IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-835-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-L68-835-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	6829
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	6059	4469	3926
55	4927	3300	2779
65	3693	2204	1823
75	2410	1213	1018
85	1235	456	403

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3430.099	3430.099	3430.099	3430.099	3430.099
10	3294.825	3292.617	3277.765	3240.815	3245.600
20	2960.463	2935.122	2897.020	2860.597	2816.400
30	2511.257	2482.588	2387.919	2315.824	2276.022
40	1987.177	1949.001	1816.315	1717.970	1680.111
50	1432.168	1380.123	1263.419	1161.810	1116.715
60	906.473	868.550	779.850	705.230	678.410
70	461.819	440.798	389.333	356.270	342.580
80	152.894	138.031	126.971	121.320	122.979
90	10.141	11.926	13.278	13.806	14.282
100	2.778	3.961	4.595	4.574	4.035
110	1.363	1.944	2.092	2.303	2.366
120	0.581	0.697	0.835	1.056	1.004
130	0.898	0.528	0.549	0.676	0.570
140	0.528	0.496	0.592	0.634	0.687
150	0.824	0.613	0.676	0.570	0.444
160	0.391	0.507	0.475	0.581	0.602
170	0.264	0.423	0.665	0.729	0.634
180	0.803	0.803	0.803	0.803	0.803

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1193.68	N.A.	17.50
0-30	2418.02	N.A.	35.40
0-40	3744.85	N.A.	54.80
0-60	5867.41	N.A.	85.90
0-80	6734.28	N.A.	98.60
0-90	6812.76	N.A.	99.80
10-90	6492.96	N.A.	95.10
20-40	2551.17	N.A.	37.40
20-50	3751.24	N.A.	54.90
40-70	2710.03	N.A.	39.70
60-80	866.87	N.A.	12.70
70-80	279.40	N.A.	4.10
80-90	78.49	N.A.	1.10
90-110	12.51	N.A.	0.20
90-120	13.95	N.A.	0.20
90-130	14.61	N.A.	0.20
90-150	15.45	N.A.	0.20
90-180	15.93	N.A.	0.20
110-180	3.42	N.A.	0.10
0-180	6828.7	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	319.80
10-20	873.88
20-30	1224.34
30-40	1326.83
40-50	1200.07
50-60	922.49
60-70	587.46
70-80	279.40
80-90	78.49
90-100	9.24
100-110	3.27
110-120	1.44
120-130	0.66
130-140	0.47
140-150	0.38
150-160	0.26
160-170	0.15
170-180	0.07

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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

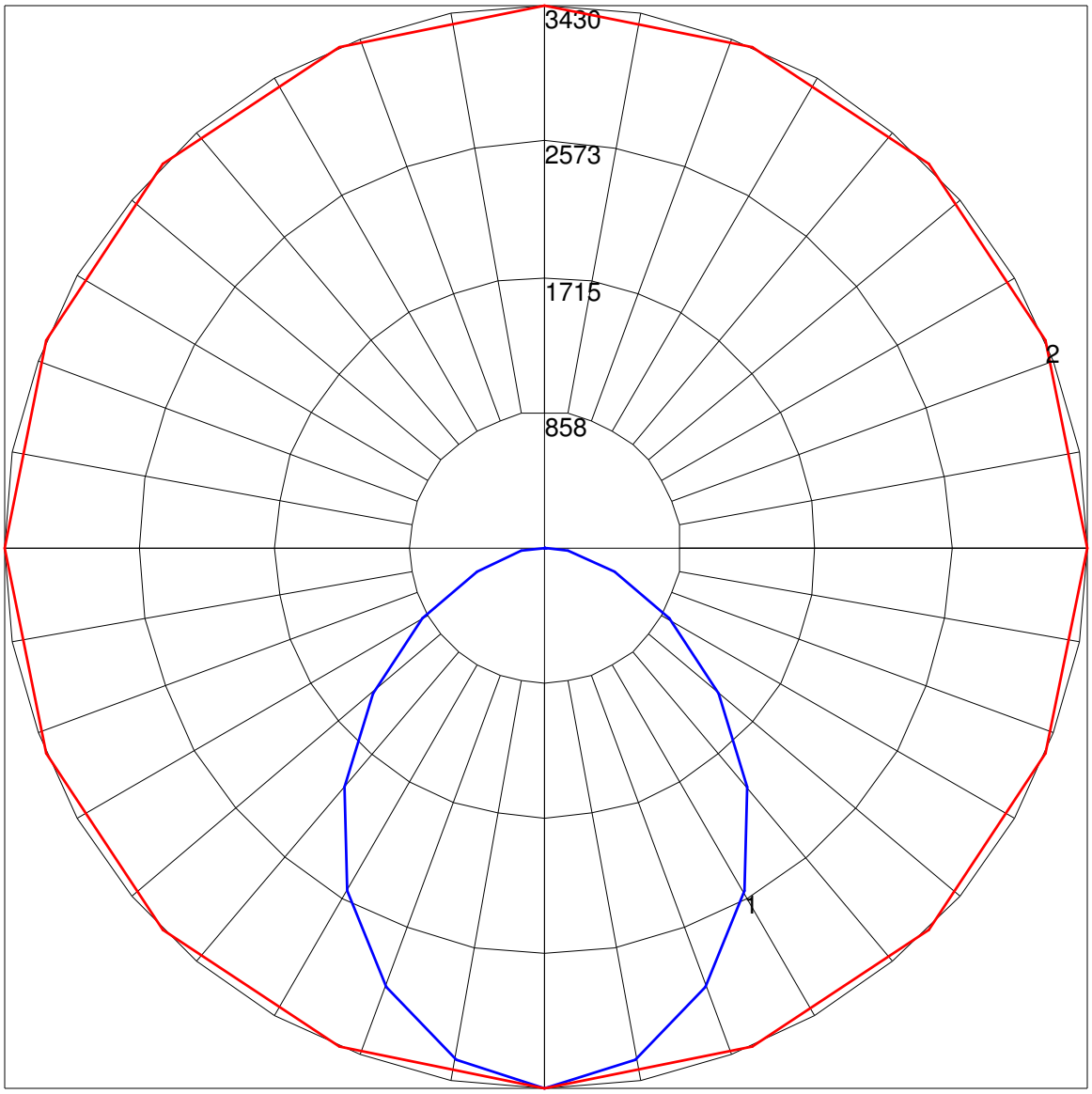
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.0	17.5	16.3	17.8	18.1	15.2	16.7	15.6	17.0	17.3
	3H	17.0	18.4	17.4	18.7	19.1	16.3	17.7	16.7	18.0	18.4
	4H	17.4	18.6	17.8	19.0	19.3	16.7	18.0	17.1	18.3	18.7
	6H	17.5	18.7	17.9	19.0	19.4	16.9	18.1	17.3	18.4	18.8
	8H	17.5	18.6	17.9	19.0	19.4	17.0	18.1	17.4	18.5	18.9
	12H	17.5	18.6	18.0	19.0	19.4	17.0	18.1	17.4	18.4	18.9
4H	2H	16.3	17.5	16.7	17.9	18.3	15.6	16.9	16.0	17.2	17.6
	3H	17.5	18.6	17.9	19.0	19.4	16.9	17.9	17.3	18.3	18.7
	4H	17.9	18.9	18.3	19.3	19.7	17.3	18.3	17.8	18.7	19.1
	6H	18.1	18.9	18.6	19.4	19.8	17.6	18.4	18.1	18.9	19.3
	8H	18.1	18.9	18.6	19.4	19.8	17.7	18.5	18.1	18.9	19.4
	12H	18.2	18.9	18.7	19.3	19.8	17.8	18.4	18.2	18.9	19.4
8H	4H	18.0	18.7	18.4	19.2	19.7	17.4	18.2	17.9	18.7	19.1
	6H	18.2	18.9	18.7	19.3	19.8	17.8	18.4	18.3	18.9	19.4
	8H	18.3	18.9	18.8	19.4	19.9	17.9	18.4	18.4	19.0	19.4
	12H	18.4	18.8	18.9	19.3	19.9	18.0	18.5	18.5	19.0	19.5
12H	4H	18.0	18.7	18.5	19.1	19.6	17.4	18.1	17.9	18.6	19.1
	6H	18.2	18.8	18.7	19.2	19.8	17.8	18.3	18.3	18.8	19.3
	8H	18.3	18.8	18.8	19.3	19.9	17.9	18.4	18.4	18.9	19.5

Maximum UGR = 19.9

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POLAR GRAPH



Maximum Candela = 3430.099 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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