

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



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: P710087

Luminaire Tested: RA56LS9FSD2W1EWH-900lm-2700K

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P710087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2304449B001)  
Test Lab: EVERFINE  
Issue Date: 10/6/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: RA56LS9FSD2W1EWH-900lm-2700K  
Description: 5/6IN RETROFIT SELECTABLE LUMENS  
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

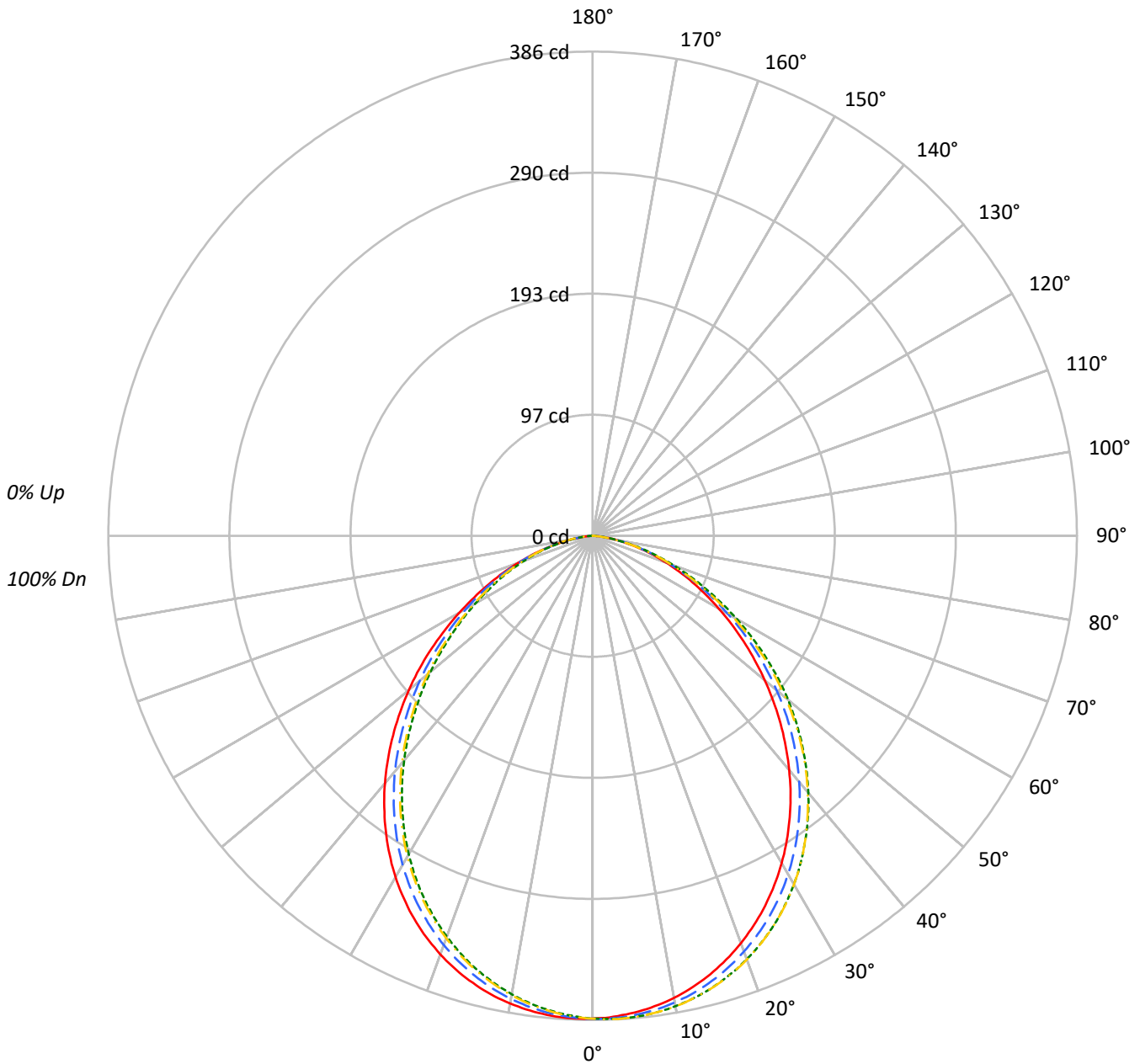
Lumens per Lamp: 930.22 (1 lamp)  
Luminaire Lumens: 910.0 lumens  
Efficiency: 97.8%  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9  
Input Voltage (V): NR  
Input Current (Ain): 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



TEST NUMBER: P710087  
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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	116	116	116	116	114	114	114	114	109	109	109	104	104	104	100	100	100	98																			
1	108	103	100	96	105	101	98	95	97	94	92	93	91	89	90	88	86	84																			
2	99	91	85	80	96	89	84	79	86	81	77	83	79	75	80	77	74	72																			
3	90	81	73	67	88	79	72	67	76	71	66	74	69	65	71	67	63	61																			
4	83	72	64	58	81	71	63	57	68	62	57	66	60	56	64	59	55	53																			
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	71	59	50	44	69	58	50	44	56	49	44	54	48	43	53	47	43	41																			
7	66	53	45	39	64	53	45	39	51	44	39	50	43	39	48	43	38	37																			
8	62	49	41	35	60	48	41	35	47	40	35	46	39	35	45	39	35	33																			
9	58	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30																			
10	54	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	29	27																			

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

	0°	90°	180°	270°
0°	21100	21100	21100	21100
5°	20999	21192	21131	20922
10°	20825	21198	21075	20663
15°	20545	21124	20942	20301
20°	20162	20955	20716	19835
25°	19683	20693	20372	19259
30°	19073	20313	19889	18553
35°	18330	19796	19240	17715
40°	17447	19143	18427	16731
45°	16420	18320	17444	15606
50°	15266	17338	16289	14379
55°	14040	16085	14967	13094
60°	12751	14549	13453	11797
65°	11402	12842	11817	10572
70°	9970	11011	10162	9232
75°	8261	8875	8155	7667
80°	6093	6156	5619	5556
85°	3334	3208	2516	3334

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 120°  
 Vertical Angle: 45°  
 Luminance: 18335 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	36.3	4.0	3.9
10°-20°	103.0	11.3	11.1
20°-30°	152.2	16.7	16.4
30°-40°	175.3	19.3	18.8
40°-50°	168.7	18.5	18.1
50°-60°	136.2	15.0	14.6
60°-70°	89.4	9.8	9.6
70°-80°	41.8	4.6	4.5
80°-90°	7.2	0.8	0.8
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°	291.5	32.0	31.3
0°-40°	466.8	51.3	50.2
0°-60°	771.6	84.8	83.0
0°-90°	910.0	100.0	97.8
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°	910.0	100.0	97.8

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	385	385	385	385	385	
5°	382	385	384	380	382	36
15°	362	372	369	358	362	102
25°	325	342	337	318	325	150
35°	274	296	288	265	274	171
45°	212	236	225	201	212	163
55°	147	168	157	137	147	131
65°	88	99	91	82	88	87
75°	39	42	38	36	39	42
85°	5	5	4	5	5	8
90°	0	0	0	0	0	



TEST NUMBER: P710087

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9
0.5°	384.7	385.1	385.4	385.0	385.4	385.2	385.1	385.0	385.1	384.6	384.9
1°	384.6	385.0	385.4	385.2	385.6	385.4	385.2	385.0	384.8	384.3	384.6
1.5°	384.5	384.8	385.5	385.3	385.7	385.5	385.1	384.8	384.7	383.9	384.3
2°	384.2	384.7	385.4	385.5	385.8	385.5	385.1	384.7	384.3	383.5	383.9
2.5°	383.8	384.4	385.4	385.5	385.8	385.6	385.0	384.5	384.0	383.0	383.4
3°	383.4	384.3	385.3	385.5	385.9	385.6	384.9	384.3	383.6	382.6	382.9
3.5°	382.9	383.9	385.2	385.5	385.7	385.5	384.8	383.9	383.2	382.0	382.5
4°	382.6	383.6	384.9	385.4	385.7	385.3	384.5	383.7	382.7	381.5	381.9
4.5°	382.1	383.3	384.7	385.2	385.6	385.2	384.3	383.2	382.2	380.8	381.3
5°	381.6	382.9	384.4	385.1	385.3	385.0	384.0	382.8	381.6	380.2	380.6
5.5°	381.0	382.4	384.2	384.8	385.2	384.8	383.6	382.3	381.1	379.4	380.0
6°	380.4	381.9	383.6	384.6	384.9	384.4	383.2	381.9	380.4	378.8	379.3
6.5°	379.8	381.3	383.3	384.2	384.5	384.1	382.8	381.3	379.8	377.9	378.4
7°	379.1	380.7	382.8	383.8	384.2	383.7	382.3	380.7	379.0	377.1	377.7
7.5°	378.3	380.1	382.4	383.4	383.8	383.3	381.8	380.1	378.2	376.2	376.8
8°	377.6	379.5	381.8	383.0	383.3	382.8	381.3	379.4	377.4	375.3	375.8
8.5°	376.7	378.7	381.2	382.5	382.9	382.3	380.7	378.6	376.5	374.3	374.9
9°	376.0	378.0	380.5	382.0	382.3	381.8	380.0	377.9	375.6	373.3	373.9
9.5°	375.0	377.2	379.9	381.4	381.9	381.2	379.4	377.1	374.6	372.2	372.9
10°	374.1	376.3	379.1	380.8	381.2	380.5	378.6	376.2	373.5	371.2	371.8
10.5°	373.1	375.4	378.4	380.2	380.6	380.0	378.0	375.4	372.5	369.9	370.6
11°	372.0	374.4	377.6	379.4	379.9	379.3	377.1	374.4	371.3	368.8	369.5
11.5°	370.8	373.5	376.8	378.7	379.2	378.4	376.3	373.3	370.3	367.5	368.3
12°	369.8	372.5	375.8	377.9	378.3	377.7	375.4	372.4	369.1	366.3	367.0
12.5°	368.5	371.4	375.0	377.1	377.5	376.8	374.5	371.2	367.9	364.9	365.7
13°	367.3	370.2	373.9	376.2	376.6	375.9	373.4	370.2	366.6	363.6	364.2
13.5°	366.0	369.0	372.9	375.2	375.7	375.0	372.5	369.0	365.3	362.1	362.9
14°	364.8	367.9	371.8	374.3	374.8	374.0	371.4	367.8	363.8	360.8	361.4
14.5°	363.4	366.6	370.7	373.3	373.8	373.0	370.3	366.5	362.5	359.2	360.0
15°	362.0	365.3	369.5	372.2	372.8	372.0	369.0	365.3	361.0	357.7	358.4
15.5°	360.5	364.0	368.3	371.2	371.7	370.9	367.9	363.9	359.6	356.1	356.8
16°	359.1	362.6	367.1	370.0	370.5	369.8	366.6	362.5	358.0	354.5	355.3
16.5°	357.4	361.2	365.8	368.8	369.4	368.6	365.4	361.0	356.4	352.8	353.7
17°	355.9	359.7	364.5	367.5	368.1	367.4	364.0	359.6	354.8	351.1	352.0
17.5°	354.3	358.1	363.2	366.3	366.9	366.1	362.6	358.1	353.1	349.3	350.2
18°	352.7	356.6	361.8	365.0	365.7	364.7	361.1	356.6	351.5	347.6	348.4
18.5°	350.9	355.1	360.2	363.7	364.2	363.5	359.7	354.9	349.7	345.7	346.6
19°	349.2	353.4	358.7	362.2	362.9	362.0	358.2	353.3	347.9	343.9	344.7
19.5°	347.4	351.6	357.2	360.8	361.5	360.5	356.7	351.6	346.1	341.9	342.8
20°	345.6	350.0	355.5	359.2	360.0	359.0	355.1	349.9	344.3	340.0	340.9
20.5°	343.7	348.2	354.0	357.8	358.3	357.6	353.4	348.1	342.4	338.0	338.9
21°	341.9	346.4	352.3	356.2	356.8	355.9	351.6	346.3	340.3	336.0	337.0



TEST NUMBER: P710087

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	335.9	340.9	347.0	351.3	351.8	351.0	346.4	340.6	334.2	329.6	330.7
23°	334.0	338.9	345.2	349.5	350.1	349.2	344.6	338.7	332.2	327.5	328.5
23.5°	331.8	336.8	343.3	347.8	348.3	347.4	342.7	336.5	330.1	325.2	326.3
24°	329.8	334.8	341.5	345.9	346.6	345.5	340.7	334.6	327.8	323.1	324.1
24.5°	327.6	332.9	339.5	344.1	344.7	343.8	338.8	332.4	325.7	320.7	321.9
25°	325.4	330.7	337.5	342.1	342.8	341.8	336.8	330.4	323.4	318.4	319.4
25.5°	323.0	328.5	335.4	340.3	340.9	339.9	334.7	328.2	321.2	316.0	317.1
26°	320.8	326.4	333.4	338.2	338.9	337.8	332.6	326.0	318.7	313.7	314.8
26.5°	318.4	324.2	331.3	336.3	336.9	335.9	330.4	323.7	316.4	311.1	312.4
27°	316.2	322.0	329.2	334.1	334.8	333.7	328.2	321.4	314.0	308.7	309.9
27.5°	313.7	319.6	327.0	332.1	332.8	331.6	325.9	319.1	311.6	306.2	307.4
28°	311.3	317.3	324.7	329.9	330.6	329.4	323.7	316.7	309.1	303.7	304.9
28.5°	308.9	315.0	322.5	327.7	328.5	327.2	321.4	314.3	306.6	301.0	302.3
29°	306.4	312.6	320.2	325.4	326.3	324.9	319.1	311.9	304.0	298.4	299.7
29.5°	303.8	310.1	317.8	323.2	324.0	322.7	316.7	309.4	301.5	295.8	297.1
30°	301.3	307.6	315.4	320.9	321.7	320.2	314.2	306.9	298.9	293.1	294.4
30.5°	298.7	305.1	313.2	318.6	319.2	317.9	311.7	304.3	296.2	290.4	291.8
31°	296.1	302.6	310.6	316.2	316.9	315.5	309.1	301.7	293.4	287.6	289.0
31.5°	293.4	300.1	308.1	313.9	314.5	313.1	306.6	299.1	290.7	284.8	286.3
32°	290.7	297.3	305.5	311.2	312.1	310.5	303.9	296.4	288.0	282.1	283.4
32.5°	287.9	294.8	303.1	308.8	309.5	307.9	301.3	293.7	285.1	279.2	280.7
33°	285.2	292.1	300.4	306.3	307.1	305.4	298.6	291.0	282.4	276.4	277.9
33.5°	282.5	289.4	297.8	303.7	304.4	302.8	295.9	288.3	279.5	273.4	275.0
34°	279.6	286.6	295.1	301.0	301.8	300.0	293.1	285.4	276.6	270.5	272.1
34.5°	276.8	283.9	292.5	298.4	299.1	297.3	290.3	282.6	273.8	267.6	269.2
35°	273.9	281.1	289.7	295.8	296.6	294.7	287.5	279.9	270.8	264.7	266.2
35.5°	271.0	278.2	286.9	293.1	293.8	291.9	284.7	277.0	267.9	261.6	263.1
36°	268.1	275.3	284.1	290.3	291.1	289.1	281.8	274.0	264.8	258.6	260.2
36.5°	265.1	272.5	281.4	287.7	288.3	286.2	278.9	271.0	261.9	255.6	257.2
37°	262.1	269.5	278.5	284.8	285.5	283.3	275.8	268.1	258.8	252.6	254.1
37.5°	259.0	266.6	275.6	282.1	282.6	280.4	272.8	265.1	255.7	249.4	251.0
38°	256.1	263.5	272.7	279.3	279.7	277.5	269.9	262.0	252.7	246.3	248.0
38.5°	253.0	260.6	269.7	276.4	276.8	274.5	266.9	259.0	249.6	243.2	244.9
39°	250.0	257.5	266.8	273.4	274.0	271.5	263.8	255.9	246.5	240.0	241.7
39.5°	246.8	254.6	263.9	270.4	270.9	268.5	260.7	252.9	243.4	236.9	238.6
40°	243.8	251.5	260.9	267.5	268.0	265.4	257.5	249.8	240.2	233.8	235.5
40.5°	240.7	248.4	257.8	264.5	265.0	262.4	254.4	246.6	237.0	230.5	232.3
41°	237.5	245.2	254.7	261.4	261.9	259.2	251.3	243.5	233.8	227.3	229.0
41.5°	234.3	242.1	251.7	258.3	258.7	256.1	248.1	240.2	230.6	224.1	225.9
42°	231.1	239.0	248.4	255.3	255.8	252.9	244.8	237.1	227.5	220.9	222.7
42.5°	227.9	235.8	245.4	252.2	252.5	249.8	241.5	233.9	224.3	217.6	219.5
43°	224.7	232.6	242.3	249.1	249.5	246.5	238.2	230.7	220.9	214.5	216.2
43.5°	221.5	229.4	239.1	246.0	246.1	243.3	235.0	227.4	217.7	211.1	213.1



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	211.8	219.8	229.4	236.3	236.5	233.5	225.0	217.6	207.9	201.3	203.2
45.5°	208.5	216.5	226.2	233.2	233.2	230.2	221.7	214.3	204.6	198.0	199.9
46°	205.3	213.2	223.0	229.9	229.8	226.8	218.3	211.0	201.3	194.8	196.7
46.5°	202.0	210.0	219.8	226.5	226.3	223.4	214.9	207.7	198.0	191.5	193.5
47°	198.7	206.7	216.3	223.4	223.0	220.1	211.5	204.4	194.6	188.2	190.3
47.5°	195.4	203.4	213.0	220.1	219.5	216.8	208.2	201.2	191.4	185.0	186.9
48°	192.1	200.0	209.7	216.7	216.1	213.3	204.8	197.8	188.1	181.7	183.7
48.5°	188.9	196.7	206.4	213.3	212.5	209.9	201.3	194.5	184.8	178.4	180.6
49°	185.6	193.4	202.9	210.1	209.0	206.4	197.9	191.2	181.4	175.0	177.3
49.5°	182.3	190.1	199.4	206.7	205.4	203.0	194.4	187.9	178.2	171.9	174.1
50°	179.0	186.8	196.1	203.3	201.7	199.5	191.0	184.6	175.0	168.6	170.9
50.5°	175.8	183.5	192.7	200.0	198.1	195.9	187.7	181.3	171.7	165.4	167.7
51°	172.5	180.1	189.2	196.6	194.6	192.2	184.3	178.0	168.4	162.2	164.4
51.5°	169.2	176.8	185.8	193.1	191.1	188.7	180.8	174.7	165.1	158.9	161.2
52°	165.9	173.5	182.3	189.6	187.6	185.0	177.4	171.4	162.0	155.9	158.0
52.5°	162.9	170.2	178.9	186.1	183.8	181.5	173.9	168.1	158.7	152.6	154.8
53°	159.8	166.9	175.4	182.5	180.0	177.9	170.4	164.8	155.5	149.5	151.7
53.5°	156.5	163.7	171.9	179.0	176.4	174.3	167.0	161.6	152.3	146.3	148.6
54°	153.2	160.3	168.5	175.4	172.8	170.8	163.5	158.4	149.1	143.2	145.4
54.5°	150.0	157.0	165.0	171.9	169.1	167.2	160.1	155.1	146.0	140.1	142.2
55°	146.9	153.7	161.5	168.3	165.3	163.6	156.6	151.8	142.8	137.0	139.2
55.5°	143.7	150.5	158.1	164.8	161.7	159.9	153.1	148.5	139.6	134.0	136.1
56°	140.6	147.2	154.6	161.2	158.0	156.3	149.7	145.4	136.6	130.9	133.1
56.5°	137.4	143.9	151.1	157.6	154.3	152.7	146.2	142.1	133.4	127.8	130.0
57°	134.3	140.7	147.6	154.1	150.6	149.2	142.8	138.9	130.4	125.0	127.1
57.5°	131.3	137.5	144.2	150.4	147.0	145.6	139.4	135.7	127.4	122.0	124.1
58°	128.2	134.3	140.7	146.9	143.6	142.0	136.1	132.5	124.4	119.0	121.1
58.5°	125.3	131.0	137.2	143.2	140.0	138.5	132.6	129.4	121.4	116.1	118.1
59°	122.2	127.8	133.8	139.7	136.4	135.0	129.3	126.2	118.5	113.2	115.2
59.5°	119.3	124.7	130.5	136.1	132.8	131.5	125.9	123.1	115.6	110.4	112.4
60°	116.3	121.5	127.2	132.7	129.4	128.1	122.7	120.0	112.6	107.6	109.5
60.5°	113.4	118.4	123.9	129.2	125.7	124.5	119.3	116.9	109.8	104.8	106.7
61°	110.4	115.3	120.5	125.7	122.4	121.2	116.1	113.8	107.0	102.0	103.9
61.5°	107.5	112.2	117.3	122.3	118.9	117.8	112.9	110.8	104.2	99.2	101.1
62°	104.6	109.2	114.0	118.8	115.4	114.5	109.6	107.7	101.3	96.5	98.4
62.5°	101.8	106.1	110.8	115.5	112.1	111.2	106.5	104.8	98.6	93.9	95.7
63°	99.0	103.2	107.6	112.1	108.8	107.9	103.4	101.8	95.8	91.2	93.0
63.5°	96.2	100.2	104.4	108.9	105.5	104.6	100.3	98.9	93.1	88.8	90.4
64°	93.4	97.2	101.3	105.5	102.2	101.4	97.2	95.9	90.5	86.4	87.8
64.5°	90.7	94.2	98.2	102.3	99.1	98.2	94.1	93.0	88.1	84.0	85.1
65°	87.9	91.4	95.2	99.0	95.9	95.1	91.1	90.1	85.6	81.5	82.6
65.5°	85.3	88.7	92.2	95.8	92.6	92.0	88.4	87.3	83.1	79.0	80.1
66°	82.6	86.1	89.2	92.7	89.7	88.9	85.6	84.5	80.5	76.5	77.6





TEST NUMBER: P710087

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	74.7	77.9	80.3	83.4	81.0	79.9	77.1	76.2	72.9	69.2	70.3
68°	72.2	75.2	77.5	80.5	78.0	76.9	74.3	73.5	70.5	66.8	68.0
68.5°	69.6	72.5	74.7	77.3	75.1	74.0	71.5	70.7	68.0	64.5	65.6
69°	67.1	69.8	71.9	74.5	72.2	71.2	68.7	68.0	65.5	62.2	63.3
69.5°	64.7	67.2	69.2	71.6	69.3	68.4	66.0	65.4	63.1	59.9	61.0
70°	62.2	64.6	66.4	68.7	66.5	65.6	63.4	62.8	60.7	57.6	58.8
70.5°	59.7	62.0	63.7	65.8	63.7	62.8	60.8	60.2	58.3	55.4	56.5
71°	57.3	59.5	61.1	63.0	60.9	60.1	58.1	57.7	55.9	53.2	54.3
71.5°	54.9	57.0	58.4	60.3	58.2	57.4	55.6	55.1	53.6	51.0	52.2
72°	52.6	54.5	55.8	57.5	55.5	54.8	53.0	52.7	51.2	48.9	50.0
72.5°	50.3	52.0	53.3	54.8	52.8	52.2	50.5	50.2	48.9	46.6	47.9
73°	47.9	49.6	50.8	52.2	50.2	49.6	48.1	47.8	46.7	44.5	45.8
73.5°	45.7	47.2	48.3	49.5	47.7	47.1	45.6	45.4	44.5	42.4	43.7
74°	43.4	44.9	45.8	47.0	45.1	44.6	43.2	43.0	42.3	40.3	41.7
74.5°	41.2	42.5	43.4	44.4	42.6	42.1	40.9	40.7	40.0	38.3	39.7
75°	39.0	40.2	41.1	41.9	40.2	39.8	38.5	38.4	37.8	36.2	37.8
75.5°	36.9	38.0	38.8	39.4	37.7	37.4	36.3	36.1	35.7	34.2	35.8
76°	34.8	35.8	36.5	37.0	35.4	35.1	34.0	33.9	33.6	32.2	33.9
76.5°	32.7	33.6	34.2	34.6	33.1	32.8	31.8	31.8	31.5	30.3	32.0
77°	30.6	31.5	32.0	32.3	30.8	30.6	29.7	29.6	29.5	28.3	30.1
77.5°	28.6	29.4	29.8	30.0	28.6	28.4	27.6	27.5	27.5	26.4	28.3
78°	26.7	27.4	27.7	27.8	26.4	26.2	25.5	25.5	25.6	24.6	26.5
78.5°	24.8	25.3	25.6	25.6	24.3	24.2	23.5	23.5	23.6	22.7	24.7
79°	22.9	23.4	23.6	23.5	22.2	22.1	21.5	21.6	21.6	21.0	22.9
79.5°	21.0	21.5	21.7	21.4	20.2	20.2	19.7	19.7	19.8	19.2	21.2
80°	19.3	19.7	19.8	19.5	18.3	18.3	17.8	17.9	17.9	17.6	19.5
80.5°	17.5	17.9	17.9	17.5	16.5	16.5	16.1	16.2	16.1	15.9	17.8
81°	15.9	16.2	16.0	15.7	14.7	14.7	14.4	14.5	14.5	14.4	16.2
81.5°	14.4	14.5	14.2	14.0	13.0	13.1	12.7	12.9	12.9	13.0	14.6
82°	12.9	13.0	12.6	12.4	11.5	11.5	11.0	11.4	11.5	11.5	13.1
82.5°	11.4	11.5	11.1	10.8	10.0	10.1	9.2	10.0	10.1	10.2	11.7
83°	10.1	10.1	9.7	9.4	8.7	8.7	7.7	8.7	8.9	9.0	10.4
83.5°	8.8	8.9	8.5	8.1	7.5	7.4	6.5	7.5	7.8	7.9	9.2
84°	7.5	7.7	7.3	7.0	6.4	6.3	5.5	6.4	6.8	7.0	8.1
84.5°	6.3	6.6	6.3	6.0	5.5	5.3	4.7	5.4	5.9	6.1	7.1
85°	5.3	5.6	5.4	5.1	4.7	4.5	4.0	4.6	5.2	5.3	6.3
85.5°	4.6	4.8	4.6	4.4	4.0	3.7	3.1	3.8	4.4	4.5	5.4
86°	3.8	4.0	3.9	3.7	3.4	3.0	2.3	3.1	3.7	3.9	4.6
86.5°	3.0	3.3	3.3	3.1	2.8	2.4	1.5	2.4	3.1	3.2	4.0
87°	2.2	2.6	2.8	2.5	2.2	1.7	1.0	1.7	2.5	2.5	3.3
87.5°	1.8	1.9	2.1	1.8	1.5	1.2	0.7	1.0	1.8	2.2	2.7
88°	1.4	1.5	1.6	1.2	0.9	0.7	0.4	0.6	1.5	2.0	2.4
88.5°	0.9	1.0	1.0	0.6	0.3	0.3	0.3	0.4	1.1	1.7	2.1



TEST NUMBER: P710087

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.3



TEST NUMBER: P710087

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	384.9	384.9
0.5°	384.8	384.7
1°	384.5	384.6
1.5°	384.2	384.5
2°	383.9	384.2
2.5°	383.5	383.8
3°	383.0	383.4
3.5°	382.5	382.9
4°	381.9	382.6
4.5°	381.4	382.1
5°	380.8	381.6
5.5°	380.1	381.0
6°	379.4	380.4
6.5°	378.7	379.8
7°	377.8	379.1
7.5°	377.0	378.3
8°	376.2	377.6
8.5°	375.2	376.7
9°	374.3	376.0
9.5°	373.3	375.0
10°	372.2	374.1
10.5°	371.1	373.1
11°	369.9	372.0
11.5°	368.7	370.8
12°	367.5	369.8
12.5°	366.2	368.5
13°	364.9	367.3
13.5°	363.5	366.0
14°	362.1	364.8
14.5°	360.7	363.4
15°	359.2	362.0
15.5°	357.6	360.5
16°	356.1	359.1
16.5°	354.4	357.4
17°	352.7	355.9
17.5°	351.0	354.3
18°	349.3	352.7
18.5°	347.5	350.9
19°	345.7	349.2
19.5°	343.8	347.4
20°	341.9	345.6
20.5°	340.0	343.7
21°	338.0	341.9



TEST NUMBER: P710087

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
22.5°	331.8	335.9
23°	329.7	334.0
23.5°	327.4	331.8
24°	325.3	329.8
24.5°	323.0	327.6
25°	320.8	325.4
25.5°	318.5	323.0
26°	316.2	320.8
26.5°	313.7	318.4
27°	311.4	316.2
27.5°	308.8	313.7
28°	306.3	311.3
28.5°	303.7	308.9
29°	301.2	306.4
29.5°	298.6	303.8
30°	296.0	301.3
30.5°	293.3	298.7
31°	290.6	296.1
31.5°	287.9	293.4
32°	285.1	290.7
32.5°	282.3	287.9
33°	279.6	285.2
33.5°	276.6	282.5
34°	273.8	279.6
34.5°	270.9	276.8
35°	268.0	273.9
35.5°	265.0	271.0
36°	262.0	268.1
36.5°	259.0	265.1
37°	256.0	262.1
37.5°	253.0	259.0
38°	249.9	256.1
38.5°	246.8	253.0
39°	243.7	250.0
39.5°	240.5	246.8
40°	237.4	243.8
40.5°	234.2	240.7
41°	231.1	237.5
41.5°	227.9	234.3
42°	224.7	231.1
42.5°	221.4	227.9
43°	218.3	224.7
43.5°	215.0	221.5



TEST NUMBER: P710087

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	205.3	211.8
45.5°	202.0	208.5
46°	198.8	205.3
46.5°	195.5	202.0
47°	192.3	198.7
47.5°	189.0	195.4
48°	185.6	192.1
48.5°	182.4	188.9
49°	179.1	185.6
49.5°	175.8	182.3
50°	172.7	179.0
50.5°	169.4	175.8
51°	166.1	172.5
51.5°	162.8	169.2
52°	159.7	165.9
52.5°	156.5	162.9
53°	153.2	159.8
53.5°	150.1	156.5
54°	147.0	153.2
54.5°	143.8	150.0
55°	140.7	146.9
55.5°	137.5	143.7
56°	134.5	140.6
56.5°	131.4	137.4
57°	128.3	134.3
57.5°	125.4	131.3
58°	122.4	128.2
58.5°	119.3	125.3
59°	116.4	122.2
59.5°	113.5	119.3
60°	110.6	116.3
60.5°	107.8	113.4
61°	105.0	110.4
61.5°	102.2	107.5
62°	99.4	104.6
62.5°	96.7	101.8
63°	94.0	99.0
63.5°	91.4	96.2
64°	89.0	93.4
64.5°	86.5	90.7
65°	84.1	87.9
65.5°	81.6	85.3
66°	79.1	82.6



TEST NUMBER: P710087

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
67.5°	71.6	74.7
68°	69.2	72.2
68.5°	66.8	69.6
69°	64.4	67.1
69.5°	62.1	64.7
70°	59.8	62.2
70.5°	57.4	59.7
71°	55.2	57.3
71.5°	52.9	54.9
72°	50.7	52.6
72.5°	48.5	50.3
73°	46.3	47.9
73.5°	44.2	45.7
74°	42.0	43.4
74.5°	39.9	41.2
75°	37.8	39.0
75.5°	35.8	36.9
76°	33.8	34.8
76.5°	31.8	32.7
77°	29.8	30.6
77.5°	27.9	28.6
78°	26.0	26.7
78.5°	24.2	24.8
79°	22.3	22.9
79.5°	20.6	21.0
80°	18.8	19.3
80.5°	17.2	17.5
81°	15.6	15.9
81.5°	14.1	14.4
82°	12.7	12.9
82.5°	11.3	11.4
83°	10.0	10.1
83.5°	8.8	8.8
84°	7.7	7.5
84.5°	6.7	6.3
85°	5.8	5.3
85.5°	5.0	4.6
86°	4.2	3.8
86.5°	3.5	3.0
87°	2.9	2.2
87.5°	2.1	1.8
88°	1.5	1.4
88.5°	1.3	0.9



TEST NUMBER: P710087  
CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	0.4	0.3

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



Signify Classified - Internal  
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°	339.9	344.6	350.5	354.6	355.1	354.3	350.0	344.4	338.4	333.9	334.8
22°	337.9	342.8	348.8	352.9	353.6	352.6	348.2	342.6	336.3	331.8	332.7



44°	218.3	226.2	235.9	242.7	243.0	240.0	231.7	224.2	214.5	207.9	209.8
44.5°	215.0	222.9	232.8	239.6	239.8	236.8	228.4	221.0	211.2	204.6	206.5



66.5°	80.0	83.4	86.3	89.6	86.8	85.9	82.8	81.7	78.0	74.1	75.3
67°	77.4	80.6	83.2	86.4	83.9	82.8	80.0	78.9	75.5	71.6	72.7



89°	0.6	0.8	0.5	0.2	0.2	0.2	0.2	0.3	0.6	1.2	1.5
89.5°	0.4	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.6	0.9



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

Scaled Data Report





21.5°	336.0	339.9
22°	333.9	337.9



44°	211.8	218.3
44.5°	208.6	215.0

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

Scaled Data Report



66.5°	76.6	80.0
67°	74.1	77.4

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

Scaled Data Report



89°	1.0	0.6
89.5°	0.7	0.4

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

Scaled Data Report



(END OF REPORT)