

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: P644129

Luminaire Tested: ML5615LSWW9FS1E - 692H WW - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644129  
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: ML5615LSWW9FS1E - 692H WW - 1200LM - 4000K  
Description: ML56 RR, WW OPTIC, 6" WW INSERT WITH HAZE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

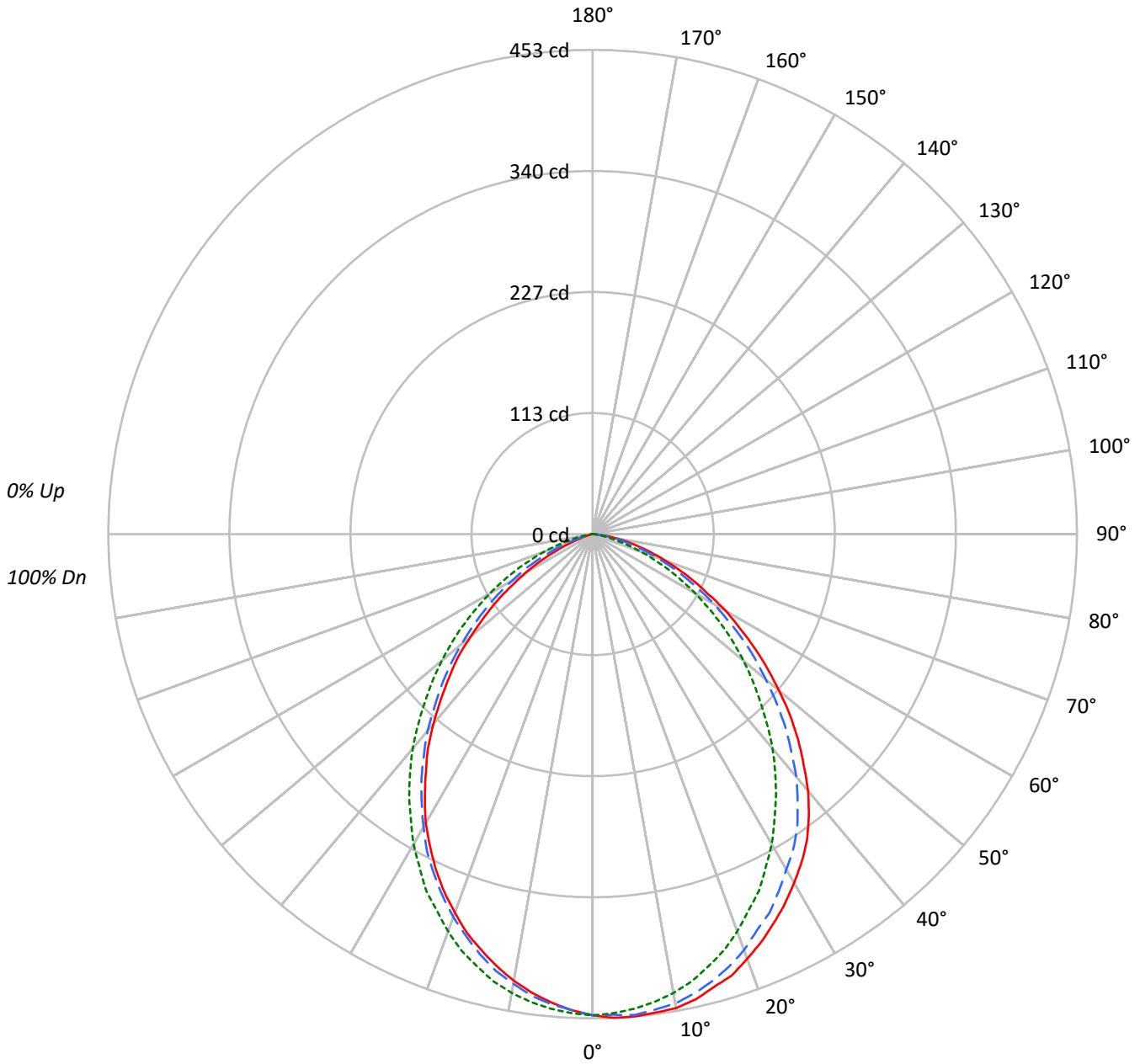
Lumens per Lamp: N/A  
Luminaire Lumens: 931.4 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.12 / 1.23  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.4  
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	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°	24680	24680	24680	24680	24680
5°	24928	24851	24532	24296	24219
10°	25061	24816	24259	23775	23619
15°	24892	24569	23752	23099	22855
20°	24665	24164	23073	22233	21982
25°	24274	23663	22271	21225	20965
30°	23852	22940	21212	20028	19756
35°	23390	22332	20017	18672	18190
40°	22435	21204	18735	17189	16567
45°	21072	19738	17172	15498	14715
50°	19377	18029	15701	13611	12631
55°	17596	16353	14021	11679	10446
60°	15766	14352	12137	9462	7883
65°	13620	12310	10079	7095	5033
70°	11524	10146	7613	4376	2308
75°	9447	7922	4872	1525	911
80°	6819	5462	2273	442	442
85°	3648	2705	881	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21072 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.3	4.5
10°-20°	118.2	12.7
20°-30°	170.3	18.3
30°-40°	190.4	20.4
40°-50°	174.6	18.7
50°-60°	131.1	14.1
60°-70°	74.9	8.0
70°-80°	26.1	2.8
80°-90°	3.4	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°	330.8	35.5
0°-40°	521.2	56.0
0°-60°	827.0	88.8
0°-90°	931.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	931.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	450	450	450	450	450	
5°	453	452	446	442	440	43
15°	439	433	418	407	403	124
25°	401	391	368	351	347	185
35°	350	334	299	279	272	218
45°	272	255	222	200	190	209
55°	184	171	147	122	109	165
65°	105	95	78	55	39	104
75°	45	37	23	7	4	48
85°	6	4	1	0	0	8
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°	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2
2.5°	453.0	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	450.2
5°	453.0	453.0	453.0	453.0	453.0	453.0	453.0	451.6	451.6	451.6	451.6
7.5°	451.6	451.6	451.6	451.6	451.6	451.6	451.6	450.2	450.2	448.7	448.7
10°	450.2	450.2	450.2	448.7	448.7	448.7	448.7	448.7	447.3	447.3	445.8
12.5°	445.8	445.8	445.8	445.8	444.4	444.4	444.4	443.0	441.5	441.5	440.1
15°	438.6	440.1	440.1	438.6	438.6	438.6	438.6	437.2	435.8	434.3	432.9
17.5°	432.9	432.9	432.9	431.5	430.0	431.5	430.0	428.6	427.1	425.7	424.3
20°	422.8	422.8	421.4	421.4	421.4	421.4	420.0	418.5	417.1	415.6	414.2
22.5°	412.8	412.8	412.8	409.9	409.9	409.9	408.4	408.4	405.6	404.1	401.3
25°	401.3	401.3	401.3	399.8	398.4	396.9	398.4	395.5	394.1	391.2	391.2
27.5°	389.7	389.7	388.3	388.3	386.9	386.9	385.4	382.6	381.1	379.7	376.8
30°	376.8	376.8	375.4	375.4	373.9	372.5	372.5	369.6	368.2	365.3	362.4
32.5°	363.9	363.9	362.4	362.4	361.0	359.5	359.5	356.7	353.8	350.9	349.5
35°	349.5	349.5	348.0	348.0	346.6	345.2	343.7	340.9	339.4	335.1	333.7
37.5°	332.2	333.7	330.8	330.8	329.3	327.9	326.5	325.0	322.2	319.3	315.0
40°	313.5	312.1	312.1	310.6	309.2	309.2	307.8	304.9	303.5	299.1	296.3
42.5°	292.0	292.0	292.0	290.5	289.1	289.1	286.2	284.8	281.9	279.0	274.7
45°	271.8	271.8	270.4	270.4	267.5	267.5	266.1	263.2	261.8	257.4	254.6
47.5°	250.2	248.8	248.8	247.4	245.9	245.9	244.5	243.1	240.2	235.9	233.0
50°	227.2	227.2	227.2	225.8	224.4	224.4	222.9	220.0	218.6	215.7	211.4
52.5°	205.7	205.7	205.7	204.2	202.8	202.8	201.3	199.9	197.0	194.2	191.3
55°	184.1	184.1	184.1	182.7	182.7	179.8	179.8	178.3	175.5	172.6	171.1
57.5°	162.5	162.5	162.5	162.5	161.1	161.1	159.6	158.2	155.3	153.9	149.6
60°	143.8	142.4	142.4	140.9	140.9	139.5	138.1	136.6	135.2	132.3	130.9
62.5°	122.2	123.7	122.2	122.2	120.8	120.8	120.8	117.9	116.5	113.6	112.2
65°	105.0	105.0	105.0	105.0	102.1	102.1	102.1	99.2	97.8	97.8	94.9
67.5°	87.7	87.7	87.7	86.3	86.3	86.3	84.9	83.4	82.0	80.5	79.1
70°	71.9	71.9	71.9	70.5	70.5	69.0	69.0	67.6	66.2	66.2	63.3
72.5°	57.5	57.5	57.5	57.5	56.1	56.1	54.7	54.7	53.2	51.8	50.3
75°	44.6	44.6	44.6	43.1	43.1	43.1	41.7	41.7	40.3	38.8	37.4
77.5°	33.1	31.6	31.6	31.6	31.6	30.2	30.2	30.2	28.8	27.3	27.3
80°	21.6	21.6	21.6	21.6	21.6	20.1	20.1	20.1	18.7	18.7	17.3
82.5°	12.9	12.9	12.9	12.9	12.9	11.5	11.5	11.5	10.1	10.1	10.1
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.3	4.3	4.3
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2
2.5°	451.6	451.6	450.2	450.2	450.2	450.2	450.2	448.7	448.7	448.7	448.7
5°	451.6	450.2	448.7	448.7	448.7	448.7	447.3	447.3	447.3	445.8	445.8
7.5°	447.3	447.3	447.3	445.8	445.8	444.4	444.4	443.0	443.0	441.5	441.5
10°	444.4	443.0	443.0	441.5	441.5	440.1	440.1	437.2	435.8	435.8	434.3
12.5°	438.6	437.2	437.2	434.3	434.3	434.3	432.9	430.0	428.6	428.6	427.1
15°	431.5	430.0	428.6	425.7	425.7	424.3	422.8	421.4	420.0	418.5	417.1
17.5°	422.8	420.0	418.5	417.1	415.6	414.2	412.8	411.3	408.4	408.4	405.6
20°	412.8	409.9	408.4	405.6	404.1	404.1	401.3	398.4	396.9	395.5	392.6
22.5°	399.8	398.4	395.5	392.6	391.2	391.2	388.3	385.4	384.0	381.1	379.7
25°	388.3	384.0	382.6	379.7	378.2	378.2	375.4	372.5	369.6	368.2	365.3
27.5°	373.9	371.1	369.6	365.3	363.9	362.4	359.5	356.7	353.8	350.9	348.0
30°	359.5	356.7	353.8	349.5	349.5	346.6	343.7	339.4	338.0	335.1	330.8
32.5°	345.2	342.3	338.0	335.1	332.2	330.8	326.5	323.6	320.7	316.4	315.0
35°	329.3	325.0	322.2	317.8	316.4	313.5	310.6	306.3	303.5	299.1	294.8
37.5°	312.1	306.3	303.5	299.1	297.7	294.8	292.0	289.1	284.8	280.4	277.6
40°	293.4	287.6	283.3	280.4	277.6	274.7	273.3	267.5	264.6	261.8	258.9
42.5°	271.8	267.5	263.2	260.3	257.4	256.0	251.7	248.8	244.5	241.6	238.7
45°	251.7	247.4	243.1	238.7	237.3	235.9	233.0	228.7	224.4	221.5	218.6
47.5°	230.1	227.2	221.5	220.0	217.2	215.7	211.4	208.5	207.1	202.8	199.9
50°	208.5	205.7	202.8	198.5	197.0	195.6	192.7	189.8	187.0	184.1	181.2
52.5°	187.0	185.5	182.7	178.3	178.3	176.9	174.0	171.1	168.3	165.4	162.5
55°	168.3	165.4	162.5	159.6	158.2	156.8	153.9	152.4	149.6	146.7	143.8
57.5°	148.1	145.3	143.8	140.9	139.5	138.1	135.2	133.8	130.9	128.0	125.1
60°	129.4	126.6	125.1	122.2	120.8	120.8	117.9	115.1	113.6	110.7	107.9
62.5°	110.7	107.9	106.4	103.5	103.5	102.1	100.7	97.8	96.4	93.5	92.0
65°	93.5	92.0	89.2	87.7	86.3	84.9	83.4	82.0	79.1	77.7	74.8
67.5°	77.7	74.8	73.3	71.9	70.5	69.0	67.6	66.2	63.3	61.8	59.0
70°	61.8	60.4	59.0	57.5	56.1	56.1	53.2	51.8	48.9	47.5	44.6
72.5°	48.9	47.5	46.0	43.1	43.1	41.7	40.3	38.8	36.0	34.5	31.6
75°	36.0	36.0	33.1	31.6	31.6	30.2	28.8	27.3	25.9	23.0	21.6
77.5°	25.9	24.4	23.0	21.6	20.1	20.1	18.7	17.3	15.8	14.4	11.5
80°	17.3	15.8	14.4	12.9	12.9	11.5	10.1	10.1	8.6	7.2	5.8
82.5°	8.6	8.6	7.2	7.2	5.8	5.8	5.8	4.3	4.3	2.9	2.9
85°	4.3	2.9	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	0.0
87.5°	1.4	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°	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2
2.5°	448.7	447.3	448.7	448.7	447.3	447.3	447.3	447.3	445.8	447.3	445.8
5°	445.8	444.4	444.4	444.4	444.4	443.0	443.0	441.5	441.5	441.5	441.5
7.5°	440.1	438.6	438.6	437.2	437.2	437.2	437.2	435.8	435.8	434.3	434.3
10°	434.3	432.9	431.5	431.5	430.0	430.0	430.0	428.6	427.1	427.1	425.7
12.5°	424.3	424.3	422.8	422.8	421.4	421.4	420.0	418.5	418.5	417.1	417.1
15°	415.6	414.2	412.8	412.8	411.3	409.9	408.4	408.4	407.0	407.0	405.6
17.5°	404.1	401.3	401.3	399.8	398.4	398.4	396.9	395.5	394.1	394.1	394.1
20°	391.2	389.7	388.3	386.9	385.4	385.4	384.0	382.6	381.1	379.7	379.7
22.5°	376.8	375.4	373.9	372.5	372.5	371.1	369.6	368.2	366.7	365.3	365.3
25°	362.4	361.0	359.5	358.1	356.7	355.2	353.8	352.4	350.9	349.5	349.5
27.5°	346.6	343.7	342.3	340.9	339.4	338.0	338.0	335.1	335.1	333.7	332.2
30°	329.3	326.5	323.6	323.6	322.2	320.7	317.8	317.8	316.4	315.0	313.5
32.5°	310.6	309.2	306.3	306.3	303.5	302.0	300.6	299.1	297.7	296.3	296.3
35°	293.4	289.1	287.6	287.6	284.8	283.3	281.9	279.0	279.0	276.1	276.1
37.5°	274.7	271.8	270.4	267.5	266.1	264.6	263.2	260.3	258.9	257.4	256.0
40°	256.0	253.1	250.2	248.8	247.4	244.5	243.1	240.2	240.2	237.3	235.9
42.5°	235.9	233.0	230.1	228.7	227.2	224.4	222.9	220.0	218.6	217.2	215.7
45°	215.7	212.9	211.4	210.0	208.5	207.1	202.8	201.3	199.9	197.0	195.6
47.5°	197.0	194.2	191.3	191.3	188.4	187.0	184.1	181.2	179.8	176.9	175.5
50°	178.3	175.5	172.6	171.1	171.1	166.8	165.4	162.5	159.6	156.8	155.3
52.5°	159.6	156.8	153.9	152.4	151.0	148.1	145.3	143.8	140.9	138.1	136.6
55°	140.9	138.1	135.2	133.8	132.3	129.4	128.0	123.7	122.2	119.4	116.5
57.5°	123.7	120.8	117.9	116.5	115.1	112.2	109.3	106.4	105.0	102.1	99.2
60°	105.0	103.5	100.7	99.2	97.8	96.4	92.0	89.2	86.3	84.9	82.0
62.5°	89.2	86.3	83.4	82.0	80.5	79.1	76.2	73.3	71.9	67.6	64.7
65°	73.3	70.5	67.6	66.2	64.7	63.3	60.4	57.5	54.7	51.8	50.3
67.5°	56.1	54.7	51.8	51.8	50.3	47.5	44.6	43.1	40.3	38.8	36.0
70°	43.1	41.7	38.8	37.4	36.0	33.1	31.6	28.8	27.3	25.9	23.0
72.5°	30.2	28.8	25.9	24.4	23.0	21.6	18.7	17.3	15.8	14.4	12.9
75°	20.1	17.3	15.8	14.4	14.4	11.5	10.1	8.6	7.2	5.8	5.8
77.5°	11.5	10.1	7.2	7.2	7.2	5.8	4.3	4.3	2.9	2.9	2.9
80°	5.8	4.3	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	1.4	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 - 692H WW - 1200LM - 4000K

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2
2.5°	445.8	445.8	445.8	445.8	445.8	445.8	445.8	445.8
5°	441.5	440.1	440.1	440.1	440.1	440.1	440.1	440.1
7.5°	434.3	434.3	432.9	434.3	432.9	432.9	432.9	432.9
10°	425.7	425.7	425.7	425.7	424.3	424.3	424.3	424.3
12.5°	417.1	415.6	415.6	415.6	414.2	415.6	414.2	414.2
15°	405.6	404.1	404.1	404.1	404.1	402.7	404.1	402.7
17.5°	392.6	392.6	391.2	392.6	391.2	391.2	391.2	391.2
20°	378.2	378.2	378.2	376.8	378.2	376.8	376.8	376.8
22.5°	363.9	363.9	362.4	362.4	362.4	362.4	362.4	362.4
25°	348.0	348.0	348.0	348.0	346.6	346.6	346.6	346.6
27.5°	332.2	330.8	330.8	330.8	329.3	330.8	329.3	329.3
30°	313.5	313.5	312.1	312.1	312.1	310.6	310.6	312.1
32.5°	293.4	293.4	293.4	293.4	292.0	292.0	292.0	292.0
35°	274.7	274.7	273.3	273.3	273.3	271.8	271.8	271.8
37.5°	254.6	254.6	253.1	253.1	253.1	251.7	251.7	253.1
40°	234.4	234.4	233.0	233.0	233.0	231.5	231.5	231.5
42.5°	214.3	212.9	212.9	211.4	211.4	211.4	210.0	210.0
45°	194.2	192.7	192.7	192.7	191.3	189.8	189.8	189.8
47.5°	174.0	172.6	171.1	171.1	169.7	169.7	169.7	171.1
50°	153.9	152.4	152.4	151.0	149.6	149.6	149.6	148.1
52.5°	133.8	132.3	132.3	130.9	130.9	129.4	128.0	128.0
55°	115.1	113.6	112.2	110.7	110.7	109.3	109.3	109.3
57.5°	96.4	94.9	93.5	93.5	92.0	92.0	90.6	89.2
60°	79.1	77.7	76.2	76.2	74.8	73.3	71.9	71.9
62.5°	63.3	61.8	60.4	59.0	57.5	56.1	54.7	56.1
65°	48.9	46.0	44.6	43.1	43.1	41.7	40.3	38.8
67.5°	34.5	33.1	31.6	30.2	28.8	27.3	25.9	25.9
70°	21.6	18.7	18.7	18.7	17.3	15.8	14.4	14.4
72.5°	11.5	10.1	8.6	8.6	7.2	7.2	7.2	7.2
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)