IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-827-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-L31-827-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	3037
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	2695	1988	1746
55	2191	1468	1236
65	1643	981	811
75	1072	540	453
85	549	203	179

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1525.658	1525.658	1525.658	1525.658	1525.658
10	1465.490	1464.508	1457.902	1441.467	1443.596
20	1316.771	1305.500	1288.552	1272.352	1252.694
30	1116.971	1104.219	1062.112	1030.045	1012.341
40	883.868	866.888	807.871	764.128	747.289
50	637.008	613.859	561.950	516.756	496.699
60	403.186	386.319	346.866	313.676	301.747
70	205.410	196.061	173.170	158.464	152.375
80	68.005	61.394	56.475	53.961	54.699
90	4.510	5.305	5.906	6.141	6.352
100	1.236	1.762	2.044	2.034	1.795
110	0.606	0.865	0.930	1.024	1.052
120	0.258	0.310	0.371	0.470	0.446
130	0.399	0.235	0.244	0.301	0.254
140	0.235	0.221	0.263	0.282	0.305
150	0.366	0.273	0.301	0.254	0.197
160	0.174	0.226	0.211	0.258	0.268
170	0.117	0.188	0.296	0.324	0.282
180	0.357	0.357	0.357	0.357	0.357

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	530.93	N.A.	17.50
0-30	1075.5	N.A.	35.40
0-40	1665.65	N.A.	54.80
0-60	2609.74	N.A.	85.90
0-80	2995.31	N.A.	98.60
0-90	3030.22	N.A.	99.80
10-90	2887.98	N.A.	95.10
20-40	1134.72	N.A.	37.40
20-50	1668.5	N.A.	54.90
40-70	1205.38	N.A.	39.70
60-80	385.57	N.A.	12.70
70-80	124.27	N.A.	4.10
80-90	34.91	N.A.	1.10
90-110	5.57	N.A.	0.20
90-120	6.20	N.A.	0.20
90-130	6.50	N.A.	0.20
90-150	6.87	N.A.	0.20
90-180	7.09	N.A.	0.20
110-180	1.52	N.A.	0.10
0-180	3037.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.24
10-20	388.69
20-30	544.57
30-40	590.15
40-50	533.78
50-60	410.31
60-70	261.30
70-80	124.27
80-90	34.91
90-100	4.11
100-110	1.46
110-120	0.64
120-130	0.29
130-140	0.21
140-150	0.17
150-160	0.12
160-170	0.07
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

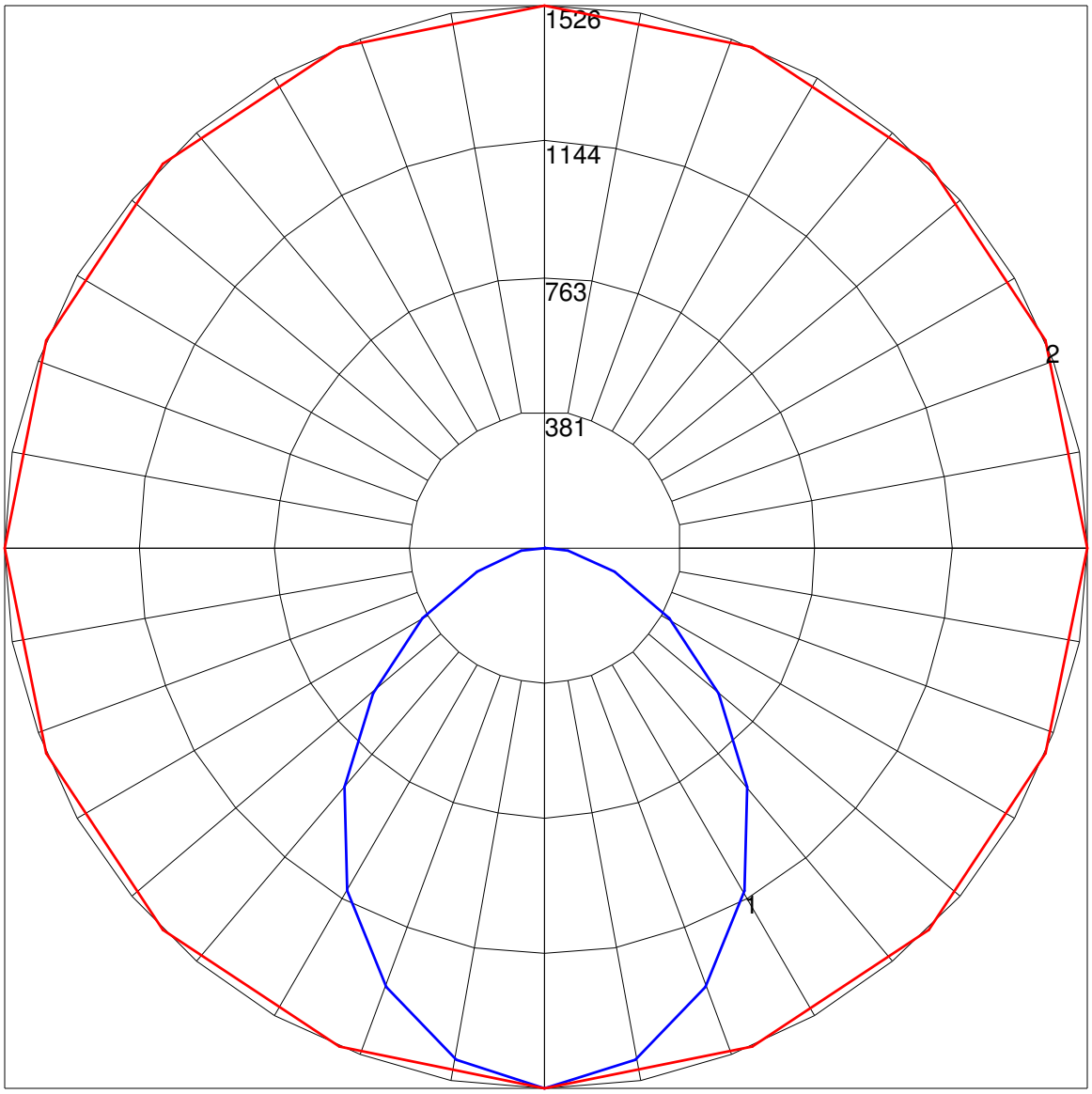
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.1	14.6	13.5	14.9	15.2	12.3	13.8	12.7	14.1	14.4
	3H	14.1	15.5	14.5	15.8	16.2	13.4	14.8	13.8	15.1	15.5
	4H	14.5	15.7	14.9	16.1	16.4	13.8	15.1	14.2	15.4	15.8
	6H	14.6	15.8	15.0	16.1	16.5	14.0	15.2	14.4	15.5	15.9
	8H	14.6	15.7	15.0	16.1	16.5	14.1	15.2	14.5	15.6	16.0
	12H	14.6	15.7	15.1	16.1	16.5	14.1	15.2	14.5	15.5	16.0
4H	2H	13.4	14.6	13.8	15.0	15.4	12.7	14.0	13.1	14.3	14.7
	3H	14.6	15.7	15.0	16.1	16.5	14.0	15.0	14.4	15.4	15.8
	4H	15.0	16.0	15.5	16.4	16.8	14.4	15.4	14.9	15.8	16.2
	6H	15.2	16.0	15.7	16.5	16.9	14.7	15.5	15.2	16.0	16.4
	8H	15.2	16.0	15.7	16.5	16.9	14.8	15.6	15.2	16.0	16.5
	12H	15.3	16.0	15.8	16.4	16.9	14.9	15.5	15.3	16.0	16.5
8H	4H	15.1	15.9	15.5	16.3	16.8	14.5	15.3	15.0	15.8	16.2
	6H	15.3	16.0	15.8	16.4	16.9	14.9	15.5	15.4	16.0	16.5
	8H	15.4	16.0	15.9	16.5	17.0	15.0	15.5	15.5	16.1	16.5
	12H	15.5	15.9	16.0	16.4	17.0	15.1	15.6	15.6	16.1	16.6
12H	4H	15.1	15.8	15.6	16.2	16.7	14.5	15.2	15.0	15.7	16.2
	6H	15.3	15.9	15.9	16.4	16.9	14.9	15.4	15.4	15.9	16.4
	8H	15.4	15.9	15.9	16.4	17.0	15.0	15.5	15.5	16.0	16.6

Maximum UGR = 17.0

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POLAR GRAPH



Maximum Candela = 1525.658 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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