



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-14-L79-835-SAF125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] GEN from Photopia 2017.0.4 see: www.ltiopics.com/ies

[ISSUEDATE] 13 Feb. 2020

[TESTDATE] Wed Jan 24 15:50:54 2018

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] MCTG-14-L79-835-SAF125-DIM-UNV

[LUMINAIRE] 1x4 LED CLEANROOM LUMINAIRE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7158
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	67.4
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	6351	4685	4116
55	5165	3459	2913
65	3871	2311	1911
75	2526	1272	1067
85	1295	478	423

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	3595.523	3595.523	3595.523	3595.523	3595.523
10	3453.725	3451.411	3435.842	3397.110	3402.126
20	3103.238	3076.674	3036.735	2998.556	2952.227
30	2632.367	2602.316	2503.082	2427.510	2385.788
40	2083.013	2042.996	1903.911	1800.823	1761.138
50	1501.238	1446.682	1324.350	1217.841	1170.571
60	950.189	910.438	817.460	739.242	711.128
70	484.091	462.056	408.110	373.452	359.102
80	160.268	144.688	133.095	127.171	128.909
90	10.630	12.501	13.918	14.472	14.970
100	2.912	4.152	4.817	4.795	4.230
110	1.428	2.037	2.192	2.414	2.480
120	0.609	0.731	0.875	1.107	1.052
130	0.941	0.554	0.576	0.709	0.598
140	0.554	0.520	0.620	0.664	0.720
150	0.864	0.642	0.709	0.598	0.465
160	0.410	0.531	0.498	0.609	0.631
170	0.277	0.443	0.698	0.764	0.664
180	0.842	0.842	0.842	0.842	0.842

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1251.24	N.A.	17.50
0-30	2534.63	N.A.	35.40
0-40	3925.45	N.A.	54.80
0-60	6150.38	N.A.	85.90
0-80	7059.05	N.A.	98.60
0-90	7141.32	N.A.	99.80
10-90	6806.1	N.A.	95.10
20-40	2674.21	N.A.	37.40
20-50	3932.16	N.A.	54.90
40-70	2840.73	N.A.	39.70
60-80	908.67	N.A.	12.70
70-80	292.88	N.A.	4.10
80-90	82.27	N.A.	1.10
90-110	13.12	N.A.	0.20
90-120	14.62	N.A.	0.20
90-130	15.31	N.A.	0.20
90-150	16.20	N.A.	0.20
90-180	16.70	N.A.	0.20
110-180	3.59	N.A.	0.10
0-180	7158.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	335.22
10-20	916.02
20-30	1283.39
30-40	1390.82
40-50	1257.95
50-60	966.98
60-70	615.80
70-80	292.88
80-90	82.27
90-100	9.69
100-110	3.43
110-120	1.51
120-130	0.69
130-140	0.49
140-150	0.40
150-160	0.28
160-170	0.16
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	236	236	236	236	230	230	230	230	220	220	220	210	210	210	202	202	202	198
1	218	210	202	195	213	205	198	192	197	191	186	189	185	180	182	178	175	171
2	200	186	174	164	195	182	171	162	175	166	158	169	161	154	163	157	151	147
3	185	166	151	139	180	163	149	138	157	145	136	151	142	133	146	138	131	127
4	170	149	133	121	166	146	131	120	141	128	118	137	126	117	132	123	115	111
5	158	134	118	106	154	132	117	105	128	114	104	124	112	103	121	110	102	98
6	146	122	106	94	143	120	105	93	117	103	93	113	101	92	110	99	91	87
7	136	111	95	84	133	110	95	84	107	93	83	104	92	82	101	90	82	78
8	128	102	87	76	125	101	86	75	98	85	75	96	84	75	94	83	74	71
9	120	95	79	69	117	93	79	69	91	78	68	89	77	68	87	76	68	64
10	112	88	73	63	110	87	72	63	85	72	63	83	71	62	81	70	62	59

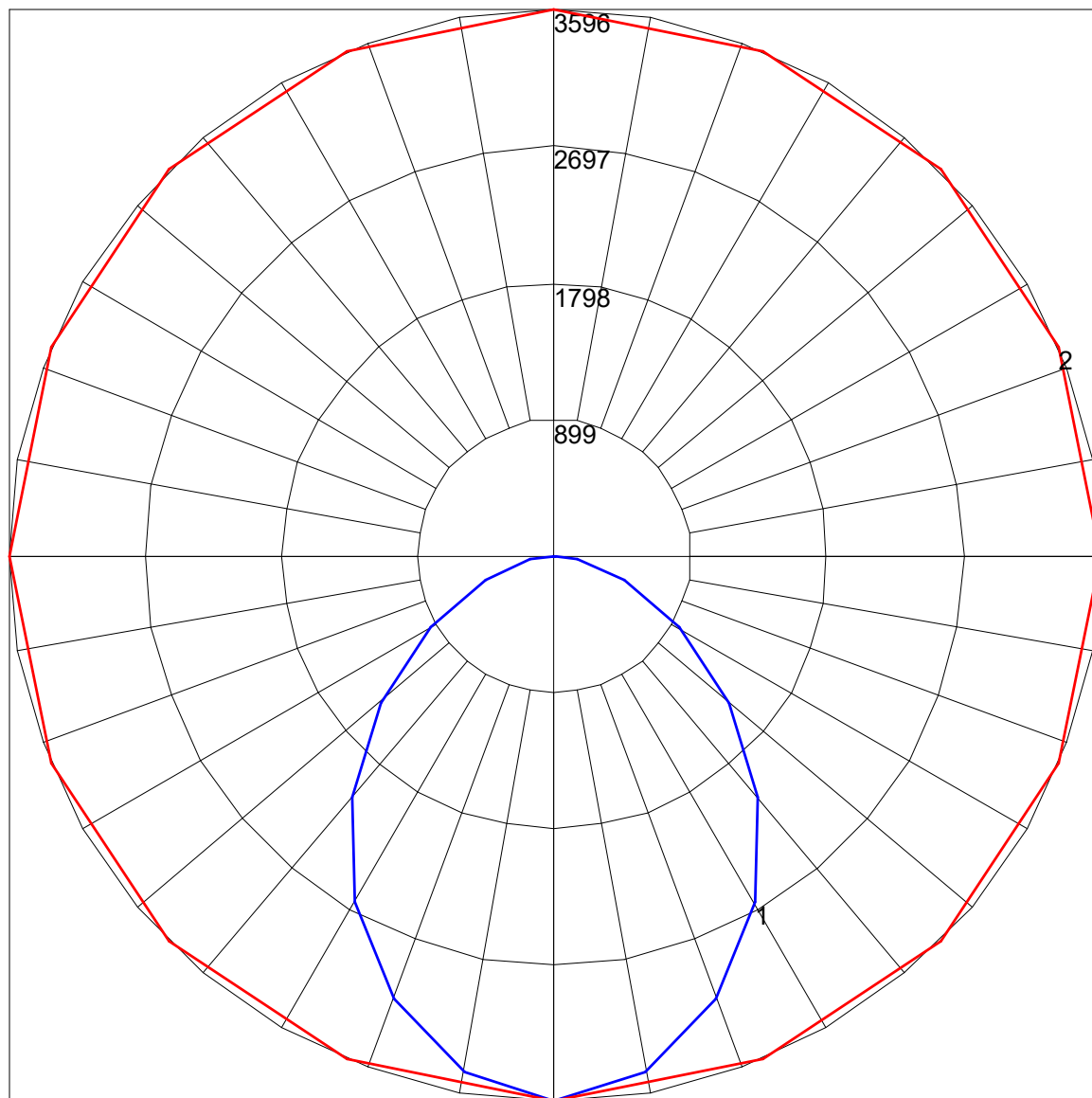
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UGR TABLE - CORRECTED

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	14.4	15.9	14.7	16.2	16.5	12.9	14.4	13.3	14.7	15.0
	3H	15.6	16.9	16.0	17.3	17.6	14.0	15.4	14.4	15.7	16.1
	4H	16.0	17.2	16.4	17.6	18.0	14.4	15.7	14.8	16.0	16.4
	6H	16.2	17.3	16.6	17.7	18.1	14.6	15.8	15.0	16.1	16.5
	8H	16.2	17.3	16.7	17.7	18.1	14.7	15.8	15.1	16.2	16.6
	12H	16.3	17.3	16.7	17.7	18.1	14.7	15.8	15.1	16.1	16.6
4H	2H	14.6	15.8	15.0	16.2	16.6	13.3	14.6	13.7	14.9	15.3
	3H	15.9	17.0	16.4	17.4	17.8	14.6	15.6	15.0	16.0	16.4
	4H	16.4	17.4	16.9	17.8	18.2	15.0	16.0	15.5	16.4	16.8
	6H	16.7	17.5	17.2	18.0	18.4	15.3	16.1	15.8	16.6	17.0
	8H	16.8	17.5	17.2	18.0	18.5	15.4	16.2	15.8	16.6	17.1
	12H	16.8	17.5	17.3	18.0	18.5	15.5	16.1	15.9	16.6	17.1
8H	4H	16.5	17.2	16.9	17.7	18.1	15.1	15.9	15.6	16.4	16.8
	6H	16.8	17.4	17.3	17.9	18.4	15.5	16.1	16.0	16.6	17.1
	8H	16.9	17.4	17.4	18.0	18.4	15.6	16.1	16.1	16.7	17.1
	12H	17.0	17.5	17.5	18.0	18.5	15.7	16.2	16.2	16.7	17.2
12H	4H	16.4	17.1	16.9	17.6	18.1	15.1	15.8	15.6	16.3	16.8
	6H	16.8	17.3	17.3	17.8	18.3	15.5	16.0	16.0	16.5	17.0
	8H	16.9	17.4	17.4	17.9	18.4	15.6	16.1	16.1	16.6	17.2

Maximum UGR = 18.5

POLAR GRAPH



Maximum Candela = 3595.523 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.)