



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-14-L29-AMB-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

[ISSUE DATE] 17 FEB 2020

[TEST DATE] Wed Jan 24 15:50:54 2018

[TEST] MCT-14-L79-940

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] MCTG-14-L29 AMB-SAF125-DIM-UNV

[LUMINAIRE] 1x4 LED CLEANROOM LUMINAIRE

[LAMP] LED 22" 56 AMBER linear LED module

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2970
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	32.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.18
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	2627	1953	1712
55	2140	1433	1216
65	1610	956	798
75	1052	527	443
85	527	201	171

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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	1473.411	1473.411	1473.411	1473.411	1473.411
10	1406.940	1438.835	1422.115	1417.121	1391.207
20	1284.619	1273.981	1262.584	1241.454	1245.635
30	1092.250	1072.914	1037.606	1008.766	990.582
40	859.919	842.476	797.162	749.013	730.618
50	622.740	605.068	548.384	508.111	488.591
60	393.244	377.584	338.911	307.501	296.835
70	203.290	189.899	168.239	155.250	150.119
80	65.099	60.690	56.199	52.393	52.329
90	4.445	5.269	5.607	6.028	5.909
100	1.043	1.903	2.003	1.921	1.701
110	0.777	0.906	0.970	1.171	0.896
120	0.293	0.302	0.412	0.402	0.457
130	0.265	0.238	0.220	0.265	0.274
140	0.265	0.284	0.210	0.265	0.265
150	0.220	0.256	0.247	0.265	0.210
160	0.220	0.329	0.274	0.274	0.229
170	0.174	0.375	0.247	0.192	0.329
180	0.210	0.210	0.210	0.210	0.210

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	517.92	N.A.	17.40
0-30	1050.44	N.A.	35.40
0-40	1627.17	N.A.	54.80
0-60	2552.21	N.A.	85.90
0-80	2929.11	N.A.	98.60
0-90	2963.22	N.A.	99.80
10-90	2825.16	N.A.	95.10
20-40	1109.25	N.A.	37.30
20-50	1632.11	N.A.	54.90
40-70	1180.53	N.A.	39.70
60-80	376.90	N.A.	12.70
70-80	121.41	N.A.	4.10
80-90	34.11	N.A.	1.10
90-110	5.46	N.A.	0.20
90-120	6.13	N.A.	0.20
90-130	6.40	N.A.	0.20
90-150	6.76	N.A.	0.20
90-180	6.98	N.A.	0.20
110-180	1.52	N.A.	0.10
0-180	2970.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.06
10-20	379.86
20-30	532.52
30-40	576.74
40-50	522.86
50-60	402.18
60-70	255.49
70-80	121.41
80-90	34.11
90-100	3.99
100-110	1.47
110-120	0.67
120-130	0.28
130-140	0.20
140-150	0.16
150-160	0.12
160-170	0.08
170-180	0.02

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MCTG-14-L29-AMB-SAF125-DIM-UNV_.IES****COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	72	72	72	72	71	71	71	71	67	67	67	65	65	65	62	62	62	61
1	67	64	62	60	65	63	61	59	60	59	57	58	57	55	56	55	54	52
2	62	57	53	50	60	56	53	50	54	51	48	52	49	47	50	48	46	45
3	57	51	46	43	55	50	46	42	48	45	42	46	43	41	45	42	40	39
4	52	46	41	37	51	45	40	37	43	39	36	42	39	36	41	38	35	34
5	48	41	36	32	47	41	36	32	39	35	32	38	34	32	37	34	31	30
6	45	37	32	29	44	37	32	29	36	32	28	35	31	28	34	30	28	27
7	42	34	29	26	41	34	29	26	33	29	25	32	28	25	31	28	25	24
8	39	31	27	23	38	31	26	23	30	26	23	29	26	23	29	25	23	22
9	37	29	24	21	36	29	24	21	28	24	21	27	24	21	27	23	21	20
10	34	27	22	19	34	27	22	19	26	22	19	25	22	19	25	21	19	18

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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

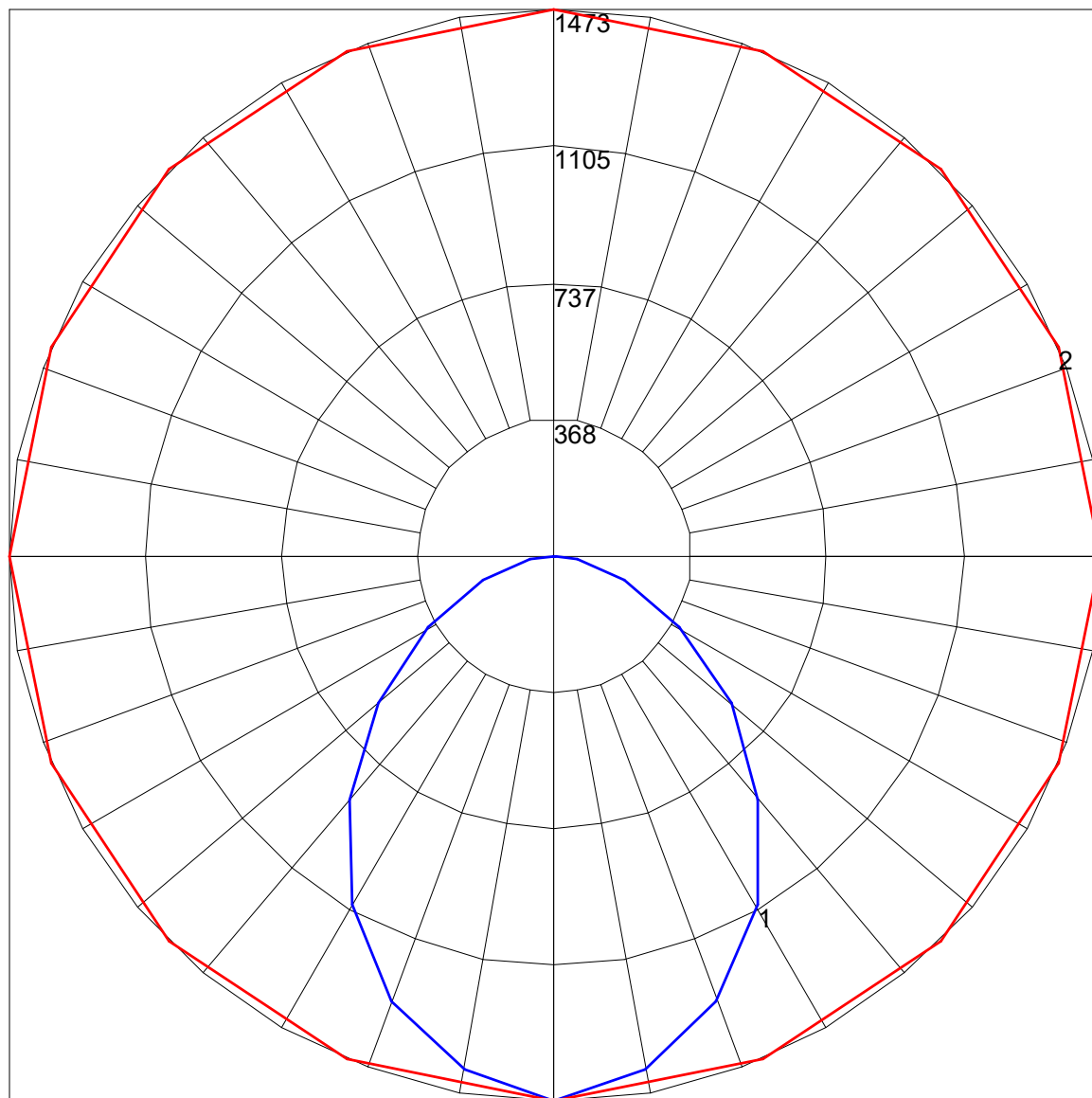
X=2H	Y=2H	15.5	17.0	15.8	17.3	17.6	14.0	15.5	14.4	15.8	16.1
	3H	16.7	18.0	17.1	18.4	18.7	15.1	16.5	15.5	16.8	17.2
	4H	17.1	18.3	17.5	18.7	19.1	15.5	16.8	15.9	17.1	17.5
	6H	17.3	18.5	17.7	18.8	19.2	15.7	16.9	16.1	17.3	17.6
	8H	17.3	18.4	17.8	18.8	19.2	15.8	16.9	16.2	17.3	17.7
	12H	17.4	18.4	17.8	18.8	19.2	15.8	16.9	16.2	17.2	17.7

UGR Viewed Endwise

4H	2H	15.7	16.9	16.1	17.3	17.7	14.4	15.7	14.8	16.0	16.4
	3H	17.0	18.1	17.5	18.5	18.9	15.7	16.8	16.1	17.2	17.6
	4H	17.5	18.5	18.0	18.9	19.3	16.2	17.1	16.6	17.5	17.9
	6H	17.8	18.6	18.3	19.1	19.5	16.4	17.2	16.9	17.7	18.1
	8H	17.9	18.6	18.3	19.1	19.6	16.5	17.3	17.0	17.7	18.2
	12H	17.9	18.6	18.4	19.1	19.6	16.6	17.2	17.0	17.7	18.2
8H	4H	17.6	18.3	18.0	18.8	19.2	16.3	17.0	16.7	17.5	17.9
	6H	17.9	18.5	18.4	19.0	19.5	16.6	17.2	17.1	17.7	18.2
	8H	18.0	18.5	18.5	19.1	19.5	16.7	17.2	17.2	17.8	18.2
	12H	18.1	18.6	18.6	19.1	19.6	16.8	17.3	17.3	17.8	18.3
12H	4H	17.5	18.2	18.0	18.7	19.2	16.2	16.9	16.7	17.4	17.9
	6H	17.9	18.4	18.4	18.9	19.4	16.6	17.1	17.1	17.6	18.1
	8H	18.0	18.5	18.5	19.0	19.5	16.7	17.2	17.2	17.7	18.3

Maximum UGR = 19.6

POLAR GRAPH



Maximum Candela = 1473.411 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.)