	19.2
	3H	18.6	20.0	19.0	20.3	20.7	18.2	19.6	18.6	19.9	20.3
	4H	18.9	20.2	19.3	20.5	20.9	18.5	19.8	18.9	20.2	20.5
	6H	19.0	20.2	19.4	20.6	21.0	18.7	19.9	19.1	20.3	20.6
	8H	19.0	20.2	19.5	20.5	20.9	18.7	19.9	19.2	20.2	20.6
	12H	19.0	20.1	19.4	20.5	20.9	18.7	19.8	19.2	20.2	20.6
4H	2H	18.0	19.2	18.4	19.6	20.0	17.6	18.8	18.0	19.2	19.6
	3H	19.2	20.3	19.6	20.7	21.1	18.9	19.9	19.3	20.3	20.7
	4H	19.6	20.5	20.0	20.9	21.4	19.3	20.2	19.7	20.7	21.1
	6H	19.7	20.6	20.2	21.0	21.5	19.6	20.4	20.0	20.8	21.3
	8H	19.7	20.5	20.2	20.9	21.4	19.6	20.4	20.0	20.8	21.3
	12H	19.7	20.4	20.2	20.9	21.4	19.6	20.3	20.1	20.8	21.2
8H	4H	19.7	20.4	20.1	20.9	21.3	19.4	20.2	19.9	20.6	21.1
	6H	19.9	20.5	20.4	21.0	21.5	19.7	20.4	20.2	20.9	21.3
	8H	19.9	20.5	20.4	21.0	21.5	19.8	20.4	20.3	20.9	21.4
	12H	19.9	20.4	20.4	20.9	21.5	19.8	20.3	20.4	20.8	21.4
12H	4H	19.7	20.3	20.1	20.8	21.3	19.4	20.1	19.9	20.6	21.0
	6H	19.9	20.4	20.4	20.9	21.4	19.7	20.3	20.3	20.8	21.3
	8H	19.9	20.4	20.4	20.9	21.5	19.8	20.3	20.3	20.8	21.4

Maximum UGR = 21.5

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POLAR GRAPH



Maximum Candela = 3067.254 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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