

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: P644088

Luminaire Tested: ML5615LSWW9FS1E - 592H WW - 1500LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644088  
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 - 1500LM - 3500K  
Description: ML56 RR, WW OPTIC, 5" WW INSERT WITH HAZE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1041.3 lumens  
Efficiency: N/A  
Efficacy: 60.9 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

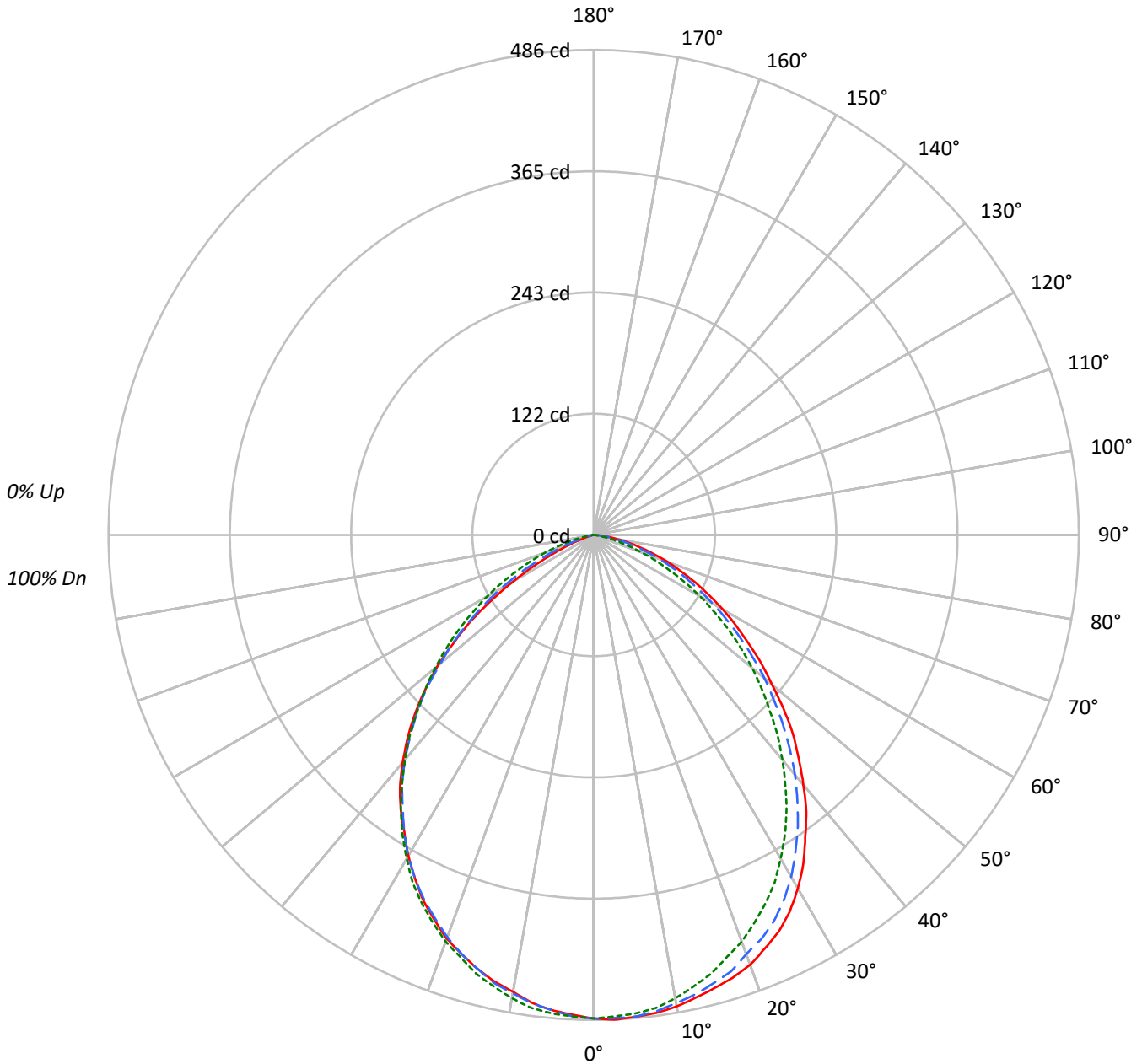
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	38255	38255	38255	38255	38255
5°	38401	38401	38147	37886	37886
10°	38452	38188	37795	37402	37266
15°	38403	37994	37193	36785	36785
20°	38509	37543	36434	36022	36157
25°	38203	37201	35485	35058	35198
30°	37291	36088	34146	33845	33845
35°	35618	34356	32457	32139	32457
40°	33687	32337	30307	30307	30647
45°	31549	29897	27876	27876	28245
50°	28652	27436	25422	24611	25016
55°	25998	24649	22612	21030	20576
60°	23603	21788	19451	16862	14525
65°	20864	19034	15653	11656	8592
70°	18211	15926	11748	6440	3416
75°	14518	12536	7503	2013	1007
80°	11183	8228	3000	727	727
85°	5978	4438	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31549 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.7	4.4
10°-20°	129.0	12.4
20°-30°	190.2	18.3
30°-40°	215.4	20.7
40°-50°	199.0	19.1
50°-60°	148.7	14.3
60°-70°	82.1	7.9
70°-80°	27.7	2.7
80°-90°	3.5	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°	364.9	35.0
0°-40°	580.3	55.7
0°-60°	928.0	89.1
0°-90°	1041.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	485	485	485	485	485	
5°	485	485	481	478	478	46
15°	470	465	455	450	450	133
25°	439	427	407	402	404	201
35°	370	356	337	334	337	231
45°	283	268	250	250	253	217
55°	189	179	164	153	150	170
65°	112	102	84	62	46	111
75°	48	41	25	7	3	52
85°	7	5	0	0	0	10
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°	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6
2.5°	486.3	486.3	486.3	486.3	484.6	484.6	486.3	484.6	484.6	484.6	484.6
5°	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6
7.5°	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	481.4	481.4	481.4
10°	479.7	479.7	479.7	479.7	479.7	479.7	479.7	478.1	478.1	478.1	476.4
12.5°	474.8	476.4	474.8	476.4	474.8	474.8	473.1	473.1	473.1	471.5	471.5
15°	469.9	469.9	469.9	469.9	469.9	468.2	468.2	466.6	466.6	466.6	464.9
17.5°	464.9	463.3	463.3	463.3	461.6	461.6	461.6	461.6	460.0	458.4	458.4
20°	458.4	456.7	456.7	456.7	455.1	455.1	453.4	453.4	450.1	450.1	446.9
22.5°	448.5	448.5	448.5	446.9	446.9	445.2	445.2	443.6	441.9	440.3	438.6
25°	438.6	438.6	437.0	437.0	435.4	435.4	435.4	432.1	430.4	428.8	427.1
27.5°	425.5	425.5	423.9	423.9	422.2	420.6	420.6	417.3	417.3	414.0	412.4
30°	409.1	409.1	409.1	405.8	405.8	405.8	404.1	402.5	399.2	397.6	395.9
32.5°	391.0	389.4	389.4	389.4	387.7	386.1	386.1	382.8	381.1	379.5	376.2
35°	369.6	369.6	369.6	369.6	368.0	366.4	366.4	363.1	361.4	358.1	356.5
37.5°	349.9	349.9	348.3	348.3	345.0	346.6	345.0	343.4	341.7	336.8	335.1
40°	326.9	326.9	326.9	325.3	323.6	323.6	322.0	320.4	317.1	315.4	313.8
42.5°	303.9	303.9	303.9	302.3	300.6	300.6	300.6	297.4	295.7	294.1	290.8
45°	282.6	280.9	280.9	279.3	279.3	277.6	276.0	274.4	272.7	271.1	267.8
47.5°	257.9	257.9	256.3	256.3	254.6	254.6	253.0	251.4	249.7	248.1	244.8
50°	233.3	234.9	234.9	233.3	233.3	231.6	230.0	230.0	228.4	226.7	223.4
52.5°	211.9	211.9	211.9	210.3	210.3	208.6	208.6	207.0	205.4	202.1	200.4
55°	188.9	190.6	188.9	188.9	188.9	187.3	187.3	185.6	184.0	180.7	179.1
57.5°	169.2	169.2	167.6	167.6	165.9	165.9	165.9	164.3	162.6	161.0	157.7
60°	149.5	147.9	147.9	147.9	146.2	146.2	146.2	142.9	141.3	139.6	138.0
62.5°	129.8	129.8	129.8	128.1	128.1	126.5	124.9	124.9	123.2	121.6	118.3
65°	111.7	111.7	110.1	110.1	110.1	108.4	108.4	106.8	105.1	103.5	101.9
67.5°	93.6	93.6	93.6	92.0	92.0	92.0	90.4	88.7	88.7	87.1	85.4
70°	78.9	77.2	77.2	77.2	75.6	75.6	75.6	73.9	72.3	70.6	69.0
72.5°	62.4	62.4	62.4	62.4	60.8	60.8	59.1	59.1	57.5	55.9	54.2
75°	47.6	47.6	47.6	47.6	46.0	46.0	46.0	44.4	44.4	42.7	41.1
77.5°	36.1	36.1	36.1	34.5	34.5	32.9	32.9	32.9	31.2	31.2	29.6
80°	24.6	24.6	23.0	23.0	23.0	23.0	23.0	21.4	19.7	19.7	18.1
82.5°	14.8	14.8	14.8	13.1	13.1	13.1	13.1	13.1	11.5	11.5	9.9
85°	6.6	6.6	6.6	6.6	6.6	6.6	4.9	4.9	4.9	4.9	4.9
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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°	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6
2.5°	484.6	484.6	484.6	484.6	484.6	484.6	484.6	483.0	483.0	483.0	483.0
5°	483.0	483.0	483.0	483.0	483.0	481.4	483.0	481.4	481.4	481.4	481.4
7.5°	479.7	479.7	479.7	479.7	478.1	479.7	478.1	478.1	478.1	478.1	476.4
10°	476.4	474.8	474.8	474.8	474.8	473.1	473.1	471.5	471.5	471.5	469.9
12.5°	471.5	469.9	469.9	468.2	468.2	468.2	466.6	466.6	464.9	463.3	463.3
15°	463.3	463.3	461.6	460.0	460.0	458.4	458.4	456.7	456.7	455.1	453.4
17.5°	456.7	455.1	453.4	451.8	450.1	450.1	448.5	446.9	446.9	443.6	443.6
20°	445.2	443.6	441.9	440.3	440.3	440.3	437.0	437.0	435.4	433.7	432.1
22.5°	435.4	433.7	430.4	428.8	428.8	427.1	425.5	423.9	422.2	420.6	418.9
25°	423.9	422.2	418.9	417.3	415.6	414.0	412.4	410.7	409.1	407.4	405.8
27.5°	409.1	405.8	405.8	402.5	400.9	399.2	397.6	395.9	394.3	392.6	391.0
30°	392.6	391.0	387.7	384.4	382.8	382.8	379.5	377.9	377.9	374.6	372.9
32.5°	374.6	371.3	368.0	366.4	364.7	363.1	361.4	359.8	358.1	356.5	354.9
35°	354.9	349.9	348.3	345.0	345.0	343.4	341.7	338.4	338.4	336.8	333.5
37.5°	333.5	330.2	328.6	325.3	323.6	322.0	320.4	318.7	317.1	315.4	313.8
40°	310.5	307.2	305.6	303.9	302.3	300.6	299.0	297.4	295.7	294.1	292.4
42.5°	287.5	285.9	282.6	279.3	279.3	277.6	276.0	274.4	272.7	272.7	271.1
45°	264.5	262.9	259.6	257.9	256.3	256.3	253.0	253.0	251.4	249.7	249.7
47.5°	243.1	239.9	236.6	236.6	233.3	234.9	231.6	231.6	228.4	228.4	226.7
50°	220.1	218.5	215.2	213.6	213.6	211.9	210.3	210.3	208.6	207.0	205.4
52.5°	198.8	195.5	193.9	192.2	190.6	190.6	188.9	188.9	185.6	185.6	184.0
55°	177.4	175.8	172.5	170.9	170.9	170.9	167.6	165.9	165.9	164.3	162.6
57.5°	156.1	154.4	152.8	151.1	149.5	149.5	147.9	146.2	144.6	142.9	139.6
60°	136.4	134.7	133.1	131.4	129.8	129.8	128.1	126.5	124.9	123.2	121.6
62.5°	116.6	116.6	113.4	111.7	110.1	110.1	108.4	106.8	105.1	103.5	101.9
65°	100.2	98.6	95.3	93.6	93.6	93.6	90.4	88.7	87.1	83.8	82.1
67.5°	83.8	80.5	78.9	78.9	77.2	75.6	73.9	72.3	69.0	67.4	64.1
70°	67.4	65.7	64.1	62.4	60.8	59.1	57.5	55.9	52.6	50.9	49.3
72.5°	52.6	50.9	49.3	47.6	46.0	46.0	42.7	41.1	39.4	36.1	34.5
75°	39.4	37.8	36.1	34.5	32.9	31.2	31.2	27.9	26.3	24.6	21.4
77.5°	27.9	26.3	24.6	23.0	23.0	21.4	19.7	18.1	16.4	14.8	13.1
80°	18.1	16.4	14.8	14.8	13.1	13.1	11.5	9.9	8.2	6.6	6.6
82.5°	9.9	8.2	8.2	6.6	6.6	6.6	4.9	3.3	3.3	3.3	1.6
85°	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6	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°	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6
2.5°	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	481.4	481.4
5°	479.7	479.7	479.7	479.7	479.7	479.7	478.1	478.1	478.1	478.1	478.1
7.5°	476.4	476.4	476.4	474.8	474.8	474.8	474.8	473.1	473.1	473.1	473.1
10°	469.9	469.9	469.9	468.2	468.2	468.2	468.2	468.2	466.6	466.6	466.6
12.5°	461.6	461.6	461.6	461.6	461.6	460.0	460.0	460.0	460.0	458.4	460.0
15°	453.4	453.4	451.8	451.8	451.8	450.1	450.1	450.1	450.1	450.1	450.1
17.5°	443.6	441.9	441.9	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3
20°	432.1	430.4	430.4	430.4	430.4	428.8	428.8	427.1	428.8	428.8	428.8
22.5°	418.9	417.3	417.3	417.3	415.6	415.6	415.6	415.6	415.6	415.6	415.6
25°	405.8	404.1	402.5	402.5	402.5	400.9	400.9	402.5	402.5	402.5	402.5
27.5°	389.4	389.4	387.7	387.7	387.7	386.1	386.1	386.1	387.7	387.7	387.7
30°	371.3	371.3	371.3	371.3	369.6	369.6	371.3	369.6	371.3	369.6	371.3
32.5°	354.9	354.9	353.2	351.6	351.6	353.2	351.6	351.6	353.2	353.2	353.2
35°	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	335.1	336.8
37.5°	313.8	313.8	313.8	313.8	313.8	313.8	313.8	315.4	315.4	315.4	315.4
40°	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	294.1	294.1	295.7
42.5°	269.4	271.1	271.1	271.1	269.4	269.4	271.1	271.1	271.1	272.7	272.7
45°	248.1	248.1	248.1	248.1	249.7	248.1	248.1	248.1	249.7	249.7	249.7
47.5°	226.7	225.1	225.1	226.7	225.1	225.1	225.1	225.1	226.7	226.7	225.1
50°	205.4	203.7	203.7	203.7	202.1	202.1	203.7	200.4	200.4	200.4	202.1
52.5°	184.0	182.4	180.7	180.7	180.7	179.1	177.4	177.4	177.4	175.8	175.8
55°	161.0	159.4	157.7	157.7	157.7	156.1	156.1	152.8	152.8	151.1	151.1
57.5°	139.6	138.0	136.4	136.4	134.7	133.1	133.1	129.8	129.8	128.1	124.9
60°	118.3	116.6	115.0	115.0	115.0	111.7	110.1	106.8	106.8	103.5	101.9
62.5°	98.6	96.9	95.3	93.6	93.6	90.4	88.7	85.4	83.8	82.1	78.9
65°	80.5	77.2	75.6	73.9	73.9	70.6	69.0	65.7	62.4	60.8	57.5
67.5°	62.4	60.8	57.5	55.9	55.9	52.6	49.3	47.6	44.4	41.1	39.4
70°	46.0	44.4	41.1	39.4	37.8	36.1	32.9	31.2	27.9	26.3	23.0
72.5°	31.2	29.6	26.3	26.3	24.6	21.4	19.7	18.1	14.8	13.1	11.5
75°	19.7	18.1	16.4	14.8	13.1	11.5	9.9	8.2	6.6	4.9	4.9
77.5°	11.5	9.9	8.2	6.6	6.6	4.9	3.3	3.3	3.3	1.6	1.6
80°	4.9	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	1.6	1.6
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





TEST NUMBER: P644088

CATALOG NUMBER: ML5615LSWW9FS1E - 592H WW - 1500LM - 3500K

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.6
2.5°	483.0	481.4	483.0	483.0	481.4	481.4	481.4	481.4
5°	478.1	478.1	478.1	478.1	478.1	478.1	478.1	478.1
7.5°	474.8	473.1	473.1	473.1	473.1	473.1	473.1	473.1
10°	466.6	466.6	466.6	466.6	466.6	466.6	466.6	464.9
12.5°	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4
15°	450.1	450.1	450.1	450.1	450.1	450.1	450.1	450.1
17.5°	440.3	440.3	440.3	440.3	440.3	438.6	440.3	440.3
20°	428.8	428.8	428.8	428.8	428.8	428.8	428.8	430.4
22.5°	415.6	415.6	415.6	415.6	415.6	415.6	415.6	417.3
25°	402.5	402.5	402.5	402.5	402.5	402.5	402.5	404.1
27.5°	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7
30°	371.3	371.3	372.9	371.3	371.3	371.3	372.9	371.3
32.5°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	353.2
35°	336.8	335.1	336.8	336.8	336.8	336.8	336.8	336.8
37.5°	317.1	317.1	317.1	317.1	317.1	317.1	318.7	318.7
40°	297.4	295.7	295.7	297.4	297.4	297.4	295.7	297.4
42.5°	272.7	274.4	274.4	274.4	276.0	274.4	276.0	276.0
45°	249.7	251.4	251.4	251.4	251.4	251.4	253.0	253.0
47.5°	226.7	226.7	226.7	226.7	228.4	228.4	228.4	228.4
50°	202.1	202.1	202.1	202.1	203.7	202.1	203.7	203.7
52.5°	175.8	175.8	175.8	175.8	175.8	175.8	177.4	175.8
55°	149.5	149.5	149.5	149.5	147.9	147.9	147.9	149.5
57.5°	124.9	123.2	121.6	123.2	119.9	119.9	119.9	119.9
60°	98.6	96.9	96.9	95.3	93.6	92.0	93.6	92.0
62.5°	75.6	73.9	73.9	70.6	69.0	69.0	67.4	67.4
65°	55.9	52.6	50.9	50.9	49.3	47.6	46.0	46.0
67.5°	36.1	34.5	32.9	32.9	31.2	29.6	29.6	27.9
70°	21.4	19.7	18.1	19.7	16.4	14.8	14.8	14.8
72.5°	9.9	8.2	8.2	8.2	6.6	6.6	6.6	6.6
75°	4.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
77.5°	1.6	1.6	3.3	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	0.0	0.0	0.0	1.6	1.6	0.0	1.6
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)