IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-927-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-L68-927-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	5463
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
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	4847	3575	3141
55	3942	2640	2223
65	2954	1764	1458
75	1928	971	815
85	988	365	323

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2744.080	2744.080	2744.080	2744.080	2744.080
10	2635.861	2634.095	2622.213	2592.653	2596.481
20	2368.371	2348.098	2317.617	2288.479	2253.121
30	2009.006	1986.071	1910.336	1852.660	1820.818
40	1589.742	1559.202	1453.053	1374.377	1344.090
50	1145.735	1104.099	1010.735	929.448	893.372
60	725.178	694.840	623.880	564.184	542.728
70	369.455	352.639	311.467	285.016	274.064
80	122.315	110.425	101.577	97.056	98.383
90	8.113	9.541	10.623	11.045	11.425
100	2.223	3.169	3.676	3.659	3.228
110	1.090	1.555	1.673	1.842	1.893
120	0.465	0.558	0.668	0.845	0.803
130	0.718	0.423	0.439	0.541	0.456
140	0.423	0.397	0.473	0.507	0.549
150	0.659	0.490	0.541	0.456	0.355
160	0.313	0.406	0.380	0.465	0.482
170	0.211	0.338	0.532	0.583	0.507
180	0.642	0.642	0.642	0.642	0.642

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	954.94	N.A.	17.50
0-30	1934.42	N.A.	35.40
0-40	2995.88	N.A.	54.80
0-60	4693.93	N.A.	85.90
0-80	5387.42	N.A.	98.60
0-90	5450.21	N.A.	99.80
10-90	5194.37	N.A.	95.10
20-40	2040.94	N.A.	37.40
20-50	3001.00	N.A.	54.90
40-70	2168.02	N.A.	39.70
60-80	693.49	N.A.	12.70
70-80	223.52	N.A.	4.10
80-90	62.79	N.A.	1.10
90-110	10.01	N.A.	0.20
90-120	11.16	N.A.	0.20
90-130	11.69	N.A.	0.20
90-150	12.36	N.A.	0.20
90-180	12.75	N.A.	0.20
110-180	2.74	N.A.	0.10
0-180	5462.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	255.84
10-20	699.10
20-30	979.48
30-40	1061.46
40-50	960.06
50-60	737.99
60-70	469.97
70-80	223.52
80-90	62.79
90-100	7.39
100-110	2.62
110-120	1.15
120-130	0.53
130-140	0.37
140-150	0.30
150-160	0.21
160-170	0.12
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

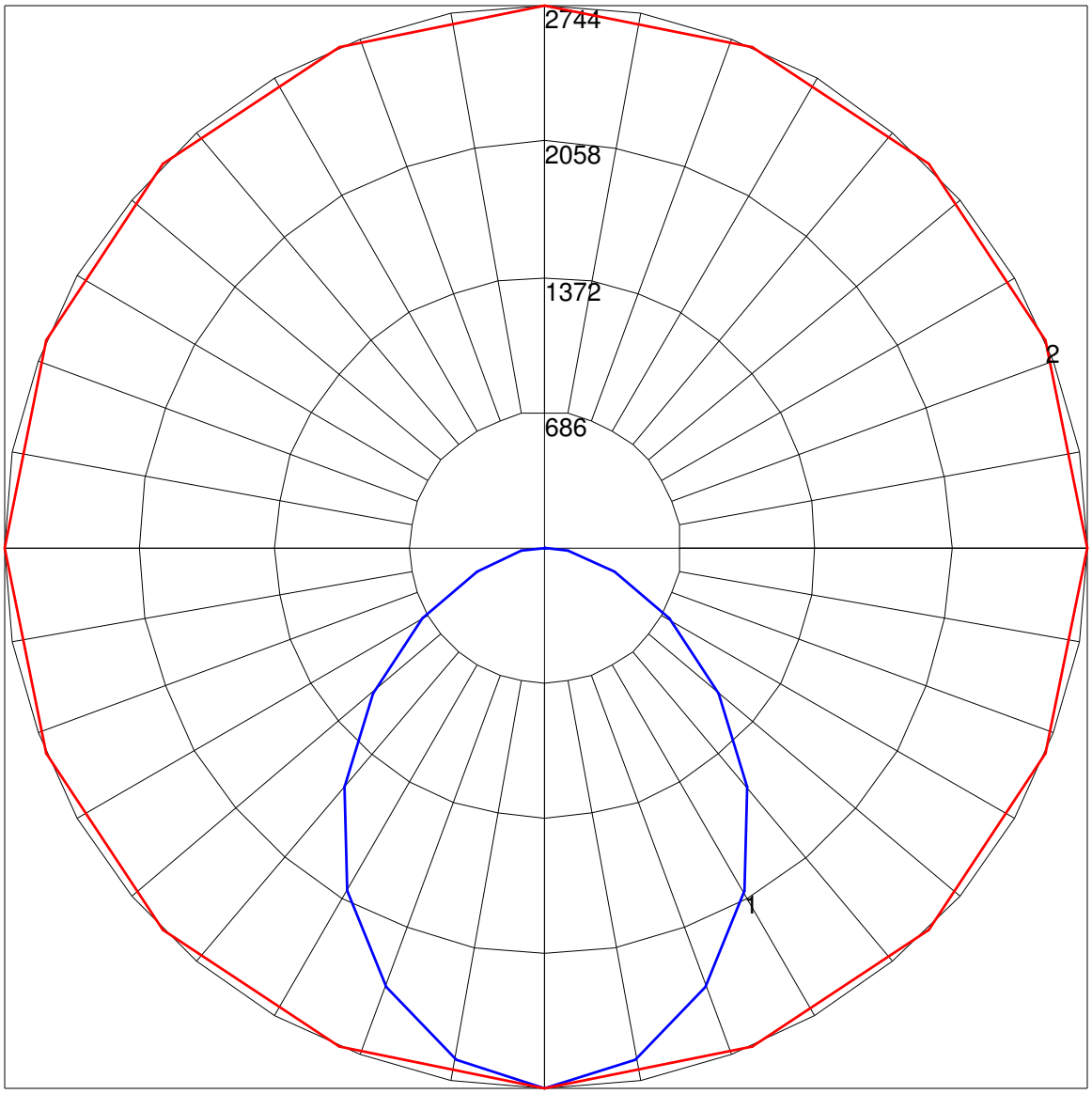
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.2	16.7	15.5	17.0	17.3	14.4	15.9	14.8	16.2	16.5
	3H	16.2	17.6	16.6	17.9	18.3	15.5	16.9	15.9	17.2	17.6
	4H	16.6	17.8	17.0	18.2	18.5	15.9	17.2	16.3	17.5	17.9
	6H	16.7	17.9	17.1	18.2	18.6	16.1	17.3	16.5	17.6	18.0
	8H	16.7	17.8	17.1	18.2	18.6	16.2	17.3	16.6	17.7	18.1
	12H	16.7	17.8	17.2	18.2	18.6	16.2	17.3	16.6	17.6	18.1
4H	2H	15.5	16.7	15.9	17.1	17.5	14.8	16.1	15.2	16.4	16.8
	3H	16.7	17.8	17.1	18.2	18.6	16.1	17.1	16.5	17.5	17.9
	4H	17.1	18.1	17.5	18.5	18.9	16.5	17.5	17.0	17.9	18.3
	6H	17.3	18.1	17.8	18.6	19.0	16.8	17.6	17.3	18.1	18.5
	8H	17.3	18.1	17.8	18.6	19.0	16.9	17.7	17.3	18.1	18.6
	12H	17.4	18.1	17.9	18.5	19.0	17.0	17.6	17.4	18.1	18.6
8H	4H	17.2	17.9	17.6	18.4	18.9	16.6	17.4	17.1	17.9	18.3
	6H	17.4	18.1	17.9	18.5	19.0	17.0	17.6	17.5	18.1	18.6
	8H	17.5	18.1	18.0	18.6	19.1	17.1	17.6	17.6	18.2	18.6
	12H	17.6	18.0	18.1	18.5	19.1	17.2	17.7	17.7	18.2	18.7
12H	4H	17.2	17.9	17.7	18.3	18.8	16.6	17.3	17.1	17.8	18.3
	6H	17.4	18.0	17.9	18.4	19.0	17.0	17.5	17.5	18.0	18.5
	8H	17.5	18.0	18.0	18.5	19.1	17.1	17.6	17.6	18.1	18.7

Maximum UGR = 19.1

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POLAR GRAPH



Maximum Candela = 2744.08 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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