IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-927-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-L31-927-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	2505
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	2223	1639	1440
55	1807	1211	1019
65	1355	809	669
75	884	445	374
85	453	167	148

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1258.275	1258.275	1258.275	1258.275	1258.275
10	1208.652	1207.842	1202.394	1188.839	1190.595
20	1085.997	1076.701	1062.724	1049.363	1033.150
30	921.213	910.696	875.969	849.522	834.921
40	728.963	714.959	666.285	630.209	616.321
50	525.367	506.275	463.464	426.191	409.648
60	332.525	318.613	286.075	258.702	248.863
70	169.411	161.699	142.821	130.692	125.670
80	56.087	50.634	46.577	44.504	45.113
90	3.720	4.375	4.871	5.065	5.239
100	1.019	1.453	1.686	1.678	1.480
110	0.500	0.713	0.767	0.845	0.868
120	0.213	0.256	0.306	0.387	0.368
130	0.329	0.194	0.201	0.248	0.209
140	0.194	0.182	0.217	0.232	0.252
150	0.302	0.225	0.248	0.209	0.163
160	0.143	0.186	0.174	0.213	0.221
170	0.097	0.155	0.244	0.267	0.232
180	0.294	0.294	0.294	0.294	0.294

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	437.88	N.A.	17.50
0-30	887.01	N.A.	35.40
0-40	1373.73	N.A.	54.80
0-60	2152.36	N.A.	85.90
0-80	2470.36	N.A.	98.60
0-90	2499.15	N.A.	99.80
10-90	2381.84	N.A.	95.10
20-40	935.85	N.A.	37.40
20-50	1376.08	N.A.	54.90
40-70	994.13	N.A.	39.70
60-80	318.00	N.A.	12.70
70-80	102.49	N.A.	4.10
80-90	28.79	N.A.	1.10
90-110	4.59	N.A.	0.20
90-120	5.12	N.A.	0.20
90-130	5.36	N.A.	0.20
90-150	5.67	N.A.	0.20
90-180	5.85	N.A.	0.20
110-180	1.25	N.A.	0.00
0-180	2504.99	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.31
10-20	320.57
20-30	449.13
30-40	486.72
40-50	440.23
50-60	338.40
60-70	215.50
70-80	102.49
80-90	28.79
90-100	3.39
100-110	1.20
110-120	0.53
120-130	0.24
130-140	0.17
140-150	0.14
150-160	0.10
160-170	0.06
170-180	0.02

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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

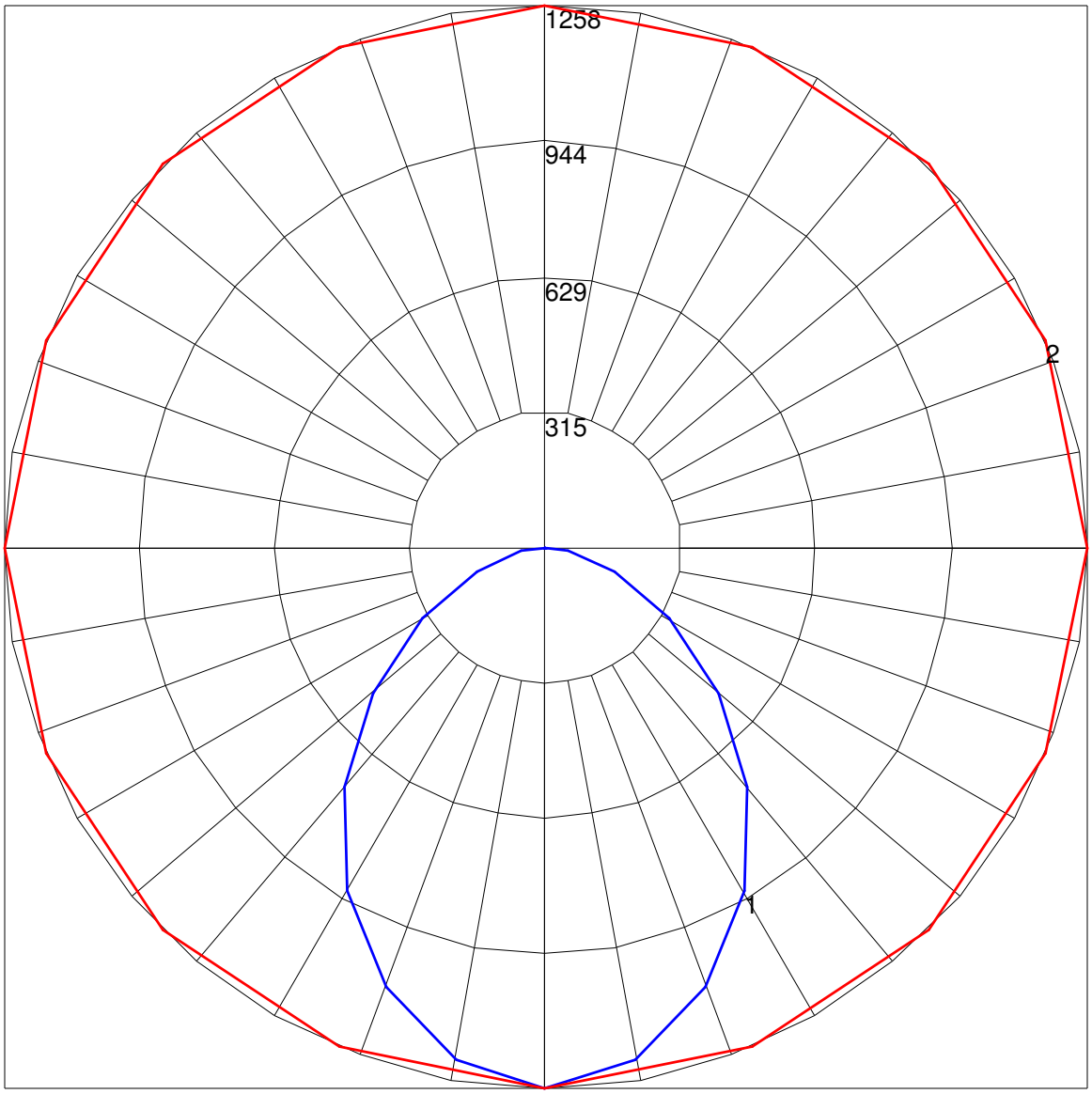
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.5	14.0	12.9	14.3	14.6	11.7	13.2	12.1	13.5	13.8
	3H	13.5	14.9	13.9	15.2	15.6	12.8	14.2	13.2	14.5	14.9
	4H	13.9	15.1	14.3	15.5	15.8	13.2	14.5	13.6	14.8	15.2
	6H	14.0	15.2	14.4	15.5	15.9	13.4	14.6	13.8	14.9	15.3
	8H	14.0	15.1	14.4	15.5	15.9	13.5	14.6	13.9	15.0	15.4
	12H	14.0	15.1	14.5	15.5	15.9	13.5	14.6	13.9	14.9	15.4
4H	2H	12.8	14.0	13.2	14.4	14.8	12.1	13.4	12.5	13.7	14.1
	3H	14.0	15.1	14.4	15.5	15.9	13.4	14.4	13.8	14.8	15.2
	4H	14.4	15.4	14.9	15.8	16.2	13.8	14.8	14.3	15.2	15.6
	6H	14.6	15.4	15.1	15.9	16.3	14.1	14.9	14.6	15.4	15.8
	8H	14.6	15.4	15.1	15.9	16.3	14.2	15.0	14.6	15.4	15.9
	12H	14.7	15.4	15.2	15.8	16.3	14.3	14.9	14.7	15.4	15.9
8H	4H	14.5	15.3	14.9	15.7	16.2	13.9	14.7	14.4	15.2	15.6
	6H	14.7	15.4	15.2	15.8	16.3	14.3	14.9	14.8	15.4	15.9
	8H	14.8	15.4	15.3	15.9	16.4	14.4	14.9	14.9	15.5	15.9
	12H	14.9	15.3	15.4	15.8	16.4	14.5	15.0	15.0	15.5	16.0
12H	4H	14.5	15.2	15.0	15.6	16.1	13.9	14.6	14.4	15.1	15.6
	6H	14.7	15.3	15.3	15.8	16.3	14.3	14.8	14.8	15.3	15.8
	8H	14.8	15.3	15.3	15.8	16.4	14.4	14.9	14.9	15.4	16.0

Maximum UGR = 16.4

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POLAR GRAPH



Maximum Candela = 1258.275 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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