IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-940-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-L68-940-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	5804
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	5150	3799	3337
55	4188	2805	2362
65	3139	1874	1549
75	2048	1031	866
85	1050	387	343

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2915.585	2915.585	2915.585	2915.585	2915.585
10	2800.602	2798.726	2786.101	2754.693	2758.761
20	2516.395	2494.854	2462.468	2431.509	2393.941
30	2134.569	2110.200	2029.732	1968.451	1934.619
40	1689.101	1656.652	1543.868	1460.275	1428.095
50	1217.344	1173.105	1073.906	987.539	949.208
60	770.502	738.268	662.873	599.446	576.649
70	392.546	374.678	330.933	302.830	291.193
80	129.960	117.327	107.926	103.122	104.532
90	8.620	10.137	11.286	11.735	12.139
100	2.361	3.367	3.906	3.888	3.430
110	1.158	1.652	1.778	1.957	2.011
120	0.494	0.593	0.709	0.898	0.853
130	0.763	0.449	0.467	0.575	0.485
140	0.449	0.422	0.503	0.539	0.584
150	0.700	0.521	0.575	0.485	0.377
160	0.332	0.431	0.404	0.494	0.512
170	0.224	0.359	0.566	0.620	0.539
180	0.682	0.682	0.682	0.682	0.682

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1014.62	N.A.	17.50
0-30	2055.32	N.A.	35.40
0-40	3183.12	N.A.	54.80
0-60	4987.3	N.A.	85.90
0-80	5724.14	N.A.	98.60
0-90	5790.85	N.A.	99.80
10-90	5519.02	N.A.	95.10
20-40	2168.5	N.A.	37.40
20-50	3188.56	N.A.	54.90
40-70	2303.53	N.A.	39.70
60-80	736.84	N.A.	12.70
70-80	237.49	N.A.	4.10
80-90	66.71	N.A.	1.10
90-110	10.64	N.A.	0.20
90-120	11.86	N.A.	0.20
90-130	12.42	N.A.	0.20
90-150	13.13	N.A.	0.20
90-180	13.54	N.A.	0.20
110-180	2.91	N.A.	0.10
0-180	5804.39	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	271.83
10-20	742.80
20-30	1040.69
30-40	1127.8
40-50	1020.06
50-60	784.12
60-70	499.34
70-80	237.49
80-90	66.71
90-100	7.85
100-110	2.78
110-120	1.22
120-130	0.56
130-140	0.40
140-150	0.32
150-160	0.22
160-170	0.13
170-180	0.06

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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

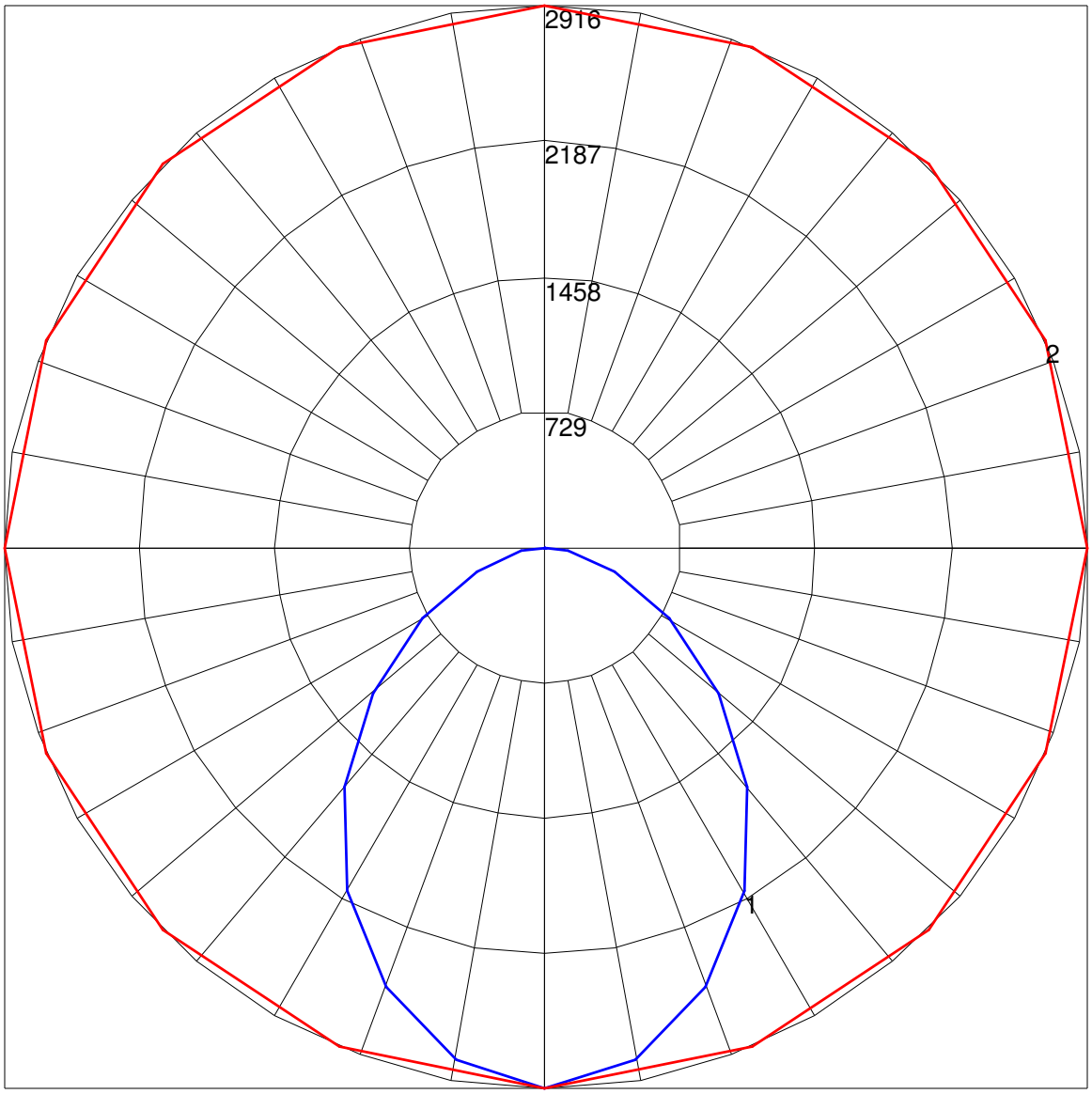
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.4	16.9	15.7	17.2	17.5	14.6	16.1	15.0	16.4	16.7
	3H	16.4	17.8	16.8	18.1	18.5	15.7	17.1	16.1	17.4	17.8
	4H	16.8	18.0	17.2	18.4	18.7	16.1	17.4	16.5	17.7	18.1
	6H	16.9	18.1	17.3	18.4	18.8	16.3	17.5	16.7	17.8	18.2
	8H	16.9	18.0	17.3	18.4	18.8	16.4	17.5	16.8	17.9	18.3
	12H	16.9	18.0	17.4	18.4	18.8	16.4	17.5	16.8	17.8	18.3
4H	2H	15.7	16.9	16.1	17.3	17.7	15.0	16.3	15.4	16.6	17.0
	3H	16.9	18.0	17.3	18.4	18.8	16.3	17.3	16.7	17.7	18.1
	4H	17.3	18.3	17.7	18.7	19.1	16.7	17.7	17.2	18.1	18.5
	6H	17.5	18.3	18.0	18.8	19.2	17.0	17.8	17.5	18.3	18.7
	8H	17.5	18.3	18.0	18.8	19.2	17.1	17.9	17.5	18.3	18.8
	12H	17.6	18.3	18.1	18.7	19.2	17.2	17.8	17.6	18.3	18.8
8H	4H	17.4	18.1	17.8	18.6	19.1	16.8	17.6	17.3	18.1	18.5
	6H	17.6	18.3	18.1	18.7	19.2	17.2	17.8	17.7	18.3	18.8
	8H	17.7	18.3	18.2	18.8	19.3	17.3	17.8	17.8	18.4	18.8
	12H	17.8	18.2	18.3	18.7	19.3	17.4	17.9	17.9	18.4	18.9
12H	4H	17.4	18.1	17.9	18.5	19.0	16.8	17.5	17.3	18.0	18.5
	6H	17.6	18.2	18.1	18.6	19.2	17.2	17.7	17.7	18.2	18.7
	8H	17.7	18.2	18.2	18.7	19.3	17.3	17.8	17.8	18.3	18.9

Maximum UGR = 19.3

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POLAR GRAPH



Maximum Candela = 2915.585 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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