IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-930-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-L68-930-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	5668
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	5029	3710	3259
55	4089	2739	2306
65	3065	1830	1513
75	2000	1007	845
85	1025	378	335

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2846.983	2846.983	2846.983	2846.983	2846.983
10	2734.706	2732.873	2720.546	2689.877	2693.849
20	2457.185	2436.152	2404.527	2374.296	2337.613
30	2084.344	2060.549	1981.973	1922.135	1889.098
40	1649.358	1617.672	1507.542	1425.916	1394.493
50	1188.700	1145.502	1048.638	964.303	926.874
60	752.373	720.897	647.276	585.341	563.080
70	383.310	365.862	323.147	295.704	284.341
80	126.902	114.566	105.386	100.696	102.072
90	8.417	9.899	11.021	11.459	11.854
100	2.306	3.288	3.814	3.796	3.349
110	1.131	1.613	1.736	1.911	1.964
120	0.482	0.579	0.693	0.877	0.833
130	0.745	0.438	0.456	0.561	0.473
140	0.438	0.412	0.491	0.526	0.570
150	0.684	0.509	0.561	0.473	0.368
160	0.324	0.421	0.395	0.482	0.500
170	0.219	0.351	0.552	0.605	0.526
180	0.666	0.666	0.666	0.666	0.666

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	990.75	N.A.	17.50
0-30	2006.96	N.A.	35.40
0-40	3108.22	N.A.	54.80
0-60	4869.95	N.A.	85.90
0-80	5589.45	N.A.	98.60
0-90	5654.6	N.A.	99.80
10-90	5389.16	N.A.	95.10
20-40	2117.47	N.A.	37.40
20-50	3113.53	N.A.	54.90
40-70	2249.32	N.A.	39.70
60-80	719.50	N.A.	12.70
70-80	231.90	N.A.	4.10
80-90	65.14	N.A.	1.10
90-110	10.39	N.A.	0.20
90-120	11.58	N.A.	0.20
90-130	12.12	N.A.	0.20
90-150	12.83	N.A.	0.20
90-180	13.23	N.A.	0.20
110-180	2.84	N.A.	0.10
0-180	5667.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	265.43
10-20	725.32
20-30	1016.21
30-40	1101.27
40-50	996.06
50-60	765.67
60-70	487.60
70-80	231.90
80-90	65.14
90-100	7.67
100-110	2.72
110-120	1.19
120-130	0.55
130-140	0.39
140-150	0.31
150-160	0.22
160-170	0.13
170-180	0.05

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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

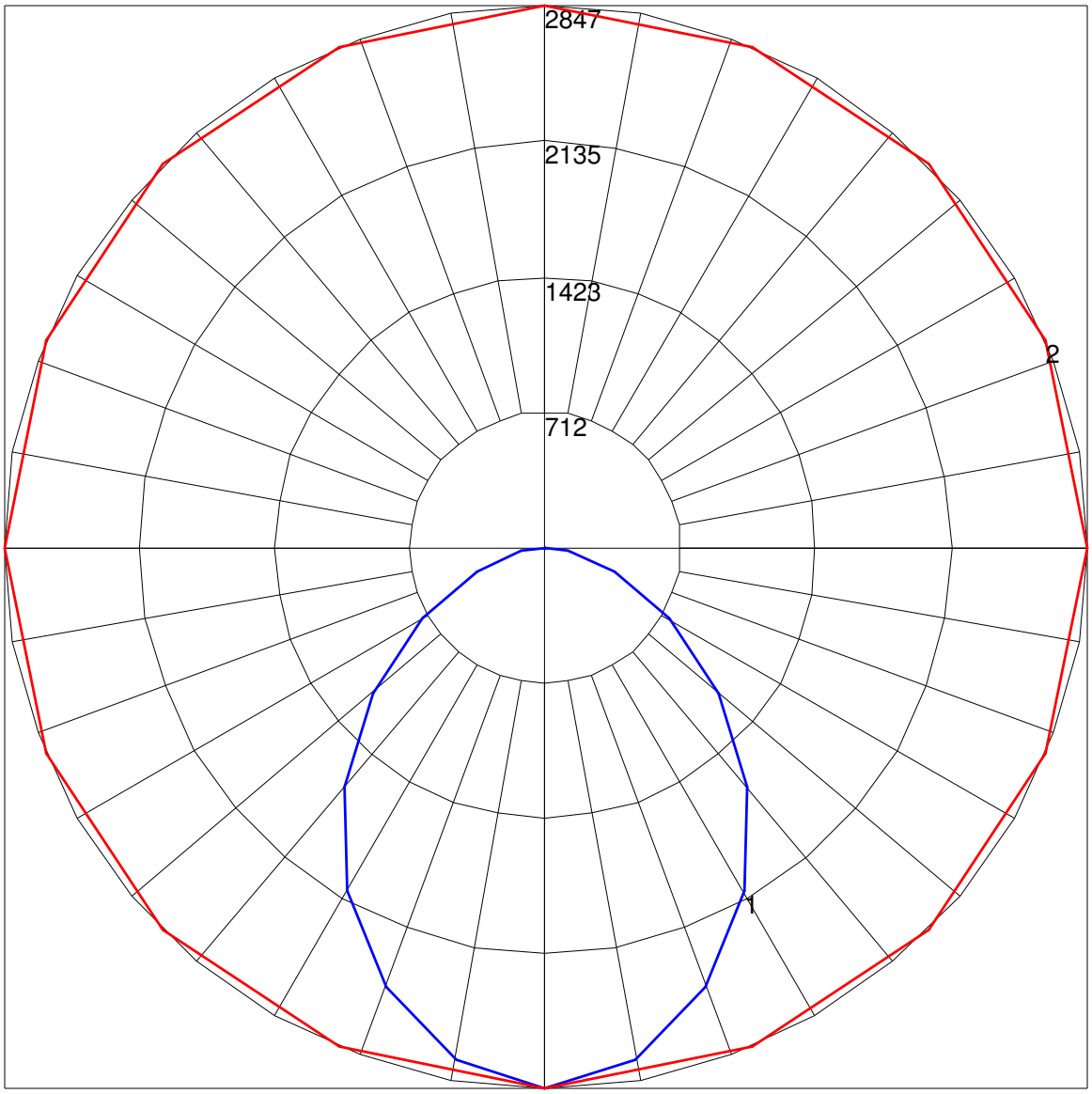
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.3	16.8	15.6	17.1	17.4	14.5	16.0	14.9	16.3	16.6
	3H	16.3	17.7	16.7	18.0	18.4	15.6	17.0	16.0	17.3	17.7
	4H	16.7	17.9	17.1	18.3	18.6	16.0	17.3	16.4	17.6	18.0
	6H	16.8	18.0	17.2	18.3	18.7	16.2	17.4	16.6	17.7	18.1
	8H	16.8	17.9	17.2	18.3	18.7	16.3	17.4	16.7	17.8	18.2
	12H	16.8	17.9	17.3	18.3	18.7	16.3	17.4	16.7	17.7	18.2
4H	2H	15.6	16.8	16.0	17.2	17.6	14.9	16.2	15.3	16.5	16.9
	3H	16.8	17.9	17.2	18.3	18.7	16.2	17.2	16.6	17.6	18.0
	4H	17.2	18.2	17.6	18.6	19.0	16.6	17.6	17.1	18.0	18.4
	6H	17.4	18.2	17.9	18.7	19.1	16.9	17.7	17.4	18.2	18.6
	8H	17.4	18.2	17.9	18.7	19.1	17.0	17.8	17.4	18.2	18.7
	12H	17.5	18.2	18.0	18.6	19.1	17.1	17.7	17.5	18.2	18.7
8H	4H	17.3	18.0	17.7	18.5	19.0	16.7	17.5	17.2	18.0	18.4
	6H	17.5	18.2	18.0	18.6	19.1	17.1	17.7	17.6	18.2	18.7
	8H	17.6	18.2	18.1	18.7	19.2	17.2	17.7	17.7	18.3	18.7
	12H	17.7	18.1	18.2	18.6	19.2	17.3	17.8	17.8	18.3	18.8
12H	4H	17.3	18.0	17.8	18.4	18.9	16.7	17.4	17.2	17.9	18.4
	6H	17.5	18.1	18.0	18.5	19.1	17.1	17.6	17.6	18.1	18.6
	8H	17.6	18.1	18.1	18.6	19.2	17.2	17.7	17.7	18.2	18.8

Maximum UGR = 19.2

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POLAR GRAPH



Maximum Candela = 2846.983 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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