

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: P644094

Luminaire Tested: ML5615LSWW9FS1E - 592H WW - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644094  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-130)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWW9FS1E - 592H WW - 900LM - 4000K  
Description: ML56 RR, WW OPTIC, 5" WW INSERT WITH HAZE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

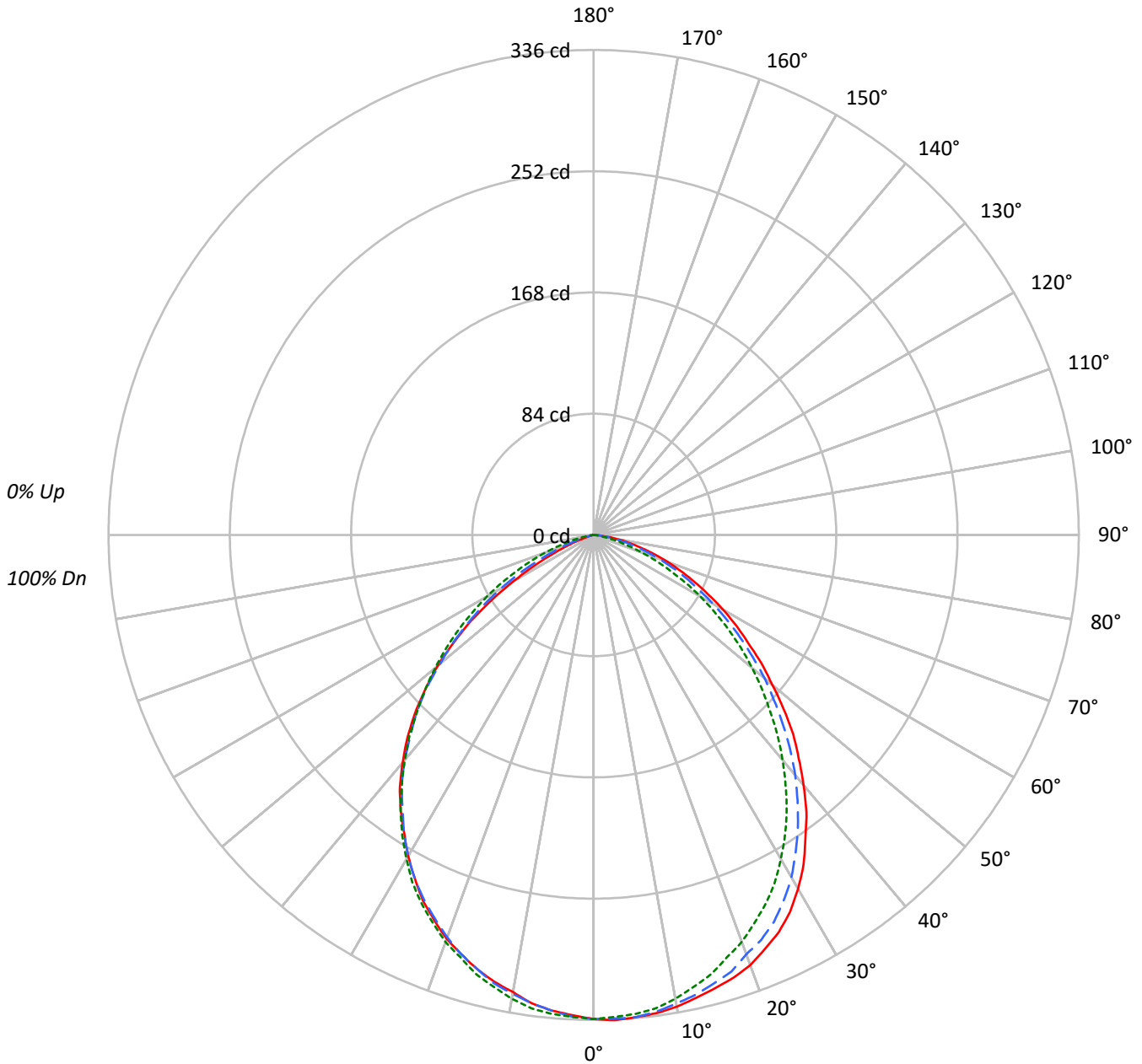
Lumens per Lamp: N/A  
Luminaire Lumens: 720.5 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.25  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
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	111	107	103	100	108	105	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	87	83	79	84	81	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	67	60	54	65	59	54	64	58	53	62	57	52	50	50	50	50	50	50		
	6	74	62	54	48	73	61	54	48	60	53	47	58	52	47	56	51	47	45	45	45	45	45	45		
	7	69	57	49	43	68	56	48	43	54	48	42	53	47	42	52	46	42	40	40	40	40	40	40		
	8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36	36	36	36	36	36		
	9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33	33	33	33	33	33		
	10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30	30	30	30	30	30		

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

	0°	45°	90°	135°	180°
0°	26477	26477	26477	26477	26477
5°	26578	26578	26396	26213	26213
10°	26605	26428	26156	25883	25787
15°	26569	26291	25735	25458	25458
20°	26647	25975	25211	24925	25017
25°	26435	25747	24554	24258	24362
30°	25805	24976	23627	23417	23417
35°	24651	23774	22454	22242	22454
40°	23310	22372	20971	20971	21208
45°	21825	20687	19291	19291	19548
50°	19822	18986	17586	17034	17316
55°	17988	17052	15648	14547	14231
60°	16325	15078	13467	11667	10057
65°	14439	13169	10834	8069	5940
70°	12602	11010	8124	4455	2354
75°	10065	8662	5216	1373	702
80°	7774	5683	2046	500	500
85°	4076	3080	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21825 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.6	4.4
10°-20°	89.2	12.4
20°-30°	131.6	18.3
30°-40°	149.1	20.7
40°-50°	137.7	19.1
50°-60°	102.9	14.3
60°-70°	56.8	7.9
70°-80°	19.1	2.7
80°-90°	2.4	0.3
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°	252.5	35.0
0°-40°	401.5	55.7
0°-60°	642.1	89.1
0°-90°	720.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	720.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	335	335	335	335	335	
5°	335	335	333	331	331	32
15°	325	322	315	312	312	92
25°	304	296	282	278	280	139
35°	256	247	233	231	233	160
45°	196	185	173	173	175	150
55°	131	124	114	106	103	118
65°	77	70	58	43	32	77
75°	33	28	17	4	2	36
85°	4	3	0	0	0	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°	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4
2.5°	336.5	336.5	336.5	336.5	335.4	335.4	336.5	335.4	335.4	335.4	335.4
5°	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4
7.5°	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2	333.1	333.1	333.1
10°	331.9	331.9	331.9	331.9	331.9	331.9	331.9	330.8	330.8	330.8	329.7
12.5°	328.5	329.7	328.5	329.7	328.5	328.5	327.4	327.4	327.4	326.3	326.3
15°	325.1	325.1	325.1	325.1	325.1	324.0	324.0	322.9	322.9	322.9	321.7
17.5°	321.7	320.6	320.6	320.6	319.4	319.4	319.4	319.4	318.3	317.2	317.2
20°	317.2	316.0	316.0	316.0	314.9	314.9	313.8	313.8	311.5	311.5	309.2
22.5°	310.3	310.3	310.3	309.2	309.2	308.1	308.1	306.9	305.8	304.7	303.5
25°	303.5	303.5	302.4	302.4	301.3	301.3	301.3	299.0	297.8	296.7	295.6
27.5°	294.4	294.4	293.3	293.3	292.2	291.0	291.0	288.7	288.7	286.5	285.3
30°	283.1	283.1	283.1	280.8	280.8	280.8	279.7	278.5	276.2	275.1	274.0
32.5°	270.6	269.4	269.4	269.4	268.3	267.1	267.1	264.9	263.7	262.6	260.3
35°	255.8	255.8	255.8	255.8	254.6	253.5	253.5	251.2	250.1	247.8	246.7
37.5°	242.1	242.1	241.0	241.0	238.7	239.9	238.7	237.6	236.5	233.0	231.9
40°	226.2	226.2	226.2	225.1	224.0	224.0	222.8	221.7	219.4	218.3	217.1
42.5°	210.3	210.3	210.3	209.2	208.0	208.0	208.0	205.8	204.6	203.5	201.2
45°	195.5	194.4	194.4	193.3	193.3	192.1	191.0	189.8	188.7	187.6	185.3
47.5°	178.5	178.5	177.3	177.3	176.2	176.2	175.1	173.9	172.8	171.7	169.4
50°	161.4	162.6	162.6	161.4	161.4	160.3	159.2	159.2	158.0	156.9	154.6
52.5°	146.6	146.6	146.6	145.5	145.5	144.4	144.4	143.2	142.1	139.8	138.7
55°	130.7	131.9	130.7	130.7	130.7	129.6	129.6	128.5	127.3	125.0	123.9
57.5°	117.1	117.1	116.0	116.0	114.8	114.8	114.8	113.7	112.5	111.4	109.1
60°	103.4	102.3	102.3	102.3	101.2	101.2	101.2	98.9	97.8	96.6	95.5
62.5°	89.8	89.8	89.8	88.7	88.7	87.5	86.4	86.4	85.3	84.1	81.8
65°	77.3	77.3	76.2	76.2	76.2	75.0	75.0	73.9	72.8	71.6	70.5
67.5°	64.8	64.8	64.8	63.7	63.7	63.7	62.5	61.4	61.4	60.3	59.1
70°	54.6	53.4	53.4	53.4	52.3	52.3	52.3	51.2	50.0	48.9	47.7
72.5°	43.2	43.2	43.2	43.2	42.1	42.1	40.9	40.9	39.8	38.7	37.5
75°	33.0	33.0	33.0	33.0	31.8	31.8	31.8	30.7	30.7	29.6	28.4
77.5°	25.0	25.0	25.0	23.9	23.9	22.7	22.7	22.7	21.6	21.6	20.5
80°	17.1	17.1	15.9	15.9	15.9	15.9	15.9	14.8	13.6	13.6	12.5
82.5°	10.2	10.2	10.2	9.1	9.1	9.1	9.1	9.1	8.0	8.0	6.8
85°	4.5	4.5	4.5	4.5	4.5	4.5	3.4	3.4	3.4	3.4	3.4
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4
2.5°	335.4	335.4	335.4	335.4	335.4	335.4	335.4	334.2	334.2	334.2	334.2
5°	334.2	334.2	334.2	334.2	334.2	333.1	334.2	333.1	333.1	333.1	333.1
7.5°	331.9	331.9	331.9	331.9	330.8	331.9	330.8	330.8	330.8	330.8	329.7
10°	329.7	328.5	328.5	328.5	328.5	327.4	327.4	326.3	326.3	326.3	325.1
12.5°	326.3	325.1	325.1	324.0	324.0	324.0	322.9	322.9	321.7	320.6	320.6
15°	320.6	320.6	319.4	318.3	318.3	317.2	317.2	316.0	316.0	314.9	313.8
17.5°	316.0	314.9	313.8	312.6	311.5	311.5	310.3	309.2	309.2	306.9	306.9
20°	308.1	306.9	305.8	304.7	304.7	304.7	302.4	302.4	301.3	300.1	299.0
22.5°	301.3	300.1	297.8	296.7	296.7	295.6	294.4	293.3	292.2	291.0	289.9
25°	293.3	292.2	289.9	288.7	287.6	286.5	285.3	284.2	283.1	281.9	280.8
27.5°	283.1	280.8	280.8	278.5	277.4	276.2	275.1	274.0	272.8	271.7	270.6
30°	271.7	270.6	268.3	266.0	264.9	264.9	262.6	261.5	261.5	259.2	258.1
32.5°	259.2	256.9	254.6	253.5	252.4	251.2	250.1	249.0	247.8	246.7	245.5
35°	245.5	242.1	241.0	238.7	238.7	237.6	236.5	234.2	234.2	233.0	230.8
37.5°	230.8	228.5	227.4	225.1	224.0	222.8	221.7	220.5	219.4	218.3	217.1
40°	214.9	212.6	211.4	210.3	209.2	208.0	206.9	205.8	204.6	203.5	202.4
42.5°	198.9	197.8	195.5	193.3	193.3	192.1	191.0	189.8	188.7	188.7	187.6
45°	183.0	181.9	179.6	178.5	177.3	177.3	175.1	175.1	173.9	172.8	172.8
47.5°	168.2	166.0	163.7	163.7	161.4	162.6	160.3	160.3	158.0	158.0	156.9
50°	152.3	151.2	148.9	147.8	147.8	146.6	145.5	145.5	144.4	143.2	142.1
52.5°	137.6	135.3	134.1	133.0	131.9	131.9	130.7	130.7	128.5	128.5	127.3
55°	122.8	121.6	119.4	118.2	118.2	118.2	116.0	114.8	114.8	113.7	112.5
57.5°	108.0	106.9	105.7	104.6	103.4	103.4	102.3	101.2	100.0	98.9	96.6
60°	94.4	93.2	92.1	90.9	89.8	89.8	88.7	87.5	86.4	85.3	84.1
62.5°	80.7	80.7	78.4	77.3	76.2	76.2	75.0	73.9	72.8	71.6	70.5
65°	69.3	68.2	65.9	64.8	64.8	64.8	62.5	61.4	60.3	58.0	56.8
67.5°	58.0	55.7	54.6	54.6	53.4	52.3	51.2	50.0	47.7	46.6	44.3
70°	46.6	45.5	44.3	43.2	42.1	40.9	39.8	38.7	36.4	35.2	34.1
72.5°	36.4	35.2	34.1	33.0	31.8	31.8	29.6	28.4	27.3	25.0	23.9
75°	27.3	26.1	25.0	23.9	22.7	21.6	21.6	19.3	18.2	17.1	14.8
77.5°	19.3	18.2	17.1	15.9	15.9	14.8	13.6	12.5	11.4	10.2	9.1
80°	12.5	11.4	10.2	10.2	9.1	9.1	8.0	6.8	5.7	4.5	4.5
82.5°	6.8	5.7	5.7	4.5	4.5	4.5	3.4	2.3	2.3	2.3	1.1
85°	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4
2.5°	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2	333.1	333.1
5°	331.9	331.9	331.9	331.9	331.9	331.9	330.8	330.8	330.8	330.8	330.8
7.5°	329.7	329.7	329.7	328.5	328.5	328.5	328.5	327.4	327.4	327.4	327.4
10°	325.1	325.1	325.1	324.0	324.0	324.0	324.0	324.0	322.9	322.9	322.9
12.5°	319.4	319.4	319.4	319.4	319.4	318.3	318.3	318.3	318.3	317.2	318.3
15°	313.8	313.8	312.6	312.6	312.6	311.5	311.5	311.5	311.5	311.5	311.5
17.5°	306.9	305.8	305.8	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7
20°	299.0	297.8	297.8	297.8	297.8	296.7	296.7	295.6	296.7	296.7	296.7
22.5°	289.9	288.7	288.7	288.7	287.6	287.6	287.6	287.6	287.6	287.6	287.6
25°	280.8	279.7	278.5	278.5	278.5	277.4	277.4	278.5	278.5	278.5	278.5
27.5°	269.4	269.4	268.3	268.3	268.3	267.1	267.1	267.1	268.3	268.3	268.3
30°	256.9	256.9	256.9	256.9	255.8	255.8	256.9	255.8	256.9	255.8	256.9
32.5°	245.5	245.5	244.4	243.3	243.3	244.4	243.3	243.3	244.4	244.4	244.4
35°	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	231.9	233.0
37.5°	217.1	217.1	217.1	217.1	217.1	217.1	217.1	218.3	218.3	218.3	218.3
40°	202.4	202.4	202.4	202.4	202.4	202.4	202.4	202.4	203.5	203.5	204.6
42.5°	186.4	187.6	187.6	187.6	186.4	186.4	187.6	187.6	187.6	188.7	188.7
45°	171.7	171.7	171.7	171.7	172.8	171.7	171.7	171.7	172.8	172.8	172.8
47.5°	156.9	155.7	155.7	156.9	155.7	155.7	155.7	155.7	156.9	156.9	155.7
50°	142.1	141.0	141.0	141.0	139.8	139.8	141.0	138.7	138.7	138.7	139.8
52.5°	127.3	126.2	125.0	125.0	125.0	123.9	122.8	122.8	122.8	121.6	121.6
55°	111.4	110.3	109.1	109.1	109.1	108.0	108.0	105.7	105.7	104.6	104.6
57.5°	96.6	95.5	94.4	94.4	93.2	92.1	92.1	89.8	89.8	88.7	86.4
60°	81.8	80.7	79.6	79.6	79.6	77.3	76.2	73.9	73.9	71.6	70.5
62.5°	68.2	67.1	65.9	64.8	64.8	62.5	61.4	59.1	58.0	56.8	54.6
65°	55.7	53.4	52.3	51.2	51.2	48.9	47.7	45.5	43.2	42.1	39.8
67.5°	43.2	42.1	39.8	38.7	38.7	36.4	34.1	33.0	30.7	28.4	27.3
70°	31.8	30.7	28.4	27.3	26.1	25.0	22.7	21.6	19.3	18.2	15.9
72.5°	21.6	20.5	18.2	18.2	17.1	14.8	13.6	12.5	10.2	9.1	8.0
75°	13.6	12.5	11.4	10.2	9.1	8.0	6.8	5.7	4.5	3.4	3.4
77.5°	8.0	6.8	5.7	4.5	4.5	3.4	2.3	2.3	2.3	1.1	1.1
80°	3.4	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	1.1	1.1
85°	0.0	0.0	0.0	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	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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CATALOG NUMBER: ML5615LSWW9FS1E - 592H WW - 900LM - 4000K

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	335.4	335.4	335.4	335.4	335.4	335.4	335.4	335.4
2.5°	334.2	333.1	334.2	334.2	333.1	333.1	333.1	333.1
5°	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8
7.5°	328.5	327.4	327.4	327.4	327.4	327.4	327.4	327.4
10°	322.9	322.9	322.9	322.9	322.9	322.9	322.9	321.7
12.5°	317.2	317.2	317.2	317.2	317.2	317.2	317.2	317.2
15°	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5
17.5°	304.7	304.7	304.7	304.7	304.7	303.5	304.7	304.7
20°	296.7	296.7	296.7	296.7	296.7	296.7	296.7	297.8
22.5°	287.6	287.6	287.6	287.6	287.6	287.6	287.6	288.7
25°	278.5	278.5	278.5	278.5	278.5	278.5	278.5	279.7
27.5°	268.3	268.3	268.3	268.3	268.3	268.3	268.3	268.3
30°	256.9	256.9	258.1	256.9	256.9	256.9	258.1	256.9
32.5°	245.5	245.5	245.5	245.5	245.5	245.5	245.5	244.4
35°	233.0	231.9	233.0	233.0	233.0	233.0	233.0	233.0
37.5°	219.4	219.4	219.4	219.4	219.4	219.4	220.5	220.5
40°	205.8	204.6	204.6	205.8	205.8	205.8	204.6	205.8
42.5°	188.7	189.8	189.8	189.8	191.0	189.8	191.0	191.0
45°	172.8	173.9	173.9	173.9	173.9	173.9	175.1	175.1
47.5°	156.9	156.9	156.9	156.9	158.0	158.0	158.0	158.0
50°	139.8	139.8	139.8	139.8	141.0	139.8	141.0	141.0
52.5°	121.6	121.6	121.6	121.6	121.6	121.6	122.8	121.6
55°	103.4	103.4	103.4	103.4	102.3	102.3	102.3	103.4
57.5°	86.4	85.3	84.1	85.3	83.0	83.0	83.0	83.0
60°	68.2	67.1	67.1	65.9	64.8	63.7	64.8	63.7
62.5°	52.3	51.2	51.2	48.9	47.7	47.7	46.6	46.6
65°	38.7	36.4	35.2	35.2	34.1	33.0	31.8	31.8
67.5°	25.0	23.9	22.7	22.7	21.6	20.5	20.5	19.3
70°	14.8	13.6	12.5	13.6	11.4	10.2	10.2	10.2
72.5°	6.8	5.7	5.7	5.7	4.5	4.5	4.5	4.5
75°	3.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	1.1	1.1	2.3	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	0.0	0.0	0.0	1.1	1.1	0.0	1.1
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)