

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P642305

Luminaire Tested: ML5612LSWW97FS1E - 592W WW - 600LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-116)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWW97FS1E - 592W WW - 600LM - 5000K  
Description: ML56 RR, WW OPTIC, 5" WW INSERT WITH WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 607.6 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.13 / 1.23  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

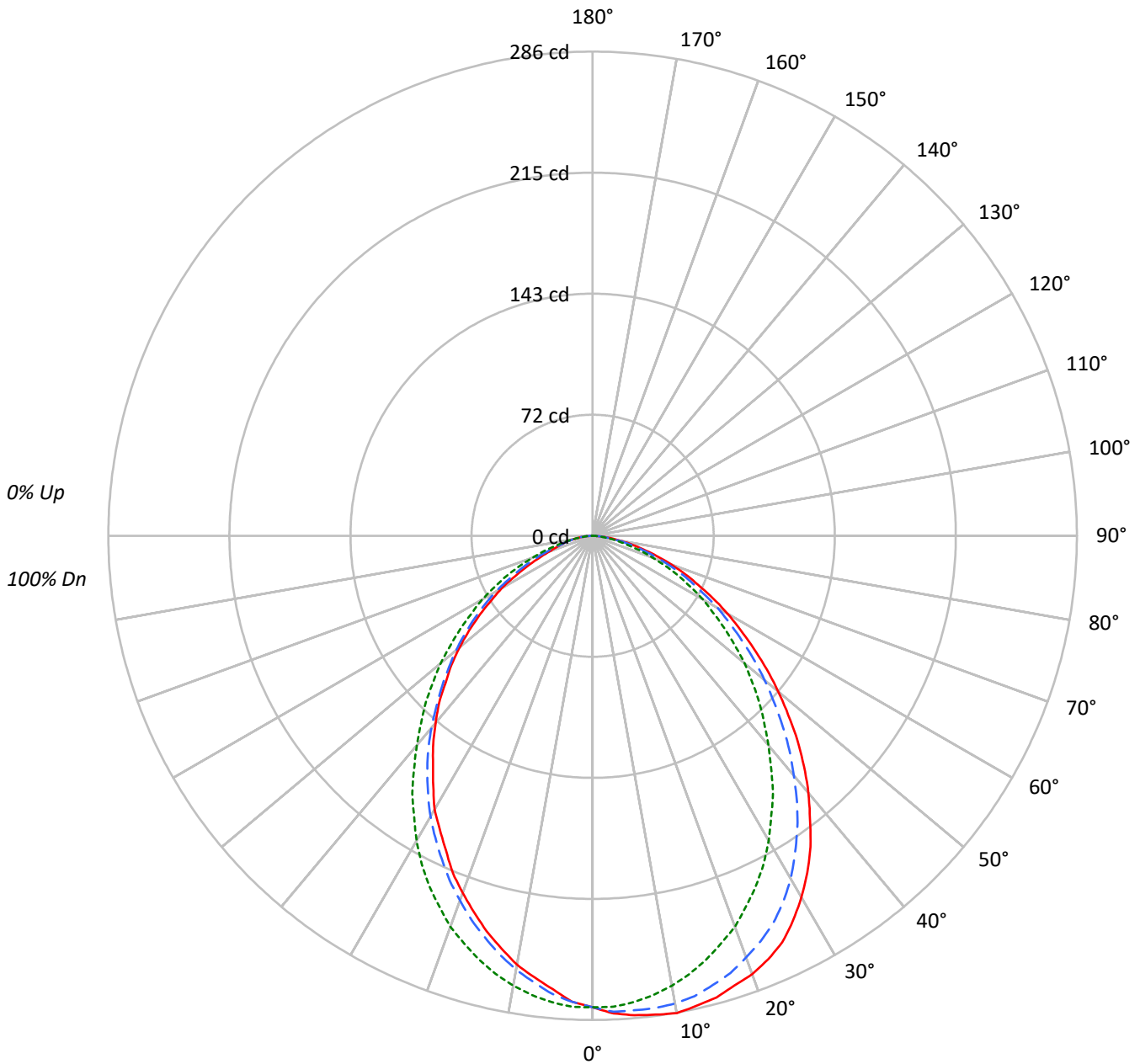
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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	50	30	10	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86	86	86	86	86		
	2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74	74	74	74	74	74		
	3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	64	64	64	64	64		
	4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55	55	55	55	55	55		
	5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49	49	49	49	49	49		
	6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43	43	43	43	43	43		
	7	68	56	47	41	67	55	47	41	53	46	41	52	45	41	51	45	40	39	39	39	39	39	39		
	8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35	35	35	35	35	35		
	9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	32	32	32	32	32	32		
	10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29	29	29	29	29	29		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	21985	21985	21985	21985	21985
5°	22529	22299	21918	21538	21308
10°	22949	22485	21627	20857	20625
15°	23079	22450	21183	20080	19761
20°	23152	22262	20641	19254	18851
25°	23082	21984	19877	18361	17856
30°	22478	21330	18951	17456	17018
35°	21625	20315	17896	16402	15843
40°	20435	19033	16643	15251	14850
45°	19113	17706	15551	14033	13709
50°	17574	16272	14369	12944	12588
55°	15979	14781	13047	11712	11175
60°	14509	13436	11904	10389	9773
65°	12832	11917	10479	8854	7957
70°	11379	10271	8701	7132	6255
75°	9425	8540	6771	5612	5612
80°	7455	6592	5273	4819	4819
85°	4348	4348	3532	4348	4348

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19113 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.2	4.3
10°-20°	73.4	12.1
20°-30°	106.4	17.5
30°-40°	118.7	19.5
40°-50°	110.1	18.1
50°-60°	86.6	14.2
60°-70°	55.4	9.1
70°-80°	25.4	4.2
80°-90°	5.5	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	206.0	33.9
0°-40°	324.7	53.4
0°-60°	521.4	85.8
0°-90°	607.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	607.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	278	278	278	278	278	
5°	284	281	277	272	269	27
15°	282	275	259	246	242	80
25°	265	252	228	211	205	121
35°	224	211	186	170	164	140
45°	171	159	139	126	123	132
55°	116	107	95	85	81	104
65°	69	64	56	47	43	69
75°	31	28	22	18	18	33
85°	5	5	4	5	5	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5
2.5°	282.4	282.4	282.4	282.4	282.4	282.4	281.4	281.4	281.4	281.4	281.4
5°	284.3	284.3	284.3	284.3	283.4	283.4	283.4	283.4	282.4	282.4	281.4
7.5°	285.3	285.3	285.3	284.3	284.3	284.3	283.4	283.4	283.4	282.4	281.4
10°	286.3	285.3	285.3	284.3	284.3	284.3	283.4	283.4	282.4	281.4	280.5
12.5°	284.3	284.3	284.3	284.3	283.4	283.4	282.4	281.4	280.5	279.5	278.5
15°	282.4	282.4	282.4	281.4	280.5	280.5	279.5	278.5	277.6	276.6	274.7
17.5°	278.5	279.5	278.5	278.5	277.6	277.6	276.6	275.6	273.7	272.7	270.8
20°	275.6	274.7	274.7	274.7	273.7	272.7	271.8	270.8	268.9	267.9	265.0
22.5°	270.8	270.8	269.8	268.9	267.9	267.9	266.9	265.0	264.0	262.1	259.2
25°	265.0	264.0	264.0	263.1	262.1	262.1	260.2	259.2	257.3	254.4	252.4
27.5°	256.3	256.3	256.3	255.3	254.4	253.4	252.4	250.5	249.5	245.7	243.7
30°	246.6	246.6	245.7	245.7	243.7	243.7	242.7	240.8	238.9	236.0	234.0
32.5°	236.0	236.0	236.0	234.0	233.1	232.1	231.1	230.2	227.3	224.4	222.4
35°	224.4	224.4	223.4	222.4	221.5	220.5	219.5	217.6	215.7	213.7	210.8
37.5°	210.8	211.8	210.8	209.9	208.9	207.9	207.0	206.0	203.1	201.2	198.3
40°	198.3	198.3	197.3	196.3	195.4	195.4	194.4	192.5	190.5	187.6	184.7
42.5°	184.7	184.7	183.8	182.8	182.8	181.8	179.9	178.9	177.0	175.1	172.1
45°	171.2	170.2	169.2	169.2	168.3	167.3	167.3	165.4	163.4	160.5	158.6
47.5°	156.7	156.7	155.7	155.7	154.7	153.8	153.8	151.8	148.9	147.0	145.1
50°	143.1	143.1	142.2	142.2	141.2	140.2	139.3	138.3	136.4	134.4	132.5
52.5°	129.6	129.6	129.6	127.7	126.7	126.7	126.7	124.8	123.8	121.9	119.9
55°	116.1	116.1	116.1	115.1	114.1	114.1	114.1	112.2	111.2	109.3	107.4
57.5°	103.5	103.5	103.5	102.5	102.5	101.5	100.6	99.6	98.6	97.7	95.7
60°	91.9	91.9	90.9	89.9	90.9	89.9	89.0	88.0	87.0	86.1	85.1
62.5°	80.3	80.3	80.3	79.3	78.3	78.3	78.3	77.4	75.4	74.5	73.5
65°	68.7	68.7	68.7	68.7	67.7	67.7	66.7	65.8	65.8	64.8	63.8
67.5°	59.0	59.0	58.0	58.0	57.1	57.1	57.1	56.1	55.1	55.1	54.2
70°	49.3	48.4	48.4	48.4	47.4	47.4	47.4	46.4	46.4	45.5	44.5
72.5°	39.7	39.7	39.7	39.7	38.7	38.7	37.7	37.7	36.8	36.8	35.8
75°	30.9	30.9	30.9	30.9	30.0	30.0	30.0	30.0	29.0	29.0	28.0
77.5°	23.2	23.2	23.2	23.2	23.2	23.2	22.2	22.2	22.2	21.3	21.3
80°	16.4	16.4	16.4	16.4	15.5	15.5	15.5	15.5	15.5	14.5	14.5
82.5°	10.6	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	8.7
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5
2.5°	280.5	280.5	280.5	280.5	279.5	279.5	279.5	278.5	278.5	278.5	278.5
5°	281.4	281.4	279.5	279.5	279.5	279.5	278.5	278.5	277.6	276.6	275.6
7.5°	280.5	280.5	279.5	278.5	277.6	277.6	276.6	275.6	274.7	273.7	272.7
10°	279.5	278.5	277.6	276.6	275.6	274.7	273.7	272.7	270.8	269.8	268.9
12.5°	277.6	275.6	274.7	272.7	272.7	271.8	269.8	268.9	266.9	265.0	264.0
15°	273.7	271.8	269.8	267.9	267.9	266.0	264.0	263.1	261.1	259.2	257.3
17.5°	268.9	266.9	265.0	263.1	262.1	260.2	258.2	256.3	254.4	252.4	250.5
20°	264.0	261.1	259.2	256.3	255.3	254.4	251.5	249.5	247.6	245.7	242.7
22.5°	257.3	255.3	251.5	249.5	248.6	246.6	244.7	241.8	238.9	236.9	235.0
25°	249.5	247.6	244.7	241.8	239.8	238.9	236.0	233.1	231.1	228.2	226.3
27.5°	240.8	237.9	236.0	232.1	231.1	229.2	226.3	223.4	221.5	218.6	215.7
30°	231.1	228.2	225.3	222.4	220.5	219.5	216.6	213.7	210.8	207.9	206.0
32.5°	219.5	216.6	213.7	211.8	208.9	207.0	205.0	202.1	199.2	196.3	194.4
35°	207.9	205.0	202.1	199.2	197.3	197.3	193.4	190.5	187.6	185.7	182.8
37.5°	195.4	192.5	189.6	186.7	185.7	183.8	180.9	178.0	176.0	173.1	171.2
40°	182.8	178.9	177.0	174.1	173.1	171.2	169.2	166.3	164.4	161.5	159.6
42.5°	169.2	167.3	164.4	162.5	160.5	159.6	156.7	153.8	151.8	149.9	148.9
45°	156.7	153.8	150.9	148.9	148.0	146.0	145.1	142.2	140.2	139.3	137.3
47.5°	143.1	141.2	139.3	136.4	135.4	134.4	132.5	131.5	129.6	127.7	125.7
50°	130.6	128.6	126.7	124.8	123.8	123.8	120.9	119.0	118.0	117.0	115.1
52.5°	118.0	116.1	114.1	112.2	112.2	111.2	109.3	108.3	107.4	105.4	103.5
55°	106.4	104.4	102.5	101.5	100.6	100.6	98.6	97.7	95.7	94.8	93.8
57.5°	94.8	92.8	91.9	90.9	89.9	89.9	88.0	87.0	86.1	84.1	84.1
60°	84.1	82.2	81.2	80.3	79.3	78.3	78.3	76.4	75.4	75.4	73.5
62.5°	72.5	71.6	70.6	69.6	68.7	68.7	67.7	66.7	65.8	64.8	63.8
65°	62.9	61.9	60.9	60.0	59.0	59.0	58.0	57.1	56.1	56.1	54.2
67.5°	53.2	52.2	51.3	50.3	50.3	49.3	48.4	48.4	47.4	46.4	45.5
70°	43.5	43.5	42.6	41.6	41.6	40.6	39.7	39.7	38.7	37.7	36.8
72.5°	35.8	34.8	33.8	33.8	32.9	32.9	31.9	31.9	30.9	30.0	29.0
75°	27.1	26.1	26.1	26.1	25.1	25.1	25.1	24.2	23.2	22.2	22.2
77.5°	20.3	20.3	19.3	18.4	18.4	18.4	17.4	17.4	17.4	16.4	16.4
80°	14.5	13.5	13.5	12.6	12.6	12.6	12.6	11.6	11.6	11.6	10.6
82.5°	8.7	8.7	8.7	7.7	7.7	7.7	7.7	7.7	6.8	6.8	6.8
85°	4.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5
2.5°	277.6	277.6	276.6	276.6	276.6	276.6	276.6	275.6	275.6	275.6	275.6
5°	275.6	274.7	273.7	273.7	273.7	272.7	272.7	271.8	271.8	270.8	270.8
7.5°	271.8	270.8	269.8	269.8	268.9	268.9	266.9	266.9	266.0	265.0	265.0
10°	266.9	266.0	265.0	264.0	264.0	262.1	262.1	261.1	260.2	259.2	259.2
12.5°	262.1	261.1	259.2	258.2	258.2	257.3	255.3	254.4	253.4	252.4	251.5
15°	255.3	254.4	252.4	251.5	250.5	249.5	248.6	247.6	245.7	244.7	244.7
17.5°	248.6	247.6	244.7	243.7	243.7	241.8	240.8	238.9	237.9	236.9	236.0
20°	240.8	238.9	236.9	236.0	235.0	233.1	232.1	231.1	229.2	228.2	227.3
22.5°	232.1	230.2	228.2	227.3	226.3	224.4	223.4	221.5	220.5	219.5	218.6
25°	223.4	221.5	219.5	218.6	216.6	215.7	213.7	211.8	210.8	209.9	208.9
27.5°	213.7	211.8	208.9	207.9	207.0	206.0	204.1	202.1	201.2	199.2	199.2
30°	203.1	201.2	199.2	198.3	197.3	195.4	194.4	192.5	191.5	189.6	189.6
32.5°	192.5	189.6	187.6	186.7	185.7	184.7	182.8	181.8	180.9	179.9	178.9
35°	180.9	178.9	177.0	176.0	175.1	173.1	172.1	171.2	170.2	168.3	168.3
37.5°	169.2	167.3	165.4	164.4	164.4	162.5	161.5	159.6	159.6	157.6	157.6
40°	157.6	155.7	153.8	153.8	152.8	150.9	149.9	148.9	148.0	147.0	147.0
42.5°	147.0	144.1	143.1	143.1	141.2	140.2	139.3	138.3	136.4	136.4	136.4
45°	135.4	133.5	132.5	131.5	130.6	129.6	128.6	126.7	125.7	124.8	124.8
47.5°	124.8	122.8	121.9	120.9	119.9	119.0	118.0	117.0	115.1	115.1	114.1
50°	114.1	112.2	111.2	110.3	109.3	108.3	107.4	106.4	105.4	104.4	103.5
52.5°	102.5	101.5	100.6	99.6	99.6	97.7	96.7	95.7	94.8	94.8	92.8
55°	92.8	91.9	90.9	89.9	89.0	88.0	87.0	86.1	85.1	84.1	83.2
57.5°	82.2	81.2	80.3	80.3	79.3	78.3	77.4	76.4	75.4	74.5	73.5
60°	72.5	71.6	70.6	70.6	69.6	68.7	67.7	67.7	65.8	64.8	63.8
62.5°	62.9	61.9	60.9	60.9	60.0	60.0	59.0	58.0	56.1	56.1	55.1
65°	54.2	53.2	52.2	51.3	51.3	50.3	49.3	48.4	47.4	47.4	46.4
67.5°	45.5	44.5	43.5	43.5	42.6	41.6	40.6	39.7	38.7	38.7	37.7
70°	36.8	35.8	34.8	34.8	33.8	32.9	32.9	31.9	30.9	30.0	30.0
72.5°	28.0	28.0	27.1	27.1	26.1	26.1	25.1	24.2	24.2	23.2	22.2
75°	21.3	21.3	20.3	20.3	19.3	19.3	18.4	18.4	18.4	17.4	18.4
77.5°	15.5	15.5	14.5	14.5	14.5	13.5	13.5	13.5	14.5	14.5	14.5
80°	10.6	10.6	10.6	10.6	9.7	9.7	10.6	10.6	10.6	10.6	10.6
82.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.7	7.7	7.7
85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.8	4.8	4.8	4.8
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P642305

CATALOG NUMBER: ML5612LSWW97FS1E - 592W WW - 600LM - 5000K

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5
2.5°	274.7	274.7	274.7	274.7	274.7	274.7	274.7	275.6
5°	269.8	269.8	269.8	269.8	269.8	269.8	269.8	268.9
7.5°	265.0	264.0	264.0	264.0	264.0	263.1	263.1	263.1
10°	258.2	258.2	257.3	257.3	257.3	257.3	256.3	257.3
12.5°	251.5	250.5	250.5	250.5	249.5	249.5	249.5	249.5
15°	243.7	242.7	242.7	242.7	241.8	241.8	241.8	241.8
17.5°	235.0	235.0	234.0	234.0	233.1	233.1	233.1	233.1
20°	226.3	226.3	226.3	225.3	225.3	225.3	224.4	224.4
22.5°	217.6	216.6	215.7	216.6	215.7	214.7	215.7	215.7
25°	207.9	207.0	206.0	206.0	206.0	206.0	205.0	205.0
27.5°	198.3	196.3	196.3	196.3	196.3	195.4	195.4	195.4
30°	188.6	187.6	187.6	186.7	185.7	185.7	185.7	186.7
32.5°	178.0	177.0	176.0	176.0	176.0	176.0	175.1	175.1
35°	167.3	167.3	166.3	166.3	166.3	165.4	165.4	164.4
37.5°	156.7	156.7	155.7	155.7	155.7	154.7	154.7	154.7
40°	146.0	145.1	145.1	146.0	145.1	145.1	144.1	144.1
42.5°	135.4	135.4	134.4	134.4	134.4	134.4	133.5	134.4
45°	123.8	123.8	123.8	123.8	123.8	123.8	122.8	122.8
47.5°	114.1	113.2	113.2	113.2	113.2	113.2	113.2	113.2
50°	103.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5
52.5°	92.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
55°	83.2	82.2	82.2	81.2	82.2	81.2	81.2	81.2
57.5°	73.5	72.5	71.6	72.5	71.6	71.6	71.6	70.6
60°	63.8	62.9	62.9	62.9	61.9	60.9	60.9	61.9
62.5°	54.2	54.2	53.2	53.2	52.2	51.3	51.3	51.3
65°	45.5	44.5	44.5	43.5	43.5	42.6	42.6	42.6
67.5°	36.8	36.8	35.8	35.8	34.8	34.8	34.8	33.8
70°	29.0	29.0	28.0	28.0	28.0	27.1	27.1	27.1
72.5°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
75°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
77.5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	15.5
80°	10.6	10.6	11.6	10.6	11.6	10.6	10.6	10.6
82.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180°    - - 45°-225°    - - - 90°-270°

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(END OF REPORT)