IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-940-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-L31-940-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	2662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
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	2361	1742	1530
55	1920	1286	1083
65	1439	859	710
75	939	473	397
85	481	178	157

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1336.917	1336.917	1336.917	1336.917	1336.917
10	1284.193	1283.332	1277.544	1263.142	1265.007
20	1153.872	1143.995	1129.144	1114.948	1097.722
30	978.789	967.615	930.717	902.617	887.103
40	774.523	759.644	707.928	669.597	654.841
50	558.203	537.917	492.431	452.828	435.251
60	353.307	338.527	303.955	274.871	264.417
70	179.999	171.806	151.747	138.860	133.524
80	59.592	53.799	49.488	47.286	47.932
90	3.952	4.648	5.175	5.381	5.566
100	1.083	1.544	1.791	1.783	1.573
110	0.531	0.758	0.815	0.898	0.922
120	0.226	0.272	0.325	0.412	0.391
130	0.350	0.206	0.214	0.263	0.222
140	0.206	0.194	0.231	0.247	0.268
150	0.321	0.239	0.263	0.222	0.173
160	0.152	0.198	0.185	0.226	0.235
170	0.103	0.165	0.259	0.284	0.247
180	0.313	0.313	0.313	0.313	0.313

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	465.25	N.A.	17.50
0-30	942.45	N.A.	35.40
0-40	1459.59	N.A.	54.80
0-60	2286.89	N.A.	85.90
0-80	2624.76	N.A.	98.60
0-90	2655.35	N.A.	99.80
10-90	2530.7	N.A.	95.10
20-40	994.35	N.A.	37.40
20-50	1462.09	N.A.	54.90
40-70	1056.26	N.A.	39.70
60-80	337.87	N.A.	12.70
70-80	108.90	N.A.	4.10
80-90	30.59	N.A.	1.10
90-110	4.88	N.A.	0.20
90-120	5.44	N.A.	0.20
90-130	5.69	N.A.	0.20
90-150	6.02	N.A.	0.20
90-180	6.21	N.A.	0.20
110-180	1.33	N.A.	0.00
0-180	2661.56	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.64
10-20	340.60
20-30	477.20
30-40	517.14
40-50	467.74
50-60	359.55
60-70	228.97
70-80	108.90
80-90	30.59
90-100	3.60
100-110	1.28
110-120	0.56
120-130	0.26
130-140	0.18
140-150	0.15
150-160	0.10
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	88	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

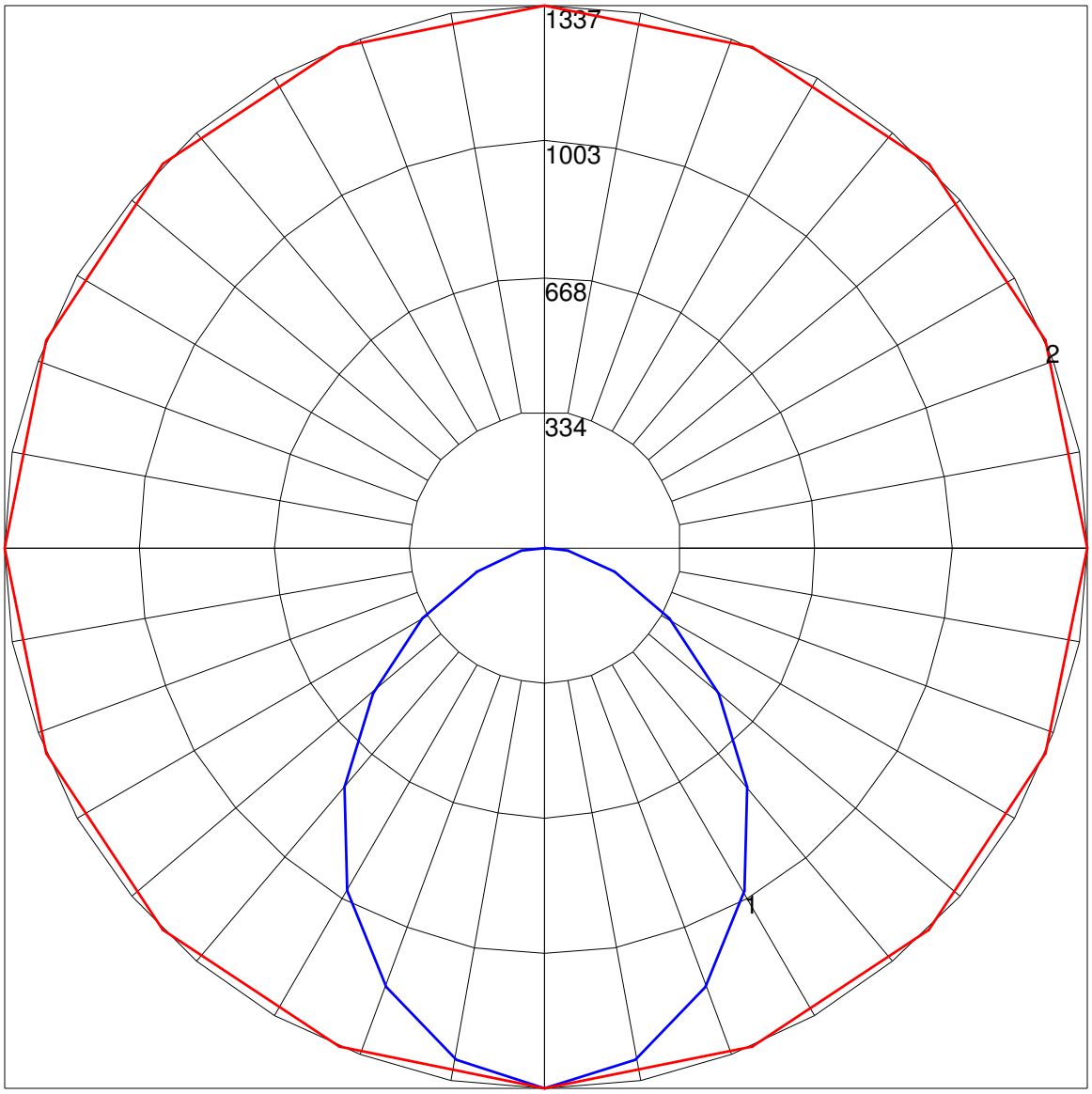
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.7	14.2	13.0	14.5	14.8	11.9	13.4	12.3	13.7	14.0
	3H	13.7	15.1	14.1	15.4	15.8	13.0	14.4	13.4	14.7	15.1
	4H	14.1	15.3	14.5	15.7	16.0	13.4	14.7	13.8	15.0	15.4
	6H	14.2	15.4	14.6	15.7	16.1	13.6	14.8	14.0	15.1	15.5
	8H	14.2	15.3	14.6	15.7	16.1	13.7	14.8	14.1	15.2	15.6
	12H	14.2	15.3	14.7	15.7	16.1	13.7	14.8	14.1	15.1	15.6
4H	2H	13.0	14.2	13.4	14.6	15.0	12.3	13.6	12.7	13.9	14.3
	3H	14.2	15.3	14.6	15.7	16.1	13.6	14.6	14.0	15.0	15.4
	4H	14.6	15.6	15.1	16.0	16.4	14.0	15.0	14.5	15.4	15.8
	6H	14.8	15.6	15.3	16.1	16.5	14.3	15.1	14.8	15.6	16.0
	8H	14.8	15.6	15.3	16.1	16.5	14.4	15.2	14.8	15.6	16.1
	12H	14.9	15.6	15.4	16.0	16.5	14.5	15.1	14.9	15.6	16.1
8H	4H	14.7	15.5	15.1	15.9	16.4	14.1	14.9	14.6	15.4	15.8
	6H	14.9	15.6	15.4	16.0	16.5	14.5	15.1	15.0	15.6	16.1
	8H	15.0	15.6	15.5	16.1	16.6	14.6	15.1	15.1	15.7	16.1
	12H	15.1	15.5	15.6	16.0	16.6	14.7	15.2	15.2	15.7	16.2
12H	4H	14.7	15.4	15.2	15.8	16.3	14.1	14.8	14.6	15.3	15.8
	6H	14.9	15.5	15.5	16.0	16.5	14.5	15.0	15.0	15.5	16.0
	8H	15.0	15.5	15.5	16.0	16.6	14.6	15.1	15.1	15.6	16.2

Maximum UGR = 16.6

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POLAR GRAPH



Maximum Candela = 1336.917 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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