

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: P642316

Luminaire Tested: ML5612LSWW97FS1E - 692H WW - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-132)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWW97FS1E - 692H WW - 600LM - 2700K  
Description: ML56 RR, WW OPTIC, 6" WW INSERT WITH HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 550.9 lumens  
Efficiency: N/A  
Efficacy: 53.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.12 / 1.23  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

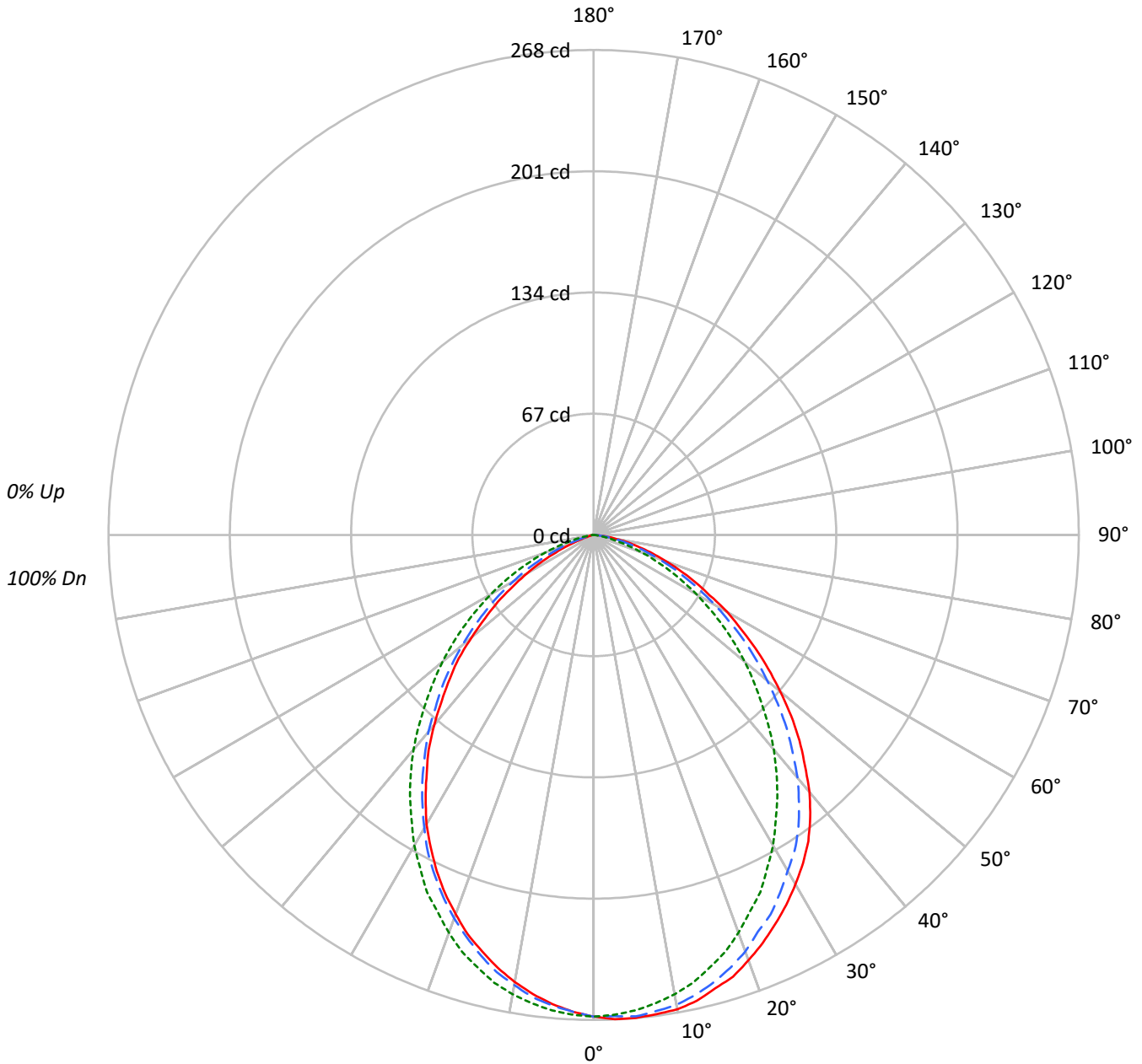
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20										
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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88	88	88	88	88	88		
	2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76	76	76	76	76	76		
	3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66	66	66	66	66	66		
	4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57	57	57	57	57	57		
	5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51	51	51	51		
	6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45	45	45	45	45	45		
	7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40	40	40		
	8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36	36	36	36	36	36		
	9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33	33	33	33	33	33		
	10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30	30	30	30	30	30		

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

	0°	45°	90°	135°	180°
0°	14593	14593	14593	14593	14593
5°	14742	14698	14511	14368	14324
10°	14818	14679	14345	14061	13967
15°	14722	14529	14047	13661	13519
20°	14590	14293	13645	13149	13004
25°	14354	13997	13174	12557	12400
30°	14110	13572	12546	11844	11685
35°	13833	13204	11839	11042	10761
40°	13268	12538	11078	10169	9804
45°	12466	11676	10156	9164	8706
50°	11462	10661	9288	8051	7471
55°	10408	9672	8296	6910	6174
60°	9330	8486	7181	5592	4660
65°	8055	7277	5954	4190	2983
70°	6812	5995	4504	2597	1362
75°	5592	4681	2881	911	551
80°	4041	3220	1357	284	284
85°	2139	1635	566	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12466 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.0	4.5
10°-20°	69.9	12.7
20°-30°	100.8	18.3
30°-40°	112.6	20.4
40°-50°	103.3	18.7
50°-60°	77.6	14.1
60°-70°	44.3	8.0
70°-80°	15.5	2.8
80°-90°	2.0	0.4
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°	195.7	35.5
0°-40°	308.3	56.0
0°-60°	489.1	88.8
0°-90°	550.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	550.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	266	266	266	266	266	
5°	268	267	264	261	260	26
15°	259	256	248	241	238	73
25°	237	231	218	208	205	109
35°	207	197	177	165	161	129
45°	161	151	131	118	112	124
55°	109	101	87	72	65	97
65°	62	56	46	32	23	62
75°	26	22	14	4	3	28
85°	3	3	1	0	0	5
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°	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2
2.5°	267.9	267.1	267.1	267.1	267.1	267.1	267.1	267.1	267.1	267.1	266.2
5°	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.1	267.1	267.1	267.1
7.5°	267.1	267.1	267.1	267.1	267.1	267.1	267.1	266.2	266.2	265.4	265.4
10°	266.2	266.2	266.2	265.4	265.4	265.4	265.4	265.4	264.5	264.5	263.7
12.5°	263.7	263.7	263.7	263.7	262.8	262.8	262.8	262.0	261.1	261.1	260.3
15°	259.4	260.3	260.3	259.4	259.4	259.4	259.4	258.6	257.7	256.9	256.0
17.5°	256.0	256.0	256.0	255.2	254.3	255.2	254.3	253.5	252.6	251.8	250.9
20°	250.1	250.1	249.2	249.2	249.2	249.2	248.4	247.5	246.7	245.8	245.0
22.5°	244.1	244.1	244.1	242.4	242.4	242.4	241.6	241.6	239.9	239.0	237.3
25°	237.3	237.3	237.3	236.5	235.6	234.8	235.6	233.9	233.1	231.4	231.4
27.5°	230.5	230.5	229.7	229.7	228.8	228.8	228.0	226.3	225.4	224.6	222.9
30°	222.9	222.9	222.0	222.0	221.2	220.3	220.3	218.6	217.8	216.1	214.4
32.5°	215.2	215.2	214.4	214.4	213.5	212.7	212.7	211.0	209.3	207.6	206.7
35°	206.7	206.7	205.9	205.9	205.0	204.1	203.3	201.6	200.7	198.2	197.3
37.5°	196.5	197.3	195.6	195.6	194.8	193.9	193.1	192.2	190.5	188.8	186.3
40°	185.4	184.6	184.6	183.7	182.9	182.9	182.0	180.3	179.5	176.9	175.2
42.5°	172.7	172.7	172.7	171.8	171.0	171.0	169.3	168.4	166.7	165.0	162.5
45°	160.8	160.8	159.9	159.9	158.2	158.2	157.4	155.7	154.8	152.3	150.6
47.5°	148.0	147.2	147.2	146.3	145.5	145.5	144.6	143.8	142.1	139.5	137.8
50°	134.4	134.4	134.4	133.5	132.7	132.7	131.8	130.1	129.3	127.6	125.0
52.5°	121.6	121.6	121.6	120.8	119.9	119.9	119.1	118.2	116.5	114.8	113.1
55°	108.9	108.9	108.9	108.0	108.0	106.3	106.3	105.5	103.8	102.1	101.2
57.5°	96.1	96.1	96.1	96.1	95.3	95.3	94.4	93.6	91.9	91.0	88.5
60°	85.1	84.2	84.2	83.4	83.4	82.5	81.7	80.8	80.0	78.3	77.4
62.5°	72.3	73.2	72.3	72.3	71.5	71.5	71.5	69.8	68.9	67.2	66.3
65°	62.1	62.1	62.1	62.1	60.4	60.4	60.4	58.7	57.8	57.8	56.1
67.5°	51.9	51.9	51.9	51.0	51.0	51.0	50.2	49.3	48.5	47.6	46.8
70°	42.5	42.5	42.5	41.7	41.7	40.8	40.8	40.0	39.1	39.1	37.4
72.5°	34.0	34.0	34.0	34.0	33.2	33.2	32.3	32.3	31.5	30.6	29.8
75°	26.4	26.4	26.4	25.5	25.5	25.5	24.7	24.7	23.8	23.0	22.1
77.5°	19.6	18.7	18.7	18.7	18.7	17.9	17.9	17.9	17.0	16.2	16.2
80°	12.8	12.8	12.8	12.8	12.8	11.9	11.9	11.9	11.1	11.1	10.2
82.5°	7.7	7.7	7.7	7.7	7.7	6.8	6.8	6.8	6.0	6.0	6.0
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.6	2.6	2.6
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2
2.5°	267.1	267.1	266.2	266.2	266.2	266.2	266.2	265.4	265.4	265.4	265.4
5°	267.1	266.2	265.4	265.4	265.4	265.4	264.5	264.5	264.5	263.7	263.7
7.5°	264.5	264.5	264.5	263.7	263.7	262.8	262.8	262.0	262.0	261.1	261.1
10°	262.8	262.0	262.0	261.1	261.1	260.3	260.3	258.6	257.7	257.7	256.9
12.5°	259.4	258.6	258.6	256.9	256.9	256.9	256.0	254.3	253.5	253.5	252.6
15°	255.2	254.3	253.5	251.8	251.8	250.9	250.1	249.2	248.4	247.5	246.7
17.5°	250.1	248.4	247.5	246.7	245.8	245.0	244.1	243.3	241.6	241.6	239.9
20°	244.1	242.4	241.6	239.9	239.0	239.0	237.3	235.6	234.8	233.9	232.2
22.5°	236.5	235.6	233.9	232.2	231.4	231.4	229.7	228.0	227.1	225.4	224.6
25°	229.7	227.1	226.3	224.6	223.7	223.7	222.0	220.3	218.6	217.8	216.1
27.5°	221.2	219.5	218.6	216.1	215.2	214.4	212.7	211.0	209.3	207.6	205.9
30°	212.7	211.0	209.3	206.7	206.7	205.0	203.3	200.7	199.9	198.2	195.6
32.5°	204.1	202.4	199.9	198.2	196.5	195.6	193.1	191.4	189.7	187.1	186.3
35°	194.8	192.2	190.5	188.0	187.1	185.4	183.7	181.2	179.5	176.9	174.4
37.5°	184.6	181.2	179.5	176.9	176.1	174.4	172.7	171.0	168.4	165.9	164.2
40°	173.5	170.1	167.6	165.9	164.2	162.5	161.6	158.2	156.5	154.8	153.1
42.5°	160.8	158.2	155.7	154.0	152.3	151.4	148.9	147.2	144.6	142.9	141.2
45°	148.9	146.3	143.8	141.2	140.4	139.5	137.8	135.2	132.7	131.0	129.3
47.5°	136.1	134.4	131.0	130.1	128.4	127.6	125.0	123.3	122.5	119.9	118.2
50°	123.3	121.6	119.9	117.4	116.5	115.7	114.0	112.3	110.6	108.9	107.2
52.5°	110.6	109.7	108.0	105.5	105.5	104.6	102.9	101.2	99.5	97.8	96.1
55°	99.5	97.8	96.1	94.4	93.6	92.7	91.0	90.2	88.5	86.8	85.1
57.5°	87.6	85.9	85.1	83.4	82.5	81.7	80.0	79.1	77.4	75.7	74.0
60°	76.6	74.9	74.0	72.3	71.5	71.5	69.8	68.0	67.2	65.5	63.8
62.5°	65.5	63.8	62.9	61.2	61.2	60.4	59.5	57.8	57.0	55.3	54.4
65°	55.3	54.4	52.7	51.9	51.0	50.2	49.3	48.5	46.8	45.9	44.2
67.5°	45.9	44.2	43.4	42.5	41.7	40.8	40.0	39.1	37.4	36.6	34.9
70°	36.6	35.7	34.9	34.0	33.2	33.2	31.5	30.6	28.9	28.1	26.4
72.5°	28.9	28.1	27.2	25.5	25.5	24.7	23.8	23.0	21.3	20.4	18.7
75°	21.3	21.3	19.6	18.7	18.7	17.9	17.0	16.2	15.3	13.6	12.8
77.5°	15.3	14.5	13.6	12.8	11.9	11.9	11.1	10.2	9.4	8.5	6.8
80°	10.2	9.4	8.5	7.7	7.7	6.8	6.0	6.0	5.1	4.3	3.4
82.5°	5.1	5.1	4.3	4.3	3.4	3.4	3.4	2.6	2.6	1.7	1.7
85°	2.6	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.0
87.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2
2.5°	265.4	264.5	265.4	265.4	264.5	264.5	264.5	264.5	263.7	264.5	263.7
5°	263.7	262.8	262.8	262.8	262.8	262.0	262.0	261.1	261.1	261.1	261.1
7.5°	260.3	259.4	259.4	258.6	258.6	258.6	258.6	257.7	257.7	256.9	256.9
10°	256.9	256.0	255.2	255.2	254.3	254.3	254.3	253.5	252.6	252.6	251.8
12.5°	250.9	250.9	250.1	250.1	249.2	249.2	248.4	247.5	247.5	246.7	246.7
15°	245.8	245.0	244.1	244.1	243.3	242.4	241.6	241.6	240.7	240.7	239.9
17.5°	239.0	237.3	237.3	236.5	235.6	235.6	234.8	233.9	233.1	233.1	233.1
20°	231.4	230.5	229.7	228.8	228.0	228.0	227.1	226.3	225.4	224.6	224.6
22.5°	222.9	222.0	221.2	220.3	220.3	219.5	218.6	217.8	216.9	216.1	216.1
25°	214.4	213.5	212.7	211.8	211.0	210.1	209.3	208.4	207.6	206.7	206.7
27.5°	205.0	203.3	202.4	201.6	200.7	199.9	199.9	198.2	198.2	197.3	196.5
30°	194.8	193.1	191.4	191.4	190.5	189.7	188.0	188.0	187.1	186.3	185.4
32.5°	183.7	182.9	181.2	181.2	179.5	178.6	177.8	176.9	176.1	175.2	175.2
35°	173.5	171.0	170.1	170.1	168.4	167.6	166.7	165.0	165.0	163.3	163.3
37.5°	162.5	160.8	159.9	158.2	157.4	156.5	155.7	154.0	153.1	152.3	151.4
40°	151.4	149.7	148.0	147.2	146.3	144.6	143.8	142.1	142.1	140.4	139.5
42.5°	139.5	137.8	136.1	135.2	134.4	132.7	131.8	130.1	129.3	128.4	127.6
45°	127.6	125.9	125.0	124.2	123.3	122.5	119.9	119.1	118.2	116.5	115.7
47.5°	116.5	114.8	113.1	113.1	111.4	110.6	108.9	107.2	106.3	104.6	103.8
50°	105.5	103.8	102.1	101.2	101.2	98.7	97.8	96.1	94.4	92.7	91.9
52.5°	94.4	92.7	91.0	90.2	89.3	87.6	85.9	85.1	83.4	81.7	80.8
55°	83.4	81.7	80.0	79.1	78.3	76.6	75.7	73.2	72.3	70.6	68.9
57.5°	73.2	71.5	69.8	68.9	68.0	66.3	64.6	62.9	62.1	60.4	58.7
60°	62.1	61.2	59.5	58.7	57.8	57.0	54.4	52.7	51.0	50.2	48.5
62.5°	52.7	51.0	49.3	48.5	47.6	46.8	45.1	43.4	42.5	40.0	38.3
65°	43.4	41.7	40.0	39.1	38.3	37.4	35.7	34.0	32.3	30.6	29.8
67.5°	33.2	32.3	30.6	30.6	29.8	28.1	26.4	25.5	23.8	23.0	21.3
70°	25.5	24.7	23.0	22.1	21.3	19.6	18.7	17.0	16.2	15.3	13.6
72.5°	17.9	17.0	15.3	14.5	13.6	12.8	11.1	10.2	9.4	8.5	7.7
75°	11.9	10.2	9.4	8.5	8.5	6.8	6.0	5.1	4.3	3.4	3.4
77.5°	6.8	6.0	4.3	4.3	4.3	3.4	2.6	2.6	1.7	1.7	1.7
80°	3.4	2.6	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P642316

CATALOG NUMBER: ML5612LSWW97FS1E - 692H WW - 600LM - 2700K

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2
2.5°	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7
5°	261.1	260.3	260.3	260.3	260.3	260.3	260.3	260.3
7.5°	256.9	256.9	256.0	256.9	256.0	256.0	256.0	256.0
10°	251.8	251.8	251.8	251.8	250.9	250.9	250.9	250.9
12.5°	246.7	245.8	245.8	245.8	245.0	245.8	245.0	245.0
15°	239.9	239.0	239.0	239.0	239.0	238.2	239.0	238.2
17.5°	232.2	232.2	231.4	232.2	231.4	231.4	231.4	231.4
20°	223.7	223.7	223.7	222.9	223.7	222.9	222.9	222.9
22.5°	215.2	215.2	214.4	214.4	214.4	214.4	214.4	214.4
25°	205.9	205.9	205.9	205.9	205.0	205.0	205.0	205.0
27.5°	196.5	195.6	195.6	195.6	194.8	195.6	194.8	194.8
30°	185.4	185.4	184.6	184.6	184.6	183.7	183.7	184.6
32.5°	173.5	173.5	173.5	173.5	172.7	172.7	172.7	172.7
35°	162.5	162.5	161.6	161.6	161.6	160.8	160.8	160.8
37.5°	150.6	150.6	149.7	149.7	149.7	148.9	148.9	149.7
40°	138.7	138.7	137.8	137.8	137.8	137.0	137.0	137.0
42.5°	126.7	125.9	125.9	125.0	125.0	125.0	124.2	124.2
45°	114.8	114.0	114.0	114.0	113.1	112.3	112.3	112.3
47.5°	102.9	102.1	101.2	101.2	100.4	100.4	100.4	101.2
50°	91.0	90.2	90.2	89.3	88.5	88.5	88.5	87.6
52.5°	79.1	78.3	78.3	77.4	77.4	76.6	75.7	75.7
55°	68.0	67.2	66.3	65.5	65.5	64.6	64.6	64.6
57.5°	57.0	56.1	55.3	55.3	54.4	54.4	53.6	52.7
60°	46.8	45.9	45.1	45.1	44.2	43.4	42.5	42.5
62.5°	37.4	36.6	35.7	34.9	34.0	33.2	32.3	33.2
65°	28.9	27.2	26.4	25.5	25.5	24.7	23.8	23.0
67.5°	20.4	19.6	18.7	17.9	17.0	16.2	15.3	15.3
70°	12.8	11.1	11.1	11.1	10.2	9.4	8.5	8.5
72.5°	6.8	6.0	5.1	5.1	4.3	4.3	4.3	4.3
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)