IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-935-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-L31-935-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	2630
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	2334	1721	1512
55	1898	1271	1070
65	1422	849	702
75	928	467	392
85	476	176	155

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1321.189	1321.189	1321.189	1321.189	1321.189
10	1269.084	1268.234	1262.513	1248.281	1250.124
20	1140.297	1130.536	1115.860	1101.831	1084.807
30	967.274	956.231	919.767	891.998	876.667
40	765.411	750.707	699.599	661.719	647.137
50	551.636	531.589	486.637	447.500	430.131
60	349.151	334.544	300.379	271.637	261.307
70	177.881	169.784	149.962	137.226	131.953
80	58.891	53.166	48.906	46.729	47.368
90	3.906	4.594	5.114	5.318	5.501
100	1.070	1.526	1.770	1.762	1.554
110	0.525	0.749	0.806	0.887	0.911
120	0.224	0.269	0.321	0.407	0.387
130	0.346	0.203	0.212	0.260	0.220
140	0.203	0.191	0.228	0.244	0.264
150	0.317	0.236	0.260	0.220	0.171
160	0.151	0.195	0.183	0.224	0.232
170	0.102	0.163	0.256	0.281	0.244
180	0.309	0.309	0.309	0.309	0.309

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	459.77	N.A.	17.50
0-30	931.36	N.A.	35.40
0-40	1442.42	N.A.	54.80
0-60	2259.98	N.A.	85.90
0-80	2593.88	N.A.	98.60
0-90	2624.11	N.A.	99.80
10-90	2500.93	N.A.	95.10
20-40	982.65	N.A.	37.40
20-50	1444.89	N.A.	54.90
40-70	1043.84	N.A.	39.70
60-80	333.90	N.A.	12.70
70-80	107.62	N.A.	4.10
80-90	30.23	N.A.	1.10
90-110	4.82	N.A.	0.20
90-120	5.37	N.A.	0.20
90-130	5.63	N.A.	0.20
90-150	5.95	N.A.	0.20
90-180	6.14	N.A.	0.20
110-180	1.32	N.A.	0.10
0-180	2630.24	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.18
10-20	336.60
20-30	471.59
30-40	511.06
40-50	462.24
50-60	355.32
60-70	226.28
70-80	107.62
80-90	30.23
90-100	3.56
100-110	1.26
110-120	0.55
120-130	0.25
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	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

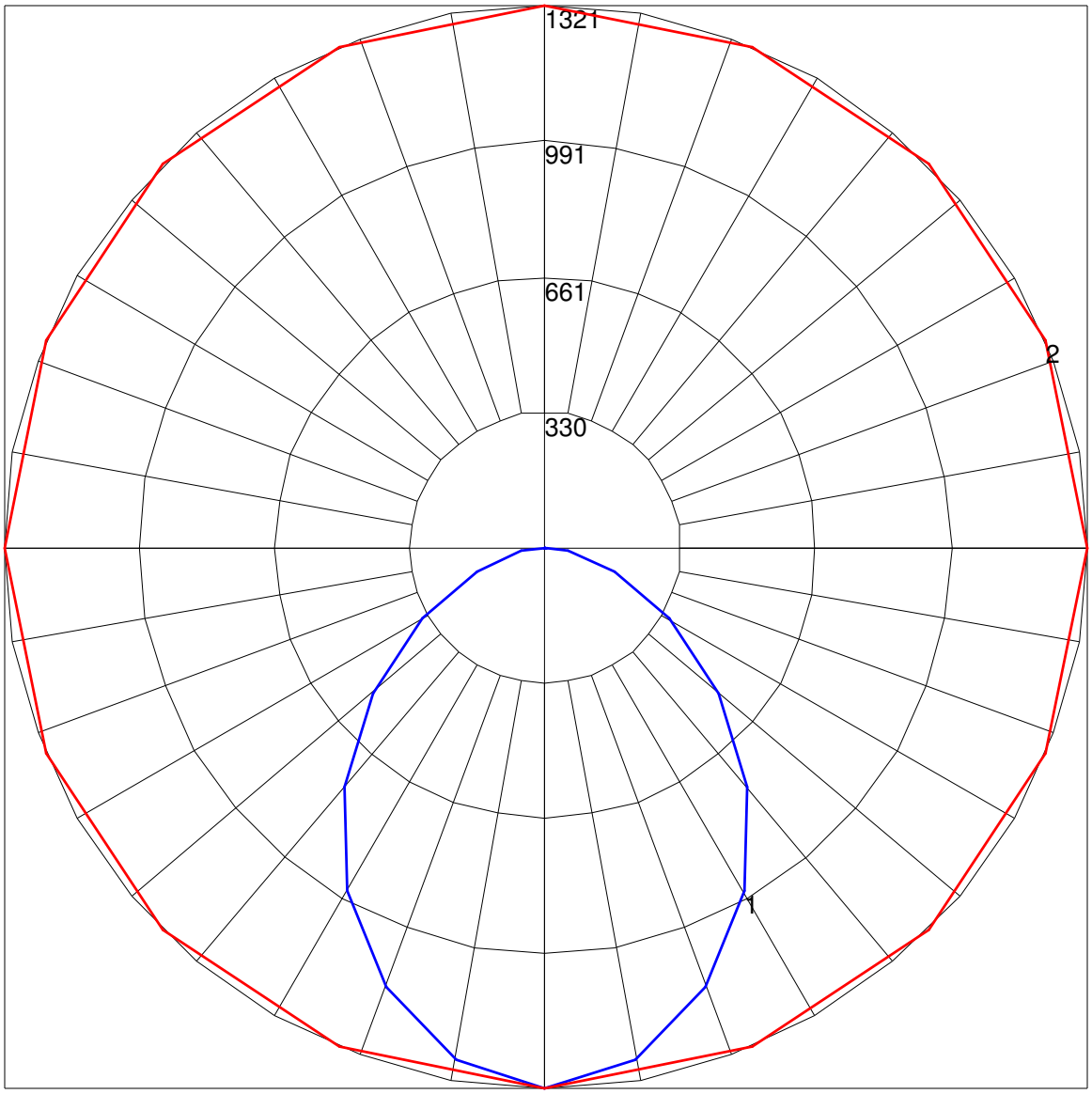
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.6	14.1	12.9	14.4	14.7	11.8	13.3	12.2	13.6	13.9
	3H	13.6	15.0	14.0	15.3	15.7	12.9	14.3	13.3	14.6	15.0
	4H	14.0	15.2	14.4	15.6	15.9	13.3	14.6	13.7	14.9	15.3
	6H	14.1	15.3	14.5	15.6	16.0	13.5	14.7	13.9	15.0	15.4
	8H	14.1	15.2	14.5	15.6	16.0	13.6	14.7	14.0	15.1	15.5
	12H	14.1	15.2	14.6	15.6	16.0	13.6	14.7	14.0	15.0	15.5
4H	2H	12.9	14.1	13.3	14.5	14.9	12.2	13.5	12.6	13.8	14.2
	3H	14.1	15.2	14.5	15.6	16.0	13.5	14.5	13.9	14.9	15.3
	4H	14.5	15.5	15.0	15.9	16.3	13.9	14.9	14.4	15.3	15.7
	6H	14.7	15.5	15.2	16.0	16.4	14.2	15.0	14.7	15.5	15.9
	8H	14.7	15.5	15.2	16.0	16.4	14.3	15.1	14.7	15.5	16.0
	12H	14.8	15.5	15.3	15.9	16.4	14.4	15.0	14.8	15.5	16.0
8H	4H	14.6	15.4	15.0	15.8	16.3	14.0	14.8	14.5	15.3	15.7
	6H	14.8	15.5	15.3	15.9	16.4	14.4	15.0	14.9	15.5	16.0
	8H	14.9	15.5	15.4	16.0	16.5	14.5	15.0	15.0	15.6	16.0
	12H	15.0	15.4	15.5	15.9	16.5	14.6	15.1	15.1	15.6	16.1
12H	4H	14.6	15.3	15.1	15.7	16.2	14.0	14.7	14.5	15.2	15.7
	6H	14.8	15.4	15.3	15.8	16.4	14.4	14.9	14.9	15.4	15.9
	8H	14.9	15.4	15.4	15.9	16.5	14.5	15.0	15.0	15.5	16.1

Maximum UGR = 16.5

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POLAR GRAPH



Maximum Candela = 1321.189 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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