IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-935-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-L68-935-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	5736
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	5089	3754	3298
55	4139	2772	2334
65	3102	1852	1531
75	2024	1019	855
85	1038	383	339

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2881.284	2881.284	2881.284	2881.284	2881.284
10	2767.654	2765.800	2753.324	2722.285	2726.305
20	2486.790	2465.503	2433.498	2402.903	2365.777
30	2109.457	2085.375	2005.853	1945.293	1911.859
40	1669.230	1637.162	1525.705	1443.096	1411.294
50	1203.022	1159.304	1061.272	975.921	938.041
60	761.437	729.583	655.074	592.394	569.865
70	387.928	370.270	327.040	299.267	287.767
80	128.431	115.946	106.656	101.909	103.302
90	8.518	10.018	11.154	11.597	11.997
100	2.334	3.327	3.860	3.842	3.390
110	1.145	1.633	1.757	1.934	1.988
120	0.488	0.586	0.701	0.887	0.843
130	0.754	0.444	0.461	0.568	0.479
140	0.444	0.417	0.497	0.532	0.577
150	0.692	0.515	0.568	0.479	0.373
160	0.328	0.426	0.399	0.488	0.506
170	0.222	0.355	0.559	0.612	0.532
180	0.674	0.674	0.674	0.674	0.674

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1002.69	N.A.	17.50
0-30	2031.14	N.A.	35.40
0-40	3145.67	N.A.	54.80
0-60	4928.63	N.A.	85.90
0-80	5656.79	N.A.	98.60
0-90	5722.72	N.A.	99.80
10-90	5454.09	N.A.	95.10
20-40	2142.98	N.A.	37.40
20-50	3151.05	N.A.	54.90
40-70	2276.43	N.A.	39.70
60-80	728.17	N.A.	12.70
70-80	234.70	N.A.	4.10
80-90	65.93	N.A.	1.10
90-110	10.51	N.A.	0.20
90-120	11.72	N.A.	0.20
90-130	12.27	N.A.	0.20
90-150	12.98	N.A.	0.20
90-180	13.39	N.A.	0.20
110-180	2.87	N.A.	0.10
0-180	5736.11	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	268.63
10-20	734.06
20-30	1028.45
30-40	1114.54
40-50	1008.06
50-60	774.89
60-70	493.47
70-80	234.70
80-90	65.93
90-100	7.76
100-110	2.75
110-120	1.21
120-130	0.55
130-140	0.39
140-150	0.32
150-160	0.22
160-170	0.13
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

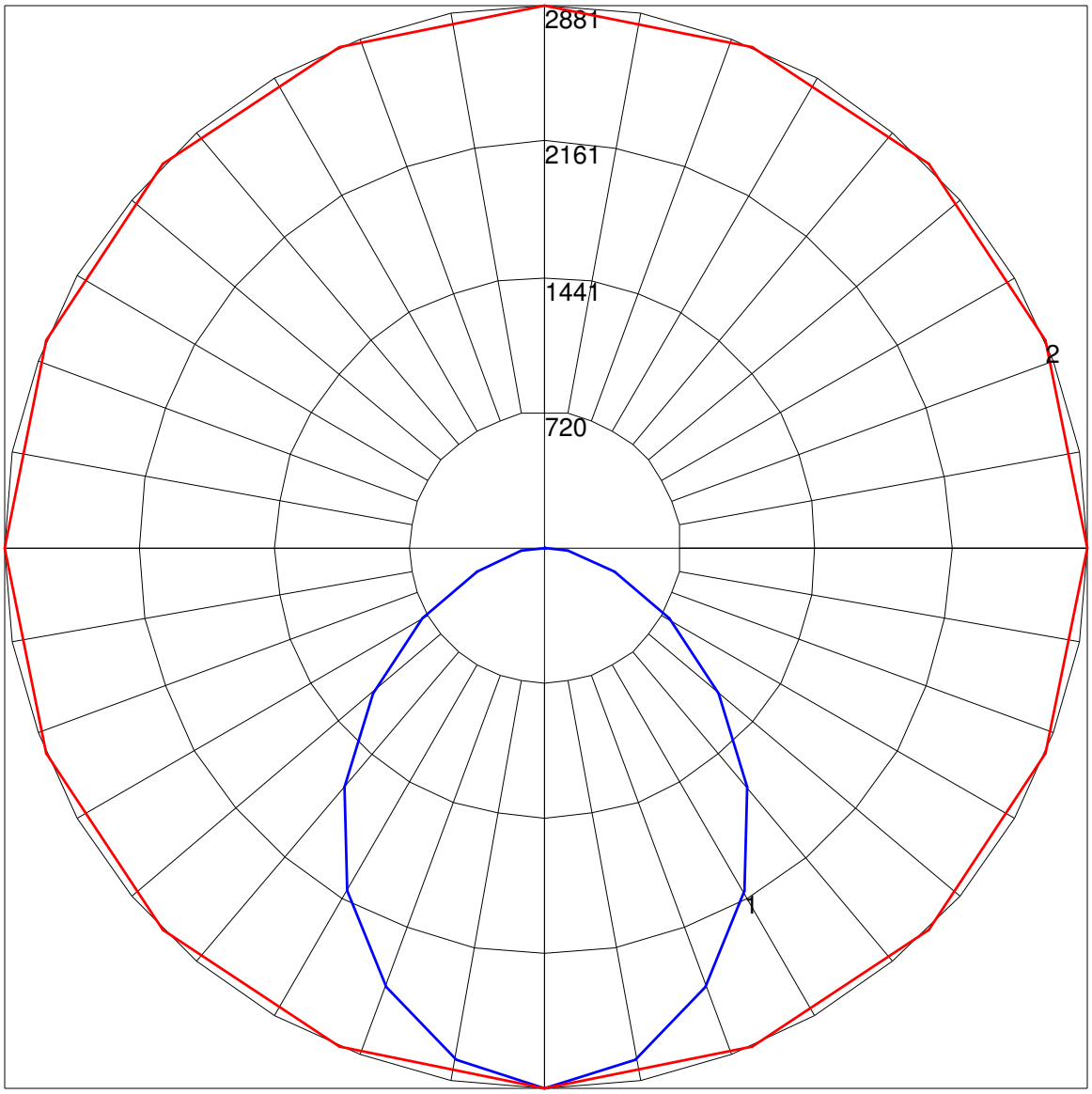
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.4	16.9	15.7	17.2	17.5	14.6	16.1	15.0	16.4	16.7
	3H	16.4	17.8	16.8	18.1	18.5	15.7	17.1	16.1	17.4	17.8
	4H	16.8	18.0	17.2	18.4	18.7	16.1	17.4	16.5	17.7	18.1
	6H	16.9	18.1	17.3	18.4	18.8	16.3	17.5	16.7	17.8	18.2
	8H	16.9	18.0	17.3	18.4	18.8	16.4	17.5	16.8	17.9	18.3
	12H	16.9	18.0	17.4	18.4	18.8	16.4	17.5	16.8	17.8	18.3
4H	2H	15.7	16.9	16.1	17.3	17.7	15.0	16.3	15.4	16.6	17.0
	3H	16.9	18.0	17.3	18.4	18.8	16.3	17.3	16.7	17.7	18.1
	4H	17.3	18.3	17.7	18.7	19.1	16.7	17.7	17.2	18.1	18.5
	6H	17.5	18.3	18.0	18.8	19.2	17.0	17.8	17.5	18.3	18.7
	8H	17.5	18.3	18.0	18.8	19.2	17.1	17.9	17.5	18.3	18.8
	12H	17.6	18.3	18.1	18.7	19.2	17.2	17.8	17.6	18.3	18.8
8H	4H	17.4	18.1	17.8	18.6	19.1	16.8	17.6	17.3	18.1	18.5
	6H	17.6	18.3	18.1	18.7	19.2	17.2	17.8	17.7	18.3	18.8
	8H	17.7	18.3	18.2	18.8	19.3	17.3	17.8	17.8	18.4	18.8
	12H	17.8	18.2	18.3	18.7	19.3	17.4	17.9	17.9	18.4	18.9
12H	4H	17.4	18.1	17.9	18.5	19.0	16.8	17.5	17.3	18.0	18.5
	6H	17.6	18.2	18.1	18.6	19.2	17.2	17.7	17.7	18.2	18.7
	8H	17.7	18.2	18.2	18.7	19.3	17.3	17.8	17.8	18.3	18.9

Maximum UGR = 19.3

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POLAR GRAPH



Maximum Candela = 2881.284 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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