

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: P710066

Luminaire Tested: RA4LS9FSD2W1EWH-600lm-5000K

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P710066  
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-600lm-5000K  
Description: 4IN RETROFIT SELECTABLE LUMENS  
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

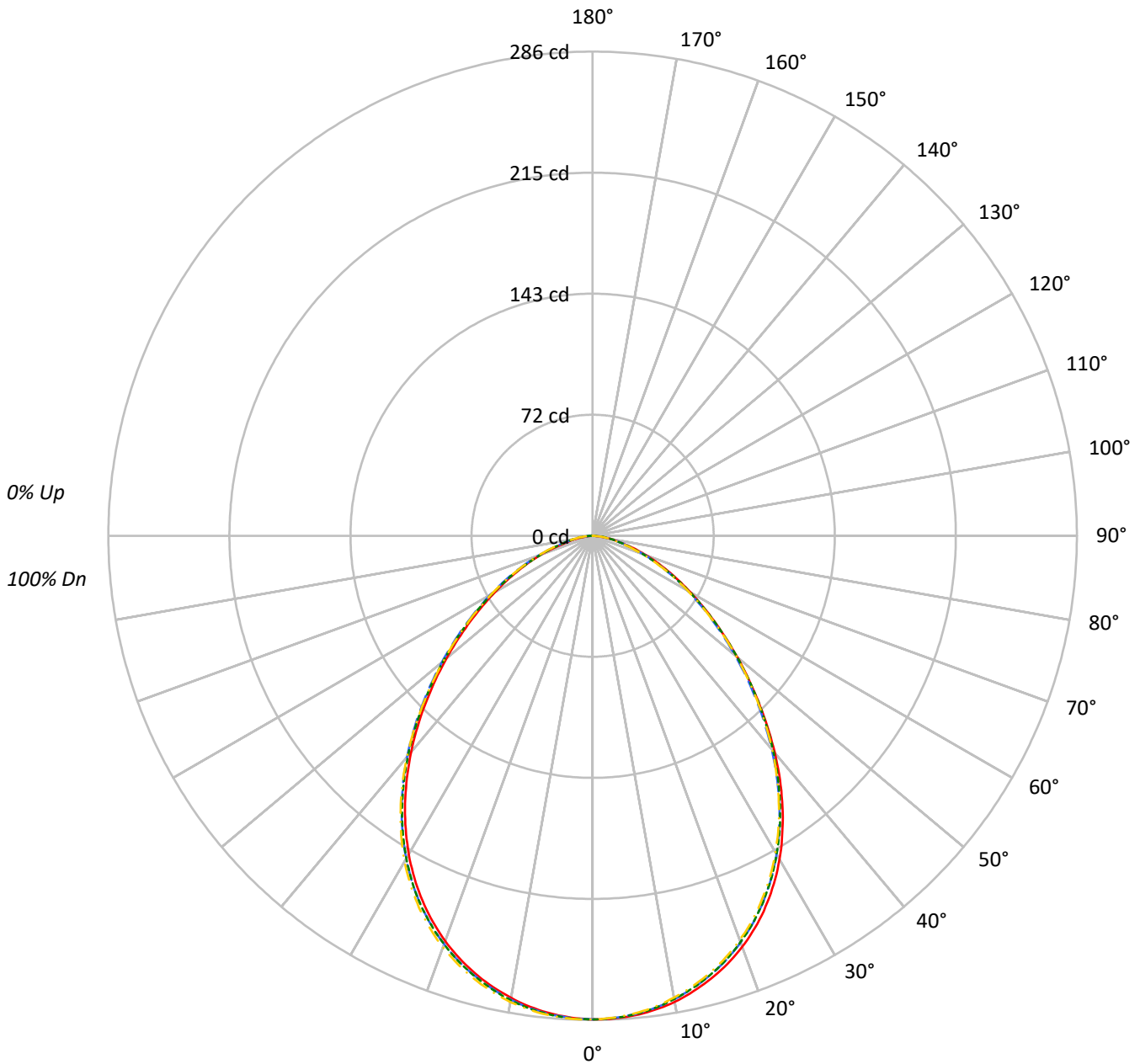
Lumens per Lamp: 920.71 (1 lamp)  
Luminaire Lumens: 595.0 lumens  
Efficiency: 64.6%  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.22  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



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CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-5000K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	77	77	77	77	75	75	75	75	72	72	72	69	69	69	66	66	66	65		
1	71	69	66	64	70	67	65	63	65	63	61	62	61	59	60	59	58	56		
2	66	61	57	54	64	60	56	53	58	55	52	56	53	51	54	52	50	49		
3	61	55	50	46	59	54	49	46	52	48	45	50	47	44	48	46	43	42		
4	56	49	44	40	55	48	43	40	47	42	39	45	42	39	44	41	38	37		
5	52	44	39	35	50	44	39	35	42	38	34	41	37	34	40	36	34	32		
6	48	40	35	31	47	40	35	31	38	34	31	37	33	30	36	33	30	29		
7	45	37	31	28	44	36	31	28	35	31	27	34	30	27	33	30	27	26		
8	42	34	29	25	41	33	28	25	32	28	25	32	28	25	31	27	25	23		
9	39	31	26	23	38	31	26	23	30	26	23	29	25	22	29	25	22	21		
10	37	29	24	21	36	28	24	21	28	24	21	27	23	21	27	23	20	19		

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

	0°	90°	180°	270°
0°	35955	35955	35955	35955
5°	35928	35840	35789	35878
10°	35718	35500	35411	35603
15°	35269	34996	34878	35087
20°	34593	34205	34111	34379
25°	33549	33104	33021	33382
30°	32072	31578	31563	31985
35°	30035	29636	29667	30143
40°	27501	27271	27386	27846
45°	24650	24579	24775	25255
50°	21811	21811	22046	22516
55°	19155	19111	19352	19901
60°	16788	16562	16738	17241
65°	14592	14085	14324	14621
70°	12400	11664	11738	11996
75°	9822	9336	8363	9530
80°	7755	7900	6378	8045
85°	4621	6065	1877	6787

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 300°  
 Vertical Angle: 45°  
 Luminance: 25593 cd/sqm



TEST NUMBER: P710066  
 CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	26.9	4.5	2.9
10°-20°	75.8	12.7	8.2
20°-30°	110.0	18.5	12.0
30°-40°	121.2	20.4	13.2
40°-50°	107.6	18.1	11.7
50°-60°	79.4	13.3	8.6
60°-70°	48.3	8.1	5.2
70°-80°	21.2	3.6	2.3
80°-90°	4.6	0.8	0.5
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°	212.7	35.7	23.1
0°-40°	333.9	56.1	36.3
0°-60°	521.0	87.6	56.6
0°-90°	595.0	100.0	64.6
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°	595.0	100.0	64.6

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	286	286	286	286	286	
5°	284	284	283	284	284	27
15°	271	269	268	269	271	76
25°	242	238	238	240	242	111
35°	196	193	193	196	196	122
45°	138	138	139	142	138	107
55°	87	87	88	91	87	78
65°	49	47	48	49	49	49
75°	20	19	17	20	20	22
85°	3	4	1	5	3	4
90°	0	0	0	0	0	



TEST NUMBER: P710066

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7	285.7
0.5°	285.7	285.5	285.4	285.7	285.6	285.6	285.6	285.5	285.5	285.7	285.7
1°	285.7	285.5	285.4	285.6	285.5	285.5	285.4	285.5	285.5	285.6	285.7
1.5°	285.6	285.5	285.3	285.5	285.3	285.4	285.3	285.4	285.4	285.6	285.7
2°	285.6	285.4	285.1	285.4	285.1	285.1	285.2	285.2	285.3	285.5	285.7
2.5°	285.4	285.2	284.9	285.2	284.9	284.9	284.9	285.1	285.1	285.3	285.6
3°	285.3	285.1	284.7	285.0	284.6	284.7	284.6	284.8	285.0	285.2	285.4
3.5°	285.1	284.8	284.4	284.7	284.3	284.4	284.3	284.6	284.7	284.9	285.2
4°	284.9	284.6	284.1	284.4	284.0	284.0	284.1	284.3	284.5	284.6	285.0
4.5°	284.7	284.3	283.8	284.1	283.6	283.7	283.7	284.0	284.2	284.4	284.8
5°	284.4	284.0	283.5	283.7	283.2	283.3	283.3	283.6	283.9	284.0	284.5
5.5°	284.1	283.6	283.0	283.3	282.8	282.8	282.8	283.3	283.5	283.6	284.2
6°	283.7	283.2	282.5	282.9	282.3	282.3	282.4	282.8	283.2	283.2	283.9
6.5°	283.3	282.8	282.1	282.5	281.8	281.9	281.9	282.4	282.7	282.8	283.5
7°	282.8	282.3	281.5	281.9	281.2	281.3	281.3	281.9	282.3	282.3	283.0
7.5°	282.4	281.8	280.9	281.4	280.5	280.7	280.8	281.3	281.7	281.8	282.5
8°	281.9	281.2	280.3	280.8	279.8	280.1	280.1	280.8	281.2	281.3	282.1
8.5°	281.4	280.6	279.6	280.1	279.2	279.4	279.5	280.1	280.5	280.6	281.5
9°	280.8	279.9	278.9	279.3	278.4	278.7	278.7	279.5	280.0	280.0	280.9
9.5°	280.3	279.2	278.2	278.6	277.6	277.9	278.0	278.7	279.3	279.3	280.3
10°	279.5	278.5	277.5	277.8	276.8	277.2	277.1	277.9	278.6	278.6	279.7
10.5°	278.8	277.7	276.7	277.1	276.0	276.3	276.3	277.1	277.8	277.8	278.9
11°	278.0	276.8	275.8	276.3	275.1	275.5	275.5	276.4	277.0	277.0	278.2
11.5°	277.2	276.0	274.9	275.4	274.3	274.6	274.7	275.5	276.1	276.1	277.4
12°	276.4	275.1	274.1	274.5	273.4	273.7	273.8	274.6	275.4	275.3	276.6
12.5°	275.5	274.3	273.1	273.6	272.4	272.7	272.8	273.7	274.4	274.3	275.7
13°	274.6	273.3	272.2	272.7	271.4	271.9	271.9	272.7	273.5	273.4	274.8
13.5°	273.7	272.4	271.2	271.7	270.4	270.8	270.9	271.7	272.5	272.4	273.9
14°	272.8	271.3	270.1	270.7	269.4	269.8	269.9	270.8	271.5	271.4	273.0
14.5°	271.8	270.3	269.0	269.6	268.3	268.7	268.8	269.7	270.5	270.3	271.9
15°	270.7	269.3	268.0	268.6	267.2	267.6	267.7	268.7	269.5	269.3	271.0
15.5°	269.7	268.2	266.9	267.4	266.0	266.4	266.6	267.6	268.4	268.2	269.8
16°	268.6	267.0	265.7	266.2	264.7	265.3	265.4	266.5	267.3	267.1	268.7
16.5°	267.4	265.8	264.4	265.0	263.5	264.1	264.2	265.3	266.1	265.9	267.5
17°	266.2	264.6	263.2	263.8	262.3	262.8	263.0	264.1	265.0	264.7	266.4
17.5°	265.1	263.4	261.9	262.5	260.9	261.5	261.7	262.8	263.7	263.5	265.2
18°	263.8	262.0	260.5	261.2	259.5	260.2	260.3	261.7	262.5	262.2	264.0
18.5°	262.5	260.7	259.1	259.8	258.2	258.8	259.0	260.3	261.2	260.8	262.7
19°	261.1	259.3	257.8	258.4	256.7	257.4	257.6	259.0	259.9	259.5	261.5
19.5°	259.8	257.9	256.2	256.9	255.3	256.0	256.2	257.6	258.6	258.1	260.0
20°	258.3	256.4	254.7	255.4	253.7	254.4	254.7	256.1	257.1	256.7	258.7
20.5°	256.9	254.9	253.2	253.9	252.2	252.9	253.1	254.7	255.6	255.2	257.3
21°	255.4	253.3	251.7	252.3	250.7	251.4	251.6	253.2	254.2	253.7	255.9



TEST NUMBER: P710066

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	250.6	248.5	246.6	247.5	245.6	246.4	246.7	248.4	249.5	249.0	251.2
23°	248.9	246.7	244.9	245.7	243.8	244.7	245.1	246.8	247.9	247.4	249.6
23.5°	247.2	245.0	243.0	243.9	242.0	243.0	243.3	245.0	246.2	245.6	248.0
24°	245.4	243.1	241.3	242.1	240.2	241.1	241.5	243.3	244.5	243.9	246.3
24.5°	243.7	241.2	239.4	240.3	238.3	239.3	239.7	241.5	242.7	242.2	244.5
25°	241.6	239.3	237.5	238.4	236.3	237.4	237.8	239.7	241.0	240.4	242.8
25.5°	239.8	237.4	235.5	236.4	234.4	235.5	235.9	237.9	239.1	238.5	240.9
26°	237.8	235.4	233.6	234.4	232.5	233.5	233.9	236.0	237.2	236.7	239.1
26.5°	235.9	233.4	231.5	232.4	230.5	231.6	232.0	234.0	235.4	234.7	237.1
27°	233.8	231.3	229.4	230.4	228.4	229.5	230.0	232.1	233.4	232.7	235.3
27.5°	231.8	229.3	227.3	228.4	226.4	227.4	227.8	230.1	231.4	230.7	233.2
28°	229.7	227.1	225.2	226.2	224.2	225.4	225.8	228.1	229.4	228.6	231.2
28.5°	227.5	224.9	223.0	224.1	222.1	223.3	223.7	225.9	227.3	226.5	229.1
29°	225.3	222.7	220.8	221.9	219.9	221.1	221.6	223.9	225.3	224.4	227.0
29.5°	223.0	220.4	218.5	219.6	217.7	218.8	219.4	221.7	223.2	222.3	224.9
30°	220.7	218.1	216.3	217.3	215.3	216.6	217.2	219.5	220.9	220.1	222.7
30.5°	218.4	215.7	213.9	215.1	213.0	214.4	214.9	217.2	218.7	217.8	220.5
31°	216.0	213.3	211.5	212.8	210.6	212.1	212.5	215.0	216.5	215.6	218.2
31.5°	213.6	210.9	209.0	210.4	208.3	209.8	210.3	212.7	214.3	213.3	215.9
32°	211.0	208.4	206.6	208.0	205.8	207.5	207.9	210.4	211.9	210.9	213.5
32.5°	208.5	206.0	204.1	205.6	203.4	205.0	205.4	208.0	209.5	208.5	211.1
33°	206.0	203.3	201.6	203.1	200.9	202.6	203.1	205.7	207.2	206.2	208.8
33.5°	203.4	200.8	199.1	200.6	198.5	200.1	200.6	203.3	204.8	203.7	206.3
34°	200.9	198.2	196.6	198.0	195.9	197.7	198.2	200.8	202.3	201.3	203.9
34.5°	198.2	195.6	193.9	195.4	193.4	195.2	195.6	198.4	199.8	198.7	201.3
35°	195.5	192.9	191.3	192.9	190.8	192.6	193.1	195.9	197.4	196.2	198.7
35.5°	192.8	190.2	188.6	190.3	188.3	190.0	190.6	193.4	194.9	193.6	196.2
36°	190.0	187.5	186.0	187.6	185.6	187.5	188.0	190.8	192.3	191.0	193.6
36.5°	187.3	184.8	183.2	184.9	183.0	184.8	185.3	188.2	189.7	188.4	191.0
37°	184.5	182.0	180.5	182.3	180.2	182.2	182.8	185.6	187.1	185.8	188.3
37.5°	181.7	179.2	177.9	179.7	177.6	179.5	180.1	183.0	184.5	183.1	185.7
38°	178.9	176.4	175.0	176.9	174.9	176.9	177.4	180.5	181.8	180.5	183.0
38.5°	176.0	173.6	172.3	174.2	172.2	174.2	174.8	177.7	179.1	177.7	180.2
39°	173.2	170.7	169.5	171.4	169.4	171.5	172.1	175.1	176.5	175.1	177.5
39.5°	170.3	167.9	166.8	168.7	166.7	168.7	169.4	172.4	173.8	172.3	174.8
40°	167.4	165.1	164.0	166.0	163.9	166.0	166.7	169.7	171.0	169.5	172.0
40.5°	164.5	162.2	161.2	163.2	161.1	163.3	163.9	167.0	168.3	166.9	169.2
41°	161.5	159.3	158.3	160.4	158.3	160.6	161.3	164.3	165.6	164.0	166.3
41.5°	158.6	156.5	155.6	157.5	155.5	157.8	158.5	161.5	163.0	161.3	163.6
42°	155.7	153.6	152.7	154.8	152.8	155.0	155.8	158.7	160.1	158.5	160.7
42.5°	152.8	150.8	149.9	151.9	150.0	152.1	153.0	156.0	157.4	155.7	157.9
43°	149.9	147.9	147.1	149.1	147.2	149.5	150.3	153.3	154.6	153.0	155.1
43.5°	147.0	145.1	144.4	146.3	144.4	146.7	147.5	150.5	151.9	150.1	152.3



TEST NUMBER: P710066

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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	138.5	136.6	136.1	138.1	136.1	138.5	139.2	142.3	143.7	141.9	143.8
45.5°	135.6	133.8	133.3	135.4	133.4	135.7	136.5	139.6	140.9	139.1	141.1
46°	132.8	131.0	130.6	132.5	130.6	132.9	133.8	136.8	138.1	136.4	138.3
46.5°	130.1	128.3	128.0	129.8	127.9	130.3	131.1	134.1	135.3	133.6	135.5
47°	127.3	125.5	125.3	127.2	125.2	127.6	128.4	131.5	132.6	131.0	132.8
47.5°	124.6	122.9	122.6	124.5	122.5	124.9	125.7	128.8	130.0	128.3	130.0
48°	121.9	120.2	120.1	121.8	119.8	122.3	123.1	126.1	127.3	125.5	127.3
48.5°	119.3	117.5	117.5	119.2	117.2	119.7	120.4	123.5	124.7	122.8	124.7
49°	116.7	114.8	114.9	116.6	114.5	117.1	117.8	120.9	122.0	120.2	122.1
49.5°	114.1	112.2	112.3	114.0	111.9	114.6	115.2	118.3	119.3	117.6	119.4
50°	111.4	109.6	109.7	111.4	109.5	112.0	112.6	115.8	116.7	115.0	116.8
50.5°	108.8	107.2	107.1	108.8	106.9	109.4	110.0	113.2	114.2	112.5	114.2
51°	106.4	104.6	104.7	106.4	104.3	106.8	107.5	110.7	111.6	109.9	111.5
51.5°	103.9	102.1	102.1	103.9	101.9	104.2	105.0	108.1	109.1	107.4	108.9
52°	101.4	99.7	99.7	101.4	99.4	101.8	102.6	105.6	106.6	104.9	106.6
52.5°	99.0	97.3	97.3	98.9	97.0	99.3	100.1	103.2	104.1	102.4	104.1
53°	96.5	94.9	94.9	96.5	94.5	96.8	97.6	100.7	101.7	100.0	101.7
53.5°	94.2	92.5	92.6	94.2	92.1	94.4	95.2	98.2	99.3	97.6	99.3
54°	91.9	90.2	90.3	91.8	89.8	92.1	92.8	95.9	96.9	95.3	96.8
54.5°	89.6	87.9	88.0	89.5	87.5	89.8	90.5	93.5	94.5	92.9	94.5
55°	87.3	85.7	85.7	87.1	85.1	87.4	88.2	91.2	92.1	90.7	92.1
55.5°	85.1	83.4	83.5	84.9	82.9	85.1	85.8	88.8	89.8	88.4	89.9
56°	83.0	81.3	81.3	82.6	80.7	82.8	83.6	86.6	87.5	86.1	87.6
56.5°	80.8	79.1	79.1	80.4	78.5	80.6	81.4	84.3	85.3	83.8	85.3
57°	78.7	77.0	77.0	78.3	76.3	78.4	79.1	82.1	83.1	81.6	83.1
57.5°	76.6	74.9	74.8	76.1	74.2	76.2	77.0	79.9	80.9	79.4	80.9
58°	74.5	72.8	72.8	74.0	72.1	74.1	74.8	77.8	78.7	77.2	78.6
58.5°	72.5	70.8	70.7	71.9	69.9	71.9	72.7	75.6	76.6	74.9	76.5
59°	70.5	68.8	68.7	69.8	67.9	69.8	70.6	73.5	74.5	72.8	74.3
59.5°	68.6	66.8	66.7	67.8	65.8	67.8	68.6	71.4	72.4	70.6	72.1
60°	66.7	64.9	64.7	65.8	63.8	65.8	66.5	69.4	70.4	68.5	70.0
60.5°	64.7	63.0	62.8	63.8	61.9	63.8	64.4	67.3	68.3	66.4	67.9
61°	62.9	61.1	60.9	61.9	59.9	61.8	62.5	65.4	66.2	64.3	65.8
61.5°	61.0	59.4	59.0	60.0	58.1	59.8	60.6	63.4	64.2	62.2	63.7
62°	59.2	57.7	57.2	58.1	56.4	57.9	58.8	61.4	62.1	60.2	61.7
62.5°	57.5	56.0	55.3	56.2	54.6	56.0	57.0	59.5	60.1	58.4	59.8
63°	55.7	54.3	53.5	54.4	52.9	54.1	55.2	57.6	58.3	56.5	57.9
63.5°	54.0	52.6	51.8	52.6	51.1	52.3	53.4	55.8	56.4	54.7	55.9
64°	52.3	50.9	50.0	50.8	49.3	50.5	51.6	53.9	54.6	52.8	54.0
64.5°	50.7	49.2	48.3	49.0	47.6	48.7	49.8	52.2	52.8	51.0	52.1
65°	49.0	47.5	46.6	47.3	45.9	46.9	48.1	50.3	50.9	49.1	50.3
65.5°	47.4	45.9	45.0	45.6	44.1	45.2	46.3	48.6	49.0	47.3	48.5
66°	45.8	44.3	43.3	43.9	42.5	43.5	44.6	46.8	47.2	45.6	46.8





TEST NUMBER: P710066

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	41.1	39.7	38.6	39.1	37.7	38.6	39.6	41.6	41.9	40.4	41.6
68°	39.6	38.3	36.8	37.6	36.1	37.1	38.1	40.0	40.2	38.7	40.0
68.5°	38.0	36.8	35.5	36.0	34.6	35.5	36.5	38.3	38.5	37.1	38.3
69°	36.6	35.4	34.2	34.5	33.1	33.9	34.9	36.6	36.9	35.6	36.8
69.5°	35.1	33.9	32.8	33.1	31.7	32.5	33.4	35.0	35.3	34.0	35.2
70°	33.7	32.5	31.4	31.7	30.3	31.0	31.9	33.5	33.7	32.6	33.7
70.5°	32.3	31.1	30.0	30.2	28.9	29.6	30.3	31.9	32.2	31.1	32.2
71°	30.9	29.8	28.7	28.9	27.5	28.2	28.6	30.4	30.7	29.6	30.8
71.5°	29.5	28.5	27.4	27.5	26.2	26.8	27.0	28.9	29.2	28.2	29.4
72°	28.2	27.2	26.1	26.2	24.9	25.5	25.4	27.5	27.8	26.9	28.1
72.5°	26.8	25.9	24.9	25.0	23.7	24.2	23.9	26.1	26.4	25.6	26.7
73°	25.4	24.7	23.6	23.7	22.5	22.9	22.4	24.7	25.0	24.3	25.5
73.5°	24.1	23.5	22.4	22.6	21.3	21.6	21.0	23.4	23.8	23.1	24.2
74°	22.7	22.3	21.3	21.4	20.2	20.4	19.6	22.0	22.5	21.9	23.0
74.5°	21.5	21.1	20.2	20.3	19.1	19.2	18.4	20.7	21.3	20.7	21.9
75°	20.2	20.0	19.1	19.2	18.1	18.1	17.2	19.4	20.2	19.6	20.8
75.5°	19.1	18.9	18.0	18.2	17.1	17.0	16.0	18.2	19.0	18.6	19.7
76°	17.9	17.9	17.1	17.2	16.2	15.9	15.0	16.9	18.0	17.6	18.7
76.5°	16.9	16.9	16.0	16.3	15.2	15.0	14.0	15.8	17.0	16.7	17.7
77°	15.8	15.9	15.1	15.4	14.3	14.0	13.1	14.8	16.0	15.7	16.7
77.5°	14.8	15.0	14.2	14.5	13.5	13.1	12.3	13.8	15.1	14.9	15.8
78°	13.9	14.0	13.3	13.7	12.7	12.2	11.6	12.8	14.2	14.0	15.0
78.5°	13.0	13.1	12.5	12.9	12.0	11.4	10.9	12.0	13.4	13.2	14.1
79°	12.1	12.2	11.8	12.2	11.3	10.7	10.3	11.2	12.6	12.5	13.3
79.5°	11.4	11.4	11.1	11.5	10.8	10.0	9.6	10.5	11.8	11.7	12.5
80°	10.7	10.6	10.5	10.9	10.2	9.4	8.8	9.8	11.2	11.1	11.8
80.5°	10.0	9.8	9.9	10.3	9.6	8.8	8.1	9.1	10.5	10.5	11.1
81°	9.3	9.1	9.4	9.7	9.0	8.1	7.3	8.3	9.9	9.9	10.5
81.5°	8.5	8.5	8.8	9.0	8.3	7.4	6.4	7.6	9.3	9.3	9.9
82°	7.8	7.9	8.1	8.4	7.6	6.6	5.6	6.8	8.7	8.7	9.3
82.5°	7.0	7.2	7.4	7.7	7.0	6.0	4.9	6.0	8.0	8.0	8.7
83°	6.2	6.5	6.8	7.0	6.2	5.3	4.0	5.3	7.3	7.4	8.0
83.5°	5.4	5.8	6.1	6.3	5.5	4.5	3.2	4.5	6.6	6.7	7.3
84°	4.7	5.2	5.4	5.6	4.8	3.9	2.5	3.7	5.9	6.1	6.6
84.5°	3.9	4.6	4.8	4.9	4.2	3.4	1.9	3.0	5.2	5.4	6.0
85°	3.2	3.9	4.1	4.2	3.5	2.8	1.3	2.4	4.5	4.7	5.3
85.5°	2.5	3.4	3.5	3.5	2.8	2.2	1.0	1.7	3.9	4.1	4.6
86°	1.9	2.9	2.9	2.8	2.1	1.7	0.8	1.3	3.3	3.4	4.0
86.5°	1.3	2.4	2.2	2.2	1.6	1.2	0.6	0.9	2.7	2.8	3.4
87°	1.0	1.8	1.7	1.6	1.0	0.8	0.4	0.7	2.0	2.1	2.7
87.5°	0.8	1.4	1.1	1.0	0.5	0.3	0.3	0.4	1.5	1.5	2.1
88°	0.6	1.0	0.6	0.5	0.5	0.2	0.1	0.2	1.0	1.0	1.6
88.5°	0.5	0.6	0.4	0.5	0.4	0.2	0.1	0.1	0.5	0.4	1.0



TEST NUMBER: P710066

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P710066

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	285.7	285.7
0.5°	285.7	285.7
1°	285.7	285.7
1.5°	285.7	285.6
2°	285.7	285.6
2.5°	285.5	285.4
3°	285.4	285.3
3.5°	285.2	285.1
4°	284.9	284.9
4.5°	284.7	284.7
5°	284.5	284.4
5.5°	284.1	284.1
6°	283.7	283.7
6.5°	283.4	283.3
7°	282.9	282.8
7.5°	282.5	282.4
8°	282.0	281.9
8.5°	281.5	281.4
9°	280.9	280.8
9.5°	280.3	280.3
10°	279.6	279.5
10.5°	278.9	278.8
11°	278.1	278.0
11.5°	277.4	277.2
12°	276.5	276.4
12.5°	275.7	275.5
13°	274.7	274.6
13.5°	273.8	273.7
14°	272.8	272.8
14.5°	271.8	271.8
15°	270.8	270.7
15.5°	269.8	269.7
16°	268.6	268.6
16.5°	267.5	267.4
17°	266.3	266.2
17.5°	265.1	265.1
18°	263.8	263.8
18.5°	262.6	262.5
19°	261.2	261.1
19.5°	259.9	259.8
20°	258.4	258.3
20.5°	257.1	256.9
21°	255.6	255.4



TEST NUMBER: P710066  
CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
22.5°	250.9	250.6
23°	249.1	248.9
23.5°	247.4	247.2
24°	245.7	245.4
24.5°	244.0	243.7
25°	242.1	241.6
25.5°	240.2	239.8
26°	238.3	237.8
26.5°	236.4	235.9
27°	234.4	233.8
27.5°	232.3	231.8
28°	230.2	229.7
28.5°	228.1	227.5
29°	225.9	225.3
29.5°	223.7	223.0
30°	221.4	220.7
30.5°	219.1	218.4
31°	216.8	216.0
31.5°	214.4	213.6
32°	212.0	211.0
32.5°	209.6	208.5
33°	207.1	206.0
33.5°	204.6	203.4
34°	202.0	200.9
34.5°	199.4	198.2
35°	196.8	195.5
35.5°	194.1	192.8
36°	191.4	190.0
36.5°	188.8	187.3
37°	186.0	184.5
37.5°	183.3	181.7
38°	180.5	178.9
38.5°	177.7	176.0
39°	174.9	173.2
39.5°	172.0	170.3
40°	169.2	167.4
40.5°	166.4	164.5
41°	163.5	161.5
41.5°	160.6	158.6
42°	157.7	155.7
42.5°	154.9	152.8
43°	151.9	149.9
43.5°	149.1	147.0



TEST NUMBER: P710066

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	140.6	138.5
45.5°	137.7	135.6
46°	134.9	132.8
46.5°	132.1	130.1
47°	129.4	127.3
47.5°	126.6	124.6
48°	123.9	121.9
48.5°	121.2	119.3
49°	118.5	116.7
49.5°	115.9	114.1
50°	113.3	111.4
50.5°	110.7	108.8
51°	108.1	106.4
51.5°	105.5	103.9
52°	103.1	101.4
52.5°	100.6	99.0
53°	98.2	96.5
53.5°	95.8	94.2
54°	93.6	91.9
54.5°	91.2	89.6
55°	88.8	87.3
55.5°	86.6	85.1
56°	84.4	83.0
56.5°	82.2	80.8
57°	80.0	78.7
57.5°	77.9	76.6
58°	75.8	74.5
58.5°	73.7	72.5
59°	71.7	70.5
59.5°	69.7	68.6
60°	67.8	66.7
60.5°	65.9	64.7
61°	63.9	62.9
61.5°	62.0	61.0
62°	60.2	59.2
62.5°	58.5	57.5
63°	56.7	55.7
63.5°	55.0	54.0
64°	53.3	52.3
64.5°	51.5	50.7
65°	49.7	49.0
65.5°	48.0	47.4
66°	46.3	45.8



TEST NUMBER: P710066

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
67.5°	41.4	41.1
68°	39.8	39.6
68.5°	38.2	38.0
69°	36.7	36.6
69.5°	35.2	35.1
70°	33.7	33.7
70.5°	32.3	32.3
71°	30.9	30.9
71.5°	29.5	29.5
72°	28.2	28.2
72.5°	26.9	26.8
73°	25.7	25.4
73.5°	24.4	24.1
74°	23.2	22.7
74.5°	22.0	21.5
75°	20.9	20.2
75.5°	19.7	19.1
76°	18.5	17.9
76.5°	17.5	16.9
77°	16.4	15.8
77.5°	15.4	14.8
78°	14.5	13.9
78.5°	13.6	13.0
79°	12.7	12.1
79.5°	11.9	11.4
80°	11.1	10.7
80.5°	10.4	10.0
81°	9.7	9.3
81.5°	9.0	8.5
82°	8.3	7.8
82.5°	7.6	7.0
83°	6.8	6.2
83.5°	6.1	5.4
84°	5.4	4.7
84.5°	4.6	3.9
85°	3.9	3.2
85.5°	3.2	2.5
86°	2.5	1.9
86.5°	1.9	1.3
87°	1.4	1.0
87.5°	1.1	0.8
88°	0.8	0.6
88.5°	0.5	0.5



TEST NUMBER: P710066  
CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-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°	253.8	251.8	250.0	250.7	249.0	249.8	250.0	251.6	252.6	252.3	254.3
22°	252.1	250.1	248.3	249.1	247.3	248.1	248.4	250.1	251.1	250.6	252.8



44°	144.2	142.2	141.6	143.6	141.7	143.9	144.8	147.8	149.1	147.4	149.5
44.5°	141.2	139.4	138.8	140.9	138.9	141.2	142.0	145.0	146.3	144.7	146.6



66.5°	44.2	42.8	41.8	42.3	40.8	41.9	42.9	45.1	45.4	43.8	45.0
67°	42.6	41.2	40.2	40.7	39.2	40.2	41.3	43.3	43.6	42.1	43.3



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



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

Scaled Data Report





21.5°	254.0	253.8
22°	252.4	252.1



44°	146.3	144.2
44.5°	143.4	141.2



66.5°	44.7	44.2
67°	43.0	42.6

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

Scaled Data Report



89°	0.3	0.3
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)