IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-950-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-L31-950-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	2818
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	25.3
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	2500	1844	1620
55	2033	1362	1147
65	1524	910	752
75	994	501	420
85	510	188	166

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1415.559	1415.559	1415.559	1415.559	1415.559
10	1359.733	1358.822	1352.693	1337.444	1339.419
20	1221.746	1211.288	1195.564	1180.533	1162.293
30	1036.364	1024.533	985.465	955.712	939.286
40	820.083	804.329	749.571	708.985	693.361
50	591.038	569.559	521.397	479.465	460.854
60	374.090	358.440	321.834	291.040	279.971
70	190.587	181.912	160.673	147.028	141.379
80	63.097	56.964	52.400	50.067	50.752
90	4.185	4.922	5.480	5.698	5.894
100	1.147	1.635	1.896	1.888	1.665
110	0.562	0.802	0.863	0.950	0.976
120	0.240	0.288	0.344	0.436	0.414
130	0.371	0.218	0.227	0.279	0.235
140	0.218	0.205	0.244	0.262	0.283
150	0.340	0.253	0.279	0.235	0.183
160	0.161	0.209	0.196	0.240	0.248
170	0.109	0.174	0.275	0.301	0.262
180	0.331	0.331	0.331	0.331	0.331

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	492.62	N.A.	17.50
0-30	997.89	N.A.	35.40
0-40	1545.45	N.A.	54.80
0-60	2421.41	N.A.	85.90
0-80	2779.15	N.A.	98.60
0-90	2811.54	N.A.	99.80
10-90	2679.57	N.A.	95.10
20-40	1052.84	N.A.	37.40
20-50	1548.09	N.A.	54.90
40-70	1118.4	N.A.	39.70
60-80	357.75	N.A.	12.70
70-80	115.31	N.A.	4.10
80-90	32.39	N.A.	1.10
90-110	5.16	N.A.	0.20
90-120	5.76	N.A.	0.20
90-130	6.03	N.A.	0.20
90-150	6.38	N.A.	0.20
90-180	6.58	N.A.	0.20
110-180	1.41	N.A.	0.10
0-180	2818.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.98
10-20	360.64
20-30	505.27
30-40	547.57
40-50	495.26
50-60	380.70
60-70	242.44
70-80	115.31
80-90	32.39
90-100	3.81
100-110	1.35
110-120	0.59
120-130	0.27
130-140	0.19
140-150	0.16
150-160	0.11
160-170	0.06
170-180	0.03

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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	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	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

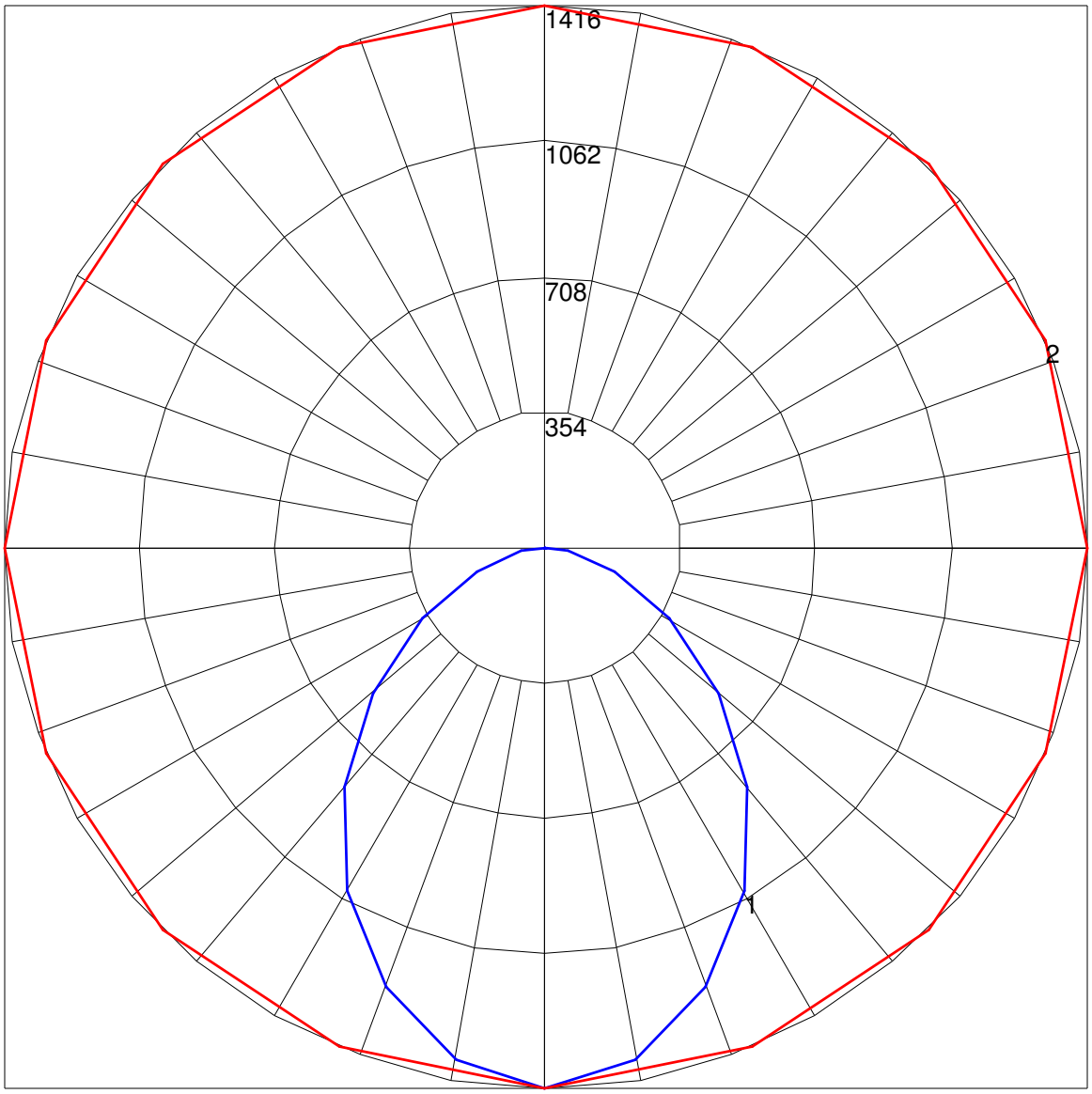
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.9	14.4	13.2	14.7	15.0	12.1	13.6	12.5	13.9	14.2
	3H	13.9	15.3	14.3	15.6	16.0	13.2	14.6	13.6	14.9	15.3
	4H	14.3	15.5	14.7	15.9	16.2	13.6	14.9	14.0	15.2	15.6
	6H	14.4	15.6	14.8	15.9	16.3	13.8	15.0	14.2	15.3	15.7
	8H	14.4	15.5	14.8	15.9	16.3	13.9	15.0	14.3	15.4	15.8
	12H	14.4	15.5	14.9	15.9	16.3	13.9	15.0	14.3	15.3	15.8
4H	2H	13.2	14.4	13.6	14.8	15.2	12.5	13.8	12.9	14.1	14.5
	3H	14.4	15.5	14.8	15.9	16.3	13.8	14.8	14.2	15.2	15.6
	4H	14.8	15.8	15.3	16.2	16.6	14.2	15.2	14.7	15.6	16.0
	6H	15.0	15.8	15.5	16.3	16.7	14.5	15.3	15.0	15.8	16.2
	8H	15.0	15.8	15.5	16.3	16.7	14.6	15.4	15.0	15.8	16.3
	12H	15.1	15.8	15.6	16.2	16.7	14.7	15.3	15.1	15.8	16.3
8H	4H	14.9	15.7	15.3	16.1	16.6	14.3	15.1	14.8	15.6	16.0
	6H	15.1	15.8	15.6	16.2	16.7	14.7	15.3	15.2	15.8	16.3
	8H	15.2	15.8	15.7	16.3	16.8	14.8	15.3	15.3	15.9	16.3
	12H	15.3	15.7	15.8	16.2	16.8	14.9	15.4	15.4	15.9	16.4
12H	4H	14.9	15.6	15.4	16.0	16.5	14.3	15.0	14.8	15.5	16.0
	6H	15.1	15.7	15.7	16.2	16.7	14.7	15.2	15.2	15.7	16.2
	8H	15.2	15.7	15.7	16.2	16.8	14.8	15.3	15.3	15.8	16.4

Maximum UGR = 16.8

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POLAR GRAPH



Maximum Candela = 1415.559 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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