IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-930-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-L31-930-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	2599
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	2306	1701	1494
55	1875	1256	1058
65	1406	839	694
75	917	462	388
85	470	173	153

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1305.460	1305.460	1305.460	1305.460	1305.460
10	1253.976	1253.136	1247.484	1233.421	1235.242
20	1126.722	1117.077	1102.576	1088.714	1071.893
30	955.758	944.847	908.817	881.379	866.230
40	756.299	741.770	691.271	653.842	639.433
50	545.069	525.260	480.844	442.173	425.010
60	344.994	330.561	296.803	268.403	258.196
70	175.764	167.763	148.176	135.593	130.382
80	58.190	52.533	48.324	46.173	46.804
90	3.859	4.539	5.054	5.255	5.435
100	1.057	1.508	1.749	1.741	1.536
110	0.519	0.740	0.796	0.876	0.901
120	0.221	0.265	0.318	0.402	0.382
130	0.342	0.201	0.209	0.257	0.217
140	0.201	0.189	0.225	0.241	0.261
150	0.314	0.233	0.257	0.217	0.169
160	0.149	0.193	0.181	0.221	0.229
170	0.101	0.161	0.253	0.277	0.241
180	0.306	0.306	0.306	0.306	0.306

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	454.30	N.A.	17.50
0-30	920.27	N.A.	35.40
0-40	1425.25	N.A.	54.80
0-60	2233.08	N.A.	85.90
0-80	2563.00	N.A.	98.60
0-90	2592.87	N.A.	99.80
10-90	2471.16	N.A.	95.10
20-40	970.95	N.A.	37.40
20-50	1427.68	N.A.	54.90
40-70	1031.41	N.A.	39.70
60-80	329.92	N.A.	12.70
70-80	106.34	N.A.	4.10
80-90	29.87	N.A.	1.10
90-110	4.76	N.A.	0.20
90-120	5.31	N.A.	0.20
90-130	5.56	N.A.	0.20
90-150	5.88	N.A.	0.20
90-180	6.06	N.A.	0.20
110-180	1.30	N.A.	0.10
0-180	2598.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.71
10-20	332.59
20-30	465.97
30-40	504.98
40-50	456.74
50-60	351.09
60-70	223.58
70-80	106.34
80-90	29.87
90-100	3.52
100-110	1.25
110-120	0.55
120-130	0.25
130-140	0.18
140-150	0.14
150-160	0.10
160-170	0.06
170-180	0.02

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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

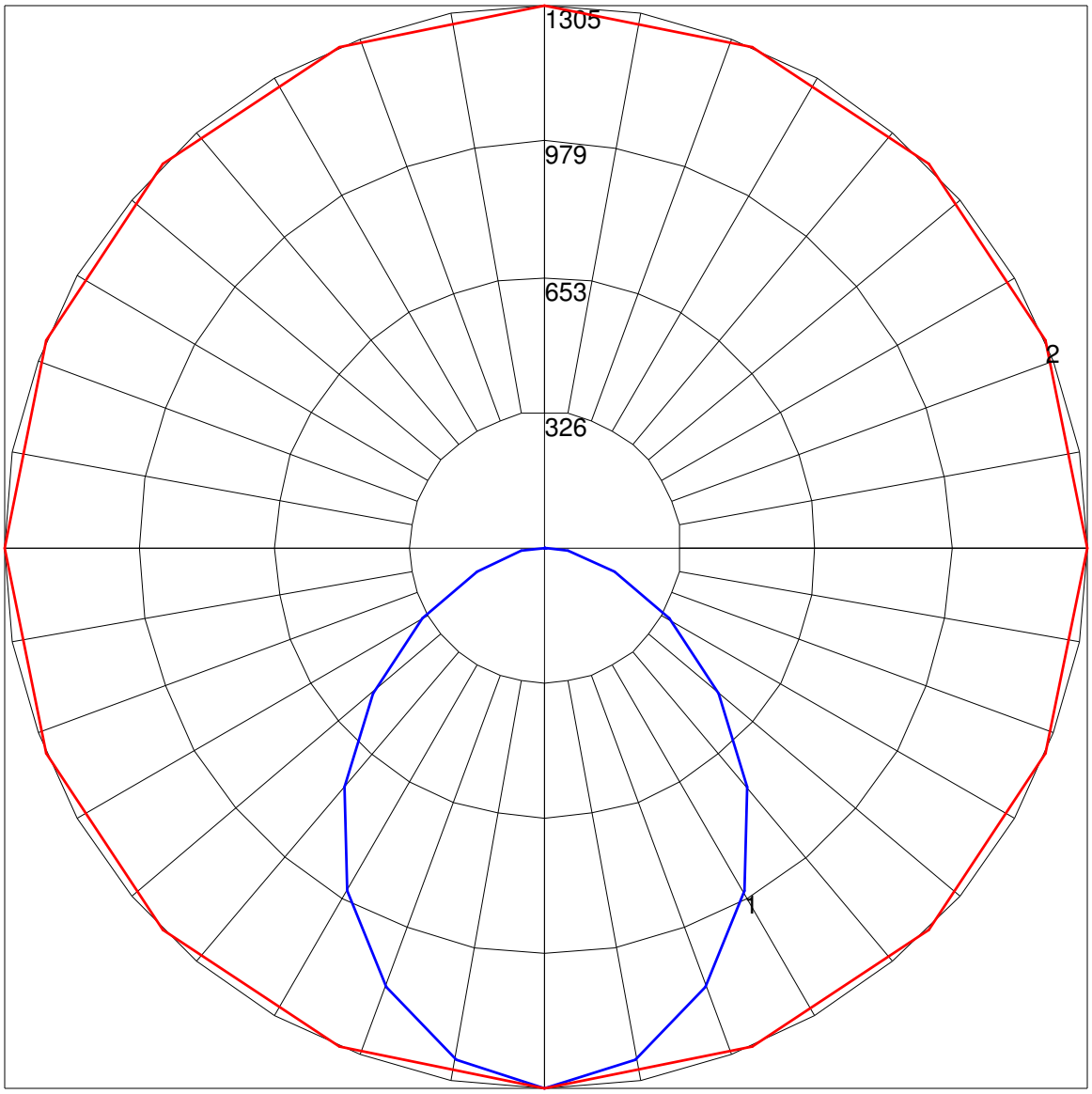
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.6	14.1	12.9	14.4	14.7	11.8	13.3	12.2	13.6	13.9
	3H	13.6	15.0	14.0	15.3	15.7	12.9	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	14.9	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	15.3	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 = 1305.46 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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