IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-827-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-L68-827-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	6624
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	5877	4335	3809
55	4779	3201	2695
65	3582	2138	1768
75	2337	1177	988
85	1198	442	391

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3327.196	3327.196	3327.196	3327.196	3327.196
10	3195.980	3193.839	3179.432	3143.590	3148.232
20	2871.650	2847.068	2810.109	2774.780	2731.908
30	2435.919	2408.110	2316.282	2246.350	2207.741
40	1927.562	1890.531	1761.826	1666.431	1629.708
50	1389.203	1338.719	1225.516	1126.956	1083.214
60	879.279	842.494	756.454	684.073	658.058
70	447.965	427.574	377.653	345.582	332.303
80	148.307	133.890	123.162	117.680	119.289
90	9.837	11.568	12.880	13.392	13.853
100	2.695	3.842	4.457	4.437	3.914
110	1.322	1.885	2.029	2.234	2.295
120	0.564	0.676	0.809	1.025	0.973
130	0.871	0.512	0.533	0.656	0.553
140	0.512	0.482	0.574	0.615	0.666
150	0.799	0.594	0.656	0.553	0.430
160	0.379	0.492	0.461	0.564	0.584
170	0.256	0.410	0.646	0.707	0.615
180	0.779	0.779	0.779	0.779	0.779

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1157.87	N.A.	17.50
0-30	2345.48	N.A.	35.40
0-40	3632.5	N.A.	54.80
0-60	5691.39	N.A.	85.90
0-80	6532.25	N.A.	98.60
0-90	6608.38	N.A.	99.80
10-90	6298.18	N.A.	95.10
20-40	2474.64	N.A.	37.40
20-50	3638.71	N.A.	54.90
40-70	2628.73	N.A.	39.70
60-80	840.86	N.A.	12.70
70-80	271.02	N.A.	4.10
80-90	76.13	N.A.	1.10
90-110	12.14	N.A.	0.20
90-120	13.53	N.A.	0.20
90-130	14.17	N.A.	0.20
90-150	14.99	N.A.	0.20
90-180	15.46	N.A.	0.20
110-180	3.32	N.A.	0.10
0-180	6623.84	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	310.20
10-20	847.66
20-30	1187.61
30-40	1287.02
40-50	1164.07
50-60	894.82
60-70	569.84
70-80	271.02
80-90	76.13
90-100	8.96
100-110	3.17
110-120	1.39
120-130	0.64
130-140	0.45
140-150	0.37
150-160	0.26
160-170	0.15
170-180	0.06

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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

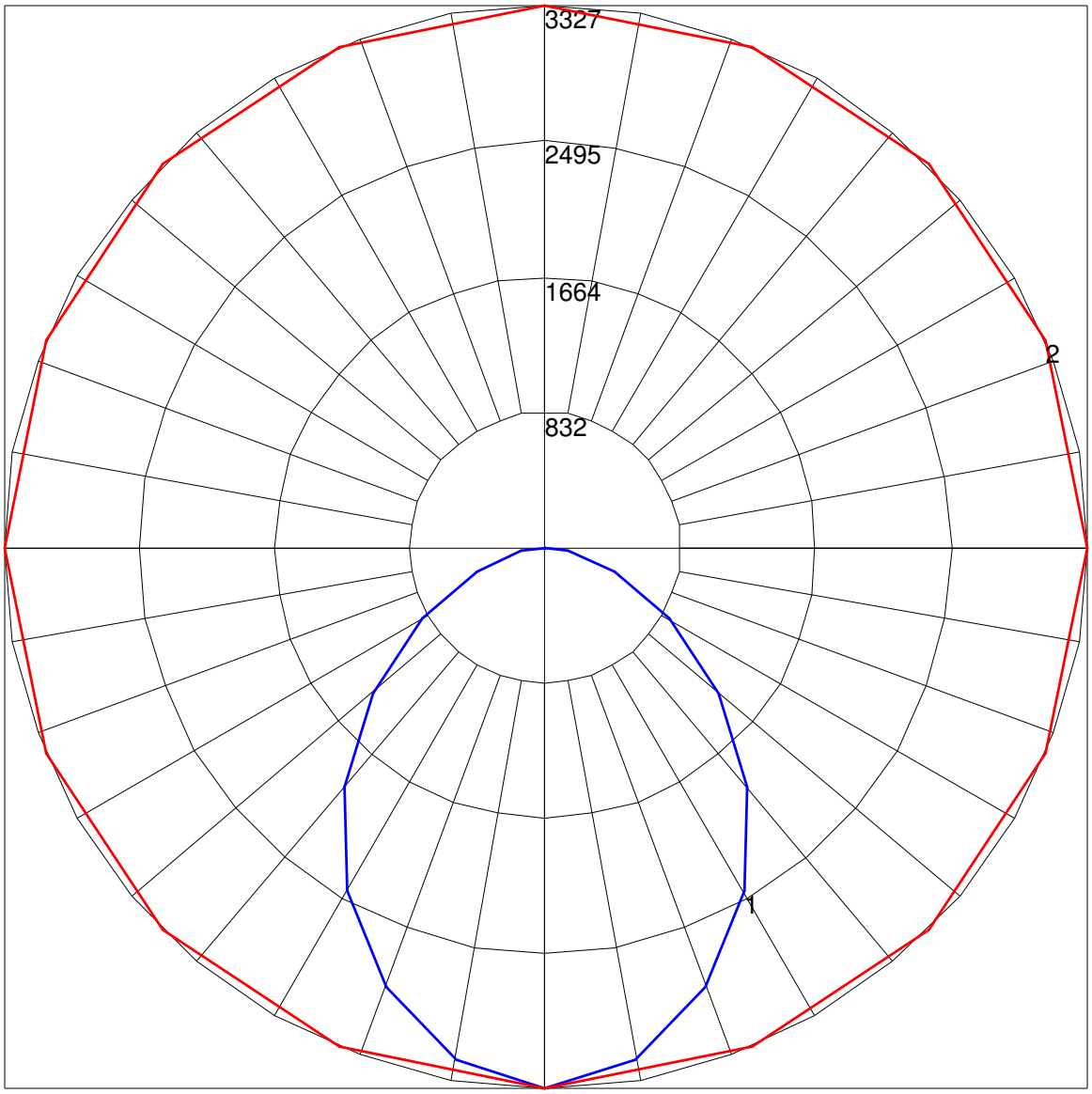
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.9	17.4	16.2	17.7	18.0	15.1	16.6	15.5	16.9	17.2
	3H	16.9	18.3	17.3	18.6	19.0	16.2	17.6	16.6	17.9	18.3
	4H	17.3	18.5	17.7	18.9	19.2	16.6	17.9	17.0	18.2	18.6
	6H	17.4	18.6	17.8	18.9	19.3	16.8	18.0	17.2	18.3	18.7
	8H	17.4	18.5	17.8	18.9	19.3	16.9	18.0	17.3	18.4	18.8
	12H	17.4	18.5	17.9	18.9	19.3	16.9	18.0	17.3	18.3	18.8
4H	2H	16.2	17.4	16.6	17.8	18.2	15.5	16.8	15.9	17.1	17.5
	3H	17.4	18.5	17.8	18.9	19.3	16.8	17.8	17.2	18.2	18.6
	4H	17.8	18.8	18.2	19.2	19.6	17.2	18.2	17.7	18.6	19.0
	6H	18.0	18.8	18.5	19.3	19.7	17.5	18.3	18.0	18.8	19.2
	8H	18.0	18.8	18.5	19.3	19.7	17.6	18.4	18.0	18.8	19.3
	12H	18.1	18.8	18.6	19.2	19.7	17.7	18.3	18.1	18.8	19.3
8H	4H	17.9	18.6	18.3	19.1	19.6	17.3	18.1	17.8	18.6	19.0
	6H	18.1	18.8	18.6	19.2	19.7	17.7	18.3	18.2	18.8	19.3
	8H	18.2	18.8	18.7	19.3	19.8	17.8	18.3	18.3	18.9	19.3
	12H	18.3	18.7	18.8	19.2	19.8	17.9	18.4	18.4	18.9	19.4
12H	4H	17.9	18.6	18.4	19.0	19.5	17.3	18.0	17.8	18.5	19.0
	6H	18.1	18.7	18.6	19.1	19.7	17.7	18.2	18.2	18.7	19.2
	8H	18.2	18.7	18.7	19.2	19.8	17.8	18.3	18.3	18.8	19.4

Maximum UGR = 19.8

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POLAR GRAPH



Maximum Candela = 3327.196 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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