IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-835-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-L68-835-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	6802
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	6595	6559	6381
55	5452	5344	5044
65	3953	3906	3624
75	2353	2423	2402
85	514	709	730

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2963.215	2963.215	2963.215	2963.215	2963.215
5	2977.917	2959.295	2941.979	2935.119	2935.772
10	2933.485	2913.229	2901.795	2894.280	2895.587
15	2861.283	2842.661	2837.434	2821.425	2829.593
20	2756.738	2741.709	2742.363	2719.820	2729.294
25	2613.967	2605.146	2600.573	2578.030	2590.445
30	2442.774	2438.200	2422.845	2394.095	2408.143
35	2229.436	2234.009	2205.586	2159.847	2185.984
40	1975.259	1997.148	1951.410	1900.444	1931.807
45	1700.827	1725.656	1691.679	1629.932	1645.614
50	1422.474	1409.732	1413.980	1345.372	1343.411
55	1140.527	1113.084	1117.985	1054.604	1055.257
60	861.195	841.919	836.692	779.192	789.320
65	609.305	597.217	602.117	558.339	558.666
70	398.580	386.819	400.867	383.225	374.404
75	222.159	219.873	228.694	236.861	226.733
80	94.091	90.824	102.912	117.614	105.199
85	16.335	18.295	22.543	33.324	23.196
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1080.08	N.A.	15.90
0-30	2274.3	N.A.	33.40
0-40	3647.71	N.A.	53.60
0-60	5923.05	N.A.	87.10
0-80	6761.29	N.A.	99.40
0-90	6802.02	N.A.	100.00
10-90	6521.92	N.A.	95.90
20-40	2567.63	N.A.	37.70
20-50	3859.85	N.A.	56.70
40-70	2864.00	N.A.	42.10
60-80	838.25	N.A.	12.30
70-80	249.58	N.A.	3.70
80-90	40.73	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	6802.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	280.10
10-20	799.99
20-30	1194.22
30-40	1373.41
40-50	1292.22
50-60	983.11
60-70	588.66
70-80	249.58
80-90	40.73
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

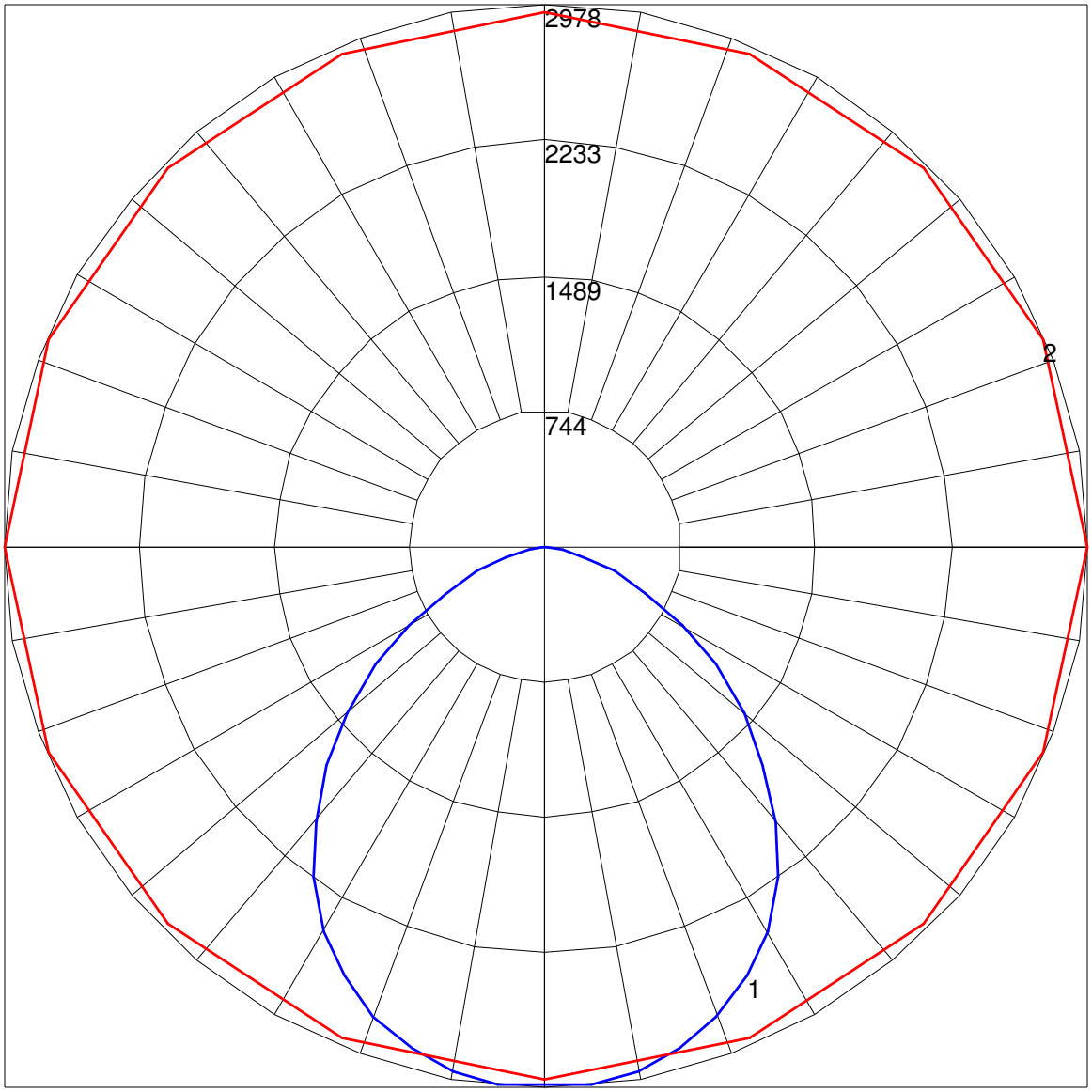
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.5	19.0	17.8	19.3	19.6	17.0	18.5	17.4	18.8	19.1
	3H	18.5	19.9	18.9	20.2	20.6	18.1	19.5	18.5	19.8	20.2
	4H	18.8	20.1	19.2	20.4	20.8	18.4	19.7	18.8	20.1	20.4
	6H	18.9	20.1	19.3	20.5	20.9	18.6	19.8	19.0	20.2	20.5
	8H	18.9	20.1	19.4	20.4	20.8	18.6	19.8	19.1	20.1	20.5
	12H	18.9	20.0	19.3	20.4	20.8	18.6	19.7	19.1	20.1	20.5
4H	2H	17.9	19.1	18.3	19.5	19.9	17.5	18.7	17.9	19.1	19.5
	3H	19.1	20.2	19.5	20.6	21.0	18.8	19.8	19.2	20.2	20.6
	4H	19.5	20.4	19.9	20.8	21.3	19.2	20.1	19.6	20.6	21.0
	6H	19.6	20.5	20.1	20.9	21.4	19.5	20.3	19.9	20.7	21.2
	8H	19.6	20.4	20.1	20.8	21.3	19.5	20.3	19.9	20.7	21.2
	12H	19.6	20.3	20.1	20.8	21.3	19.5	20.2	20.0	20.7	21.1
8H	4H	19.6	20.3	20.0	20.8	21.2	19.3	20.1	19.8	20.5	21.0
	6H	19.8	20.4	20.3	20.9	21.4	19.6	20.3	20.1	20.8	21.2
	8H	19.8	20.4	20.3	20.9	21.4	19.7	20.3	20.2	20.8	21.3
	12H	19.8	20.3	20.3	20.8	21.4	19.7	20.2	20.3	20.7	21.3
12H	4H	19.6	20.2	20.0	20.7	21.2	19.3	20.0	19.8	20.5	20.9
	6H	19.8	20.3	20.3	20.8	21.3	19.6	20.2	20.2	20.7	21.2
	8H	19.8	20.3	20.3	20.8	21.4	19.7	20.2	20.2	20.7	21.3

Maximum UGR = 21.4

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POLAR GRAPH



Maximum Candela = 2977.917 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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