

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: P710061

Luminaire Tested: RA3059FSD2W1EWH-500lm-5000K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710061
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-5000K
Description: 3IN RETROFIT 500 LUMENS
Light Source: SELECTABLE CCT LEDs 90CRI / 5000K CCT
Ballast/Driver: -

Summary

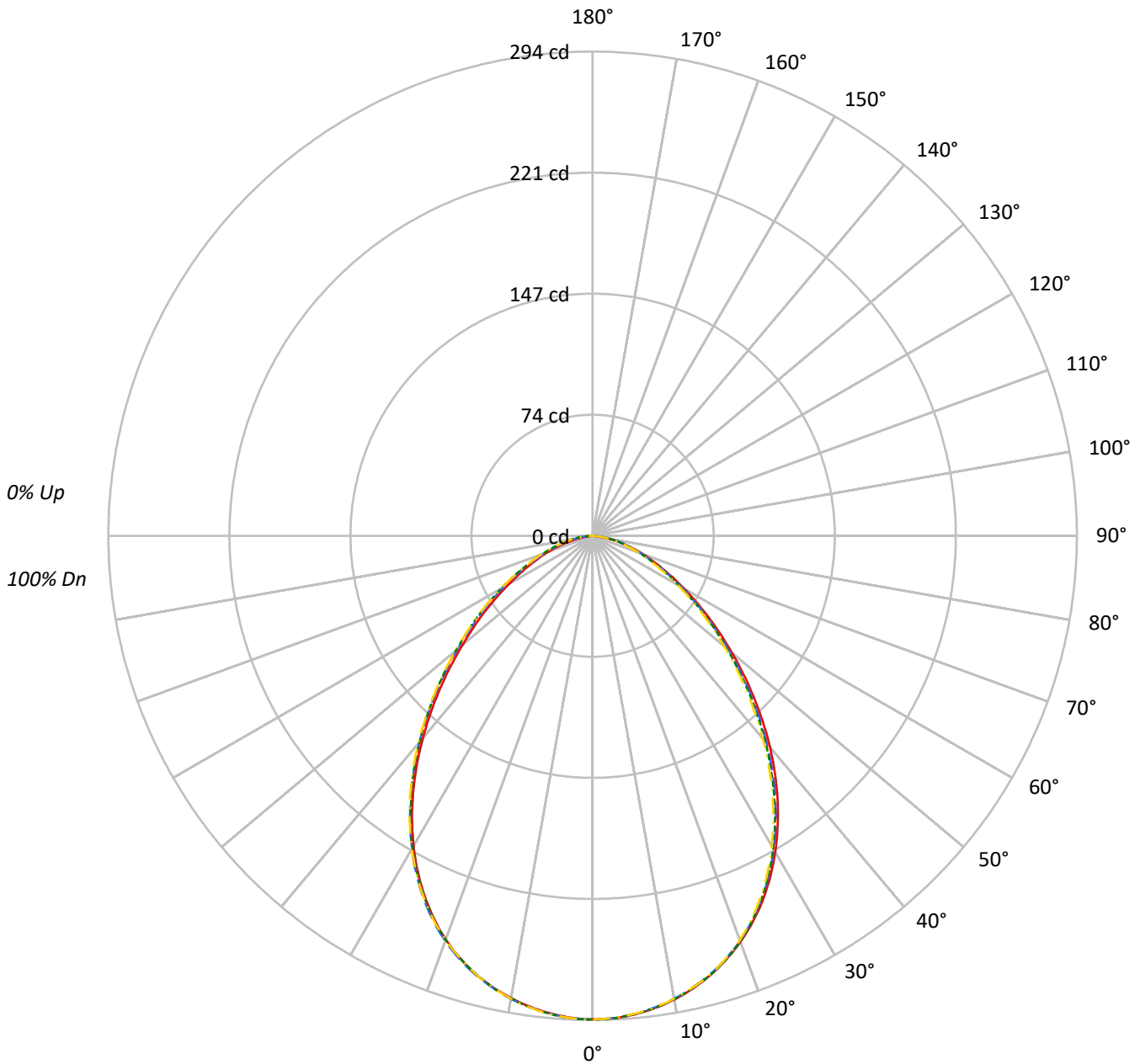
Lumens per Lamp: 579.66 (1 lamp)
Luminaire Lumens: 585.0 lumens
Efficiency: 100.9%
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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: P710061
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-5000K

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	0					
RCR																										
0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101				101				
1	112	107	104	100	109	105	102	99	101	98	96	97	95	93	94	92	90	88				88				
2	103	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76				76				
3	95	86	78	72	93	84	77	72	81	75	71	78	74	69	76	72	68	66				66				
4	88	77	69	63	86	76	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	55	79	68	61	55	66	60	54	65	59	54	63	58	53	51				51				
6	76	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41				41				
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37				37				
9	62	49	41	36	60	49	41	36	48	41	36	46	40	36	45	40	36	34				34				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	64381	64381	64381	64381
5°	64231	64209	64098	64186
10°	63659	63615	63481	63526
15°	62702	62702	62475	62452
20°	61232	61139	60882	60882
25°	59108	58794	58382	58528
30°	56161	55528	55021	55325
35°	52387	51450	50835	51343
40°	47947	46659	45857	46745
45°	42857	41493	40531	41865
50°	37662	36331	35172	36911
55°	32687	31425	30317	32419
60°	28112	26884	25744	28068
65°	24075	22830	21740	24127
70°	20773	19555	18721	20901
75°	16860	16775	14234	18385
80°	12375	13891	8208	16669
85°	2013	9057	252	14593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 42857 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	27.6	4.7	4.8
10°-20°	77.6	13.3	13.4
20°-30°	111.3	19.0	19.2
30°-40°	119.9	20.5	20.7
40°-50°	103.6	17.7	17.9
50°-60°	74.4	12.7	12.8
60°-70°	44.8	7.7	7.7
70°-80°	21.4	3.7	3.7
80°-90°	4.4	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°	216.5	37.0	37.3
0°-40°	336.4	57.5	58.0
0°-60°	514.4	87.9	88.7
0°-90°	585.0	100.0	100.9
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°	585.0	100.0	100.9

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	294	294	294	294	294	
5°	292	292	291	292	292	28
15°	276	276	275	275	276	78
25°	244	243	241	242	244	112
35°	196	192	190	192	196	122
45°	138	134	131	135	138	107
55°	86	82	79	85	86	77
65°	46	44	42	46	46	46
75°	20	20	17	22	20	21
85°	1	4	0	6	1	3
90°	0	0	0	0	0	



TEST NUMBER: P710061

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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6
0.5°	293.6	293.6	293.6	293.8	293.6	293.7	293.6	293.6	293.6	293.8	293.7
1°	293.5	293.6	293.5	293.7	293.6	293.6	293.5	293.5	293.5	293.7	293.6
1.5°	293.5	293.5	293.5	293.6	293.5	293.5	293.4	293.4	293.5	293.6	293.6
2°	293.4	293.4	293.3	293.4	293.2	293.3	293.2	293.3	293.3	293.4	293.4
2.5°	293.2	293.2	293.1	293.2	293.0	293.1	292.9	293.1	293.1	293.2	293.3
3°	293.1	292.9	292.9	293.0	292.8	292.9	292.7	292.8	292.9	293.0	293.0
3.5°	292.8	292.6	292.6	292.7	292.4	292.5	292.3	292.5	292.7	292.8	292.7
4°	292.5	292.3	292.1	292.3	292.1	292.2	292.0	292.2	292.2	292.4	292.5
4.5°	292.1	291.9	291.8	292.0	291.8	291.8	291.6	291.9	291.9	292.0	292.1
5°	291.8	291.6	291.4	291.7	291.4	291.4	291.2	291.4	291.4	291.6	291.7
5.5°	291.4	291.1	290.9	291.2	291.0	291.0	290.7	291.0	291.1	291.1	291.3
6°	290.9	290.6	290.4	290.8	290.5	290.6	290.3	290.5	290.5	290.7	290.9
6.5°	290.4	290.1	290.0	290.2	290.0	290.0	289.7	290.0	290.1	290.1	290.3
7°	289.9	289.5	289.3	289.8	289.4	289.6	289.2	289.5	289.5	289.5	289.7
7.5°	289.3	289.0	288.9	289.1	288.8	288.9	288.5	288.9	289.0	289.0	289.1
8°	288.7	288.4	288.2	288.5	288.2	288.4	288.0	288.3	288.3	288.3	288.5
8.5°	288.1	287.7	287.5	287.9	287.5	287.7	287.3	287.6	287.6	287.6	287.8
9°	287.4	287.0	286.8	287.3	286.9	287.1	286.6	287.0	287.0	286.8	287.1
9.5°	286.6	286.3	286.1	286.4	286.2	286.3	285.8	286.2	286.3	286.1	286.4
10°	285.9	285.5	285.4	285.7	285.4	285.5	285.1	285.5	285.6	285.3	285.5
10.5°	285.1	284.7	284.5	284.9	284.5	284.8	284.2	284.7	284.8	284.5	284.7
11°	284.3	283.8	283.8	284.1	283.6	283.9	283.4	283.9	283.9	283.6	283.8
11.5°	283.4	283.0	282.8	283.2	282.7	283.0	282.5	283.0	283.0	282.7	282.9
12°	282.5	282.0	281.9	282.3	281.9	282.2	281.6	281.9	282.1	281.8	282.0
12.5°	281.6	281.1	280.9	281.4	280.9	281.1	280.6	281.0	281.1	280.8	280.9
13°	280.6	280.0	279.9	280.4	279.9	280.2	279.6	280.0	280.1	279.7	279.9
13.5°	279.5	279.0	278.8	279.3	278.8	279.2	278.6	278.9	279.0	278.6	278.7
14°	278.5	277.9	277.8	278.3	277.8	278.2	277.5	277.9	277.9	277.4	277.7
14.5°	277.3	276.8	276.7	277.2	276.7	277.1	276.4	276.8	276.8	276.4	276.5
15°	276.2	275.6	275.6	276.2	275.5	276.0	275.2	275.7	275.7	275.1	275.2
15.5°	274.9	274.5	274.4	274.9	274.3	274.8	274.0	274.5	274.5	273.9	273.9
16°	273.7	273.2	273.2	273.8	273.1	273.5	272.8	273.3	273.3	272.6	272.7
16.5°	272.4	272.0	271.9	272.4	271.8	272.2	271.4	272.1	271.9	271.3	271.3
17°	271.1	270.7	270.6	271.2	270.4	270.9	270.1	270.7	270.6	270.0	270.1
17.5°	269.8	269.4	269.2	269.8	269.0	269.4	268.6	269.3	269.3	268.6	268.8
18°	268.4	268.0	267.7	268.3	267.5	268.0	267.1	268.0	267.8	267.1	267.2
18.5°	267.0	266.5	266.3	266.8	266.0	266.5	265.6	266.5	266.3	265.6	265.6
19°	265.5	265.0	264.7	265.3	264.4	264.8	264.1	265.0	264.8	264.2	264.2
19.5°	264.0	263.4	263.2	263.7	262.7	263.2	262.4	263.4	263.4	262.6	262.7
20°	262.4	261.8	261.6	262.0	261.1	261.5	260.9	261.7	261.8	260.9	261.2
20.5°	260.8	260.3	259.9	260.4	259.3	259.9	259.1	260.1	260.1	259.3	259.5
21°	259.2	258.5	258.2	258.6	257.5	258.0	257.4	258.4	258.3	257.5	257.9



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	253.9	253.2	252.8	253.1	251.8	252.3	251.7	252.9	252.9	252.0	252.4
23°	252.0	251.2	250.9	251.1	249.9	250.4	249.7	251.0	251.0	250.0	250.6
23.5°	250.2	249.3	248.9	249.1	247.8	248.4	247.7	249.0	249.0	248.1	248.6
24°	248.3	247.3	246.9	247.1	245.7	246.3	245.6	247.0	247.0	246.0	246.6
24.5°	246.3	245.3	244.9	245.1	243.5	244.2	243.5	245.0	245.0	244.1	244.6
25°	244.3	243.3	242.8	243.0	241.4	242.0	241.3	242.8	242.9	241.9	242.5
25.5°	242.2	241.2	240.6	240.8	239.2	239.8	239.2	240.7	240.7	239.7	240.3
26°	240.1	239.0	238.4	238.5	236.9	237.5	236.9	238.5	238.4	237.5	238.2
26.5°	237.9	236.9	236.2	236.4	234.6	235.2	234.6	236.2	236.2	235.3	236.0
27°	235.7	234.6	234.0	233.9	232.3	232.8	232.3	234.0	233.9	233.0	233.8
27.5°	233.5	232.4	231.7	231.6	229.9	230.5	229.8	231.6	231.6	230.7	231.5
28°	231.2	230.1	229.4	229.3	227.4	228.0	227.5	229.3	229.2	228.3	229.2
28.5°	228.9	227.7	226.9	226.9	225.0	225.6	225.0	226.9	226.9	226.0	226.8
29°	226.6	225.3	224.5	224.4	222.4	223.1	222.4	224.3	224.4	223.5	224.3
29.5°	224.2	222.9	222.0	221.8	219.8	220.5	219.9	221.9	221.9	221.0	222.0
30°	221.8	220.4	219.5	219.3	217.3	218.0	217.3	219.4	219.4	218.5	219.5
30.5°	219.3	217.9	217.0	216.6	214.6	215.3	214.7	216.8	216.9	216.0	217.0
31°	216.7	215.4	214.5	214.0	211.9	212.7	212.1	214.2	214.3	213.4	214.4
31.5°	214.3	212.8	211.8	211.5	209.4	210.1	209.5	211.6	211.7	210.8	211.8
32°	211.6	210.2	209.2	208.7	206.6	207.4	206.7	208.9	209.1	208.2	209.2
32.5°	209.1	207.6	206.5	206.0	203.8	204.6	204.1	206.1	206.4	205.5	206.6
33°	206.4	204.9	203.8	203.3	201.0	201.9	201.2	203.4	203.7	202.9	203.9
33.5°	203.9	202.2	201.0	200.6	198.3	199.1	198.4	200.7	201.0	200.1	201.3
34°	201.2	199.5	198.3	197.8	195.4	196.3	195.5	197.9	198.2	197.4	198.4
34.5°	198.5	196.7	195.5	194.9	192.6	193.5	192.7	195.1	195.4	194.6	195.8
35°	195.7	194.1	192.7	192.2	189.8	190.7	189.9	192.3	192.6	191.8	193.0
35.5°	193.0	191.2	189.9	189.3	186.8	187.9	187.0	189.4	189.8	189.0	190.3
36°	190.3	188.4	187.1	186.4	183.9	185.0	184.0	186.6	187.0	186.2	187.5
36.5°	187.4	185.5	184.5	183.5	181.0	182.1	181.1	183.6	184.1	183.4	184.8
37°	184.7	182.7	181.5	180.5	178.1	179.1	178.2	180.6	181.3	180.5	182.0
37.5°	181.8	179.8	178.6	177.6	175.1	176.2	175.2	177.6	178.3	177.7	179.1
38°	179.0	176.9	175.7	174.7	172.1	173.3	172.2	174.6	175.4	174.9	176.2
38.5°	176.1	174.1	172.7	171.7	169.2	170.4	169.3	171.6	172.5	172.0	173.4
39°	173.3	171.0	169.8	168.9	166.2	167.4	166.2	169.0	169.6	169.1	170.5
39.5°	170.5	168.2	166.9	165.9	163.2	164.5	163.2	166.0	166.6	166.2	167.8
40°	167.5	165.2	164.0	163.0	160.1	161.6	160.2	163.0	163.7	163.3	164.8
40.5°	164.6	162.3	161.0	160.1	157.3	158.6	157.3	160.1	160.8	160.5	162.0
41°	161.6	159.3	158.1	157.1	154.3	155.7	154.3	157.1	157.8	157.6	159.1
41.5°	158.8	156.4	155.1	154.1	151.2	152.7	151.3	154.0	154.9	154.8	156.2
42°	155.7	153.5	152.2	151.2	148.4	149.8	148.3	151.1	152.0	151.8	153.3
42.5°	152.9	150.5	149.3	148.2	145.4	146.8	145.3	148.1	149.1	149.0	150.4
43°	149.9	147.6	146.4	145.3	142.5	143.9	142.4	145.2	146.2	146.2	147.6
43.5°	147.0	144.8	143.5	142.4	139.6	141.0	139.5	142.2	143.3	143.4	144.8



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	138.2	136.0	134.9	133.8	131.0	132.4	130.7	133.5	134.8	135.0	136.2
45.5°	135.3	133.2	132.0	130.9	128.2	129.5	127.9	130.7	131.9	132.1	133.5
46°	132.5	130.4	129.2	128.1	125.4	126.7	125.0	127.8	129.1	129.4	130.8
46.5°	129.7	127.6	126.5	125.2	122.7	123.9	122.2	125.0	126.3	126.7	128.0
47°	126.9	124.7	123.6	122.6	119.8	121.2	119.3	122.3	123.6	124.0	125.3
47.5°	124.0	122.0	120.9	119.8	117.1	118.3	116.6	119.5	120.8	121.4	122.6
48°	121.3	119.2	118.2	117.1	114.4	115.6	113.7	116.7	118.1	118.6	119.9
48.5°	118.6	116.5	115.5	114.3	111.7	112.8	111.1	114.0	115.4	116.0	117.3
49°	115.8	113.8	112.8	111.7	109.0	110.2	108.4	111.4	112.8	113.3	114.6
49.5°	113.1	111.1	110.2	109.0	106.4	107.5	105.7	108.7	110.2	110.8	112.0
50°	110.4	108.4	107.5	106.5	103.8	104.8	103.1	106.0	107.6	108.2	109.5
50.5°	107.8	105.8	104.9	103.8	101.2	102.2	100.4	103.5	105.0	105.6	106.9
51°	105.2	103.2	102.4	101.3	98.7	99.6	97.9	101.0	102.5	103.1	104.4
51.5°	102.6	100.7	99.9	98.8	96.2	97.1	95.4	98.4	100.0	100.7	101.9
52°	100.1	98.1	97.4	96.3	93.7	94.6	93.1	95.9	97.5	98.2	99.4
52.5°	97.6	95.6	94.9	93.9	91.5	92.1	90.8	93.4	95.0	95.8	97.0
53°	95.1	93.1	92.5	91.4	89.3	89.6	88.5	91.0	92.8	93.3	94.6
53.5°	92.7	90.9	90.1	89.1	87.1	87.3	86.2	88.6	90.6	91.2	92.3
54°	90.2	88.7	87.7	86.7	84.8	84.9	83.9	86.3	88.4	89.1	89.9
54.5°	87.9	86.5	85.3	84.4	82.5	82.6	81.6	84.0	86.2	87.0	87.6
55°	85.5	84.3	83.1	82.2	80.3	80.3	79.3	81.7	84.0	84.8	85.3
55.5°	83.2	82.0	80.8	79.8	78.0	78.0	77.1	79.4	81.7	82.6	83.1
56°	81.0	79.8	78.6	77.7	75.9	75.7	74.9	77.2	79.5	80.4	80.9
56.5°	78.8	77.6	76.4	75.5	73.7	73.6	72.7	75.1	77.4	78.3	78.7
57°	76.5	75.4	74.2	73.3	71.6	71.4	70.6	73.0	75.2	76.1	76.6
57.5°	74.4	73.3	72.1	71.2	69.5	69.3	68.5	70.9	73.1	74.0	74.5
58°	72.2	71.2	70.0	69.2	67.5	67.2	66.5	68.8	71.1	71.9	72.4
58.5°	70.1	69.0	68.0	67.1	65.4	65.2	64.5	66.8	69.0	69.9	70.4
59°	68.1	67.0	65.9	65.1	63.4	63.2	62.5	64.8	67.1	67.9	68.3
59.5°	66.1	65.0	64.0	63.2	61.5	61.2	60.6	62.9	65.0	66.0	66.4
60°	64.1	63.0	62.0	61.3	59.6	59.3	58.7	61.0	63.1	64.0	64.5
60.5°	62.2	61.1	60.1	59.4	57.7	57.4	56.8	59.1	61.2	62.1	62.6
61°	60.2	59.2	58.3	57.5	55.9	55.6	55.0	57.3	59.4	60.2	60.7
61.5°	58.4	57.3	56.4	55.7	54.1	53.7	53.2	55.5	57.5	58.4	58.8
62°	56.6	55.5	54.6	53.9	52.3	51.9	51.5	53.7	55.7	56.6	57.0
62.5°	54.8	53.7	52.9	52.2	50.6	50.2	49.8	52.0	54.0	54.8	55.2
63°	53.0	52.0	51.1	50.5	48.9	48.6	48.2	50.3	52.3	53.1	53.5
63.5°	51.3	50.3	49.4	48.8	47.3	46.9	46.6	48.7	50.6	51.4	51.8
64°	49.6	48.6	47.8	47.2	45.6	45.3	45.0	47.0	48.9	49.7	50.1
64.5°	47.9	47.0	46.2	45.6	44.1	43.7	43.4	45.4	47.4	48.1	48.5
65°	46.4	45.4	44.6	44.0	42.6	42.2	41.9	43.9	45.8	46.5	46.9
65.5°	44.8	43.8	43.0	42.5	41.1	40.7	40.5	42.4	44.2	45.0	45.3
66°	43.3	42.3	41.5	41.0	39.6	39.3	39.1	41.0	42.7	43.5	43.8



TEST NUMBER: P710061

CATALOG NUMBER: RA3059FSD2W1EWH-500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	38.9	38.0	37.3	36.8	35.5	35.3	35.1	36.8	38.4	39.1	39.5
68°	37.6	36.6	35.9	35.5	34.3	34.1	33.9	35.5	37.1	37.7	38.1
68.5°	36.2	35.3	34.6	34.1	33.0	32.8	32.7	34.2	35.7	36.4	36.8
69°	35.0	34.0	33.3	32.9	31.8	31.7	31.5	33.0	34.5	35.1	35.5
69.5°	33.7	32.8	32.1	31.7	30.6	30.5	30.4	31.8	33.2	33.8	34.2
70°	32.4	31.6	30.9	30.5	29.5	29.4	29.2	30.6	32.0	32.6	33.0
70.5°	31.1	30.4	29.7	29.3	28.4	28.3	27.9	29.4	30.8	31.4	31.7
71°	29.8	29.2	28.6	28.1	27.3	27.3	26.7	28.3	29.6	30.2	30.5
71.5°	28.4	28.1	27.5	27.0	26.2	26.2	25.4	27.2	28.5	29.0	29.3
72°	27.1	27.0	26.4	25.9	25.2	25.1	24.2	26.1	27.4	27.9	28.1
72.5°	25.8	25.9	25.3	24.8	24.2	23.9	22.9	24.9	26.3	26.8	27.0
73°	24.6	24.8	24.2	23.8	23.2	22.8	21.7	23.8	25.3	25.7	25.9
73.5°	23.4	23.7	23.2	22.8	22.2	21.7	20.5	22.7	24.2	24.6	24.8
74°	22.2	22.6	22.3	21.7	21.2	20.6	19.3	21.5	23.2	23.6	23.8
74.5°	21.1	21.5	21.3	20.7	20.2	19.5	18.1	20.4	22.3	22.6	22.8
75°	19.9	20.4	20.3	19.8	19.3	18.4	16.8	19.3	21.3	21.7	21.9
75.5°	18.8	19.4	19.4	18.8	18.3	17.3	15.6	18.3	20.4	20.8	20.9
76°	17.7	18.4	18.5	17.8	17.4	16.2	14.4	17.2	19.5	19.9	20.0
76.5°	16.6	17.4	17.7	16.9	16.5	15.2	13.3	16.2	18.6	19.0	19.1
77°	15.6	16.4	16.8	16.0	15.6	14.2	12.4	15.2	17.7	18.1	18.2
77.5°	14.5	15.4	15.9	15.1	14.7	13.2	11.5	14.2	16.8	17.2	17.3
78°	13.6	14.5	15.1	14.1	13.7	12.2	10.5	13.3	15.9	16.3	16.5
78.5°	12.7	13.5	14.3	13.3	12.8	11.3	9.5	12.3	15.1	15.5	15.7
79°	11.8	12.6	13.5	12.4	12.0	10.3	8.5	11.4	14.2	14.7	14.9
79.5°	10.8	11.8	12.8	11.7	11.2	9.4	7.5	10.5	13.5	13.9	14.1
80°	9.8	10.9	12.1	11.0	10.5	8.6	6.5	9.6	12.8	13.2	13.3
80.5°	8.9	10.1	11.4	10.2	9.8	7.8	5.6	8.7	12.0	12.5	12.6
81°	7.9	9.2	10.7	9.5	9.1	6.9	4.6	7.9	11.3	11.8	11.9
81.5°	6.9	8.4	9.9	8.8	8.4	6.1	3.6	7.0	10.5	11.0	11.3
82°	5.9	7.5	9.2	8.0	7.6	5.3	2.7	6.1	9.8	10.3	10.5
82.5°	4.9	6.7	8.4	7.3	6.9	4.6	1.8	5.3	9.0	9.5	9.8
83°	4.0	5.9	7.7	6.5	6.1	3.9	1.0	4.5	8.2	8.8	9.0
83.5°	3.1	5.1	6.9	5.8	5.4	3.3	0.5	3.8	7.5	8.0	8.3
84°	2.2	4.4	6.2	5.0	4.7	2.8	0.3	3.2	6.7	7.2	7.5
84.5°	1.4	3.7	5.5	4.3	3.9	2.4	0.2	2.7	6.0	6.5	6.8
85°	0.8	3.1	4.7	3.6	3.2	2.0	0.1	2.3	5.2	5.8	6.0
85.5°	0.4	2.6	4.0	2.9	2.5	1.6	0.1	1.9	4.5	5.0	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	0.8	0.0	1.2	3.1	3.6	3.8
87°	0.2	1.4	1.9	0.9	0.6	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	1.7	2.2	2.4
88°	0.1	0.7	0.7	0.1	0.1	0.1	0.0	0.2	1.1	1.5	1.8
88.5°	0.1	0.4	0.2	0.1	0.1	0.1	0.0	0.1	0.6	1.0	1.1



TEST NUMBER: P710061
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-5000K

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: P710061

CATALOG NUMBER: RA3059FSD2W1EWH-500lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	293.6	293.6
0.5°	293.6	293.6
1°	293.6	293.5
1.5°	293.5	293.5
2°	293.3	293.4
2.5°	293.2	293.2
3°	292.9	293.1
3.5°	292.6	292.8
4°	292.3	292.5
4.5°	291.9	292.1
5°	291.6	291.8
5.5°	291.0	291.4
6°	290.6	290.9
6.5°	290.1	290.4
7°	289.5	289.9
7.5°	288.8	289.3
8°	288.3	288.7
8.5°	287.5	288.1
9°	286.9	287.4
9.5°	286.0	286.6
10°	285.3	285.9
10.5°	284.4	285.1
11°	283.5	284.3
11.5°	282.6	283.4
12°	281.7	282.5
12.5°	280.6	281.6
13°	279.6	280.6
13.5°	278.5	279.5
14°	277.4	278.5
14.5°	276.3	277.3
15°	275.1	276.2
15.5°	273.8	274.9
16°	272.5	273.7
16.5°	271.2	272.4
17°	270.0	271.1
17.5°	268.6	269.8
18°	267.1	268.4
18.5°	265.6	267.0
19°	264.1	265.5
19.5°	262.6	264.0
20°	261.0	262.4
20.5°	259.3	260.8
21°	257.7	259.2



TEST NUMBER: P710061
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	252.3	253.9
23°	250.4	252.0
23.5°	248.4	250.2
24°	246.4	248.3
24.5°	244.4	246.3
25°	242.4	244.3
25.5°	240.3	242.2
26°	238.0	240.1
26.5°	235.9	237.9
27°	233.6	235.7
27.5°	231.4	233.5
28°	229.0	231.2
28.5°	226.6	228.9
29°	224.3	226.6
29.5°	221.9	224.2
30°	219.4	221.8
30.5°	216.9	219.3
31°	214.4	216.7
31.5°	211.8	214.3
32°	209.2	211.6
32.5°	206.7	209.1
33°	203.9	206.4
33.5°	201.3	203.9
34°	198.5	201.2
34.5°	195.8	198.5
35°	193.1	195.7
35.5°	190.3	193.0
36°	187.4	190.3
36.5°	184.7	187.4
37°	181.9	184.7
37.5°	179.0	181.8
38°	176.1	179.0
38.5°	173.2	176.1
39°	170.3	173.3
39.5°	167.4	170.5
40°	164.5	167.5
40.5°	161.6	164.6
41°	158.7	161.6
41.5°	155.7	158.8
42°	152.7	155.7
42.5°	149.8	152.9
43°	146.9	149.9
43.5°	144.1	147.0



TEST NUMBER: P710061
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	135.3	138.2
45.5°	132.5	135.3
46°	129.6	132.5
46.5°	126.9	129.7
47°	124.2	126.9
47.5°	121.4	124.0
48°	118.7	121.3
48.5°	115.9	118.6
49°	113.3	115.8
49.5°	110.6	113.1
50°	108.0	110.4
50.5°	105.4	107.8
51°	102.8	105.2
51.5°	100.3	102.6
52°	97.7	100.1
52.5°	95.3	97.6
53°	93.1	95.1
53.5°	90.9	92.7
54°	88.7	90.2
54.5°	86.5	87.9
55°	84.3	85.5
55.5°	82.0	83.2
56°	79.8	81.0
56.5°	77.6	78.8
57°	75.5	76.5
57.5°	73.4	74.4
58°	71.3	72.2
58.5°	69.3	70.1
59°	67.3	68.1
59.5°	65.3	66.1
60°	63.4	64.1
60.5°	61.5	62.2
61°	59.6	60.2
61.5°	57.8	58.4
62°	56.0	56.6
62.5°	54.3	54.8
63°	52.5	53.0
63.5°	50.8	51.3
64°	49.2	49.6
64.5°	47.7	47.9
65°	46.1	46.4
65.5°	44.5	44.8
66°	43.1	43.3



TEST NUMBER: P710061
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	38.8	38.9
68°	37.5	37.6
68.5°	36.2	36.2
69°	34.9	35.0
69.5°	33.6	33.7
70°	32.4	32.4
70.5°	31.2	31.1
71°	30.0	29.8
71.5°	28.8	28.4
72°	27.5	27.1
72.5°	26.3	25.8
73°	25.1	24.6
73.5°	24.0	23.4
74°	22.8	22.2
74.5°	21.8	21.1
75°	20.7	19.9
75.5°	19.7	18.8
76°	18.7	17.7
76.5°	17.7	16.6
77°	16.7	15.6
77.5°	15.8	14.5
78°	14.9	13.6
78.5°	14.0	12.7
79°	13.1	11.8
79.5°	12.3	10.8
80°	11.4	9.8
80.5°	10.5	8.9
81°	9.7	7.9
81.5°	8.9	6.9
82°	8.0	5.9
82.5°	7.2	4.9
83°	6.4	4.0
83.5°	5.6	3.1
84°	4.8	2.2
84.5°	4.1	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

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

Scaled Data Report



TEST NUMBER: P710061
CATALOG NUMBER: RA3059FSD2W1EWH-500lm-5000K

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°	257.5	256.8	256.5	256.9	255.7	256.2	255.5	256.6	256.6	255.8	256.1
22°	255.8	255.0	254.7	255.1	253.8	254.4	253.6	254.9	254.8	253.9	254.3



44°	144.1	141.8	140.6	139.5	136.7	138.2	136.5	139.3	140.4	140.5	141.9
44.5°	141.2	138.9	137.8	136.6	133.9	135.3	133.6	136.4	137.6	137.7	139.1



66.5°	41.8	40.8	40.1	39.6	38.2	37.9	37.7	39.5	41.2	41.9	42.4
67°	40.3	39.4	38.7	38.1	36.9	36.6	36.4	38.2	39.8	40.5	40.9



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°	255.8	257.5
22°	254.1	255.8



44°	141.1	144.1
44.5°	138.2	141.2



66.5°	41.6	41.8
67°	40.2	40.3



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)