IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-830-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-L68-830-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	6760
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	5998	4425	3887
55	4878	3267	2751
65	3656	2182	1805
75	2385	1201	1008
85	1223	451	399

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3395.799	3395.799	3395.799	3395.799	3395.799
10	3261.878	3259.692	3244.989	3208.407	3213.145
20	2930.860	2905.772	2868.051	2831.992	2788.237
30	2486.145	2457.763	2364.041	2292.667	2253.262
40	1967.306	1929.512	1798.153	1700.791	1663.311
50	1417.847	1366.322	1250.785	1150.192	1105.548
60	897.408	859.865	772.052	698.178	671.626
70	457.201	436.390	385.440	352.708	339.154
80	151.365	136.651	125.702	120.107	121.749
90	10.039	11.807	13.145	13.668	14.139
100	2.750	3.922	4.549	4.528	3.995
110	1.349	1.924	2.071	2.280	2.343
120	0.575	0.690	0.826	1.046	0.993
130	0.889	0.523	0.544	0.669	0.565
140	0.523	0.492	0.586	0.627	0.680
150	0.816	0.607	0.669	0.565	0.439
160	0.387	0.502	0.471	0.575	0.596
170	0.261	0.418	0.659	0.722	0.627
180	0.795	0.795	0.795	0.795	0.795

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1181.74	N.A.	17.50
0-30	2393.84	N.A.	35.40
0-40	3707.4	N.A.	54.80
0-60	5808.74	N.A.	85.90
0-80	6666.94	N.A.	98.60
0-90	6744.64	N.A.	99.80
10-90	6428.04	N.A.	95.10
20-40	2525.66	N.A.	37.40
20-50	3713.73	N.A.	54.90
40-70	2682.93	N.A.	39.70
60-80	858.20	N.A.	12.70
70-80	276.61	N.A.	4.10
80-90	77.70	N.A.	1.10
90-110	12.39	N.A.	0.20
90-120	13.81	N.A.	0.20
90-130	14.46	N.A.	0.20
90-150	15.30	N.A.	0.20
90-180	15.78	N.A.	0.20
110-180	3.39	N.A.	0.10
0-180	6760.41	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	316.60
10-20	865.14
20-30	1212.1
30-40	1313.56
40-50	1188.07
50-60	913.27
60-70	581.59
70-80	276.61
80-90	77.70
90-100	9.15
100-110	3.24
110-120	1.42
120-130	0.65
130-140	0.46
140-150	0.37
150-160	0.26
160-170	0.15
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

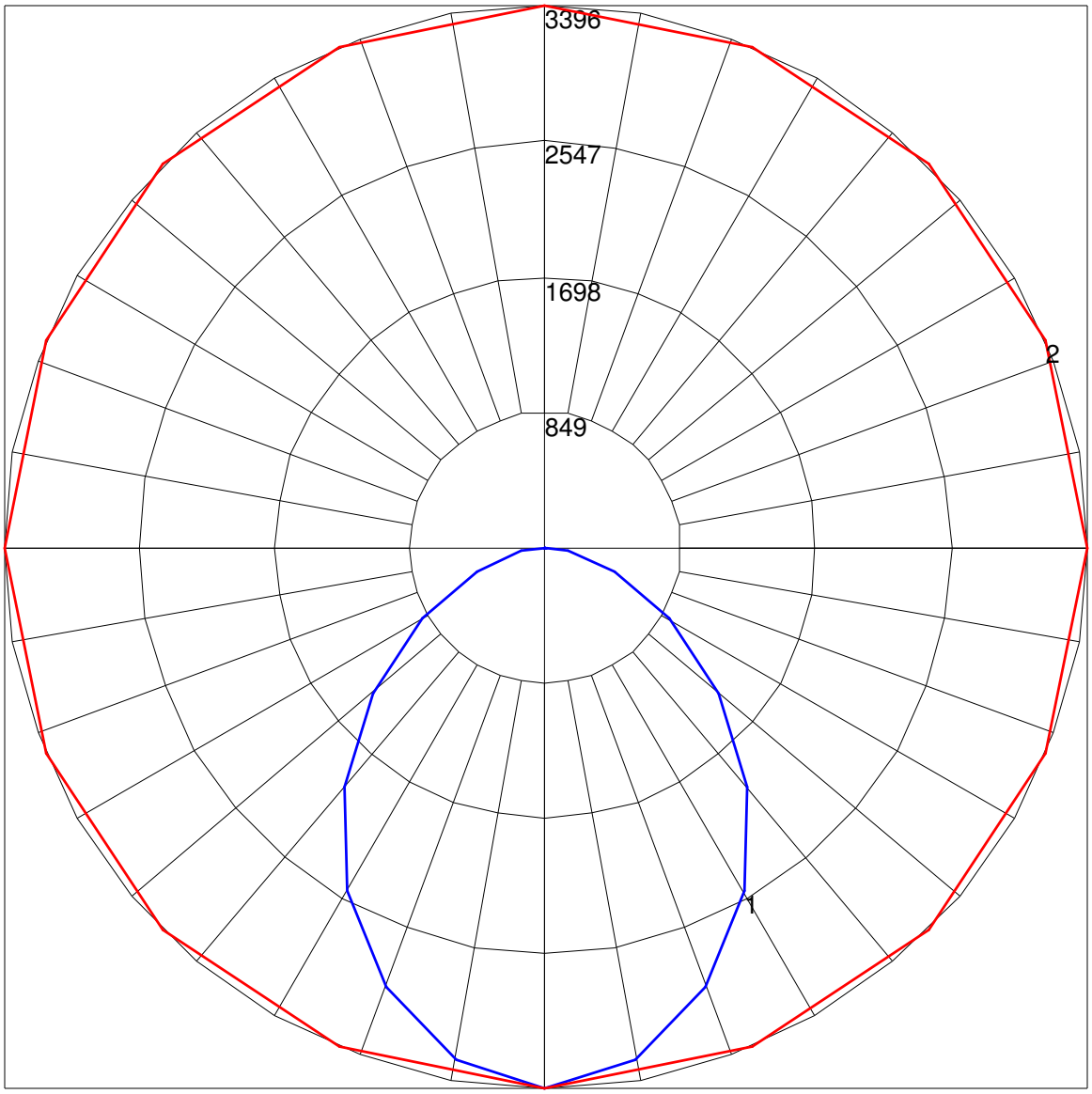
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.9	17.4	16.2	17.7	18.0	15.1	16.6	15.5	16.9	17.2
	3H	16.9	18.3	17.3	18.6	19.0	16.2	17.6	16.6	17.9	18.3
	4H	17.3	18.5	17.7	18.9	19.2	16.6	17.9	17.0	18.2	18.6
	6H	17.4	18.6	17.8	18.9	19.3	16.8	18.0	17.2	18.3	18.7
	8H	17.4	18.5	17.8	18.9	19.3	16.9	18.0	17.3	18.4	18.8
	12H	17.4	18.5	17.9	18.9	19.3	16.9	18.0	17.3	18.3	18.8
4H	2H	16.2	17.4	16.6	17.8	18.2	15.5	16.8	15.9	17.1	17.5
	3H	17.4	18.5	17.8	18.9	19.3	16.8	17.8	17.2	18.2	18.6
	4H	17.8	18.8	18.2	19.2	19.6	17.2	18.2	17.7	18.6	19.0
	6H	18.0	18.8	18.5	19.3	19.7	17.5	18.3	18.0	18.8	19.2
	8H	18.0	18.8	18.5	19.3	19.7	17.6	18.4	18.0	18.8	19.3
	12H	18.1	18.8	18.6	19.2	19.7	17.7	18.3	18.1	18.8	19.3
8H	4H	17.9	18.6	18.3	19.1	19.6	17.3	18.1	17.8	18.6	19.0
	6H	18.1	18.8	18.6	19.2	19.7	17.7	18.3	18.2	18.8	19.3
	8H	18.2	18.8	18.7	19.3	19.8	17.8	18.3	18.3	18.9	19.3
	12H	18.3	18.7	18.8	19.2	19.8	17.9	18.4	18.4	18.9	19.4
12H	4H	17.9	18.6	18.4	19.0	19.5	17.3	18.0	17.8	18.5	19.0
	6H	18.1	18.7	18.6	19.1	19.7	17.7	18.2	18.2	18.7	19.2
	8H	18.2	18.7	18.7	19.2	19.8	17.8	18.3	18.3	18.8	19.4

Maximum UGR = 19.8

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POLAR GRAPH



Maximum Candela = 3395.799 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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