IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-850-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-L31-850-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	3319
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	2945	2172	1908
55	2395	1604	1351
65	1795	1071	886
75	1171	590	495
85	600	222	196

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1667.214	1667.214	1667.214	1667.214	1667.214
10	1601.464	1600.391	1593.172	1575.212	1577.537
20	1438.946	1426.628	1408.109	1390.405	1368.923
30	1220.607	1206.672	1160.658	1125.616	1106.270
40	965.876	947.320	882.828	835.027	816.625
50	696.112	670.815	614.090	564.703	542.784
60	440.595	422.163	379.049	342.780	329.744
70	224.469	214.252	189.237	173.167	166.512
80	74.315	67.091	61.715	58.968	59.774
90	4.929	5.797	6.454	6.711	6.942
100	1.350	1.925	2.233	2.223	1.961
110	0.662	0.945	1.017	1.119	1.150
120	0.282	0.339	0.406	0.513	0.488
130	0.436	0.257	0.267	0.329	0.277
140	0.257	0.241	0.288	0.308	0.334
150	0.400	0.298	0.329	0.277	0.216
160	0.190	0.246	0.231	0.282	0.293
170	0.128	0.205	0.323	0.354	0.308
180	0.390	0.390	0.390	0.390	0.390

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	580.19	N.A.	17.50
0-30	1175.29	N.A.	35.40
0-40	1820.2	N.A.	54.80
0-60	2851.88	N.A.	85.90
0-80	3273.22	N.A.	98.60
0-90	3311.37	N.A.	99.80
10-90	3155.93	N.A.	95.10
20-40	1240.01	N.A.	37.40
20-50	1823.31	N.A.	54.90
40-70	1317.22	N.A.	39.70
60-80	421.34	N.A.	12.70
70-80	135.80	N.A.	4.10
80-90	38.15	N.A.	1.10
90-110	6.08	N.A.	0.20
90-120	6.78	N.A.	0.20
90-130	7.10	N.A.	0.20
90-150	7.51	N.A.	0.20
90-180	7.75	N.A.	0.20
110-180	1.66	N.A.	0.10
0-180	3319.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	155.44
10-20	424.75
20-30	595.10
30-40	644.91
40-50	583.30
50-60	448.38
60-70	285.54
70-80	135.80
80-90	38.15
90-100	4.49
100-110	1.59
110-120	0.70
120-130	0.32
130-140	0.23
140-150	0.18
150-160	0.13
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	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	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

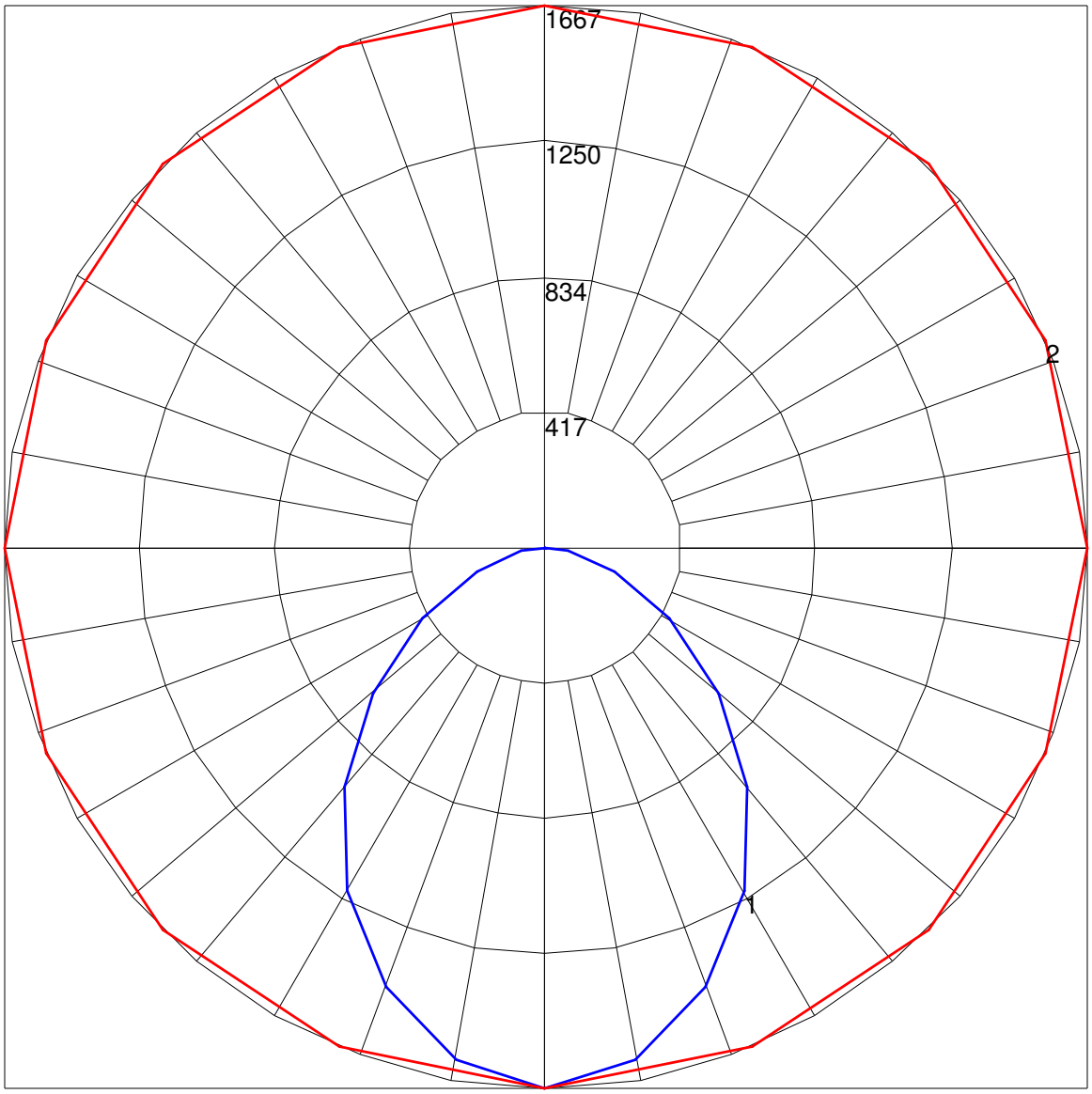
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.5	15.0	13.8	15.3	15.6	12.7	14.2	13.1	14.5	14.8
	3H	14.5	15.9	14.9	16.2	16.6	13.8	15.2	14.2	15.5	15.9
	4H	14.9	16.1	15.3	16.5	16.8	14.2	15.5	14.6	15.8	16.2
	6H	15.0	16.2	15.4	16.5	16.9	14.4	15.6	14.8	15.9	16.3
	8H	15.0	16.1	15.4	16.5	16.9	14.5	15.6	14.9	16.0	16.4
	12H	15.0	16.1	15.5	16.5	16.9	14.5	15.6	14.9	15.9	16.4
4H	2H	13.8	15.0	14.2	15.4	15.8	13.1	14.4	13.5	14.7	15.1
	3H	15.0	16.1	15.4	16.5	16.9	14.4	15.4	14.8	15.8	16.2
	4H	15.4	16.4	15.9	16.8	17.2	14.8	15.8	15.3	16.2	16.6
	6H	15.6	16.4	16.1	16.9	17.3	15.1	15.9	15.6	16.4	16.8
	8H	15.6	16.4	16.1	16.9	17.3	15.2	16.0	15.6	16.4	16.9
	12H	15.7	16.4	16.2	16.8	17.3	15.3	15.9	15.7	16.4	16.9
8H	4H	15.5	16.3	15.9	16.7	17.2	14.9	15.7	15.4	16.2	16.6
	6H	15.7	16.4	16.2	16.8	17.3	15.3	15.9	15.8	16.4	16.9
	8H	15.8	16.4	16.3	16.9	17.4	15.4	15.9	15.9	16.5	16.9
	12H	15.9	16.3	16.4	16.8	17.4	15.5	16.0	16.0	16.5	17.0
12H	4H	15.5	16.2	16.0	16.6	17.1	14.9	15.6	15.4	16.1	16.6
	6H	15.7	16.3	16.2	16.7	17.3	15.3	15.8	15.8	16.3	16.8
	8H	15.8	16.3	16.3	16.8	17.4	15.4	15.9	15.9	16.4	17.0

Maximum UGR = 17.4

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POLAR GRAPH



Maximum Candela = 1667.214 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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