IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-840-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-L31-840-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	3225
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	2862	2111	1854
55	2327	1559	1312
65	1744	1041	861
75	1138	573	481
85	583	215	190

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1620.029	1620.029	1620.029	1620.029	1620.029
10	1556.139	1555.097	1548.082	1530.630	1532.890
20	1398.221	1386.252	1368.257	1351.054	1330.180
30	1186.062	1172.521	1127.809	1093.759	1074.960
40	938.540	920.510	857.842	811.394	793.513
50	676.410	651.829	596.710	548.721	527.422
60	428.125	410.215	368.322	333.079	320.412
70	218.116	208.188	183.881	168.266	161.800
80	72.211	65.192	59.968	57.299	58.083
90	4.789	5.633	6.271	6.521	6.745
100	1.312	1.871	2.170	2.160	1.906
110	0.644	0.918	0.988	1.088	1.118
120	0.274	0.329	0.394	0.499	0.474
130	0.424	0.249	0.259	0.319	0.269
140	0.249	0.234	0.279	0.299	0.324
150	0.389	0.289	0.319	0.269	0.210
160	0.185	0.239	0.225	0.274	0.284
170	0.125	0.200	0.314	0.344	0.299
180	0.379	0.379	0.379	0.379	0.379

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	563.77	N.A.	17.50
0-30	1142.03	N.A.	35.40
0-40	1768.68	N.A.	54.80
0-60	2771.17	N.A.	85.90
0-80	3180.59	N.A.	98.60
0-90	3217.65	N.A.	99.80
10-90	3066.61	N.A.	95.10
20-40	1204.91	N.A.	37.40
20-50	1771.7	N.A.	54.90
40-70	1279.94	N.A.	39.70
60-80	409.42	N.A.	12.70
70-80	131.96	N.A.	4.10
80-90	37.07	N.A.	1.10
90-110	5.91	N.A.	0.20
90-120	6.59	N.A.	0.20
90-130	6.90	N.A.	0.20
90-150	7.30	N.A.	0.20
90-180	7.53	N.A.	0.20
110-180	1.62	N.A.	0.10
0-180	3225.18	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.04
10-20	412.73
20-30	578.25
30-40	626.66
40-50	566.79
50-60	435.69
60-70	277.46
70-80	131.96
80-90	37.07
90-100	4.36
100-110	1.55
110-120	0.68
120-130	0.31
130-140	0.22
140-150	0.18
150-160	0.12
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	56	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

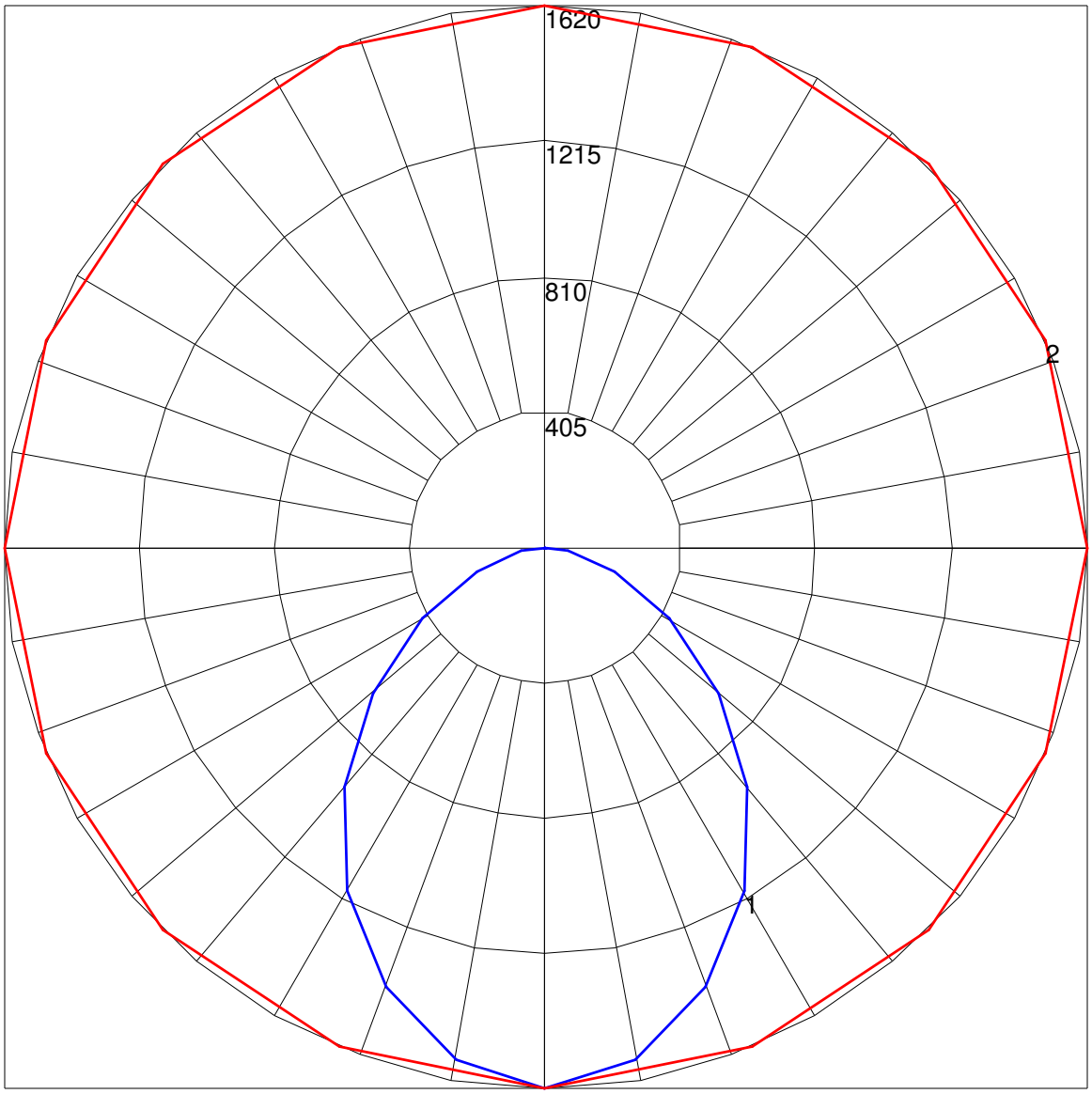
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.4	14.9	13.7	15.2	15.5	12.6	14.1	13.0	14.4	14.7
	3H	14.4	15.8	14.8	16.1	16.5	13.7	15.1	14.1	15.4	15.8
	4H	14.8	16.0	15.2	16.4	16.7	14.1	15.4	14.5	15.7	16.1
	6H	14.9	16.1	15.3	16.4	16.8	14.3	15.5	14.7	15.8	16.2
	8H	14.9	16.0	15.3	16.4	16.8	14.4	15.5	14.8	15.9	16.3
	12H	14.9	16.0	15.4	16.4	16.8	14.4	15.5	14.8	15.8	16.3
4H	2H	13.7	14.9	14.1	15.3	15.7	13.0	14.3	13.4	14.6	15.0
	3H	14.9	16.0	15.3	16.4	16.8	14.3	15.3	14.7	15.7	16.1
	4H	15.3	16.3	15.7	16.7	17.1	14.7	15.7	15.2	16.1	16.5
	6H	15.5	16.3	16.0	16.8	17.2	15.0	15.8	15.5	16.3	16.7
	8H	15.5	16.3	16.0	16.8	17.2	15.1	15.8	15.5	16.3	16.8
	12H	15.6	16.3	16.1	16.7	17.2	15.2	15.8	15.6	16.3	16.8
8H	4H	15.4	16.1	15.8	16.6	17.1	14.8	15.6	15.3	16.1	16.5
	6H	15.6	16.3	16.1	16.7	17.2	15.2	15.8	15.7	16.3	16.8
	8H	15.7	16.3	16.2	16.8	17.3	15.3	15.8	15.8	16.4	16.8
	12H	15.8	16.2	16.3	16.7	17.3	15.4	15.9	15.9	16.4	16.9
12H	4H	15.4	16.1	15.9	16.5	17.0	14.8	15.5	15.3	16.0	16.5
	6H	15.6	16.2	16.1	16.6	17.2	15.2	15.7	15.7	16.2	16.7
	8H	15.7	16.2	16.2	16.7	17.3	15.3	15.8	15.8	16.3	16.9

Maximum UGR = 17.3

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POLAR GRAPH



Maximum Candela = 1620.029 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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