IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-840-CS-SAF125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] GEN from Photopia 2017.0.4 see: www.ltioptics.com/ies
[ISSUEDATE] 2026-04-29
[TESTDATE] Wed Jan 24 15:50:54 2018
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] MCTVG-14-L68-840-CS-SAF125-PC250-DIM-UNV_
[LUMINAIRE] 1x4 LED VANDAL RESISTANT CLEANROOM LUMINAIRE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7034
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)	1.12
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.16
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.98 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.38 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6241	4603	4044
55	5075	3399	2862
65	3804	2271	1877
75	2482	1250	1049
85	1272	469	415

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3533.002	3533.002	3533.002	3533.002	3533.002
10	3393.670	3391.396	3376.098	3338.039	3342.968
20	3049.277	3023.175	2983.930	2946.415	2900.892
30	2586.594	2557.065	2459.557	2385.299	2344.302
40	2046.793	2007.471	1870.805	1769.509	1730.515
50	1475.133	1421.526	1301.321	1196.664	1150.216
60	933.667	894.607	803.245	726.387	698.762
70	475.674	454.022	401.013	366.958	352.857
80	157.481	142.172	130.781	124.960	126.668
90	10.445	12.284	13.676	14.220	14.710
100	2.862	4.080	4.733	4.711	4.156
110	1.404	2.002	2.154	2.372	2.437
120	0.598	0.718	0.860	1.088	1.034
130	0.925	0.544	0.566	0.696	0.588
140	0.544	0.511	0.609	0.653	0.707
150	0.849	0.631	0.696	0.588	0.457
160	0.403	0.522	0.490	0.598	0.620
170	0.272	0.435	0.685	0.751	0.653
180	0.827	0.827	0.827	0.827	0.827

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1229.49	N.A.	17.50
0-30	2490.56	N.A.	35.40
0-40	3857.19	N.A.	54.80
0-60	6043.43	N.A.	85.90
0-80	6936.3	N.A.	98.60
0-90	7017.15	N.A.	99.80
10-90	6687.75	N.A.	95.10
20-40	2627.71	N.A.	37.40
20-50	3863.78	N.A.	54.90
40-70	2791.33	N.A.	39.70
60-80	892.87	N.A.	12.70
70-80	287.78	N.A.	4.10
80-90	80.84	N.A.	1.10
90-110	12.89	N.A.	0.20
90-120	14.37	N.A.	0.20
90-130	15.05	N.A.	0.20
90-150	15.92	N.A.	0.20
90-180	16.41	N.A.	0.20
110-180	3.52	N.A.	0.10
0-180	7033.56	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	329.39
10-20	900.09
20-30	1261.07
30-40	1366.63
40-50	1236.08
50-60	950.17
60-70	605.09
70-80	287.78
80-90	80.84
90-100	9.52
100-110	3.37
110-120	1.48
120-130	0.68
130-140	0.48
140-150	0.39
150-160	0.27
160-170	0.16
170-180	0.07

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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	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	76	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	37	32	43	36	32	42	36	31	41	35	31	30

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UGR TABLE - CORRECTED

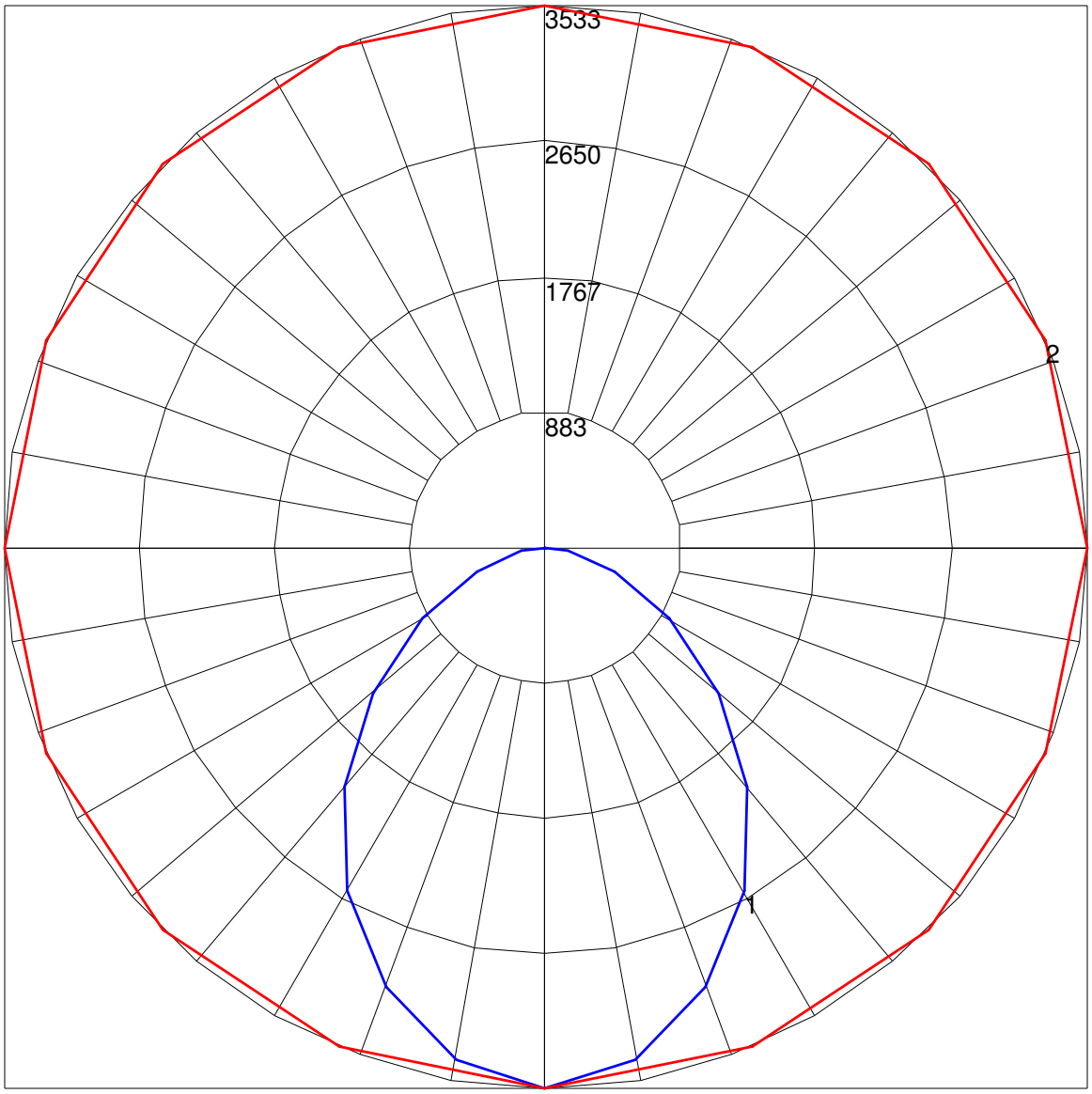
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.1	17.6	16.4	17.9	18.2	15.3	16.8	15.7	17.1	17.4
	3H	17.1	18.5	17.5	18.8	19.2	16.4	17.8	16.8	18.1	18.5
	4H	17.5	18.7	17.9	19.1	19.4	16.8	18.1	17.2	18.4	18.8
	6H	17.6	18.8	18.0	19.1	19.5	17.0	18.2	17.4	18.5	18.9
	8H	17.6	18.7	18.0	19.1	19.5	17.1	18.2	17.5	18.6	19.0
	12H	17.6	18.7	18.1	19.1	19.5	17.1	18.2	17.5	18.5	19.0
4H	2H	16.4	17.6	16.8	18.0	18.4	15.7	17.0	16.1	17.3	17.7
	3H	17.6	18.7	18.0	19.1	19.5	17.0	18.0	17.4	18.4	18.8
	4H	18.0	19.0	18.4	19.4	19.8	17.4	18.4	17.9	18.8	19.2
	6H	18.2	19.0	18.7	19.5	19.9	17.7	18.5	18.2	19.0	19.4
	8H	18.2	19.0	18.7	19.5	19.9	17.8	18.6	18.2	19.0	19.5
	12H	18.3	19.0	18.8	19.4	19.9	17.9	18.5	18.3	19.0	19.5
8H	4H	18.1	18.8	18.5	19.3	19.8	17.5	18.3	18.0	18.8	19.2
	6H	18.3	19.0	18.8	19.4	19.9	17.9	18.5	18.4	19.0	19.5
	8H	18.4	19.0	18.9	19.5	20.0	18.0	18.5	18.5	19.1	19.5
	12H	18.5	18.9	19.0	19.4	20.0	18.1	18.6	18.6	19.1	19.6
12H	4H	18.1	18.8	18.6	19.2	19.7	17.5	18.2	18.0	18.7	19.2
	6H	18.3	18.9	18.8	19.3	19.9	17.9	18.4	18.4	18.9	19.4
	8H	18.4	18.9	18.9	19.4	20.0	18.0	18.5	18.5	19.0	19.6

Maximum UGR = 20.0

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POLAR GRAPH



Maximum Candela = 3533.002 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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