

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: P710058

Luminaire Tested: RA3059FSD2W1EWH-500lm-3000K

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P710058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2304921A001)  
Test Lab: EVERFINE  
Issue Date: 10/6/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: RA3059FSD2W1EWH-500lm-3000K  
Description: 3IN RETROFIT 500 LUMENS  
Light Source: SELECTABLE CCT LEDs 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

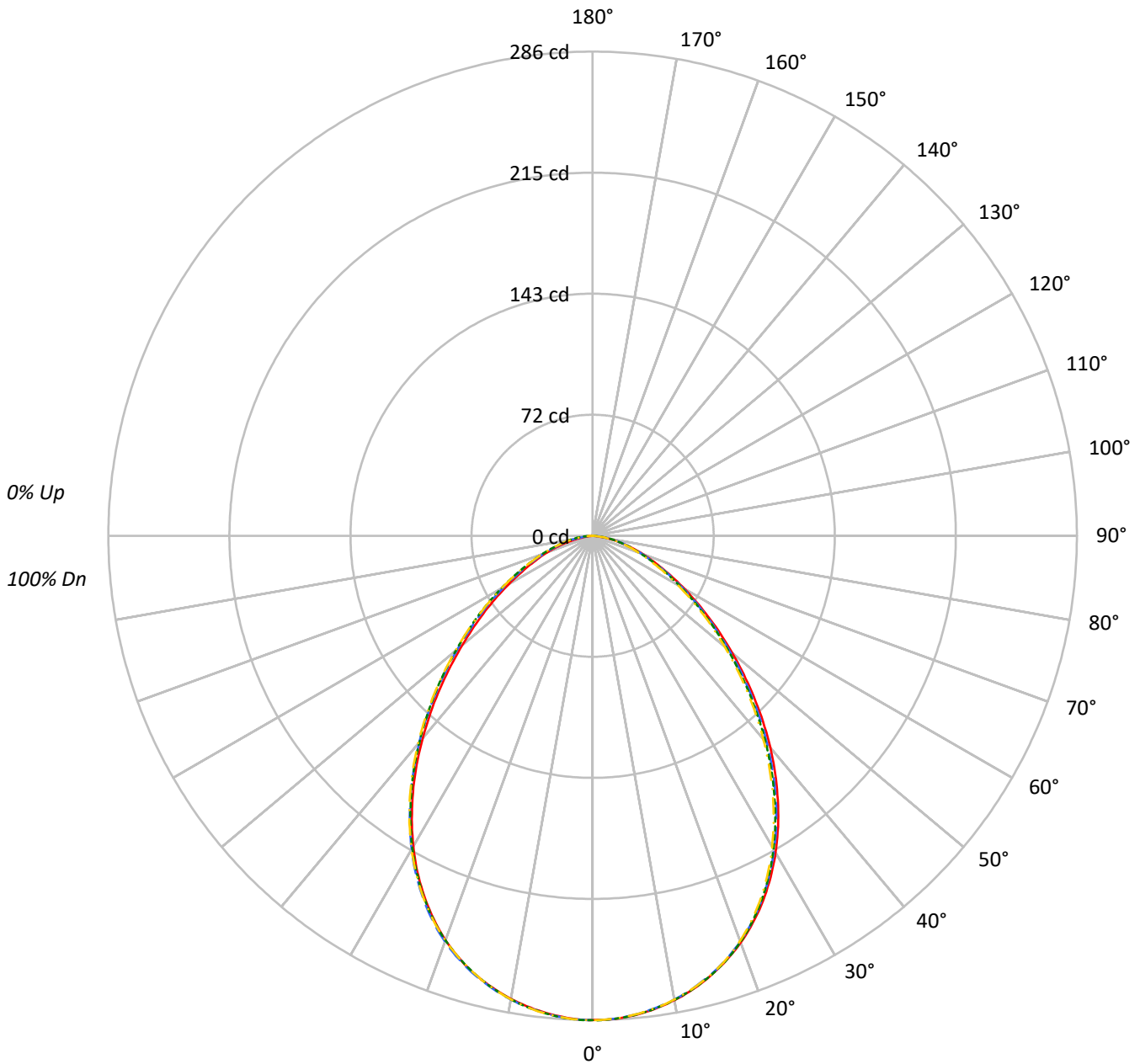
Lumens per Lamp: 579.66 (1 lamp)  
Luminaire Lumens: 570.0 lumens  
Efficiency: 98.3%  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.7  
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: P710058  
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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	117	117	117	117	114	114	114	114	109	109	109	105	105	105	100	100	100	98																			
1	109	105	101	98	106	102	99	96	98	96	93	95	92	90	91	89	88	86																			
2	100	93	87	83	98	91	86	82	88	84	80	85	81	78	82	79	76	74																			
3	92	83	76	71	90	82	75	70	79	73	69	76	72	68	74	70	67	65																			
4	85	75	67	61	83	74	66	61	71	65	60	69	64	59	67	62	59	57																			
5	79	68	60	54	77	67	59	54	65	58	53	63	57	53	61	56	52	50																			
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	47	45																			
7	69	56	49	43	67	56	48	43	54	47	43	53	47	42	52	46	42	40																			
8	64	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36																			
9	60	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33																			
10	57	44	37	32	55	44	37	32	43	37	32	42	36	32	41	36	32	30																			

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

	0°	90°	180°	270°
0°	62736	62736	62736	62736
5°	62580	62558	62448	62536
10°	62034	61990	61856	61900
15°	61090	61090	60886	60840
20°	59669	59575	59318	59318
25°	57584	57269	56907	57027
30°	54717	54110	53603	53907
35°	51049	50112	49523	50032
40°	46716	45485	44684	45542
45°	41772	40438	39477	40779
50°	36707	35376	34250	35956
55°	31846	30623	29552	31617
60°	27410	26182	25086	27366
65°	23453	22259	21221	23504
70°	20260	19042	18208	20388
75°	16436	16352	13895	17961
80°	12123	13512	8082	16290
85°	1761	8806	252	14089

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 41772 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	26.9	4.7	4.6
10°-20°	75.6	13.3	13.0
20°-30°	108.5	19.0	18.7
30°-40°	116.8	20.5	20.1
40°-50°	101.0	17.7	17.4
50°-60°	72.5	12.7	12.5
60°-70°	43.6	7.7	7.5
70°-80°	20.9	3.7	3.6
80°-90°	4.3	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°	210.9	37.0	36.4
0°-40°	327.7	57.5	56.5
0°-60°	501.2	87.9	86.5
0°-90°	570.0	100.0	98.3
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°	570.0	100.0	98.3

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	286	286	286	286	286	
5°	284	284	284	284	284	27
15°	269	269	268	268	269	76
25°	238	237	235	236	238	109
35°	191	187	185	187	191	119
45°	135	130	127	132	135	104
55°	83	80	77	83	83	75
65°	45	43	41	45	45	45
75°	19	19	16	21	19	21
85°	1	4	0	6	1	3
90°	0	0	0	0	0	



TEST NUMBER: P710058

CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	286.1	286.1	286.1	286.1	286.1	286.1	286.1	286.1	286.1	286.1	286.1
0.5°	286.0	286.1	286.1	286.3	286.1	286.1	286.1	286.1	286.1	286.2	286.1
1°	286.0	286.0	286.0	286.2	286.1	286.1	286.0	286.0	285.9	286.2	286.1
1.5°	286.0	286.0	285.9	286.1	285.9	286.0	285.9	285.9	285.9	286.1	286.0
2°	285.9	285.9	285.8	285.9	285.7	285.8	285.7	285.8	285.8	285.9	285.9
2.5°	285.7	285.7	285.6	285.7	285.5	285.6	285.4	285.5	285.6	285.7	285.7
3°	285.5	285.4	285.4	285.4	285.3	285.4	285.2	285.3	285.4	285.5	285.5
3.5°	285.3	285.1	285.1	285.2	284.9	285.0	284.8	285.0	285.2	285.2	285.2
4°	285.0	284.8	284.6	284.9	284.7	284.7	284.5	284.7	284.7	284.9	285.0
4.5°	284.6	284.4	284.3	284.6	284.3	284.3	284.1	284.4	284.4	284.5	284.6
5°	284.3	284.1	283.9	284.2	283.9	283.9	283.7	284.0	284.0	284.1	284.3
5.5°	283.9	283.6	283.5	283.8	283.5	283.6	283.3	283.5	283.7	283.7	283.8
6°	283.4	283.2	283.0	283.3	283.1	283.2	282.8	283.1	283.0	283.2	283.4
6.5°	282.9	282.7	282.5	282.8	282.5	282.6	282.2	282.5	282.7	282.6	282.9
7°	282.5	282.1	281.9	282.3	282.0	282.2	281.8	282.1	282.1	282.0	282.3
7.5°	281.9	281.6	281.5	281.7	281.4	281.5	281.1	281.5	281.6	281.6	281.7
8°	281.3	281.0	280.8	281.1	280.8	281.0	280.6	280.9	280.9	280.9	281.1
8.5°	280.7	280.3	280.1	280.5	280.2	280.3	279.9	280.3	280.3	280.3	280.4
9°	280.0	279.6	279.5	279.9	279.6	279.7	279.3	279.6	279.7	279.5	279.7
9.5°	279.2	278.9	278.8	279.1	278.8	279.0	278.5	278.9	278.9	278.8	279.0
10°	278.6	278.2	278.0	278.4	278.0	278.2	277.8	278.2	278.2	278.0	278.2
10.5°	277.8	277.4	277.3	277.6	277.2	277.5	277.0	277.4	277.5	277.2	277.4
11°	277.0	276.5	276.5	276.8	276.3	276.6	276.1	276.6	276.6	276.3	276.6
11.5°	276.1	275.7	275.6	275.9	275.5	275.7	275.2	275.7	275.7	275.5	275.6
12°	275.3	274.8	274.7	275.1	274.6	274.9	274.3	274.7	274.9	274.5	274.7
12.5°	274.3	273.9	273.7	274.1	273.7	273.9	273.4	273.8	273.9	273.6	273.7
13°	273.4	272.8	272.7	273.2	272.7	273.0	272.4	272.8	272.9	272.6	272.7
13.5°	272.3	271.8	271.7	272.2	271.6	272.1	271.4	271.8	271.8	271.5	271.5
14°	271.3	270.8	270.6	271.2	270.7	271.0	270.4	270.7	270.8	270.3	270.6
14.5°	270.2	269.7	269.6	270.1	269.6	270.0	269.3	269.7	269.7	269.3	269.4
15°	269.1	268.5	268.5	269.1	268.5	268.9	268.2	268.6	268.6	268.0	268.1
15.5°	267.8	267.5	267.4	267.9	267.3	267.7	267.0	267.5	267.5	266.9	266.9
16°	266.7	266.2	266.2	266.7	266.1	266.5	265.8	266.3	266.3	265.6	265.7
16.5°	265.4	265.0	264.9	265.4	264.8	265.2	264.5	265.1	265.0	264.4	264.3
17°	264.2	263.7	263.6	264.2	263.5	264.0	263.2	263.8	263.7	263.0	263.1
17.5°	262.9	262.5	262.3	262.8	262.1	262.5	261.7	262.4	262.4	261.7	261.9
18°	261.5	261.1	260.9	261.4	260.6	261.1	260.3	261.1	261.0	260.3	260.4
18.5°	260.1	259.6	259.4	260.0	259.1	259.7	258.8	259.7	259.5	258.8	258.8
19°	258.7	258.2	257.9	258.5	257.6	258.1	257.3	258.2	258.1	257.4	257.5
19.5°	257.3	256.7	256.4	256.9	256.0	256.4	255.7	256.6	256.7	255.9	256.0
20°	255.7	255.1	254.9	255.3	254.4	254.8	254.2	255.0	255.1	254.2	254.5
20.5°	254.2	253.6	253.2	253.7	252.7	253.2	252.4	253.4	253.5	252.6	252.8
21°	252.6	251.9	251.6	252.0	250.9	251.4	250.8	251.8	251.7	250.9	251.3



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	247.4	246.7	246.3	246.6	245.4	245.9	245.2	246.4	246.4	245.5	246.0
23°	245.6	244.8	244.5	244.7	243.4	243.9	243.3	244.6	244.6	243.6	244.1
23.5°	243.8	242.9	242.5	242.7	241.4	242.0	241.3	242.6	242.6	241.8	242.2
24°	241.9	241.0	240.6	240.8	239.4	240.0	239.3	240.7	240.6	239.7	240.3
24.5°	240.0	239.0	238.6	238.8	237.3	237.9	237.2	238.7	238.7	237.8	238.3
25°	238.0	237.0	236.6	236.7	235.3	235.8	235.2	236.6	236.6	235.7	236.3
25.5°	236.0	235.0	234.4	234.6	233.1	233.7	233.0	234.5	234.5	233.6	234.2
26°	234.0	232.9	232.3	232.4	230.8	231.4	230.8	232.3	232.3	231.4	232.1
26.5°	231.8	230.8	230.1	230.3	228.6	229.1	228.6	230.2	230.2	229.3	229.9
27°	229.7	228.6	228.0	227.9	226.3	226.9	226.3	228.0	227.9	227.0	227.8
27.5°	227.5	226.4	225.7	225.7	224.0	224.6	224.0	225.7	225.7	224.8	225.5
28°	225.3	224.2	223.5	223.4	221.6	222.2	221.7	223.4	223.3	222.5	223.3
28.5°	223.0	221.8	221.1	221.0	219.2	219.8	219.2	221.1	221.1	220.2	221.0
29°	220.8	219.5	218.7	218.6	216.7	217.3	216.7	218.6	218.7	217.7	218.6
29.5°	218.5	217.2	216.3	216.2	214.2	214.8	214.3	216.2	216.2	215.4	216.3
30°	216.1	214.8	213.9	213.7	211.8	212.4	211.7	213.8	213.8	212.9	213.8
30.5°	213.7	212.3	211.4	211.1	209.1	209.8	209.2	211.3	211.3	210.5	211.4
31°	211.2	209.9	209.0	208.5	206.5	207.2	206.6	208.7	208.8	207.9	208.9
31.5°	208.8	207.3	206.4	206.0	204.0	204.7	204.1	206.2	206.3	205.4	206.4
32°	206.2	204.8	203.8	203.4	201.3	202.0	201.4	203.5	203.7	202.8	203.8
32.5°	203.8	202.3	201.2	200.8	198.6	199.4	198.8	200.9	201.1	200.2	201.3
33°	201.1	199.7	198.6	198.1	195.9	196.7	196.0	198.2	198.5	197.7	198.7
33.5°	198.7	197.0	195.9	195.4	193.2	194.0	193.4	195.6	195.8	195.0	196.2
34°	196.0	194.4	193.3	192.7	190.4	191.3	190.5	192.8	193.1	192.3	193.4
34.5°	193.4	191.7	190.5	189.9	187.7	188.5	187.8	190.1	190.4	189.6	190.8
35°	190.7	189.1	187.8	187.2	184.9	185.8	185.0	187.3	187.7	186.9	188.0
35.5°	188.0	186.3	185.1	184.4	182.1	183.1	182.2	184.5	184.9	184.2	185.4
36°	185.4	183.6	182.3	181.6	179.2	180.2	179.3	181.8	182.2	181.4	182.7
36.5°	182.6	180.7	179.7	178.8	176.3	177.4	176.5	178.9	179.4	178.7	180.1
37°	179.9	178.1	176.9	175.9	173.5	174.5	173.6	176.0	176.6	175.9	177.3
37.5°	177.2	175.2	174.0	173.0	170.6	171.7	170.7	173.1	173.7	173.1	174.5
38°	174.4	172.4	171.2	170.2	167.6	168.8	167.8	170.1	170.9	170.4	171.7
38.5°	171.6	169.6	168.3	167.3	164.8	166.0	164.9	167.2	168.1	167.5	168.9
39°	168.9	166.6	165.4	164.6	162.0	163.1	162.0	164.6	165.2	164.8	166.2
39.5°	166.1	163.9	162.6	161.7	159.0	160.3	159.0	161.7	162.3	161.9	163.5
40°	163.2	161.0	159.8	158.9	156.0	157.4	156.1	158.9	159.5	159.1	160.6
40.5°	160.4	158.2	156.9	156.0	153.2	154.6	153.3	156.0	156.7	156.4	157.8
41°	157.5	155.2	154.0	153.1	150.3	151.7	150.3	153.1	153.8	153.6	155.0
41.5°	154.7	152.4	151.2	150.1	147.3	148.8	147.4	150.1	151.0	150.8	152.2
42°	151.7	149.5	148.3	147.3	144.6	146.0	144.5	147.2	148.1	147.9	149.4
42.5°	149.0	146.7	145.5	144.4	141.7	143.0	141.6	144.3	145.3	145.2	146.6
43°	146.1	143.8	142.7	141.6	138.9	140.2	138.7	141.4	142.4	142.4	143.8
43.5°	143.3	141.1	139.9	138.7	136.0	137.4	135.9	138.5	139.6	139.7	141.1



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	134.7	132.5	131.4	130.4	127.7	129.1	127.3	130.1	131.3	131.5	132.8
45.5°	131.9	129.8	128.7	127.5	124.9	126.2	124.6	127.3	128.5	128.8	130.1
46°	129.1	127.0	125.9	124.8	122.2	123.4	121.8	124.5	125.8	126.1	127.4
46.5°	126.4	124.3	123.2	122.0	119.5	120.7	119.0	121.8	123.1	123.5	124.8
47°	123.6	121.5	120.5	119.4	116.7	118.1	116.3	119.1	120.4	120.8	122.1
47.5°	120.9	118.8	117.8	116.7	114.1	115.3	113.6	116.4	117.7	118.3	119.5
48°	118.1	116.2	115.1	114.1	111.5	112.6	110.8	113.7	115.1	115.5	116.8
48.5°	115.5	113.5	112.5	111.4	108.8	109.9	108.3	111.1	112.5	113.0	114.3
49°	112.9	110.9	109.9	108.9	106.2	107.4	105.6	108.5	109.9	110.4	111.7
49.5°	110.2	108.3	107.4	106.2	103.7	104.7	103.0	105.9	107.4	108.0	109.1
50°	107.6	105.7	104.8	103.7	101.2	102.1	100.4	103.3	104.8	105.4	106.7
50.5°	105.1	103.1	102.2	101.2	98.6	99.6	97.9	100.8	102.3	102.9	104.2
51°	102.5	100.6	99.7	98.7	96.2	97.1	95.4	98.4	99.9	100.5	101.7
51.5°	100.0	98.1	97.3	96.2	93.8	94.6	93.0	95.8	97.4	98.1	99.3
52°	97.5	95.6	94.9	93.8	91.3	92.2	90.7	93.4	95.0	95.7	96.9
52.5°	95.1	93.2	92.5	91.5	89.1	89.7	88.5	91.0	92.6	93.3	94.5
53°	92.7	90.7	90.1	89.1	87.0	87.3	86.2	88.6	90.4	90.9	92.2
53.5°	90.3	88.6	87.8	86.8	84.8	85.1	83.9	86.3	88.3	88.9	89.9
54°	87.9	86.4	85.4	84.5	82.7	82.7	81.7	84.1	86.1	86.8	87.6
54.5°	85.6	84.3	83.1	82.2	80.4	80.4	79.5	81.8	84.0	84.7	85.4
55°	83.3	82.2	81.0	80.1	78.2	78.2	77.3	79.6	81.8	82.7	83.1
55.5°	81.1	79.9	78.7	77.8	76.0	76.0	75.1	77.4	79.6	80.5	81.0
56°	78.9	77.7	76.6	75.7	73.9	73.8	72.9	75.3	77.5	78.3	78.8
56.5°	76.8	75.6	74.4	73.5	71.8	71.7	70.8	73.2	75.4	76.3	76.7
57°	74.6	73.5	72.3	71.4	69.7	69.6	68.8	71.1	73.3	74.2	74.6
57.5°	72.5	71.4	70.3	69.4	67.7	67.5	66.8	69.1	71.3	72.1	72.6
58°	70.3	69.3	68.2	67.4	65.7	65.5	64.8	67.0	69.3	70.1	70.5
58.5°	68.3	67.3	66.2	65.4	63.7	63.5	62.8	65.1	67.3	68.1	68.5
59°	66.3	65.3	64.2	63.5	61.8	61.5	60.9	63.2	65.3	66.2	66.6
59.5°	64.4	63.3	62.3	61.6	59.9	59.6	59.0	61.3	63.4	64.3	64.7
60°	62.5	61.4	60.4	59.7	58.1	57.7	57.2	59.4	61.5	62.4	62.8
60.5°	60.6	59.5	58.6	57.9	56.2	55.9	55.4	57.6	59.7	60.5	60.9
61°	58.7	57.7	56.8	56.1	54.4	54.1	53.6	55.8	57.9	58.6	59.1
61.5°	56.9	55.8	55.0	54.3	52.7	52.4	51.9	54.1	56.1	56.9	57.3
62°	55.1	54.1	53.2	52.5	50.9	50.6	50.2	52.3	54.3	55.1	55.5
62.5°	53.4	52.3	51.5	50.8	49.3	48.9	48.5	50.6	52.6	53.4	53.8
63°	51.7	50.7	49.8	49.2	47.7	47.3	46.9	49.0	50.9	51.7	52.1
63.5°	50.0	49.0	48.2	47.6	46.1	45.7	45.4	47.4	49.3	50.1	50.5
64°	48.3	47.4	46.6	46.0	44.5	44.1	43.8	45.8	47.7	48.5	48.8
64.5°	46.7	45.8	45.0	44.4	43.0	42.6	42.3	44.3	46.1	46.9	47.2
65°	45.2	44.2	43.4	42.9	41.5	41.1	40.9	42.8	44.6	45.3	45.7
65.5°	43.7	42.7	41.9	41.4	40.0	39.7	39.5	41.3	43.1	43.8	44.2
66°	42.2	41.2	40.5	40.0	38.6	38.3	38.1	39.9	41.6	42.3	42.7





TEST NUMBER: P710058

CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	37.9	37.0	36.3	35.8	34.6	34.4	34.2	35.9	37.4	38.1	38.5
68°	36.6	35.7	35.0	34.6	33.4	33.2	33.0	34.6	36.1	36.7	37.1
68.5°	35.3	34.4	33.7	33.3	32.1	32.0	31.8	33.3	34.8	35.4	35.8
69°	34.1	33.1	32.5	32.0	31.0	30.9	30.7	32.1	33.6	34.2	34.6
69.5°	32.8	31.9	31.3	30.8	29.8	29.7	29.6	31.0	32.4	33.0	33.3
70°	31.6	30.8	30.1	29.7	28.8	28.7	28.4	29.8	31.2	31.8	32.1
70.5°	30.3	29.6	29.0	28.5	27.7	27.6	27.2	28.7	30.0	30.6	30.9
71°	29.0	28.5	27.8	27.4	26.6	26.6	26.0	27.6	28.8	29.4	29.7
71.5°	27.7	27.4	26.7	26.3	25.5	25.5	24.8	26.5	27.7	28.3	28.5
72°	26.4	26.3	25.7	25.3	24.5	24.4	23.6	25.4	26.7	27.2	27.4
72.5°	25.2	25.2	24.6	24.2	23.5	23.3	22.4	24.3	25.6	26.1	26.3
73°	24.0	24.2	23.6	23.2	22.6	22.3	21.2	23.2	24.6	25.0	25.2
73.5°	22.8	23.1	22.6	22.2	21.6	21.2	20.0	22.1	23.6	24.0	24.2
74°	21.6	22.0	21.7	21.2	20.7	20.1	18.8	21.0	22.6	23.0	23.2
74.5°	20.5	21.0	20.7	20.2	19.7	19.0	17.6	19.9	21.7	22.1	22.2
75°	19.4	19.9	19.8	19.3	18.8	17.9	16.4	18.9	20.7	21.2	21.3
75.5°	18.3	18.9	18.9	18.3	17.9	16.9	15.2	17.8	19.8	20.2	20.4
76°	17.2	17.9	18.0	17.4	17.0	15.8	14.1	16.8	19.0	19.3	19.5
76.5°	16.2	16.9	17.2	16.5	16.1	14.8	13.0	15.8	18.1	18.5	18.6
77°	15.2	15.9	16.3	15.6	15.2	13.8	12.1	14.8	17.2	17.6	17.7
77.5°	14.2	15.0	15.5	14.7	14.3	12.8	11.2	13.8	16.4	16.8	16.9
78°	13.2	14.1	14.7	13.8	13.4	11.9	10.2	12.9	15.5	15.9	16.1
78.5°	12.4	13.2	14.0	12.9	12.5	11.0	9.3	12.0	14.7	15.1	15.3
79°	11.5	12.3	13.2	12.1	11.7	10.0	8.3	11.1	13.9	14.3	14.5
79.5°	10.6	11.5	12.4	11.4	10.9	9.2	7.3	10.2	13.1	13.6	13.7
80°	9.6	10.7	11.8	10.7	10.3	8.4	6.4	9.4	12.4	12.9	13.0
80.5°	8.6	9.8	11.1	10.0	9.6	7.6	5.4	8.5	11.7	12.2	12.3
81°	7.7	9.0	10.4	9.3	8.9	6.8	4.5	7.7	11.0	11.5	11.6
81.5°	6.7	8.2	9.7	8.5	8.2	6.0	3.5	6.8	10.3	10.8	11.0
82°	5.8	7.3	9.0	7.8	7.4	5.2	2.6	6.0	9.5	10.0	10.3
82.5°	4.8	6.5	8.2	7.1	6.7	4.5	1.8	5.2	8.8	9.3	9.5
83°	3.9	5.7	7.5	6.3	6.0	3.8	1.0	4.4	8.0	8.5	8.8
83.5°	3.0	5.0	6.8	5.6	5.2	3.3	0.5	3.7	7.3	7.8	8.1
84°	2.1	4.3	6.0	4.9	4.5	2.8	0.3	3.1	6.6	7.1	7.3
84.5°	1.4	3.6	5.3	4.2	3.8	2.4	0.2	2.6	5.8	6.3	6.6
85°	0.7	3.0	4.6	3.5	3.1	1.9	0.1	2.2	5.1	5.6	5.9
85.5°	0.4	2.6	3.9	2.8	2.5	1.6	0.1	1.8	4.4	4.9	5.2
86°	0.3	2.2	3.2	2.1	1.8	1.2	0.0	1.5	3.7	4.2	4.4
86.5°	0.2	1.8	2.5	1.5	1.2	0.8	0.0	1.1	3.0	3.5	3.7
87°	0.2	1.4	1.8	0.9	0.6	0.5	0.0	0.8	2.4	2.8	3.0
87.5°	0.1	1.0	1.2	0.4	0.2	0.2	0.0	0.5	1.7	2.1	2.4
88°	0.1	0.7	0.7	0.1	0.1	0.1	0.0	0.2	1.1	1.5	1.7
88.5°	0.1	0.4	0.2	0.1	0.1	0.1	0.0	0.1	0.6	0.9	1.1



TEST NUMBER: P710058  
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1



TEST NUMBER: P710058  
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	286.1	286.1
0.5°	286.1	286.0
1°	286.1	286.0
1.5°	285.9	286.0
2°	285.8	285.9
2.5°	285.7	285.7
3°	285.4	285.5
3.5°	285.1	285.3
4°	284.8	285.0
4.5°	284.4	284.6
5°	284.1	284.3
5.5°	283.6	283.9
6°	283.2	283.4
6.5°	282.7	282.9
7°	282.1	282.5
7.5°	281.4	281.9
8°	280.9	281.3
8.5°	280.2	280.7
9°	279.5	280.0
9.5°	278.7	279.2
10°	277.9	278.6
10.5°	277.1	277.8
11°	276.3	277.0
11.5°	275.4	276.1
12°	274.5	275.3
12.5°	273.4	274.3
13°	272.4	273.4
13.5°	271.4	272.3
14°	270.3	271.3
14.5°	269.2	270.2
15°	268.0	269.1
15.5°	266.8	267.8
16°	265.5	266.7
16.5°	264.2	265.4
17°	263.0	264.2
17.5°	261.7	262.9
18°	260.3	261.5
18.5°	258.8	260.1
19°	257.4	258.7
19.5°	255.8	257.3
20°	254.3	255.7
20.5°	252.6	254.2
21°	251.1	252.6



TEST NUMBER: P710058  
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
22.5°	245.8	247.4
23°	243.9	245.6
23.5°	242.1	243.8
24°	240.0	241.9
24.5°	238.2	240.0
25°	236.2	238.0
25.5°	234.1	236.0
26°	231.9	234.0
26.5°	229.9	231.8
27°	227.6	229.7
27.5°	225.4	227.5
28°	223.1	225.3
28.5°	220.8	223.0
29°	218.5	220.8
29.5°	216.2	218.5
30°	213.7	216.1
30.5°	211.3	213.7
31°	208.9	211.2
31.5°	206.4	208.8
32°	203.9	206.2
32.5°	201.4	203.8
33°	198.7	201.1
33.5°	196.2	198.7
34°	193.4	196.0
34.5°	190.8	193.4
35°	188.2	190.7
35.5°	185.5	188.0
36°	182.6	185.4
36.5°	180.0	182.6
37°	177.2	179.9
37.5°	174.4	177.2
38°	171.6	174.4
38.5°	168.8	171.6
39°	165.9	168.9
39.5°	163.1	166.1
40°	160.3	163.2
40.5°	157.5	160.4
41°	154.6	157.5
41.5°	151.7	154.7
42°	148.8	151.7
42.5°	146.0	149.0
43°	143.1	146.1
43.5°	140.4	143.3



TEST NUMBER: P710058

CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	131.9	134.7
45.5°	129.1	131.9
46°	126.3	129.1
46.5°	123.6	126.4
47°	121.0	123.6
47.5°	118.3	120.9
48°	115.6	118.1
48.5°	112.9	115.5
49°	110.4	112.9
49.5°	107.8	110.2
50°	105.2	107.6
50.5°	102.7	105.1
51°	100.2	102.5
51.5°	97.7	100.0
52°	95.2	97.5
52.5°	92.9	95.1
53°	90.7	92.7
53.5°	88.6	90.3
54°	86.4	87.9
54.5°	84.2	85.6
55°	82.1	83.3
55.5°	79.9	81.1
56°	77.7	78.9
56.5°	75.6	76.8
57°	73.5	74.6
57.5°	71.5	72.5
58°	69.5	70.3
58.5°	67.5	68.3
59°	65.5	66.3
59.5°	63.7	64.4
60°	61.8	62.5
60.5°	59.9	60.6
61°	58.0	58.7
61.5°	56.3	56.9
62°	54.5	55.1
62.5°	52.9	53.4
63°	51.2	51.7
63.5°	49.5	50.0
64°	48.0	48.3
64.5°	46.4	46.7
65°	44.9	45.2
65.5°	43.4	43.7
66°	42.0	42.2



TEST NUMBER: P710058  
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
67.5°	37.8	37.9
68°	36.5	36.6
68.5°	35.2	35.3
69°	34.0	34.1
69.5°	32.8	32.8
70°	31.6	31.6
70.5°	30.4	30.3
71°	29.2	29.0
71.5°	28.0	27.7
72°	26.8	26.4
72.5°	25.7	25.2
73°	24.5	24.0
73.5°	23.4	22.8
74°	22.2	21.6
74.5°	21.2	20.5
75°	20.2	19.4
75.5°	19.2	18.3
76°	18.2	17.2
76.5°	17.2	16.2
77°	16.3	15.2
77.5°	15.4	14.2
78°	14.5	13.2
78.5°	13.7	12.4
79°	12.8	11.5
79.5°	11.9	10.6
80°	11.1	9.6
80.5°	10.3	8.6
81°	9.4	7.7
81.5°	8.6	6.7
82°	7.8	5.8
82.5°	7.0	4.8
83°	6.2	3.9
83.5°	5.4	3.0
84°	4.7	2.1
84.5°	4.0	1.4
85°	3.4	0.7
85.5°	2.9	0.4
86°	2.5	0.3
86.5°	2.1	0.2
87°	1.8	0.2
87.5°	1.4	0.1
88°	1.0	0.1
88.5°	0.7	0.1

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

Scaled Data Report



TEST NUMBER: P710058  
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	0.1	0.0

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°	250.9	250.2	250.0	250.3	249.1	249.7	248.9	250.1	250.0	249.3	249.5
22°	249.2	248.4	248.2	248.5	247.3	247.8	247.1	248.3	248.2	247.4	247.8



44°	140.4	138.2	137.0	136.0	133.2	134.6	133.0	135.8	136.8	136.9	138.2
44.5°	137.6	135.4	134.2	133.1	130.5	131.8	130.1	132.9	134.1	134.2	135.5



66.5°	40.7	39.8	39.1	38.6	37.2	37.0	36.7	38.5	40.2	40.9	41.3
67°	39.3	38.4	37.7	37.2	35.9	35.7	35.5	37.2	38.8	39.5	39.8



89°	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.5	0.6
89.5°	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.2



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

Scaled Data Report





21.5°	249.3	250.9
22°	247.6	249.2



44°	137.5	140.4
44.5°	134.7	137.6

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

Scaled Data Report



66.5°	40.5	40.7
67°	39.2	39.3



89°	0.4	0.1
89.5°	0.2	0.1

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

Scaled Data Report



(END OF REPORT)