IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-950-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-L68-950-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	6146
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	5453	4022	3534
55	4434	2970	2501
65	3324	1984	1640
75	2169	1092	916
85	1112	410	363

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3087.090	3087.090	3087.090	3087.090	3087.090
10	2965.343	2963.356	2949.990	2916.734	2921.041
20	2664.418	2641.610	2607.319	2574.538	2534.761
30	2260.132	2234.330	2149.128	2084.243	2048.420
40	1788.460	1754.102	1634.684	1546.174	1512.101
50	1288.952	1242.111	1137.077	1045.629	1005.044
60	815.826	781.696	701.865	634.708	610.569
70	415.637	396.718	350.400	320.643	308.322
80	137.605	124.228	114.274	109.188	110.681
90	9.127	10.733	11.950	12.426	12.853
100	2.500	3.565	4.136	4.117	3.632
110	1.226	1.749	1.882	2.073	2.130
120	0.523	0.627	0.751	0.951	0.903
130	0.808	0.475	0.494	0.608	0.513
140	0.475	0.447	0.532	0.570	0.618
150	0.742	0.551	0.608	0.513	0.399
160	0.352	0.456	0.428	0.523	0.542
170	0.238	0.380	0.599	0.656	0.570
180	0.723	0.723	0.723	0.723	0.723

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1074.31	N.A.	17.50
0-30	2176.22	N.A.	35.40
0-40	3370.36	N.A.	54.80
0-60	5280.67	N.A.	85.90
0-80	6060.85	N.A.	98.60
0-90	6131.49	N.A.	99.80
10-90	5843.67	N.A.	95.10
20-40	2296.05	N.A.	37.40
20-50	3376.12	N.A.	54.90
40-70	2439.03	N.A.	39.70
60-80	780.18	N.A.	12.70
70-80	251.46	N.A.	4.10
80-90	70.64	N.A.	1.10
90-110	11.26	N.A.	0.20
90-120	12.55	N.A.	0.20
90-130	13.15	N.A.	0.20
90-150	13.91	N.A.	0.20
90-180	14.34	N.A.	0.20
110-180	3.08	N.A.	0.10
0-180	6145.83	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	287.82
10-20	786.49
20-30	1101.91
30-40	1194.14
40-50	1080.07
50-60	830.24
60-70	528.72
70-80	251.46
80-90	70.64
90-100	8.32
100-110	2.94
110-120	1.29
120-130	0.59
130-140	0.42
140-150	0.34
150-160	0.24
160-170	0.14
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	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

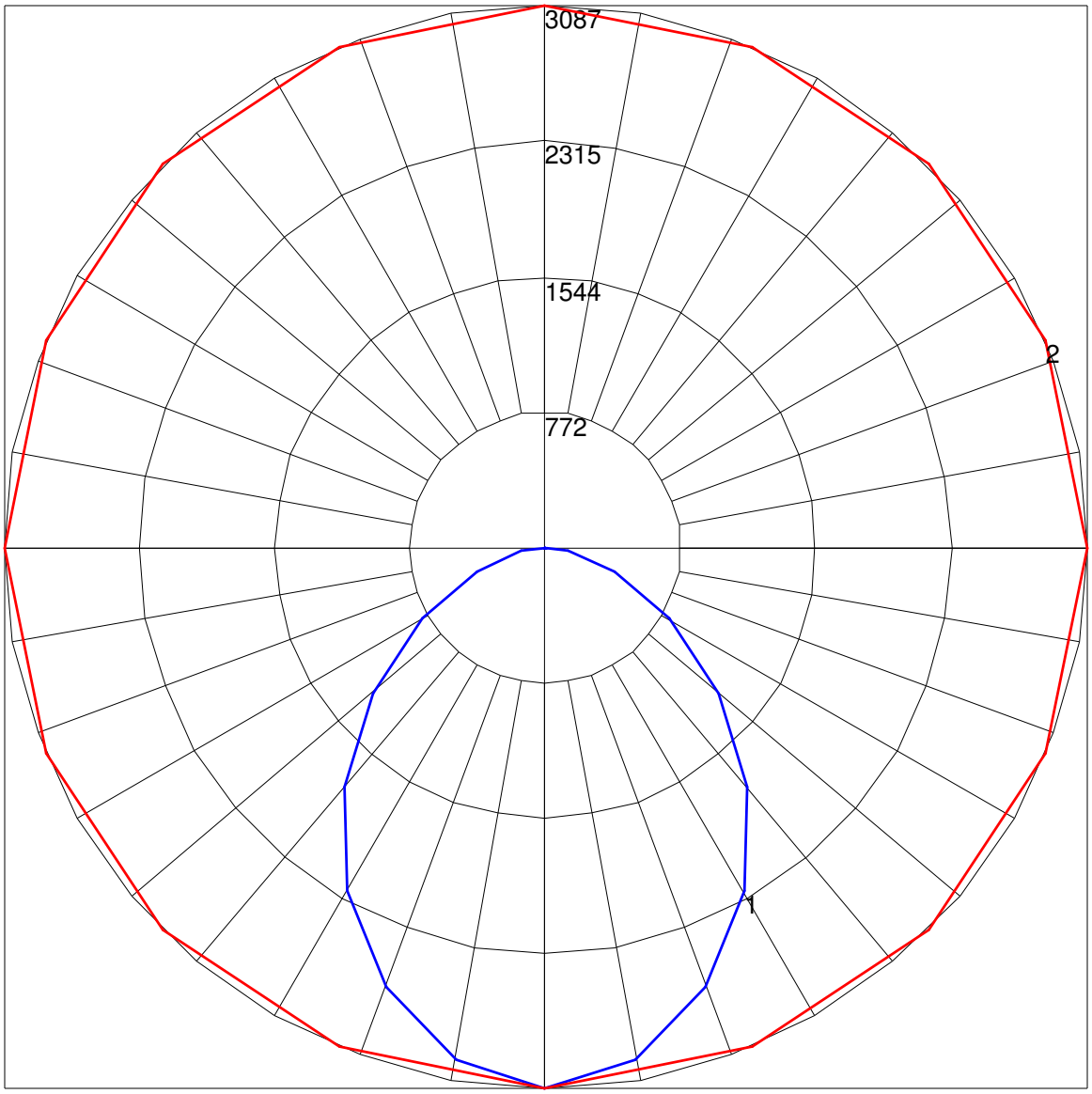
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.6	17.1	15.9	17.4	17.7	14.8	16.3	15.2	16.6	16.9
	3H	16.6	18.0	17.0	18.3	18.7	15.9	17.3	16.3	17.6	18.0
	4H	17.0	18.2	17.4	18.6	18.9	16.3	17.6	16.7	17.9	18.3
	6H	17.1	18.3	17.5	18.6	19.0	16.5	17.7	16.9	18.0	18.4
	8H	17.1	18.2	17.5	18.6	19.0	16.6	17.7	17.0	18.1	18.5
	12H	17.1	18.2	17.6	18.6	19.0	16.6	17.7	17.0	18.0	18.5
4H	2H	15.9	17.1	16.3	17.5	17.9	15.2	16.5	15.6	16.8	17.2
	3H	17.1	18.2	17.5	18.6	19.0	16.5	17.5	16.9	17.9	18.3
	4H	17.5	18.5	17.9	18.9	19.3	16.9	17.9	17.4	18.3	18.7
	6H	17.7	18.5	18.2	19.0	19.4	17.2	18.0	17.7	18.5	18.9
	8H	17.7	18.5	18.2	19.0	19.4	17.3	18.1	17.7	18.5	19.0
	12H	17.8	18.5	18.3	18.9	19.4	17.4	18.0	17.8	18.5	19.0
8H	4H	17.6	18.3	18.0	18.8	19.3	17.0	17.8	17.5	18.3	18.7
	6H	17.8	18.5	18.3	18.9	19.4	17.4	18.0	17.9	18.5	19.0
	8H	17.9	18.5	18.4	19.0	19.5	17.5	18.0	18.0	18.6	19.0
	12H	18.0	18.4	18.5	18.9	19.5	17.6	18.1	18.1	18.6	19.1
12H	4H	17.6	18.3	18.1	18.7	19.2	17.0	17.7	17.5	18.2	18.7
	6H	17.8	18.4	18.3	18.8	19.4	17.4	17.9	17.9	18.4	18.9
	8H	17.9	18.4	18.4	18.9	19.5	17.5	18.0	18.0	18.5	19.1

Maximum UGR = 19.5

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POLAR GRAPH



Maximum Candela = 3087.09 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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