

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: P710059

Luminaire Tested: RA3059FSD2W1EWH-500lm-3500K

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P710059  
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-3500K  
Description: 3IN RETROFIT 500 LUMENS  
Light Source: SELECTABLE CCT LEDs 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

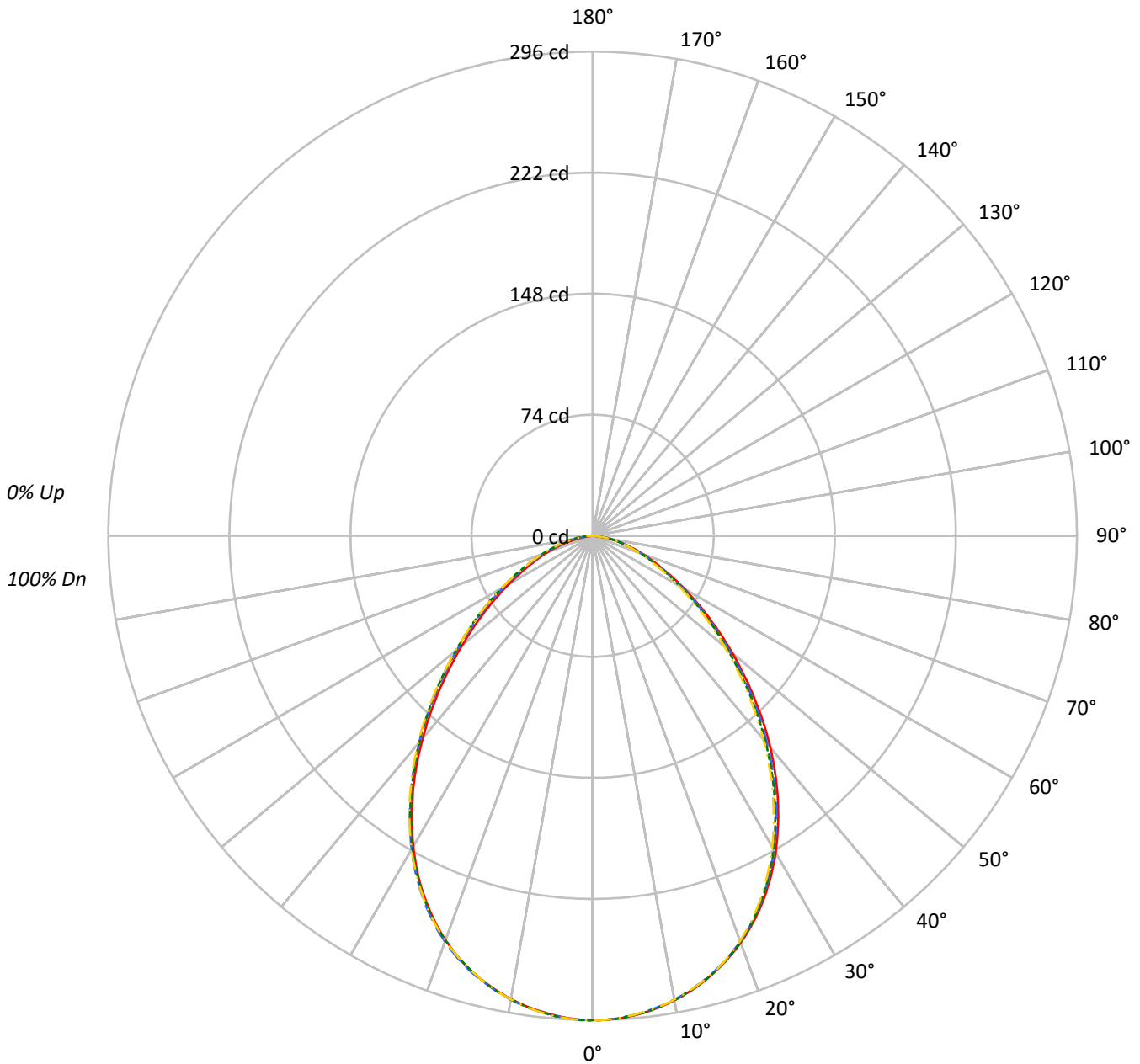
Lumens per Lamp: 579.66 (1 lamp)  
Luminaire Lumens: 590.0 lumens  
Efficiency: 101.8%  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.6  
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



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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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	104	104	104	102																			
1	112	108	105	101	110	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	96	90	85	101	95	89	84	91	86	82	88	84	81	85	82	79	77																			
3	96	86	79	73	93	85	78	72	82	76	71	79	74	70	77	72	69	67																			
4	88	78	70	64	86	76	69	63	74	67	62	72	66	61	69	65	61	59																			
5	82	70	62	56	80	69	61	56	67	60	55	65	59	54	63	58	54	52																			
6	76	64	56	50	74	63	55	49	61	54	49	60	53	49	58	52	48	46																			
7	71	58	50	44	69	58	50	44	56	49	44	55	48	44	53	48	43	42																			
8	66	54	46	40	65	53	45	40	52	45	40	51	44	40	49	44	39	38																			
9	62	50	42	37	61	49	42	36	48	41	36	47	41	36	46	40	36	34																			
10	59	46	38	33	57	46	38	33	45	38	33	44	37	33	43	37	33	31																			

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

	0°	90°	180°	270°
0°	64929	64929	64929	64929
5°	64781	64759	64649	64737
10°	64194	64172	64038	64083
15°	63224	63224	63020	62974
20°	61769	61652	61395	61419
25°	59616	59278	58890	59036
30°	56642	56009	55477	55781
35°	52842	51879	51263	51798
40°	48348	47060	46258	47145
45°	43229	41834	40872	42206
50°	38003	36638	35444	37218
55°	32993	31693	30584	32725
60°	28375	27103	25963	28331
65°	24231	23037	21948	24335
70°	20965	19683	18849	21093
75°	17029	16860	14403	18554
80°	12502	14017	8334	16795
85°	2013	9057	252	14593

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 43229 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	27.9	4.7	4.8
10°-20°	78.2	13.3	13.5
20°-30°	112.3	19.0	19.4
30°-40°	120.9	20.5	20.9
40°-50°	104.5	17.7	18.0
50°-60°	75.0	12.7	12.9
60°-70°	45.2	7.7	7.8
70°-80°	21.6	3.7	3.7
80°-90°	4.5	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°	218.3	37.0	37.7
0°-40°	339.2	57.5	58.5
0°-60°	518.8	87.9	89.5
0°-90°	590.0	100.0	101.8
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°	590.0	100.0	101.8

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	296	296	296	296	296	
5°	294	294	294	294	294	28
15°	278	278	278	277	278	78
25°	246	245	243	244	246	113
35°	197	194	192	194	197	123
45°	139	135	132	136	139	108
55°	86	83	80	86	86	78
65°	47	44	42	47	47	47
75°	20	20	17	22	20	22
85°	1	4	0	6	1	3
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1
0.5°	296.1	296.2	296.2	296.3	296.2	296.2	296.1	296.1	296.1	296.3	296.2
1°	296.0	296.1	296.0	296.2	296.1	296.1	296.0	296.0	296.0	296.2	296.1
1.5°	296.0	296.0	296.0	296.1	296.0	296.0	295.9	295.9	296.0	296.2	296.1
2°	295.9	295.9	295.8	295.9	295.7	295.8	295.7	295.8	295.8	295.9	295.9
2.5°	295.7	295.7	295.6	295.7	295.5	295.6	295.4	295.6	295.6	295.7	295.8
3°	295.6	295.4	295.4	295.5	295.3	295.4	295.2	295.3	295.4	295.5	295.5
3.5°	295.3	295.1	295.1	295.2	294.9	295.0	294.8	295.0	295.2	295.3	295.2
4°	295.0	294.8	294.6	294.8	294.6	294.7	294.5	294.7	294.7	294.9	295.0
4.5°	294.6	294.4	294.3	294.5	294.3	294.3	294.1	294.4	294.4	294.5	294.6
5°	294.3	294.1	293.8	294.2	293.9	293.9	293.7	293.9	293.9	294.1	294.2
5.5°	293.9	293.6	293.4	293.7	293.4	293.5	293.2	293.5	293.6	293.6	293.7
6°	293.4	293.1	292.9	293.3	293.0	293.1	292.7	293.0	293.0	293.1	293.4
6.5°	292.9	292.6	292.5	292.7	292.4	292.5	292.2	292.4	292.6	292.6	292.8
7°	292.4	292.0	291.8	292.3	291.9	292.1	291.7	292.0	292.0	291.9	292.2
7.5°	291.7	291.5	291.3	291.6	291.3	291.4	291.0	291.4	291.5	291.4	291.6
8°	291.2	290.8	290.6	291.0	290.7	290.8	290.5	290.8	290.8	290.8	291.0
8.5°	290.5	290.1	290.0	290.4	290.0	290.2	289.7	290.1	290.1	290.1	290.2
9°	289.9	289.4	289.3	289.7	289.4	289.5	289.1	289.5	289.5	289.3	289.6
9.5°	289.0	288.7	288.6	288.9	288.6	288.8	288.3	288.7	288.7	288.6	288.8
10°	288.3	287.9	287.8	288.2	287.8	288.0	287.6	288.0	288.0	287.8	287.9
10.5°	287.5	287.2	287.0	287.4	287.0	287.2	286.7	287.1	287.2	286.9	287.1
11°	286.7	286.2	286.2	286.6	286.0	286.3	285.8	286.3	286.3	286.0	286.3
11.5°	285.8	285.4	285.2	285.6	285.2	285.4	284.9	285.4	285.4	285.2	285.3
12°	284.9	284.4	284.3	284.7	284.3	284.6	284.0	284.4	284.5	284.2	284.4
12.5°	284.0	283.5	283.3	283.8	283.3	283.5	283.0	283.4	283.5	283.2	283.3
13°	283.0	282.4	282.2	282.8	282.3	282.6	282.0	282.4	282.5	282.1	282.3
13.5°	281.9	281.4	281.2	281.7	281.2	281.6	280.9	281.3	281.4	281.0	281.1
14°	280.8	280.3	280.1	280.7	280.2	280.5	279.9	280.2	280.3	279.8	280.1
14.5°	279.7	279.2	279.0	279.6	279.1	279.5	278.7	279.2	279.1	278.7	278.9
15°	278.5	277.9	277.9	278.5	277.9	278.3	277.6	278.1	278.0	277.4	277.5
15.5°	277.2	276.9	276.8	277.3	276.7	277.1	276.4	276.9	276.9	276.2	276.3
16°	276.0	275.5	275.5	276.1	275.5	275.9	275.1	275.7	275.6	274.9	275.1
16.5°	274.7	274.3	274.2	274.7	274.1	274.5	273.7	274.4	274.2	273.6	273.6
17°	273.4	273.0	272.9	273.5	272.8	273.2	272.4	273.0	272.9	272.3	272.4
17.5°	272.1	271.7	271.5	272.1	271.3	271.7	270.9	271.7	271.6	270.8	271.1
18°	270.7	270.3	270.0	270.6	269.7	270.2	269.4	270.3	270.1	269.4	269.5
18.5°	269.2	268.8	268.5	269.1	268.2	268.8	267.9	268.8	268.6	267.9	267.8
19°	267.8	267.2	267.0	267.5	266.6	267.1	266.4	267.2	267.1	266.4	266.5
19.5°	266.3	265.7	265.4	265.9	264.9	265.4	264.6	265.6	265.7	264.8	265.0
20°	264.7	264.1	263.8	264.2	263.3	263.8	263.1	264.0	264.0	263.2	263.4
20.5°	263.1	262.5	262.1	262.6	261.6	262.1	261.3	262.3	262.3	261.5	261.7
21°	261.4	260.7	260.4	260.8	259.7	260.2	259.5	260.6	260.5	259.7	260.1



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	256.1	255.4	254.9	255.3	254.0	254.5	253.8	255.0	255.1	254.2	254.6
23°	254.2	253.4	253.0	253.3	252.0	252.5	251.8	253.1	253.2	252.2	252.7
23.5°	252.3	251.5	251.0	251.2	249.9	250.5	249.8	251.1	251.1	250.3	250.7
24°	250.4	249.5	249.0	249.2	247.8	248.4	247.7	249.1	249.1	248.1	248.8
24.5°	248.4	247.4	247.0	247.2	245.6	246.3	245.5	247.1	247.1	246.2	246.7
25°	246.4	245.4	244.9	245.0	243.5	244.1	243.4	244.9	244.9	244.0	244.6
25.5°	244.3	243.3	242.7	242.9	241.2	241.9	241.2	242.7	242.7	241.8	242.4
26°	242.2	241.1	240.5	240.5	238.9	239.6	238.9	240.5	240.4	239.6	240.3
26.5°	239.9	238.9	238.2	238.4	236.6	237.2	236.6	238.2	238.3	237.4	238.0
27°	237.7	236.6	236.0	235.9	234.2	234.8	234.3	236.0	235.9	235.0	235.8
27.5°	235.5	234.4	233.6	233.6	231.8	232.4	231.8	233.6	233.6	232.7	233.4
28°	233.2	232.0	231.3	231.3	229.3	230.0	229.4	231.2	231.1	230.3	231.1
28.5°	230.8	229.6	228.8	228.8	226.9	227.6	226.9	228.9	228.9	227.9	228.7
29°	228.5	227.2	226.4	226.3	224.3	225.0	224.3	226.3	226.3	225.4	226.2
29.5°	226.2	224.8	223.9	223.7	221.7	222.4	221.8	223.8	223.8	222.9	223.9
30°	223.7	222.3	221.4	221.2	219.2	219.9	219.1	221.3	221.3	220.3	221.4
30.5°	221.2	219.8	218.9	218.5	216.5	217.2	216.6	218.7	218.8	217.8	218.8
31°	218.6	217.2	216.3	215.9	213.7	214.5	213.9	216.0	216.1	215.2	216.2
31.5°	216.1	214.6	213.6	213.3	211.1	211.9	211.3	213.4	213.6	212.6	213.6
32°	213.4	212.0	211.0	210.5	208.4	209.1	208.4	210.7	210.9	210.0	211.0
32.5°	210.9	209.4	208.2	207.8	205.6	206.4	205.8	207.9	208.1	207.2	208.3
33°	208.2	206.7	205.6	205.1	202.7	203.6	202.9	205.2	205.5	204.6	205.6
33.5°	205.7	203.9	202.7	202.3	200.0	200.8	200.1	202.4	202.7	201.8	203.0
34°	202.9	201.2	200.0	199.4	197.1	198.0	197.2	199.6	199.9	199.1	200.1
34.5°	200.2	198.4	197.2	196.5	194.2	195.1	194.4	196.8	197.1	196.3	197.5
35°	197.4	195.7	194.4	193.8	191.4	192.3	191.5	193.9	194.3	193.5	194.6
35.5°	194.6	192.8	191.6	190.9	188.4	189.5	188.6	191.0	191.4	190.6	191.9
36°	191.9	190.0	188.7	188.0	185.5	186.6	185.6	188.2	188.6	187.8	189.1
36.5°	189.0	187.1	186.1	185.0	182.5	183.6	182.7	185.2	185.7	184.9	186.4
37°	186.2	184.3	183.1	182.1	179.6	180.7	179.7	182.2	182.8	182.1	183.5
37.5°	183.4	181.3	180.1	179.1	176.6	177.7	176.7	179.1	179.8	179.2	180.6
38°	180.5	178.4	177.2	176.1	173.5	174.8	173.7	176.1	176.9	176.4	177.8
38.5°	177.7	175.5	174.2	173.2	170.6	171.8	170.7	173.1	174.0	173.4	174.9
39°	174.8	172.5	171.3	170.3	167.7	168.8	167.7	170.4	171.0	170.5	172.0
39.5°	171.9	169.6	168.3	167.4	164.6	165.9	164.6	167.4	168.0	167.6	169.2
40°	168.9	166.6	165.4	164.4	161.5	162.9	161.6	164.4	165.1	164.7	166.3
40.5°	166.0	163.7	162.4	161.5	158.6	160.0	158.7	161.5	162.2	161.9	163.4
41°	163.0	160.7	159.5	158.4	155.6	157.0	155.6	158.4	159.2	159.0	160.4
41.5°	160.1	157.8	156.5	155.4	152.5	154.0	152.6	155.3	156.2	156.1	157.5
42°	157.1	154.8	153.5	152.5	149.6	151.1	149.6	152.4	153.3	153.1	154.6
42.5°	154.2	151.8	150.6	149.4	146.7	148.1	146.6	149.4	150.4	150.2	151.7
43°	151.2	148.8	147.7	146.5	143.7	145.1	143.6	146.4	147.4	147.4	148.8
43.5°	148.3	146.0	144.8	143.6	140.8	142.2	140.6	143.4	144.5	144.6	146.0



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	139.4	137.2	136.0	134.9	132.1	133.6	131.8	134.7	135.9	136.1	137.4
45.5°	136.5	134.4	133.2	132.0	129.3	130.6	129.0	131.8	133.0	133.3	134.7
46°	133.7	131.5	130.3	129.2	126.5	127.8	126.1	128.9	130.2	130.5	131.9
46.5°	130.8	128.7	127.6	126.3	123.7	124.9	123.2	126.0	127.4	127.8	129.1
47°	127.9	125.8	124.7	123.6	120.8	122.2	120.3	123.3	124.7	125.1	126.3
47.5°	125.1	123.0	121.9	120.8	118.1	119.4	117.6	120.5	121.8	122.4	123.6
48°	122.3	120.2	119.2	118.1	115.4	116.6	114.7	117.7	119.1	119.6	120.9
48.5°	119.6	117.5	116.5	115.3	112.6	113.8	112.1	115.0	116.4	117.0	118.3
49°	116.8	114.7	113.7	112.7	109.9	111.1	109.3	112.3	113.8	114.3	115.6
49.5°	114.0	112.1	111.1	110.0	107.3	108.4	106.6	109.6	111.1	111.7	113.0
50°	111.4	109.4	108.4	107.4	104.7	105.7	103.9	107.0	108.5	109.1	110.4
50.5°	108.7	106.7	105.8	104.7	102.1	103.1	101.3	104.4	105.9	106.5	107.8
51°	106.1	104.1	103.2	102.2	99.6	100.5	98.8	101.8	103.4	104.0	105.3
51.5°	103.5	101.6	100.8	99.6	97.0	97.9	96.2	99.2	100.8	101.5	102.8
52°	101.0	98.9	98.2	97.1	94.5	95.4	93.9	96.7	98.3	99.1	100.3
52.5°	98.5	96.4	95.7	94.7	92.3	92.9	91.6	94.2	95.8	96.6	97.9
53°	95.9	93.9	93.3	92.2	90.0	90.4	89.2	91.7	93.6	94.1	95.4
53.5°	93.5	91.7	90.8	89.9	87.8	88.0	86.9	89.4	91.4	92.0	93.1
54°	91.0	89.5	88.4	87.5	85.6	85.6	84.6	87.1	89.1	89.8	90.7
54.5°	88.6	87.3	86.1	85.1	83.2	83.3	82.3	84.7	86.9	87.7	88.3
55°	86.3	85.1	83.8	82.9	80.9	80.9	80.0	82.4	84.7	85.6	86.1
55.5°	83.9	82.7	81.5	80.5	78.7	78.6	77.7	80.1	82.4	83.3	83.8
56°	81.7	80.5	79.3	78.3	76.5	76.4	75.5	77.9	80.2	81.1	81.6
56.5°	79.5	78.2	77.0	76.1	74.3	74.2	73.3	75.8	78.0	78.9	79.4
57°	77.2	76.1	74.9	74.0	72.2	72.0	71.2	73.6	75.9	76.8	77.2
57.5°	75.0	73.9	72.7	71.8	70.1	69.9	69.1	71.5	73.8	74.6	75.1
58°	72.8	71.8	70.6	69.8	68.0	67.8	67.1	69.4	71.7	72.6	73.0
58.5°	70.7	69.6	68.5	67.7	66.0	65.7	65.1	67.4	69.6	70.5	71.0
59°	68.7	67.6	66.5	65.7	64.0	63.7	63.1	65.4	67.6	68.5	68.9
59.5°	66.6	65.6	64.5	63.8	62.0	61.7	61.1	63.4	65.6	66.5	66.9
60°	64.7	63.6	62.6	61.8	60.1	59.8	59.2	61.5	63.7	64.6	65.0
60.5°	62.7	61.6	60.6	59.9	58.2	57.9	57.3	59.6	61.8	62.6	63.1
61°	60.8	59.7	58.7	58.0	56.3	56.0	55.5	57.8	59.9	60.7	61.2
61.5°	58.9	57.8	56.9	56.2	54.5	54.2	53.7	56.0	58.0	58.9	59.3
62°	57.1	56.0	55.1	54.4	52.7	52.4	51.9	54.2	56.2	57.1	57.5
62.5°	55.2	54.2	53.3	52.6	51.0	50.6	50.2	52.4	54.4	55.3	55.7
63°	53.5	52.4	51.5	51.0	49.3	49.0	48.6	50.8	52.7	53.5	53.9
63.5°	51.7	50.7	49.8	49.2	47.7	47.3	47.0	49.1	51.0	51.9	52.2
64°	50.0	49.0	48.2	47.6	46.0	45.7	45.3	47.4	49.4	50.2	50.5
64.5°	48.3	47.4	46.6	46.0	44.5	44.1	43.8	45.8	47.8	48.5	48.9
65°	46.7	45.8	45.0	44.4	42.9	42.6	42.3	44.3	46.2	46.9	47.3
65.5°	45.2	44.2	43.4	42.9	41.4	41.1	40.8	42.8	44.6	45.3	45.7
66°	43.6	42.6	41.9	41.4	40.0	39.7	39.4	41.3	43.1	43.8	44.2





TEST NUMBER: P710059

CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	39.2	38.3	37.6	37.1	35.8	35.6	35.4	37.1	38.7	39.4	39.8
68°	37.9	36.9	36.2	35.8	34.6	34.3	34.1	35.8	37.4	38.0	38.4
68.5°	36.6	35.6	34.9	34.4	33.3	33.1	32.9	34.5	36.0	36.7	37.1
69°	35.3	34.3	33.6	33.2	32.1	31.9	31.8	33.3	34.8	35.4	35.8
69.5°	34.0	33.1	32.4	31.9	30.9	30.8	30.6	32.1	33.5	34.1	34.5
70°	32.7	31.9	31.2	30.7	29.8	29.7	29.4	30.9	32.3	32.9	33.3
70.5°	31.4	30.7	30.0	29.5	28.6	28.6	28.2	29.7	31.1	31.7	32.0
71°	30.0	29.5	28.8	28.4	27.5	27.5	26.9	28.6	29.8	30.5	30.7
71.5°	28.7	28.3	27.7	27.2	26.4	26.4	25.6	27.4	28.7	29.3	29.5
72°	27.4	27.2	26.6	26.1	25.4	25.3	24.4	26.3	27.6	28.1	28.3
72.5°	26.1	26.1	25.5	25.1	24.4	24.1	23.1	25.2	26.5	27.0	27.2
73°	24.8	25.0	24.4	24.0	23.4	23.0	21.9	24.0	25.5	25.9	26.1
73.5°	23.6	23.9	23.4	23.0	22.4	21.9	20.7	22.9	24.4	24.8	25.0
74°	22.4	22.8	22.4	21.9	21.4	20.8	19.5	21.7	23.4	23.8	24.0
74.5°	21.2	21.7	21.5	20.9	20.4	19.7	18.2	20.6	22.4	22.8	23.0
75°	20.1	20.6	20.5	19.9	19.4	18.6	17.0	19.5	21.5	21.9	22.0
75.5°	19.0	19.6	19.6	19.0	18.5	17.5	15.7	18.4	20.5	20.9	21.1
76°	17.8	18.5	18.7	18.0	17.6	16.4	14.6	17.4	19.6	20.0	20.2
76.5°	16.7	17.5	17.8	17.1	16.6	15.3	13.4	16.4	18.7	19.1	19.2
77°	15.7	16.5	16.9	16.1	15.7	14.3	12.5	15.3	17.8	18.2	18.4
77.5°	14.7	15.5	16.1	15.2	14.8	13.3	11.6	14.3	16.9	17.3	17.5
78°	13.7	14.6	15.3	14.3	13.9	12.3	10.6	13.4	16.0	16.5	16.6
78.5°	12.8	13.6	14.5	13.4	13.0	11.4	9.6	12.4	15.2	15.7	15.8
79°	11.9	12.7	13.6	12.5	12.1	10.4	8.6	11.5	14.4	14.8	15.0
79.5°	10.9	11.9	12.9	11.8	11.3	9.5	7.6	10.6	13.6	14.0	14.2
80°	9.9	11.0	12.2	11.1	10.6	8.7	6.6	9.7	12.9	13.3	13.5
80.5°	8.9	10.1	11.5	10.3	9.9	7.8	5.6	8.8	12.1	12.6	12.8
81°	7.9	9.3	10.8	9.6	9.2	7.0	4.6	7.9	11.4	11.9	12.1
81.5°	7.0	8.4	10.0	8.8	8.4	6.2	3.6	7.1	10.6	11.1	11.4
82°	6.0	7.6	9.3	8.1	7.7	5.4	2.7	6.2	9.9	10.4	10.6
82.5°	5.0	6.7	8.5	7.3	6.9	4.6	1.8	5.4	9.1	9.6	9.9
83°	4.0	5.9	7.8	6.6	6.2	3.9	1.0	4.6	8.3	8.8	9.1
83.5°	3.1	5.2	7.0	5.8	5.4	3.4	0.5	3.8	7.6	8.1	8.3
84°	2.2	4.4	6.2	5.1	4.7	2.9	0.3	3.2	6.8	7.3	7.6
84.5°	1.4	3.7	5.5	4.3	4.0	2.4	0.2	2.7	6.0	6.6	6.8
85°	0.8	3.2	4.8	3.6	3.3	2.0	0.1	2.3	5.3	5.8	6.1
85.5°	0.4	2.7	4.1	2.9	2.6	1.6	0.1	1.9	4.6	5.1	5.3
86°	0.3	2.2	3.3	2.2	1.9	1.2	0.0	1.5	3.8	4.3	4.6
86.5°	0.3	1.8	2.6	1.5	1.3	0.9	0.0	1.2	3.1	3.6	3.9
87°	0.2	1.4	1.9	0.9	0.7	0.5	0.0	0.8	2.4	2.9	3.1
87.5°	0.2	1.1	1.3	0.4	0.2	0.2	0.0	0.5	1.8	2.2	2.4
88°	0.1	0.7	0.7	0.1	0.1	0.1	0.0	0.2	1.1	1.6	1.8
88.5°	0.1	0.4	0.2	0.1	0.1	0.1	0.0	0.1	0.6	1.0	1.2



TEST NUMBER: P710059  
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P710059

CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	296.1	296.1
0.5°	296.1	296.1
1°	296.1	296.0
1.5°	296.0	296.0
2°	295.8	295.9
2.5°	295.7	295.7
3°	295.4	295.6
3.5°	295.1	295.3
4°	294.8	295.0
4.5°	294.4	294.6
5°	294.1	294.3
5.5°	293.5	293.9
6°	293.1	293.4
6.5°	292.6	292.9
7°	292.0	292.4
7.5°	291.3	291.7
8°	290.7	291.2
8.5°	290.0	290.5
9°	289.3	289.9
9.5°	288.5	289.0
10°	287.7	288.3
10.5°	286.8	287.5
11°	286.0	286.7
11.5°	285.0	285.8
12°	284.1	284.9
12.5°	283.0	284.0
13°	282.0	283.0
13.5°	280.9	281.9
14°	279.8	280.8
14.5°	278.6	279.7
15°	277.4	278.5
15.5°	276.1	277.2
16°	274.9	276.0
16.5°	273.5	274.7
17°	272.3	273.4
17.5°	270.9	272.1
18°	269.4	270.7
18.5°	267.8	269.2
19°	266.4	267.8
19.5°	264.8	266.3
20°	263.2	264.7
20.5°	261.5	263.1
21°	259.9	261.4



TEST NUMBER: P710059  
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
22.5°	254.5	256.1
23°	252.5	254.2
23.5°	250.6	252.3
24°	248.5	250.4
24.5°	246.5	248.4
25°	244.5	246.4
25.5°	242.4	244.3
26°	240.1	242.2
26.5°	237.9	239.9
27°	235.6	237.7
27.5°	233.4	235.5
28°	231.0	233.2
28.5°	228.6	230.8
29°	226.2	228.5
29.5°	223.8	226.2
30°	221.2	223.7
30.5°	218.7	221.2
31°	216.2	218.6
31.5°	213.6	216.1
32°	211.0	213.4
32.5°	208.4	210.9
33°	205.7	208.2
33.5°	203.0	205.7
34°	200.2	202.9
34.5°	197.5	200.2
35°	194.8	197.4
35.5°	192.0	194.6
36°	189.0	191.9
36.5°	186.3	189.0
37°	183.4	186.2
37.5°	180.5	183.4
38°	177.6	180.5
38.5°	174.7	177.7
39°	171.7	174.8
39.5°	168.8	171.9
40°	165.9	168.9
40.5°	163.0	166.0
41°	160.1	163.0
41.5°	157.1	160.1
42°	154.0	157.1
42.5°	151.1	154.2
43°	148.2	151.2
43.5°	145.3	148.3



TEST NUMBER: P710059

CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	136.5	139.4
45.5°	133.6	136.5
46°	130.7	133.7
46.5°	128.0	130.8
47°	125.2	127.9
47.5°	122.4	125.1
48°	119.7	122.3
48.5°	116.9	119.6
49°	114.2	116.8
49.5°	111.6	114.0
50°	108.9	111.4
50.5°	106.3	108.7
51°	103.7	106.1
51.5°	101.2	103.5
52°	98.6	101.0
52.5°	96.2	98.5
53°	93.9	95.9
53.5°	91.7	93.5
54°	89.4	91.0
54.5°	87.2	88.6
55°	85.0	86.3
55.5°	82.7	83.9
56°	80.4	81.7
56.5°	78.3	79.5
57°	76.1	77.2
57.5°	74.0	75.0
58°	71.9	72.8
58.5°	69.9	70.7
59°	67.8	68.7
59.5°	65.9	66.6
60°	63.9	64.7
60.5°	62.0	62.7
61°	60.1	60.8
61.5°	58.3	58.9
62°	56.4	57.1
62.5°	54.7	55.2
63°	53.0	53.5
63.5°	51.3	51.7
64°	49.7	50.0
64.5°	48.1	48.3
65°	46.5	46.7
65.5°	44.9	45.2
66°	43.5	43.6



TEST NUMBER: P710059

CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
67.5°	39.1	39.2
68°	37.8	37.9
68.5°	36.5	36.6
69°	35.2	35.3
69.5°	33.9	34.0
70°	32.7	32.7
70.5°	31.5	31.4
71°	30.2	30.0
71.5°	29.0	28.7
72°	27.8	27.4
72.5°	26.6	26.1
73°	25.4	24.8
73.5°	24.2	23.6
74°	23.0	22.4
74.5°	22.0	21.2
75°	20.9	20.1
75.5°	19.8	19.0
76°	18.8	17.8
76.5°	17.8	16.7
77°	16.9	15.7
77.5°	15.9	14.7
78°	15.0	13.7
78.5°	14.1	12.8
79°	13.2	11.9
79.5°	12.4	10.9
80°	11.5	9.9
80.5°	10.6	8.9
81°	9.8	7.9
81.5°	8.9	7.0
82°	8.1	6.0
82.5°	7.2	5.0
83°	6.4	4.0
83.5°	5.6	3.1
84°	4.8	2.2
84.5°	4.2	1.4
85°	3.5	0.8
85.5°	3.0	0.4
86°	2.6	0.3
86.5°	2.2	0.3
87°	1.8	0.2
87.5°	1.4	0.2
88°	1.0	0.1
88.5°	0.7	0.1



TEST NUMBER: P710059  
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	0.1	0.1

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°	259.7	259.0	258.7	259.1	257.9	258.4	257.6	258.8	258.8	258.0	258.3
22°	257.9	257.2	256.9	257.2	256.0	256.5	255.8	257.0	256.9	256.1	256.5



44°	145.3	143.0	141.8	140.7	137.8	139.4	137.6	140.5	141.6	141.7	143.1
44.5°	142.4	140.1	138.9	137.8	135.1	136.4	134.7	137.6	138.8	138.9	140.2



66.5°	42.1	41.2	40.4	39.9	38.6	38.3	38.0	39.9	41.6	42.3	42.7
67°	40.7	39.7	39.0	38.5	37.2	36.9	36.7	38.5	40.2	40.9	41.2



89°	0.1	0.2	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	0.1	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°	258.0	259.7
22°	256.3	257.9



44°	142.3	145.3
44.5°	139.4	142.4



66.5°	42.0	42.1
67°	40.5	40.7



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)