



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-14-L29-AMB-L45-835-SAF125-DIM-UNV BOTH ON_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN from Photopia 2017.0.4 see: www.ltiopics.com/ies
 [ISSUEDATE] 13 MAY 2020
 [TESTDATE] Wed Jan 24 15:50:54 2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] MCTG-14-L12-AMB-L45-835-SAF125-DIM-UNV both on
 [LUMINAIRE] 1x4 LED CLEANROOM LUMINAIRE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7515
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	70.82
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	6668	4919	4321
55	5423	3632	3058
65	4064	2426	2006
75	2652	1335	1121
85	1360	502	444

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	3775.056	3775.056	3775.056	3775.056	3775.056
10	3626.177	3623.748	3607.402	3566.735	3572.002
20	3258.190	3230.300	3188.366	3148.281	3099.639
30	2763.808	2732.256	2628.066	2548.721	2504.915
40	2187.023	2145.008	1998.978	1890.742	1849.076
50	1576.198	1518.918	1390.478	1278.650	1229.020
60	997.634	955.898	858.277	776.154	746.636
70	508.263	485.128	428.488	392.099	377.032
80	168.270	151.913	139.741	133.521	135.346
90	11.161	13.125	14.613	15.195	15.718
100	3.058	4.360	5.057	5.034	4.441
110	1.500	2.139	2.302	2.534	2.604
120	0.639	0.767	0.918	1.163	1.104
130	0.988	0.581	0.605	0.744	0.628
140	0.581	0.546	0.651	0.698	0.756
150	0.907	0.674	0.744	0.628	0.488
160	0.430	0.558	0.523	0.639	0.663
170	0.291	0.465	0.732	0.802	0.698
180	0.884	0.884	0.884	0.884	0.884

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Zone	Lumens	%Lamp	%Fixt
0-20	1313.72	N.A.	17.50
0-30	2661.19	N.A.	35.40
0-40	4121.46	N.A.	54.80
0-60	6457.48	N.A.	85.90
0-80	7411.53	N.A.	98.60
0-90	7497.91	N.A.	99.80
10-90	7145.95	N.A.	95.10
20-40	2807.74	N.A.	37.40
20-50	4128.5	N.A.	54.90
40-70	2982.57	N.A.	39.70
60-80	954.05	N.A.	12.70
70-80	307.50	N.A.	4.10
80-90	86.38	N.A.	1.10
90-110	13.77	N.A.	0.20
90-120	15.35	N.A.	0.20
90-130	16.08	N.A.	0.20
90-150	17.01	N.A.	0.20
90-180	17.54	N.A.	0.20
110-180	3.77	N.A.	0.10
0-180	7515.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	351.96
10-20	961.76
20-30	1347.47
30-40	1460.26
40-50	1320.76
50-60	1015.26
60-70	646.54
70-80	307.50
80-90	86.38
90-100	10.17
100-110	3.60
110-120	1.58
120-130	0.72
130-140	0.51
140-150	0.42
150-160	0.29
160-170	0.17
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	156	156	156	156	152	152	152	152	146	146	146	139	139	139	134	134	134	131
1	144	139	134	130	141	136	131	127	130	127	123	125	122	120	121	118	116	113
2	133	123	115	109	130	121	113	107	116	110	105	112	107	102	108	104	100	97
3	122	110	100	92	119	108	99	92	104	96	90	100	94	88	97	92	87	84
4	113	99	88	80	110	97	87	79	94	85	78	91	83	77	88	81	76	74
5	105	89	78	70	102	88	77	70	85	76	69	82	74	68	80	73	67	65
6	97	81	70	62	95	80	69	62	77	68	61	75	67	61	73	66	60	58
7	90	74	63	56	88	73	63	55	71	62	55	69	61	55	67	60	54	52
8	85	68	57	50	83	67	57	50	65	56	50	64	55	49	62	55	49	47
9	79	63	52	46	77	62	52	46	60	52	45	59	51	45	58	50	45	43
10	75	58	48	42	73	57	48	42	56	47	41	55	47	41	54	46	41	39

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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

X=2H	Y=2H	15.3	16.8	15.6	17.1	17.4	UGR Viewed Endwise	14.5	16.0	14.9	16.3	16.6
	3H	16.3	17.7	16.7	18.0	18.4		15.6	17.0	16.0	17.3	17.7
	4H	16.7	17.9	17.1	18.3	18.6		16.0	17.3	16.4	17.6	18.0
	6H	16.8	18.0	17.2	18.3	18.7		16.2	17.4	16.6	17.7	18.1
	8H	16.8	17.9	17.2	18.3	18.7		16.3	17.4	16.7	17.8	18.2
	12H	16.8	17.9	17.3	18.3	18.7		16.3	17.4	16.7	17.7	18.2

4H	2H	15.6	16.8	16.0	17.2	17.6	14.9	16.2	15.3	16.5	16.9
	3H	16.8	17.9	17.2	18.3	18.7	16.2	17.2	16.6	17.6	18.0
	4H	17.2	18.2	17.7	18.6	19.0	16.6	17.6	17.1	18.0	18.4
	6H	17.4	18.2	17.9	18.7	19.1	16.9	17.7	17.4	18.2	18.6
	8H	17.4	18.2	17.9	18.7	19.1	17.0	17.8	17.4	18.2	18.7
	12H	17.5	18.2	18.0	18.6	19.1	17.1	17.7	17.5	18.2	18.7

8H	4H	17.3	18.1	17.7	18.5	19.0	16.7	17.5	17.2	18.0	18.4
	6H	17.5	18.2	18.0	18.6	19.1	17.1	17.7	17.6	18.2	18.7
	8H	17.6	18.2	18.1	18.7	19.2	17.2	17.7	17.7	18.3	18.7
	12H	17.7	18.1	18.2	18.6	19.2	17.3	17.8	17.8	18.3	18.8

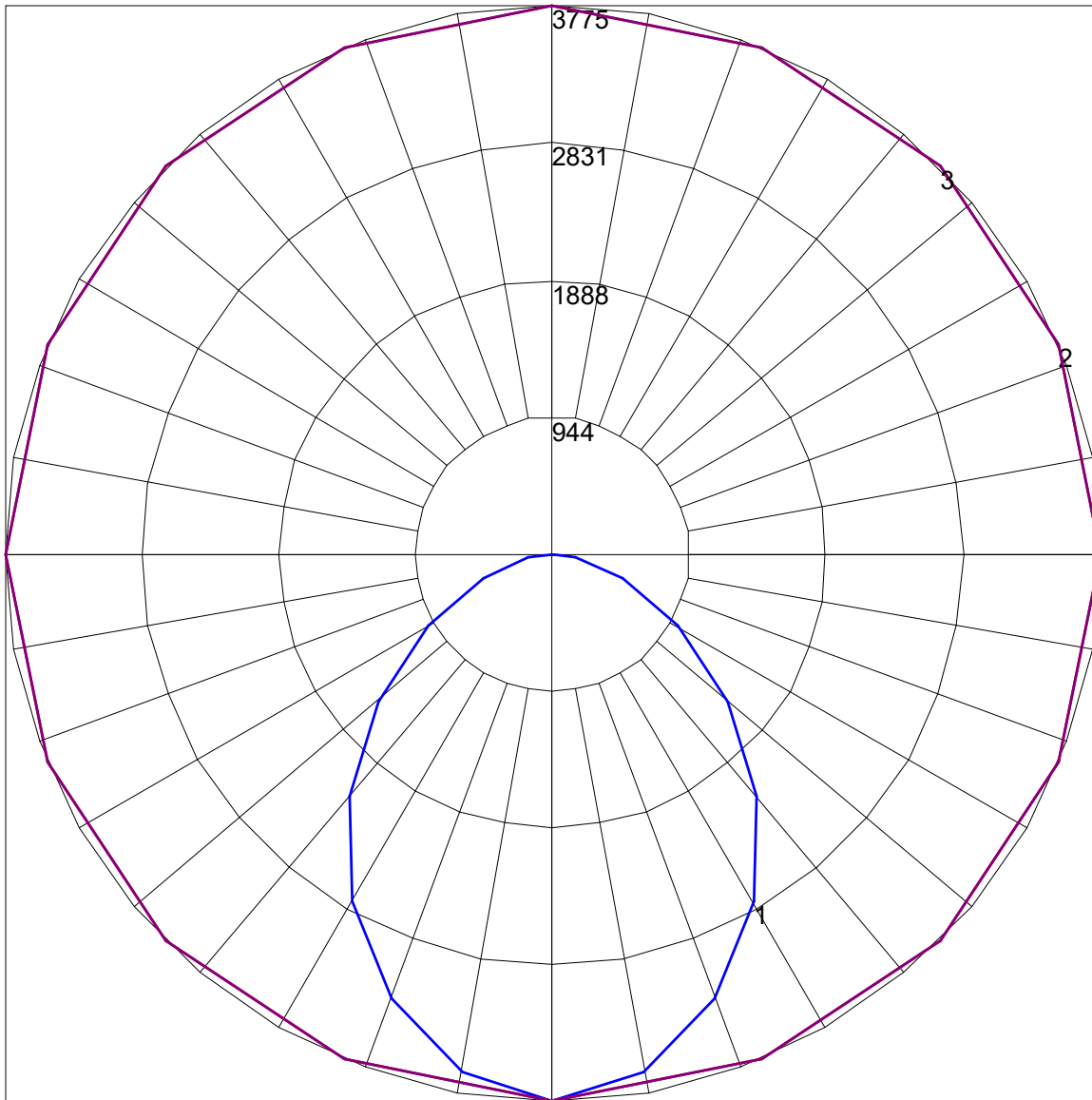
12H	4H	17.3	18.0	17.8	18.4	18.9	16.7	17.4	17.2	17.9	18.4
	6H	17.5	18.1	18.0	18.5	19.1	17.1	17.6	17.6	18.1	18.6
	8H	17.6	18.1	18.1	18.6	19.2	17.2	17.7	17.7	18.2	18.8

Maximum UGR = 19.2

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POLAR GRAPH



Maximum Candela = 3775.056 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.)

3 - Horizontal Cone Through Vertical Angle (0)