

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: P710067

Luminaire Tested: RA4LS9FSD2W1EWH-900lm-2700K

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P710067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2304449A001)  
Test Lab: EVERFINE  
Issue Date: 10/6/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: RA4LS9FSD2W1EWH-900lm-2700K  
Description: 4IN RETROFIT SELECTABLE LUMENS  
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

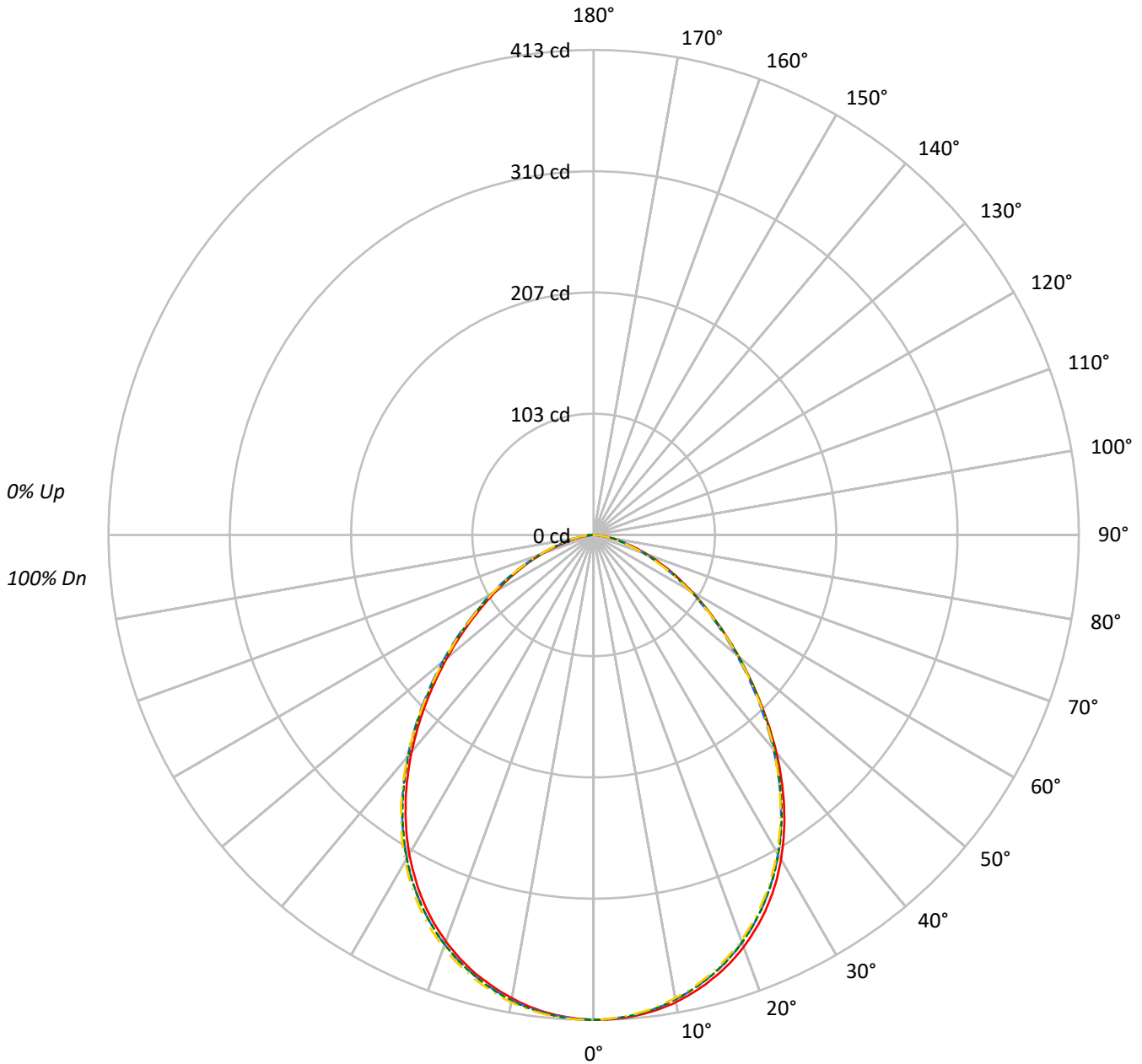
Lumens per Lamp: 920.71 (1 lamp)  
Luminaire Lumens: 860.0 lumens  
Efficiency: 93.4%  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.22  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.7  
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									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	0																
RCR																																					
0	111	111	111	111	109	109	109	109	104	104	104	99	99	99	95	95	95	93																			
1	103	99	96	93	101	97	94	91	93	91	88	90	88	86	86	85	83	81																			
2	95	88	83	78	93	87	81	77	83	79	75	80	77	74	78	75	72	70																			
3	88	79	72	67	85	77	71	66	75	69	65	72	68	64	70	66	63	61																			
4	81	71	63	58	79	70	63	57	67	61	57	65	60	56	63	59	55	53																			
5	75	64	56	51	73	63	56	50	61	55	50	59	54	49	58	53	49	47																			
6	69	58	50	45	68	57	50	45	56	49	44	54	48	44	53	48	44	42																			
7	65	53	45	40	63	52	45	40	51	44	40	50	44	39	48	43	39	37																			
8	60	49	41	36	59	48	41	36	47	40	36	46	40	36	45	39	35	34																			
9	57	45	38	33	55	44	37	33	43	37	33	42	37	32	41	36	32	31																			
10	53	42	35	30	52	41	34	30	40	34	30	39	34	30	39	33	30	28																			

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

	0°	90°	180°	270°
0°	51963	51963	51963	51963
5°	51922	51808	51720	51859
10°	51628	51321	51193	51462
15°	50969	50578	50422	50709
20°	50008	49446	49298	49700
25°	48504	47851	47726	48254
30°	46357	45645	45616	46226
35°	43417	42833	42879	43571
40°	39741	39412	39576	40250
45°	35613	35525	35809	36503
50°	31541	31541	31855	32540
55°	27690	27624	27953	28743
60°	24239	23937	24213	24918
65°	21083	20369	20696	21143
70°	17883	16853	17000	17294
75°	14198	13518	12059	13809
80°	11161	11378	9204	11596
85°	6642	8808	2744	9819

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 300°  
 Vertical Angle: 45°  
 Luminance: 37002 cd/sqm



TEST NUMBER: P710067  
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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.9	4.5	4.2
10°-20°	109.5	12.7	11.9
20°-30°	159.0	18.5	17.3
30°-40°	175.2	20.4	19.0
40°-50°	155.6	18.1	16.9
50°-60°	114.7	13.3	12.5
60°-70°	69.8	8.1	7.6
70°-80°	30.6	3.6	3.3
80°-90°	6.6	0.8	0.7
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	307.4	35.7	33.4
0°-40°	482.7	56.1	52.4
0°-60°	753.0	87.6	81.8
0°-90°	860.0	100.0	93.4
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	860.0	100.0	93.4

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	413	413	413	413	413	
5°	411	410	409	410	411	39
15°	391	388	387	389	391	110
25°	349	345	344	348	349	160
35°	283	279	279	284	283	176
45°	200	200	201	205	200	154
55°	126	126	127	131	126	113
65°	71	68	70	71	71	71
75°	29	28	25	28	29	32
85°	5	6	2	7	5	6
90°	0	0	0	0	0	



TEST NUMBER: P710067

CATALOG NUMBER: RA4LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9
0.5°	412.9	412.7	412.6	412.9	412.8	412.8	412.8	412.7	412.6	413.0	413.0
1°	412.9	412.7	412.5	412.8	412.7	412.7	412.5	412.6	412.6	412.8	413.0
1.5°	412.8	412.6	412.3	412.6	412.4	412.4	412.4	412.5	412.5	412.8	412.9
2°	412.8	412.5	412.1	412.5	412.1	412.1	412.2	412.3	412.4	412.6	412.9
2.5°	412.6	412.2	411.8	412.2	411.8	411.8	411.8	412.0	412.1	412.4	412.7
3°	412.4	412.0	411.5	411.9	411.4	411.5	411.4	411.7	411.9	412.2	412.5
3.5°	412.1	411.6	411.1	411.5	411.0	411.1	411.0	411.3	411.5	411.8	412.3
4°	411.8	411.4	410.7	411.1	410.5	410.6	410.6	410.9	411.2	411.4	411.9
4.5°	411.5	410.9	410.2	410.7	410.0	410.0	410.0	410.4	410.7	411.0	411.6
5°	411.0	410.4	409.7	410.1	409.4	409.4	409.4	409.9	410.3	410.5	411.2
5.5°	410.6	409.9	409.0	409.5	408.7	408.8	408.8	409.4	409.7	409.9	410.7
6°	410.1	409.3	408.4	409.0	408.0	408.1	408.2	408.8	409.3	409.3	410.3
6.5°	409.5	408.7	407.7	408.3	407.3	407.4	407.5	408.1	408.5	408.7	409.7
7°	408.8	408.0	406.9	407.5	406.4	406.6	406.6	407.4	408.0	408.0	409.0
7.5°	408.2	407.3	406.0	406.7	405.5	405.7	405.9	406.6	407.2	407.3	408.3
8°	407.4	406.4	405.2	405.8	404.4	404.8	404.9	405.8	406.4	406.5	407.7
8.5°	406.7	405.6	404.2	404.8	403.5	403.8	403.9	404.9	405.5	405.6	406.9
9°	405.9	404.5	403.2	403.7	402.4	402.8	402.9	403.9	404.6	404.8	406.0
9.5°	405.1	403.6	402.1	402.6	401.3	401.7	401.8	402.9	403.7	403.7	405.1
10°	404.0	402.5	401.1	401.6	400.0	400.6	400.6	401.7	402.7	402.7	404.2
10.5°	403.0	401.3	399.9	400.5	398.9	399.4	399.4	400.6	401.5	401.6	403.2
11°	401.8	400.1	398.7	399.3	397.7	398.2	398.2	399.5	400.4	400.3	402.2
11.5°	400.7	399.0	397.4	398.0	396.5	396.9	397.0	398.2	399.1	399.1	401.0
12°	399.5	397.7	396.1	396.8	395.1	395.6	395.7	396.9	398.1	397.9	399.8
12.5°	398.2	396.5	394.7	395.4	393.8	394.2	394.3	395.5	396.7	396.4	398.5
13°	396.9	395.1	393.4	394.1	392.3	392.9	393.0	394.2	395.3	395.2	397.2
13.5°	395.6	393.7	391.9	392.6	390.9	391.4	391.5	392.8	393.9	393.7	395.8
14°	394.3	392.1	390.4	391.3	389.4	389.9	390.0	391.4	392.5	392.3	394.6
14.5°	392.8	390.8	388.9	389.6	387.8	388.4	388.5	389.9	391.0	390.8	393.0
15°	391.2	389.2	387.4	388.2	386.1	386.8	387.0	388.4	389.5	389.2	391.6
15.5°	389.8	387.7	385.7	386.5	384.5	385.1	385.3	386.8	387.9	387.6	389.9
16°	388.2	385.8	384.0	384.8	382.6	383.4	383.7	385.2	386.3	386.1	388.4
16.5°	386.6	384.2	382.2	383.0	380.9	381.7	381.9	383.4	384.6	384.3	386.6
17°	384.8	382.5	380.4	381.3	379.1	379.8	380.1	381.7	383.0	382.6	385.1
17.5°	383.1	380.7	378.5	379.4	377.1	377.9	378.2	379.9	381.1	380.9	383.3
18°	381.3	378.7	376.5	377.5	375.1	376.1	376.3	378.2	379.4	379.0	381.6
18.5°	379.4	376.9	374.6	375.5	373.1	374.1	374.3	376.3	377.5	377.0	379.7
19°	377.4	374.8	372.6	373.5	371.0	372.1	372.4	374.3	375.6	375.1	377.9
19.5°	375.5	372.8	370.3	371.4	369.0	370.0	370.3	372.3	373.7	373.1	375.9
20°	373.4	370.5	368.1	369.2	366.8	367.8	368.1	370.2	371.6	371.1	373.9
20.5°	371.3	368.5	365.9	367.1	364.6	365.5	365.9	368.1	369.5	368.9	371.9
21°	369.1	366.2	363.8	364.7	362.3	363.4	363.6	366.0	367.4	366.8	369.8



TEST NUMBER: P710067

CATALOG NUMBER: RA4LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	362.1	359.1	356.5	357.7	354.9	356.1	356.6	359.0	360.6	360.0	363.1
23°	359.8	356.6	354.0	355.1	352.5	353.7	354.2	356.7	358.3	357.6	360.8
23.5°	357.3	354.0	351.3	352.6	349.7	351.2	351.6	354.2	355.8	355.0	358.4
24°	354.7	351.4	348.8	349.9	347.1	348.5	349.1	351.6	353.4	352.6	356.1
24.5°	352.2	348.7	346.1	347.3	344.4	345.9	346.4	349.0	350.8	350.0	353.4
25°	349.3	345.9	343.3	344.6	341.6	343.2	343.7	346.5	348.3	347.5	350.9
25.5°	346.6	343.1	340.4	341.7	338.9	340.3	341.0	343.8	345.5	344.7	348.2
26°	343.8	340.3	337.6	338.8	336.0	337.5	338.1	341.1	342.8	342.1	345.6
26.5°	341.0	337.3	334.6	335.9	333.2	334.7	335.3	338.2	340.2	339.2	342.7
27°	338.0	334.3	331.6	333.0	330.1	331.7	332.4	335.4	337.3	336.3	340.1
27.5°	335.0	331.4	328.6	330.1	327.2	328.7	329.3	332.5	334.5	333.4	337.1
28°	332.0	328.3	325.5	327.0	324.1	325.8	326.4	329.7	331.5	330.5	334.2
28.5°	328.8	325.1	322.3	323.9	321.0	322.7	323.3	326.5	328.6	327.4	331.1
29°	325.6	321.9	319.2	320.7	317.8	319.6	320.3	323.6	325.6	324.4	328.1
29.5°	322.4	318.6	315.8	317.4	314.6	316.2	317.1	320.4	322.6	321.3	325.1
30°	319.0	315.2	312.6	314.1	311.2	313.1	313.9	317.2	319.3	318.1	321.9
30.5°	315.6	311.8	309.1	310.9	307.8	309.9	310.6	314.0	316.1	314.8	318.7
31°	312.2	308.3	305.7	307.6	304.4	306.6	307.2	310.8	312.9	311.7	315.4
31.5°	308.7	304.8	302.2	304.1	301.1	303.2	304.0	307.5	309.7	308.3	312.1
32°	305.0	301.3	298.7	300.6	297.5	299.9	300.5	304.2	306.3	304.9	308.7
32.5°	301.3	297.7	295.0	297.1	294.0	296.3	296.9	300.6	302.9	301.3	305.1
33°	297.8	293.9	291.4	293.5	290.4	292.8	293.5	297.3	299.5	298.0	301.8
33.5°	294.1	290.2	287.8	289.9	286.9	289.3	290.0	293.8	296.0	294.4	298.2
34°	290.3	286.4	284.2	286.2	283.2	285.7	286.5	290.2	292.4	290.9	294.6
34.5°	286.4	282.7	280.3	282.5	279.5	282.1	282.7	286.7	288.8	287.2	290.9
35°	282.6	278.8	276.5	278.8	275.8	278.4	279.1	283.1	285.3	283.6	287.3
35.5°	278.7	274.9	272.7	275.1	272.1	274.6	275.5	279.5	281.7	279.8	283.6
36°	274.7	270.9	268.8	271.2	268.2	270.9	271.7	275.7	277.9	276.0	279.8
36.5°	270.8	267.1	264.9	267.3	264.5	267.1	267.8	272.1	274.2	272.4	276.1
37°	266.7	263.1	260.9	263.5	260.5	263.3	264.2	268.3	270.5	268.5	272.2
37.5°	262.6	259.0	257.1	259.7	256.7	259.5	260.4	264.5	266.6	264.7	268.4
38°	258.5	255.0	253.0	255.7	252.8	255.7	256.5	260.8	262.8	260.9	264.5
38.5°	254.4	250.9	249.1	251.8	248.9	251.7	252.6	256.9	258.9	256.9	260.5
39°	250.3	246.7	245.1	247.7	244.8	247.8	248.8	253.0	255.1	253.0	256.6
39.5°	246.1	242.6	241.1	243.8	240.9	243.9	244.9	249.2	251.2	249.0	252.6
40°	241.9	238.6	237.0	239.9	236.9	240.0	240.9	245.2	247.1	245.0	248.6
40.5°	237.8	234.5	233.0	235.9	232.9	236.0	236.9	241.4	243.3	241.2	244.5
41°	233.4	230.3	228.9	231.8	228.9	232.1	233.1	237.4	239.4	237.1	240.4
41.5°	229.2	226.2	224.9	227.7	224.8	228.0	229.1	233.4	235.5	233.1	236.4
42°	225.1	222.0	220.7	223.7	220.8	224.0	225.1	229.4	231.5	229.1	232.3
42.5°	220.8	217.9	216.6	219.6	216.9	219.9	221.1	225.5	227.4	225.1	228.2
43°	216.6	213.8	212.7	215.6	212.7	216.0	217.2	221.6	223.5	221.1	224.1
43.5°	212.5	209.8	208.7	211.5	208.7	212.0	213.1	217.6	219.6	217.0	220.1



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	200.1	197.5	196.7	199.6	196.7	200.2	201.2	205.7	207.6	205.1	207.9
45.5°	196.0	193.4	192.7	195.6	192.8	196.1	197.2	201.7	203.7	201.0	203.9
46°	192.0	189.4	188.8	191.6	188.7	192.1	193.4	197.7	199.6	197.1	199.9
46.5°	188.0	185.4	184.9	187.7	184.9	188.3	189.5	193.8	195.6	193.1	195.9
47°	184.0	181.3	181.1	183.9	181.0	184.5	185.6	190.0	191.7	189.3	191.9
47.5°	180.1	177.7	177.2	180.0	177.1	180.5	181.7	186.2	187.9	185.4	188.0
48°	176.2	173.7	173.6	176.1	173.2	176.8	177.9	182.3	184.0	181.4	184.1
48.5°	172.4	169.8	169.8	172.4	169.3	173.1	174.1	178.5	180.2	177.5	180.2
49°	168.6	165.9	166.1	168.6	165.6	169.3	170.3	174.7	176.4	173.7	176.4
49.5°	164.9	162.2	162.3	164.8	161.7	165.6	166.5	171.0	172.5	170.0	172.6
50°	161.1	158.5	158.6	161.1	158.2	161.8	162.7	167.3	168.7	166.2	168.8
50.5°	157.3	154.9	154.8	157.3	154.5	158.1	158.9	163.6	165.0	162.5	165.0
51°	153.7	151.2	151.3	153.8	150.8	154.3	155.4	159.9	161.3	158.9	161.2
51.5°	150.1	147.6	147.6	150.1	147.2	150.6	151.8	156.2	157.7	155.2	157.4
52°	146.5	144.1	144.1	146.6	143.7	147.1	148.3	152.6	154.1	151.6	154.1
52.5°	143.1	140.6	140.6	143.0	140.1	143.5	144.7	149.2	150.5	148.1	150.5
53°	139.5	137.1	137.2	139.5	136.5	139.9	141.1	145.5	147.0	144.6	147.0
53.5°	136.2	133.7	133.8	136.1	133.2	136.5	137.6	142.0	143.5	141.1	143.5
54°	132.8	130.3	130.5	132.7	129.7	133.1	134.2	138.7	140.1	137.7	140.0
54.5°	129.5	127.0	127.1	129.3	126.5	129.7	130.8	135.2	136.6	134.3	136.5
55°	126.2	123.8	123.8	125.9	123.0	126.3	127.4	131.8	133.2	131.0	133.2
55.5°	123.0	120.6	120.7	122.6	119.8	123.0	124.1	128.4	129.7	127.7	129.9
56°	119.9	117.4	117.5	119.4	116.6	119.7	120.8	125.1	126.5	124.4	126.6
56.5°	116.8	114.3	114.3	116.2	113.4	116.5	117.6	121.9	123.2	121.2	123.3
57°	113.7	111.2	111.2	113.2	110.3	113.3	114.3	118.7	120.1	117.9	120.1
57.5°	110.7	108.2	108.2	110.0	107.2	110.2	111.3	115.5	116.9	114.8	116.9
58°	107.7	105.3	105.2	106.9	104.2	107.0	108.1	112.4	113.8	111.5	113.6
58.5°	104.8	102.3	102.2	103.9	101.0	104.0	105.1	109.3	110.6	108.3	110.5
59°	102.0	99.5	99.3	100.9	98.1	100.9	102.1	106.2	107.6	105.2	107.4
59.5°	99.1	96.6	96.4	98.0	95.2	98.0	99.2	103.2	104.7	102.1	104.3
60°	96.3	93.8	93.6	95.1	92.3	95.1	96.2	100.3	101.7	99.0	101.2
60.5°	93.6	91.1	90.8	92.2	89.5	92.1	93.1	97.3	98.7	95.9	98.2
61°	90.9	88.3	88.0	89.4	86.6	89.3	90.4	94.5	95.7	92.9	95.1
61.5°	88.2	85.9	85.3	86.7	84.0	86.5	87.5	91.6	92.8	89.9	92.1
62°	85.6	83.4	82.6	83.9	81.5	83.7	84.9	88.7	89.8	87.1	89.2
62.5°	83.1	80.9	80.0	81.2	79.0	81.0	82.3	86.0	86.9	84.4	86.4
63°	80.6	78.5	77.4	78.6	76.4	78.3	79.8	83.3	84.2	81.7	83.6
63.5°	78.1	76.0	74.8	76.0	73.8	75.6	77.2	80.6	81.6	79.0	80.8
64°	75.7	73.5	72.3	73.4	71.2	73.0	74.6	78.0	78.9	76.4	78.1
64.5°	73.2	71.1	69.8	70.9	68.7	70.4	72.0	75.4	76.3	73.7	75.3
65°	70.8	68.7	67.4	68.4	66.3	67.9	69.5	72.8	73.5	71.0	72.7
65.5°	68.5	66.4	65.0	65.9	63.8	65.3	66.9	70.2	70.8	68.4	70.1
66°	66.2	64.1	62.7	63.5	61.4	62.9	64.5	67.7	68.2	65.9	67.6





TEST NUMBER: P710067

CATALOG NUMBER: RA4LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	59.4	57.4	55.8	56.5	54.4	55.8	57.3	60.2	60.6	58.5	60.1
68°	57.2	55.3	53.2	54.3	52.2	53.6	55.0	57.8	58.1	56.0	57.7
68.5°	55.0	53.2	51.4	52.0	50.0	51.3	52.7	55.3	55.7	53.7	55.4
69°	52.9	51.1	49.4	49.9	47.9	49.1	50.5	53.0	53.3	51.5	53.1
69.5°	50.7	49.0	47.4	47.8	45.8	47.0	48.3	50.7	51.0	49.2	50.9
70°	48.6	47.0	45.3	45.8	43.7	44.8	46.2	48.4	48.7	47.0	48.8
70.5°	46.6	45.0	43.4	43.7	41.7	42.8	43.8	46.2	46.5	44.9	46.6
71°	44.6	43.1	41.5	41.7	39.8	40.8	41.4	43.9	44.3	42.8	44.5
71.5°	42.6	41.2	39.6	39.8	37.9	38.8	39.1	41.8	42.2	40.8	42.5
72°	40.7	39.3	37.8	37.9	36.0	36.8	36.7	39.7	40.1	38.9	40.6
72.5°	38.7	37.5	36.0	36.1	34.2	34.9	34.5	37.7	38.1	37.0	38.7
73°	36.8	35.7	34.2	34.3	32.5	33.1	32.4	35.7	36.2	35.1	36.8
73.5°	34.8	33.9	32.4	32.6	30.9	31.3	30.4	33.8	34.4	33.3	35.0
74°	32.8	32.2	30.7	30.9	29.2	29.5	28.4	31.8	32.5	31.6	33.3
74.5°	31.0	30.5	29.2	29.3	27.6	27.7	26.5	29.9	30.8	30.0	31.6
75°	29.2	28.9	27.6	27.8	26.2	26.1	24.8	28.0	29.1	28.4	30.0
75.5°	27.6	27.3	26.1	26.3	24.8	24.6	23.2	26.2	27.5	26.9	28.5
76°	25.9	25.8	24.7	24.9	23.4	23.0	21.6	24.5	26.0	25.5	27.0
76.5°	24.4	24.4	23.2	23.6	22.0	21.6	20.3	22.9	24.5	24.1	25.6
77°	22.9	23.0	21.8	22.2	20.7	20.2	19.0	21.3	23.1	22.7	24.2
77.5°	21.4	21.6	20.5	21.0	19.5	18.9	17.8	19.9	21.8	21.5	22.9
78°	20.0	20.3	19.3	19.8	18.4	17.7	16.8	18.5	20.5	20.3	21.6
78.5°	18.8	19.0	18.1	18.6	17.3	16.5	15.8	17.3	19.3	19.1	20.4
79°	17.6	17.7	17.0	17.6	16.4	15.4	14.9	16.2	18.2	18.0	19.2
79.5°	16.4	16.5	16.0	16.6	15.6	14.5	13.9	15.2	17.1	17.0	18.1
80°	15.4	15.3	15.1	15.7	14.8	13.6	12.7	14.2	16.1	16.0	17.1
80.5°	14.4	14.2	14.3	14.9	13.9	12.7	11.7	13.1	15.2	15.1	16.1
81°	13.5	13.2	13.5	14.0	13.0	11.7	10.5	12.1	14.3	14.3	15.2
81.5°	12.3	12.3	12.6	13.1	12.0	10.6	9.3	11.0	13.5	13.5	14.3
82°	11.2	11.4	11.7	12.1	11.0	9.6	8.1	9.9	12.6	12.6	13.5
82.5°	10.2	10.4	10.7	11.1	10.1	8.6	7.0	8.7	11.6	11.6	12.5
83°	9.0	9.4	9.8	10.1	9.0	7.6	5.8	7.6	10.5	10.6	11.5
83.5°	7.8	8.4	8.9	9.1	8.0	6.6	4.7	6.5	9.6	9.7	10.5
84°	6.8	7.6	7.8	8.1	7.0	5.7	3.7	5.4	8.6	8.8	9.6
84.5°	5.7	6.6	6.9	7.0	6.1	4.9	2.7	4.3	7.6	7.8	8.6
85°	4.6	5.7	6.0	6.1	5.0	4.1	1.9	3.4	6.5	6.8	7.6
85.5°	3.6	4.9	5.1	5.1	4.0	3.2	1.5	2.5	5.6	5.9	6.7
86°	2.7	4.2	4.1	4.1	3.1	2.4	1.1	1.8	4.8	5.0	5.8
86.5°	1.9	3.4	3.2	3.1	2.3	1.8	0.8	1.4	3.9	4.0	4.9
87°	1.4	2.7	2.4	2.3	1.4	1.1	0.6	1.0	3.0	3.0	4.0
87.5°	1.1	2.0	1.6	1.4	0.8	0.4	0.4	0.6	2.2	2.2	3.1
88°	0.9	1.5	0.9	0.8	0.7	0.3	0.2	0.3	1.4	1.4	2.3
88.5°	0.7	0.8	0.6	0.7	0.5	0.2	0.1	0.2	0.7	0.6	1.5



TEST NUMBER: P710067  
CATALOG NUMBER: RA4LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2



TEST NUMBER: P710067

CATALOG NUMBER: RA4LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	412.9	412.9
0.5°	413.0	412.9
1°	412.9	412.9
1.5°	412.9	412.8
2°	412.9	412.8
2.5°	412.7	412.6
3°	412.5	412.4
3.5°	412.2	412.1
4°	411.8	411.8
4.5°	411.5	411.5
5°	411.2	411.0
5.5°	410.6	410.6
6°	410.1	410.1
6.5°	409.7	409.5
7°	408.9	408.8
7.5°	408.3	408.2
8°	407.6	407.4
8.5°	406.8	406.7
9°	406.0	405.9
9.5°	405.1	405.1
10°	404.1	404.0
10.5°	403.1	403.0
11°	402.0	401.8
11.5°	400.9	400.7
12°	399.6	399.5
12.5°	398.5	398.2
13°	397.1	396.9
13.5°	395.7	395.6
14°	394.2	394.3
14.5°	392.9	392.8
15°	391.4	391.2
15.5°	389.9	389.8
16°	388.2	388.2
16.5°	386.6	386.6
17°	384.8	384.8
17.5°	383.1	383.1
18°	381.2	381.3
18.5°	379.5	379.4
19°	377.6	377.4
19.5°	375.6	375.5
20°	373.5	373.4
20.5°	371.6	371.3
21°	369.4	369.1



TEST NUMBER: P710067

CATALOG NUMBER: RA4LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
22.5°	362.6	362.1
23°	360.1	359.8
23.5°	357.7	357.3
24°	355.1	354.7
24.5°	352.6	352.2
25°	349.9	349.3
25.5°	347.2	346.6
26°	344.4	343.8
26.5°	341.7	341.0
27°	338.7	338.0
27.5°	335.7	335.0
28°	332.8	332.0
28.5°	329.7	328.8
29°	326.5	325.6
29.5°	323.3	322.4
30°	320.0	319.0
30.5°	316.7	315.6
31°	313.4	312.2
31.5°	309.9	308.7
32°	306.4	305.0
32.5°	302.9	301.3
33°	299.3	297.8
33.5°	295.7	294.1
34°	292.0	290.3
34.5°	288.2	286.4
35°	284.5	282.6
35.5°	280.6	278.7
36°	276.7	274.7
36.5°	272.8	270.8
37°	268.9	266.7
37.5°	264.9	262.6
38°	260.9	258.5
38.5°	256.8	254.4
39°	252.8	250.3
39.5°	248.6	246.1
40°	244.5	241.9
40.5°	240.5	237.8
41°	236.3	233.4
41.5°	232.2	229.2
42°	228.0	225.1
42.5°	223.9	220.8
43°	219.6	216.6
43.5°	215.5	212.5



TEST NUMBER: P710067

CATALOG NUMBER: RA4LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	203.2	200.1
45.5°	199.1	196.0
46°	195.0	192.0
46.5°	191.0	188.0
47°	187.0	184.0
47.5°	183.0	180.1
48°	179.1	176.2
48.5°	175.2	172.4
49°	171.2	168.6
49.5°	167.5	164.9
50°	163.7	161.1
50.5°	160.0	157.3
51°	156.2	153.7
51.5°	152.5	150.1
52°	149.0	146.5
52.5°	145.5	143.1
53°	141.9	139.5
53.5°	138.5	136.2
54°	135.2	132.8
54.5°	131.8	129.5
55°	128.4	126.2
55.5°	125.1	123.0
56°	121.9	119.9
56.5°	118.8	116.8
57°	115.7	113.7
57.5°	112.6	110.7
58°	109.5	107.7
58.5°	106.5	104.8
59°	103.6	102.0
59.5°	100.7	99.1
60°	98.0	96.3
60.5°	95.2	93.6
61°	92.3	90.9
61.5°	89.7	88.2
62°	87.0	85.6
62.5°	84.5	83.1
63°	82.0	80.6
63.5°	79.5	78.1
64°	77.0	75.7
64.5°	74.4	73.2
65°	71.9	70.8
65.5°	69.4	68.5
66°	66.9	66.2



TEST NUMBER: P710067  
CATALOG NUMBER: RA4LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
67.5°	59.8	59.4
68°	57.5	57.2
68.5°	55.2	55.0
69°	53.1	52.9
69.5°	50.9	50.7
70°	48.8	48.6
70.5°	46.7	46.6
71°	44.7	44.6
71.5°	42.7	42.6
72°	40.8	40.7
72.5°	38.9	38.7
73°	37.1	36.8
73.5°	35.3	34.8
74°	33.6	32.8
74.5°	31.8	31.0
75°	30.1	29.2
75.5°	28.4	27.6
76°	26.8	25.9
76.5°	25.2	24.4
77°	23.7	22.9
77.5°	22.3	21.4
78°	20.9	20.0
78.5°	19.6	18.8
79°	18.3	17.6
79.5°	17.2	16.4
80°	16.1	15.4
80.5°	15.1	14.4
81°	14.0	13.5
81.5°	13.0	12.3
82°	12.0	11.2
82.5°	11.0	10.2
83°	9.9	9.0
83.5°	8.8	7.8
84°	7.7	6.8
84.5°	6.7	5.7
85°	5.6	4.6
85.5°	4.6	3.6
86°	3.7	2.7
86.5°	2.7	1.9
87°	2.0	1.4
87.5°	1.6	1.1
88°	1.1	0.9
88.5°	0.8	0.7



TEST NUMBER: P710067  
CATALOG NUMBER: RA4LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	0.2	0.2



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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





21.5°	366.8	363.9	361.4	362.4	359.9	361.0	361.4	363.7	365.1	364.6	367.5
22°	364.4	361.5	359.0	360.1	357.5	358.7	359.1	361.4	362.9	362.2	365.4



44°	208.4	205.6	204.7	207.6	204.7	208.0	209.2	213.6	215.5	213.0	216.1
44.5°	204.1	201.6	200.7	203.6	200.7	204.1	205.2	209.7	211.5	209.1	211.9



66.5°	63.9	61.9	60.4	61.2	59.0	60.6	62.0	65.2	65.7	63.3	65.0
67°	61.6	59.6	58.1	58.8	56.7	58.1	59.7	62.6	63.1	60.9	62.5



89°	0.4	0.3	0.5	0.6	0.3	0.1	0.1	0.1	0.2	0.2	0.7
89.5°	0.2	0.3	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.2



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





21.5°	367.1	366.8
22°	364.8	364.4



44°	211.4	208.4
44.5°	207.3	204.1



66.5°	64.5	63.9
67°	62.2	61.6



89°	0.4	0.4
89.5°	0.2	0.2

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)