

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: P642310

Luminaire Tested: ML5612LSWW97FS1E - 592W WW - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642310  
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 - 900LM - 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**

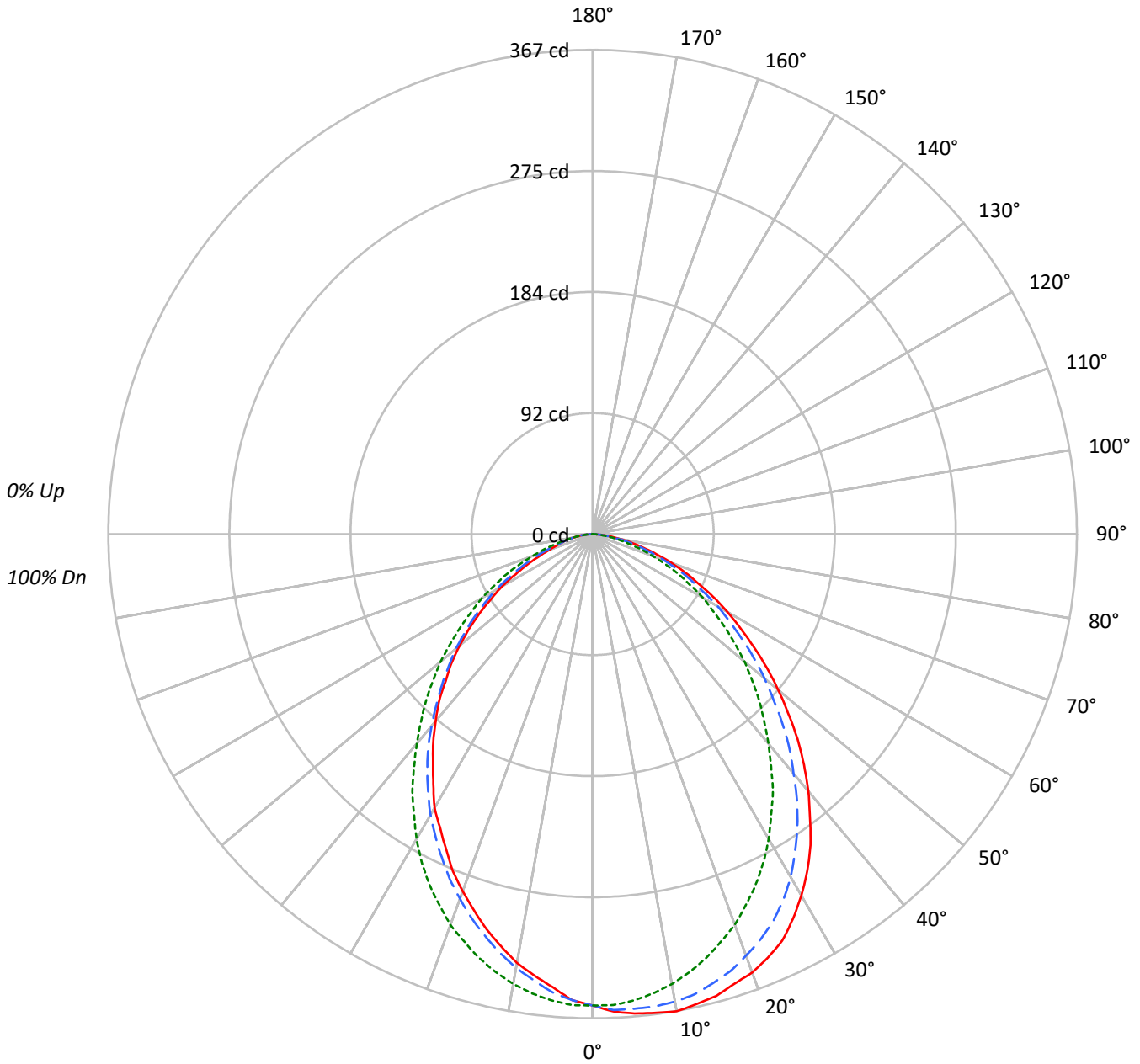
Lumens per Lamp: N/A  
Luminaire Lumens: 779.6 lumens  
Efficiency: N/A  
Efficacy: 58.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.13 / 1.23  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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°	28206	28206	28206	28206	28206
5°	28908	28614	28123	27632	27331
10°	29442	28841	27751	26757	26460
15°	29609	28800	27174	25760	25351
20°	29705	28562	26479	24707	24186
25°	29615	28204	25503	23561	22908
30°	28841	27373	24320	22396	21831
35°	27745	26068	22955	21047	20324
40°	26216	24423	21352	19559	19054
45°	24516	22719	19950	18007	17594
50°	22548	20878	18434	16604	16150
55°	20493	18952	16736	15029	14341
60°	18614	17241	15283	13325	12536
65°	16456	15298	13449	11357	10199
70°	14610	13179	11171	9163	8009
75°	12109	10980	8693	7198	7198
80°	9592	8456	6774	6183	6183
85°	5616	5616	4529	5616	5616

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24516 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.6	4.3
10°-20°	94.1	12.1
20°-30°	136.5	17.5
30°-40°	152.3	19.5
40°-50°	141.2	18.1
50°-60°	111.1	14.2
60°-70°	71.1	9.1
70°-80°	32.6	4.2
80°-90°	7.0	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°	264.3	33.9
0°-40°	416.6	53.4
0°-60°	668.9	85.8
0°-90°	779.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	779.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	357	357	357	357	357	
5°	365	361	355	349	345	35
15°	362	352	332	315	310	102
25°	340	324	293	270	263	156
35°	288	270	238	218	211	179
45°	220	204	179	161	158	169
55°	149	138	122	109	104	134
65°	88	82	72	61	55	88
75°	40	36	28	24	24	43
85°	6	6	5	6	6	9
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°	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3
2.5°	362.3	362.3	362.3	362.3	362.3	362.3	361.1	361.1	361.1	361.1	361.1
5°	364.8	364.8	364.8	364.8	363.6	363.6	363.6	363.6	362.3	362.3	361.1
7.5°	366.0	366.0	366.0	364.8	364.8	364.8	363.6	363.6	363.6	362.3	361.1
10°	367.3	366.0	366.0	364.8	364.8	364.8	363.6	363.6	362.3	361.1	359.8
12.5°	364.8	364.8	364.8	364.8	363.6	363.6	362.3	361.1	359.8	358.6	357.3
15°	362.3	362.3	362.3	361.1	359.8	359.8	358.6	357.3	356.1	354.9	352.4
17.5°	357.3	358.6	357.3	357.3	356.1	356.1	354.9	353.6	351.1	349.9	347.4
20°	353.6	352.4	352.4	352.4	351.1	349.9	348.7	347.4	344.9	343.7	340.0
22.5°	347.4	347.4	346.2	344.9	343.7	343.7	342.5	340.0	338.7	336.3	332.5
25°	340.0	338.7	338.7	337.5	336.3	336.3	333.8	332.5	330.1	326.3	323.8
27.5°	328.8	328.8	328.8	327.6	326.3	325.1	323.8	321.4	320.1	315.2	312.7
30°	316.4	316.4	315.2	315.2	312.7	312.7	311.4	309.0	306.5	302.8	300.3
32.5°	302.8	302.8	302.8	300.3	299.0	297.8	296.5	295.3	291.6	287.9	285.4
35°	287.9	287.9	286.6	285.4	284.1	282.9	281.7	279.2	276.7	274.2	270.5
37.5°	270.5	271.7	270.5	269.3	268.0	266.8	265.5	264.3	260.6	258.1	254.4
40°	254.4	254.4	253.1	251.9	250.6	250.6	249.4	246.9	244.4	240.7	237.0
42.5°	237.0	237.0	235.8	234.5	234.5	233.3	230.8	229.5	227.1	224.6	220.9
45°	219.6	218.4	217.1	217.1	215.9	214.7	214.7	212.2	209.7	206.0	203.5
47.5°	201.0	201.0	199.8	199.8	198.5	197.3	197.3	194.8	191.1	188.6	186.1
50°	183.6	183.6	182.4	182.4	181.2	179.9	178.7	177.4	175.0	172.5	170.0
52.5°	166.3	166.3	166.3	163.8	162.5	162.5	162.5	160.1	158.8	156.3	153.9
55°	148.9	148.9	148.9	147.7	146.4	146.4	146.4	143.9	142.7	140.2	137.7
57.5°	132.8	132.8	132.8	131.5	131.5	130.3	129.0	127.8	126.6	125.3	122.8
60°	117.9	117.9	116.6	115.4	116.6	115.4	114.2	112.9	111.7	110.4	109.2
62.5°	103.0	103.0	103.0	101.7	100.5	100.5	100.5	99.3	96.8	95.5	94.3
65°	88.1	88.1	88.1	88.1	86.9	86.9	85.6	84.4	84.4	83.1	81.9
67.5°	75.7	75.7	74.4	74.4	73.2	73.2	73.2	72.0	70.7	70.7	69.5
70°	63.3	62.0	62.0	62.0	60.8	60.8	60.8	59.6	59.6	58.3	57.1
72.5°	50.9	50.9	50.9	50.9	49.6	49.6	48.4	48.4	47.2	47.2	45.9
75°	39.7	39.7	39.7	39.7	38.5	38.5	38.5	38.5	37.2	37.2	36.0
77.5°	29.8	29.8	29.8	29.8	29.8	29.8	28.5	28.5	28.5	27.3	27.3
80°	21.1	21.1	21.1	21.1	19.9	19.9	19.9	19.9	19.9	18.6	18.6
82.5°	13.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	11.2
85°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3
2.5°	359.8	359.8	359.8	359.8	358.6	358.6	358.6	357.3	357.3	357.3	357.3
5°	361.1	361.1	358.6	358.6	358.6	358.6	357.3	357.3	356.1	354.9	353.6
7.5°	359.8	359.8	358.6	357.3	356.1	356.1	354.9	353.6	352.4	351.1	349.9
10°	358.6	357.3	356.1	354.9	353.6	352.4	351.1	349.9	347.4	346.2	344.9
12.5°	356.1	353.6	352.4	349.9	349.9	348.7	346.2	344.9	342.5	340.0	338.7
15°	351.1	348.7	346.2	343.7	343.7	341.2	338.7	337.5	335.0	332.5	330.1
17.5°	344.9	342.5	340.0	337.5	336.3	333.8	331.3	328.8	326.3	323.8	321.4
20°	338.7	335.0	332.5	328.8	327.6	326.3	322.6	320.1	317.6	315.2	311.4
22.5°	330.1	327.6	322.6	320.1	318.9	316.4	313.9	310.2	306.5	304.0	301.5
25°	320.1	317.6	313.9	310.2	307.7	306.5	302.8	299.0	296.5	292.8	290.3
27.5°	309.0	305.2	302.8	297.8	296.5	294.1	290.3	286.6	284.1	280.4	276.7
30°	296.5	292.8	289.1	285.4	282.9	281.7	277.9	274.2	270.5	266.8	264.3
32.5°	281.7	277.9	274.2	271.7	268.0	265.5	263.0	259.3	255.6	251.9	249.4
35°	266.8	263.0	259.3	255.6	253.1	253.1	248.2	244.4	240.7	238.2	234.5
37.5°	250.6	246.9	243.2	239.5	238.2	235.8	232.0	228.3	225.8	222.1	219.6
40°	234.5	229.5	227.1	223.3	222.1	219.6	217.1	213.4	210.9	207.2	204.7
42.5°	217.1	214.7	210.9	208.5	206.0	204.7	201.0	197.3	194.8	192.3	191.1
45°	201.0	197.3	193.6	191.1	189.8	187.4	186.1	182.4	179.9	178.7	176.2
47.5°	183.6	181.2	178.7	175.0	173.7	172.5	170.0	168.7	166.3	163.8	161.3
50°	167.5	165.0	162.5	160.1	158.8	158.8	155.1	152.6	151.4	150.1	147.7
52.5°	151.4	148.9	146.4	143.9	143.9	142.7	140.2	139.0	137.7	135.2	132.8
55°	136.5	134.0	131.5	130.3	129.0	129.0	126.6	125.3	122.8	121.6	120.4
57.5°	121.6	119.1	117.9	116.6	115.4	115.4	112.9	111.7	110.4	107.9	107.9
60°	107.9	105.5	104.2	103.0	101.7	100.5	100.5	98.0	96.8	96.8	94.3
62.5°	93.1	91.8	90.6	89.3	88.1	88.1	86.9	85.6	84.4	83.1	81.9
65°	80.7	79.4	78.2	76.9	75.7	75.7	74.4	73.2	72.0	72.0	69.5
67.5°	68.2	67.0	65.8	64.5	64.5	63.3	62.0	62.0	60.8	59.6	58.3
70°	55.8	55.8	54.6	53.4	53.4	52.1	50.9	50.9	49.6	48.4	47.2
72.5°	45.9	44.7	43.4	43.4	42.2	42.2	40.9	40.9	39.7	38.5	37.2
75°	34.7	33.5	33.5	33.5	32.3	32.3	32.3	31.0	29.8	28.5	28.5
77.5°	26.1	26.1	24.8	23.6	23.6	23.6	22.3	22.3	22.3	21.1	21.1
80°	18.6	17.4	17.4	16.1	16.1	16.1	16.1	14.9	14.9	14.9	13.6
82.5°	11.2	11.2	11.2	9.9	9.9	9.9	9.9	9.9	8.7	8.7	8.7
85°	6.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
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°	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3
2.5°	356.1	356.1	354.9	354.9	354.9	354.9	354.9	353.6	353.6	353.6	353.6
5°	353.6	352.4	351.1	351.1	351.1	349.9	349.9	348.7	348.7	347.4	347.4
7.5°	348.7	347.4	346.2	346.2	344.9	344.9	342.5	342.5	341.2	340.0	340.0
10°	342.5	341.2	340.0	338.7	338.7	336.3	336.3	335.0	333.8	332.5	332.5
12.5°	336.3	335.0	332.5	331.3	331.3	330.1	327.6	326.3	325.1	323.8	322.6
15°	327.6	326.3	323.8	322.6	321.4	320.1	318.9	317.6	315.2	313.9	313.9
17.5°	318.9	317.6	313.9	312.7	312.7	310.2	309.0	306.5	305.2	304.0	302.8
20°	309.0	306.5	304.0	302.8	301.5	299.0	297.8	296.5	294.1	292.8	291.6
22.5°	297.8	295.3	292.8	291.6	290.3	287.9	286.6	284.1	282.9	281.7	280.4
25°	286.6	284.1	281.7	280.4	277.9	276.7	274.2	271.7	270.5	269.3	268.0
27.5°	274.2	271.7	268.0	266.8	265.5	264.3	261.8	259.3	258.1	255.6	255.6
30°	260.6	258.1	255.6	254.4	253.1	250.6	249.4	246.9	245.7	243.2	243.2
32.5°	246.9	243.2	240.7	239.5	238.2	237.0	234.5	233.3	232.0	230.8	229.5
35°	232.0	229.5	227.1	225.8	224.6	222.1	220.9	219.6	218.4	215.9	215.9
37.5°	217.1	214.7	212.2	210.9	210.9	208.5	207.2	204.7	204.7	202.2	202.2
40°	202.2	199.8	197.3	197.3	196.0	193.6	192.3	191.1	189.8	188.6	188.6
42.5°	188.6	184.9	183.6	183.6	181.2	179.9	178.7	177.4	175.0	175.0	175.0
45°	173.7	171.2	170.0	168.7	167.5	166.3	165.0	162.5	161.3	160.1	160.1
47.5°	160.1	157.6	156.3	155.1	153.9	152.6	151.4	150.1	147.7	147.7	146.4
50°	146.4	143.9	142.7	141.5	140.2	139.0	137.7	136.5	135.2	134.0	132.8
52.5°	131.5	130.3	129.0	127.8	127.8	125.3	124.1	122.8	121.6	121.6	119.1
55°	119.1	117.9	116.6	115.4	114.2	112.9	111.7	110.4	109.2	107.9	106.7
57.5°	105.5	104.2	103.0	103.0	101.7	100.5	99.3	98.0	96.8	95.5	94.3
60°	93.1	91.8	90.6	90.6	89.3	88.1	86.9	86.9	84.4	83.1	81.9
62.5°	80.7	79.4	78.2	78.2	76.9	76.9	75.7	74.4	72.0	72.0	70.7
65°	69.5	68.2	67.0	65.8	65.8	64.5	63.3	62.0	60.8	60.8	59.6
67.5°	58.3	57.1	55.8	55.8	54.6	53.4	52.1	50.9	49.6	49.6	48.4
70°	47.2	45.9	44.7	44.7	43.4	42.2	42.2	40.9	39.7	38.5	38.5
72.5°	36.0	36.0	34.7	34.7	33.5	33.5	32.3	31.0	31.0	29.8	28.5
75°	27.3	27.3	26.1	26.1	24.8	24.8	23.6	23.6	23.6	22.3	23.6
77.5°	19.9	19.9	18.6	18.6	18.6	17.4	17.4	17.4	18.6	18.6	18.6
80°	13.6	13.6	13.6	13.6	12.4	12.4	13.6	13.6	13.6	13.6	13.6
82.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	9.9	9.9	9.9
85°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2	6.2	6.2	6.2
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: P642310

CATALOG NUMBER: ML5612LSWW97FS1E - 592W WW - 900LM - 5000K

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3
2.5°	352.4	352.4	352.4	352.4	352.4	352.4	352.4	353.6
5°	346.2	346.2	346.2	346.2	346.2	346.2	346.2	344.9
7.5°	340.0	338.7	338.7	338.7	338.7	337.5	337.5	337.5
10°	331.3	331.3	330.1	330.1	330.1	330.1	328.8	330.1
12.5°	322.6	321.4	321.4	321.4	320.1	320.1	320.1	320.1
15°	312.7	311.4	311.4	311.4	310.2	310.2	310.2	310.2
17.5°	301.5	301.5	300.3	300.3	299.0	299.0	299.0	299.0
20°	290.3	290.3	290.3	289.1	289.1	289.1	287.9	287.9
22.5°	279.2	277.9	276.7	277.9	276.7	275.5	276.7	276.7
25°	266.8	265.5	264.3	264.3	264.3	264.3	263.0	263.0
27.5°	254.4	251.9	251.9	251.9	251.9	250.6	250.6	250.6
30°	242.0	240.7	240.7	239.5	238.2	238.2	238.2	239.5
32.5°	228.3	227.1	225.8	225.8	225.8	225.8	224.6	224.6
35°	214.7	214.7	213.4	213.4	213.4	212.2	212.2	210.9
37.5°	201.0	201.0	199.8	199.8	199.8	198.5	198.5	198.5
40°	187.4	186.1	186.1	187.4	186.1	186.1	184.9	184.9
42.5°	173.7	173.7	172.5	172.5	172.5	172.5	171.2	172.5
45°	158.8	158.8	158.8	158.8	158.8	158.8	157.6	157.6
47.5°	146.4	145.2	145.2	145.2	145.2	145.2	145.2	145.2
50°	132.8	131.5	131.5	131.5	131.5	131.5	131.5	131.5
52.5°	119.1	117.9	117.9	117.9	117.9	117.9	117.9	117.9
55°	106.7	105.5	105.5	104.2	105.5	104.2	104.2	104.2
57.5°	94.3	93.1	91.8	93.1	91.8	91.8	91.8	90.6
60°	81.9	80.7	80.7	80.7	79.4	78.2	78.2	79.4
62.5°	69.5	69.5	68.2	68.2	67.0	65.8	65.8	65.8
65°	58.3	57.1	57.1	55.8	55.8	54.6	54.6	54.6
67.5°	47.2	47.2	45.9	45.9	44.7	44.7	44.7	43.4
70°	37.2	37.2	36.0	36.0	36.0	34.7	34.7	34.7
72.5°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
75°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
77.5°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	19.9
80°	13.6	13.6	14.9	13.6	14.9	13.6	13.6	13.6
82.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
85°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)