IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-850-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-L68-850-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	7238
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	6422	4737	4162
55	5223	3498	2945
65	3915	2337	1932
75	2554	1286	1079
85	1309	483	427

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3635.905	3635.905	3635.905	3635.905	3635.905
10	3492.514	3490.174	3474.431	3435.263	3440.335
20	3138.091	3111.229	3070.841	3032.233	2985.384
30	2661.932	2631.543	2531.194	2454.774	2412.583
40	2106.408	2065.941	1925.294	1821.048	1780.918
50	1518.098	1462.930	1339.224	1231.519	1183.718
60	960.861	920.663	826.641	747.544	719.115
70	489.528	467.246	412.693	377.646	363.135
80	162.068	146.313	134.590	128.599	130.357
90	10.749	12.642	14.075	14.635	15.139
100	2.945	4.199	4.871	4.848	4.277
110	1.444	2.060	2.217	2.441	2.508
120	0.616	0.739	0.885	1.120	1.064
130	0.952	0.560	0.582	0.717	0.605
140	0.560	0.526	0.627	0.672	0.728
150	0.873	0.649	0.717	0.605	0.470
160	0.414	0.537	0.504	0.616	0.638
170	0.280	0.448	0.705	0.773	0.672
180	0.851	0.851	0.851	0.851	0.851

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1265.3	N.A.	17.50
0-30	2563.1	N.A.	35.40
0-40	3969.54	N.A.	54.80
0-60	6219.45	N.A.	85.90
0-80	7138.33	N.A.	98.60
0-90	7221.53	N.A.	99.80
10-90	6882.54	N.A.	95.10
20-40	2704.24	N.A.	37.40
20-50	3976.32	N.A.	54.90
40-70	2872.63	N.A.	39.70
60-80	918.88	N.A.	12.70
70-80	296.17	N.A.	4.10
80-90	83.20	N.A.	1.10
90-110	13.26	N.A.	0.20
90-120	14.79	N.A.	0.20
90-130	15.48	N.A.	0.20
90-150	16.38	N.A.	0.20
90-180	16.89	N.A.	0.20
110-180	3.63	N.A.	0.10
0-180	7238.42	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	338.99
10-20	926.31
20-30	1297.8
30-40	1406.44
40-50	1272.08
50-60	977.84
60-70	622.71
70-80	296.17
80-90	83.20
90-100	9.80
100-110	3.47
110-120	1.52
120-130	0.70
130-140	0.49
140-150	0.40
150-160	0.28
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	77	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	56	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	35	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

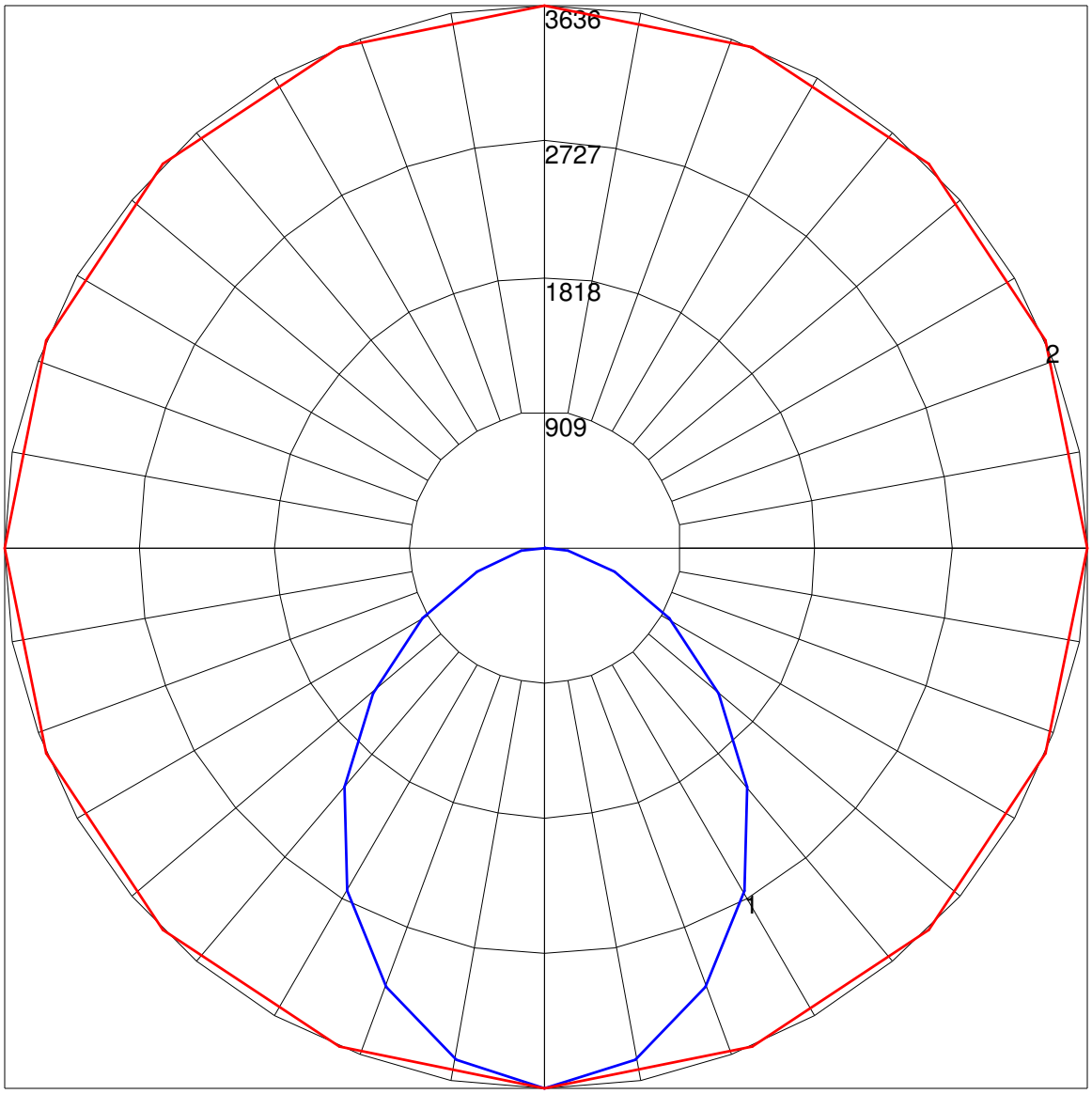
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.2	17.7	16.5	18.0	18.3	15.4	16.9	15.8	17.2	17.5
	3H	17.2	18.6	17.6	18.9	19.3	16.5	17.9	16.9	18.2	18.6
	4H	17.6	18.8	18.0	19.2	19.5	16.9	18.2	17.3	18.5	18.9
	6H	17.7	18.9	18.1	19.2	19.6	17.1	18.3	17.5	18.6	19.0
	8H	17.7	18.8	18.1	19.2	19.6	17.2	18.3	17.6	18.7	19.1
	12H	17.7	18.8	18.2	19.2	19.6	17.2	18.3	17.6	18.6	19.1
4H	2H	16.5	17.7	16.9	18.1	18.5	15.8	17.1	16.2	17.4	17.8
	3H	17.7	18.8	18.1	19.2	19.6	17.1	18.1	17.5	18.5	18.9
	4H	18.1	19.1	18.5	19.5	19.9	17.5	18.5	18.0	18.9	19.3
	6H	18.3	19.1	18.8	19.6	20.0	17.8	18.6	18.3	19.1	19.5
	8H	18.3	19.1	18.8	19.6	20.0	17.9	18.7	18.3	19.1	19.6
	12H	18.4	19.1	18.9	19.5	20.0	18.0	18.6	18.4	19.1	19.6
8H	4H	18.2	18.9	18.6	19.4	19.9	17.6	18.4	18.1	18.9	19.3
	6H	18.4	19.1	18.9	19.5	20.0	18.0	18.6	18.5	19.1	19.6
	8H	18.5	19.1	19.0	19.6	20.1	18.1	18.6	18.6	19.2	19.6
	12H	18.6	19.0	19.1	19.5	20.1	18.2	18.7	18.7	19.2	19.7
12H	4H	18.2	18.9	18.7	19.3	19.8	17.6	18.3	18.1	18.8	19.3
	6H	18.4	19.0	18.9	19.4	20.0	18.0	18.5	18.5	19.0	19.5
	8H	18.5	19.0	19.0	19.5	20.1	18.1	18.6	18.6	19.1	19.7

Maximum UGR = 20.1

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POLAR GRAPH



Maximum Candela = 3635.905 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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