IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-935-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-L68-935-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	5714
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	5540	5510	5360
55	4579	4489	4237
65	3320	3281	3044
75	1977	2035	2018
85	432	596	613

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2489.101	2489.101	2489.101	2489.101	2489.101
5	2501.450	2485.808	2471.263	2465.500	2466.049
10	2464.128	2447.113	2437.508	2431.196	2432.293
15	2403.478	2387.835	2383.445	2369.997	2376.858
20	2315.660	2303.036	2303.585	2284.649	2292.607
25	2195.733	2188.323	2184.481	2165.545	2175.974
30	2051.930	2048.088	2035.190	2011.040	2022.840
35	1872.726	1876.568	1852.692	1814.272	1836.227
40	1659.218	1677.605	1639.184	1596.373	1622.718
45	1428.695	1449.551	1421.010	1369.143	1382.316
50	1194.878	1184.175	1187.743	1130.112	1128.466
55	958.043	934.991	939.107	885.867	886.416
60	723.404	707.212	702.821	654.521	663.028
65	511.816	501.662	505.779	469.005	469.279
70	334.807	324.928	336.728	321.909	314.499
75	186.614	184.693	192.103	198.963	190.456
80	79.037	76.292	86.446	98.796	88.367
85	13.722	15.368	18.936	27.992	19.485
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	907.27	N.A.	15.90
0-30	1910.41	N.A.	33.40
0-40	3064.08	N.A.	53.60
0-60	4975.36	N.A.	87.10
0-80	5679.48	N.A.	99.40
0-90	5713.7	N.A.	100.00
10-90	5478.42	N.A.	95.90
20-40	2156.81	N.A.	37.70
20-50	3242.28	N.A.	56.70
40-70	2405.76	N.A.	42.10
60-80	704.13	N.A.	12.30
70-80	209.65	N.A.	3.70
80-90	34.21	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	5713.7	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	235.28
10-20	671.99
20-30	1003.14
30-40	1153.67
40-50	1085.47
50-60	825.81
60-70	494.48
70-80	209.65
80-90	34.21
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

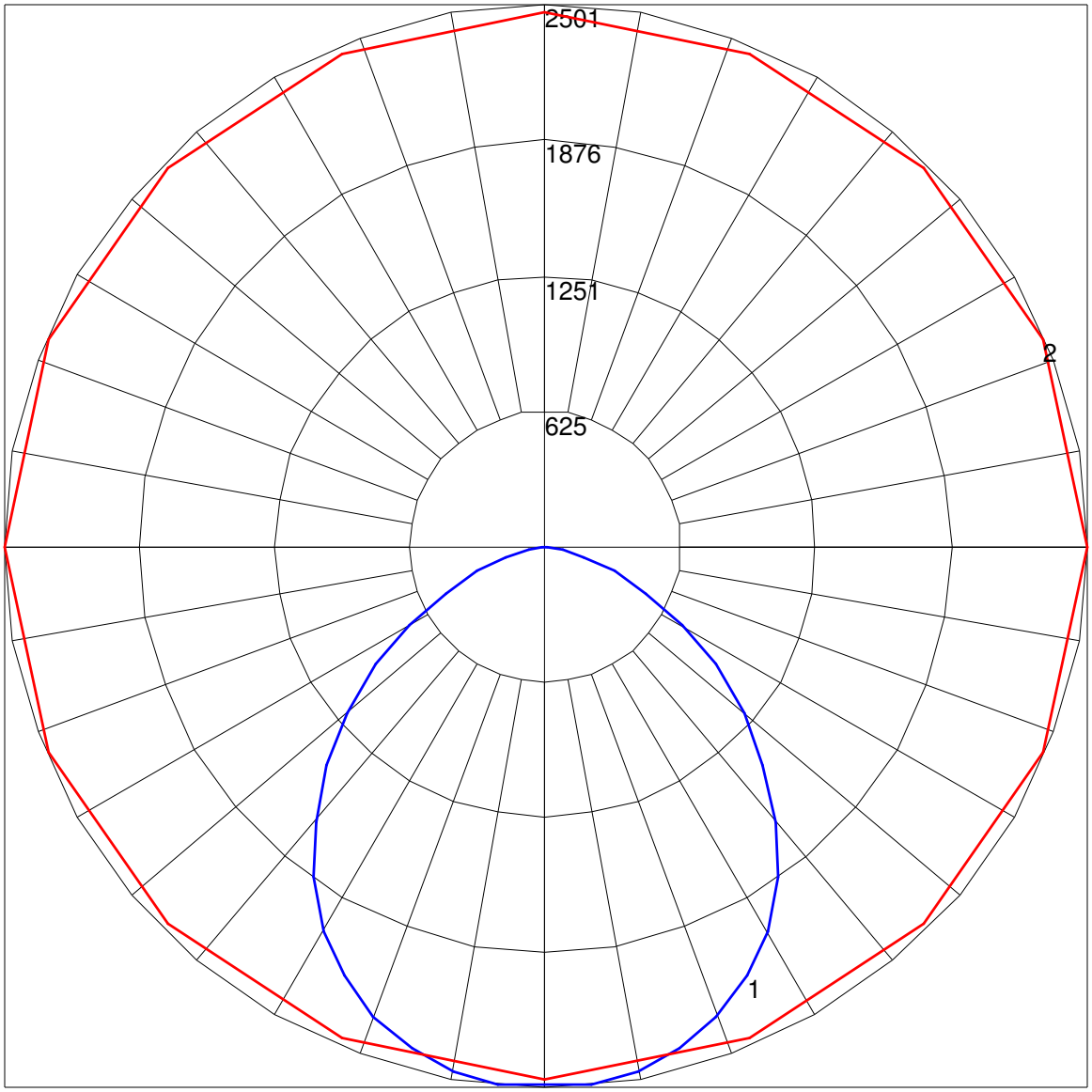
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.9	18.4	17.2	18.7	19.0	16.4	17.9	16.8	18.2	18.5
	3H	17.9	19.3	18.3	19.6	20.0	17.5	18.9	17.9	19.2	19.6
	4H	18.2	19.5	18.6	19.8	20.2	17.8	19.1	18.2	19.5	19.8
	6H	18.3	19.5	18.7	19.9	20.3	18.0	19.2	18.4	19.6	19.9
	8H	18.3	19.5	18.8	19.8	20.2	18.0	19.2	18.5	19.5	19.9
	12H	18.3	19.4	18.7	19.8	20.2	18.0	19.1	18.5	19.5	19.9
4H	2H	17.3	18.5	17.7	18.9	19.3	16.9	18.1	17.3	18.5	18.9
	3H	18.5	19.6	18.9	20.0	20.4	18.2	19.2	18.6	19.6	20.0
	4H	18.9	19.8	19.3	20.2	20.7	18.6	19.5	19.0	20.0	20.4
	6H	19.0	19.9	19.5	20.3	20.8	18.9	19.7	19.3	20.1	20.6
	8H	19.0	19.8	19.5	20.2	20.7	18.9	19.7	19.3	20.1	20.6
	12H	19.0	19.7	19.5	20.2	20.7	18.9	19.6	19.4	20.1	20.5
8H	4H	19.0	19.7	19.4	20.2	20.6	18.7	19.5	19.2	19.9	20.4
	6H	19.2	19.8	19.7	20.3	20.8	19.0	19.7	19.5	20.2	20.6
	8H	19.2	19.8	19.7	20.3	20.8	19.1	19.7	19.6	20.2	20.7
	12H	19.2	19.7	19.7	20.2	20.8	19.1	19.6	19.7	20.1	20.7
12H	4H	19.0	19.6	19.4	20.1	20.6	18.7	19.4	19.2	19.9	20.3
	6H	19.2	19.7	19.7	20.2	20.7	19.0	19.6	19.6	20.1	20.6
	8H	19.2	19.7	19.7	20.2	20.8	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 20.8

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POLAR GRAPH



Maximum Candela = 2501.45 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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