

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: P710062

Luminaire Tested: RA4LS9FSD2W1EWH-600lm-2700K

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P710062  
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-2700K  
Description: 4IN RETROFIT SELECTABLE LUMENS  
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

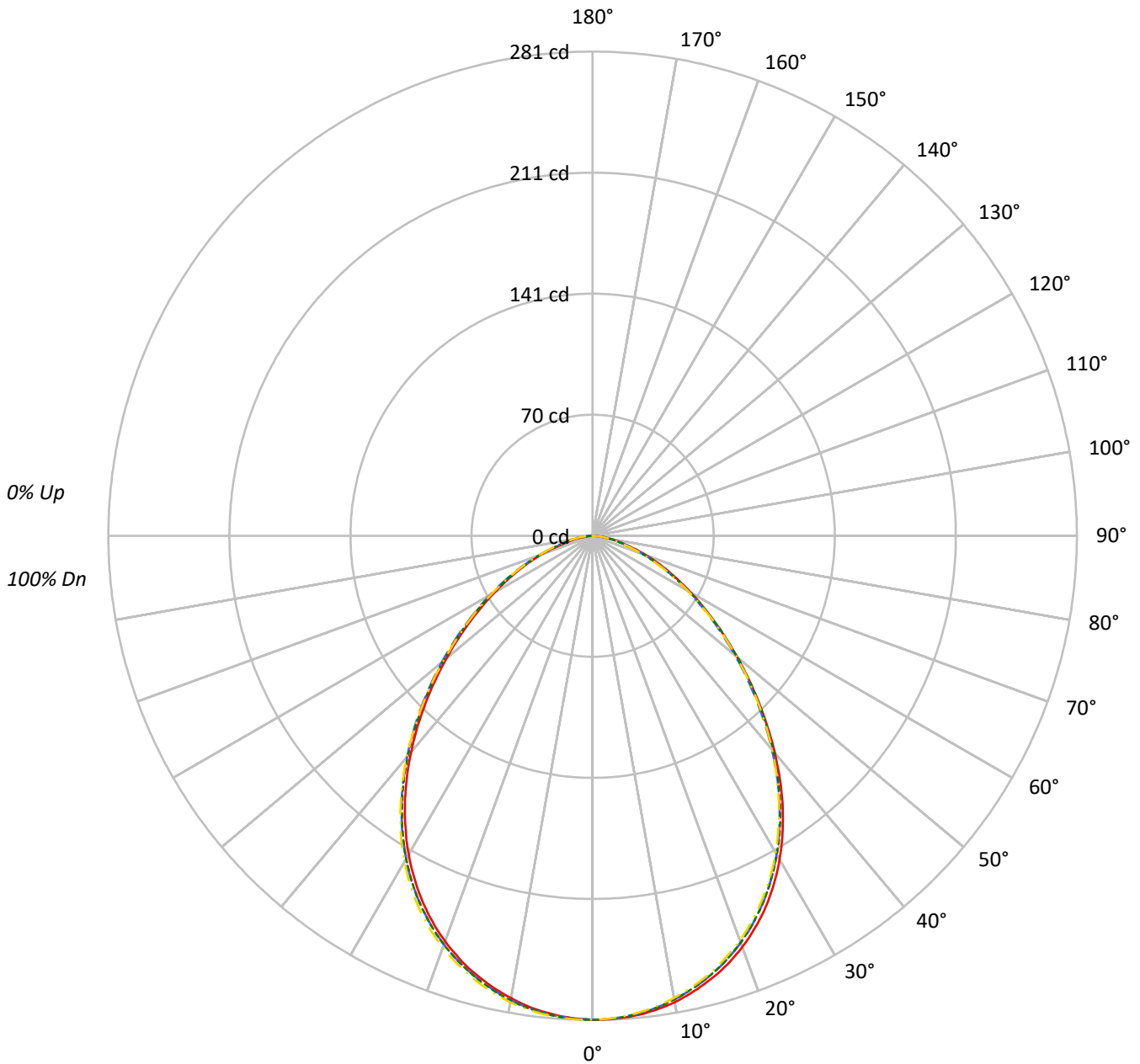
Lumens per Lamp: 920.71 (1 lamp)  
Luminaire Lumens: 585.0 lumens  
Efficiency: 63.5%  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.22  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P710062  
CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P710062  
 CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

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

RF	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	50	30	10	0		
RCR	0	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65	64	64	64	64	64	64		
	1	70	68	65	63	68	66	64	62	63	62	60	61	60	58	59	58	57	55	55	55	55	55	55		
	2	65	60	56	53	63	59	55	52	57	54	51	55	52	50	53	51	49	48	48	48	48	48	48		
	3	60	54	49	45	58	53	48	45	51	47	44	49	46	43	48	45	43	41	41	41	41	41	41		
	4	55	48	43	39	54	47	43	39	46	42	38	44	41	38	43	40	37	36	36	36	36	36	36		
	5	51	43	38	34	50	43	38	34	41	37	34	40	36	34	39	36	33	32	32	32	32	32	32		
	6	47	39	34	30	46	39	34	30	38	33	30	37	33	30	36	32	30	28	28	28	28	28	28		
	7	44	36	31	27	43	36	31	27	35	30	27	34	30	27	33	29	27	25	25	25	25	25	25		
	8	41	33	28	25	40	33	28	25	32	28	24	31	27	24	30	27	24	23	23	23	23	23	23		
	9	39	31	26	22	38	30	25	22	29	25	22	29	25	22	28	25	22	21	21	21	21	21	21		
	10	36	28	24	20	35	28	23	20	27	23	20	27	23	20	26	23	20	19	19	19	19	19	19		

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

	0°	90°	180°	270°
0°	35351	35351	35351	35351
5°	35322	35246	35183	35271
10°	35117	34913	34823	35002
15°	34670	34409	34292	34501
20°	34017	33629	33535	33803
25°	32993	32549	32465	32813
30°	31534	31055	31026	31447
35°	29544	29129	29175	29636
40°	27025	26811	26926	27386
45°	24223	24169	24365	24828
50°	21458	21458	21674	22144
55°	18848	18804	19023	19550
60°	16486	16285	16461	16965
65°	14353	13847	14055	14383
70°	12179	11444	11554	11775
75°	9676	9190	8218	9385
80°	7610	7755	6305	7900
85°	4476	6065	1877	6642

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 300°  
 Vertical Angle: 45°  
 Luminance: 25166 cd/sqm



TEST NUMBER: P710062  
 CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	26.5	4.5	2.9
10°-20°	74.5	12.7	8.1
20°-30°	108.2	18.5	11.7
30°-40°	119.2	20.4	12.9
40°-50°	105.8	18.1	11.5
50°-60°	78.1	13.3	8.5
60°-70°	47.5	8.1	5.2
70°-80°	20.8	3.6	2.3
80°-90°	4.5	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°	209.1	35.7	22.7
0°-40°	328.3	56.1	35.7
0°-60°	512.2	87.6	55.6
0°-90°	585.0	100.0	63.5
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	63.5

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	281	281	281	281	281	
5°	280	279	278	279	280	27
15°	266	264	263	265	266	75
25°	238	234	234	236	238	109
35°	192	190	190	193	192	120
45°	136	136	137	140	136	105
55°	86	86	87	89	86	77
65°	48	46	47	48	48	48
75°	20	19	17	19	20	22
85°	3	4	1	5	3	4
90°	0	0	0	0	0	



TEST NUMBER: P710062

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
0.5°	280.9	280.7	280.6	280.9	280.8	280.8	280.8	280.7	280.7	280.9	280.9
1°	280.9	280.7	280.6	280.8	280.7	280.7	280.6	280.7	280.7	280.8	280.9
1.5°	280.8	280.7	280.5	280.7	280.5	280.6	280.5	280.6	280.6	280.8	280.9
2°	280.8	280.6	280.3	280.6	280.3	280.3	280.4	280.4	280.5	280.7	280.9
2.5°	280.6	280.4	280.1	280.4	280.1	280.2	280.1	280.3	280.3	280.5	280.8
3°	280.5	280.3	279.9	280.2	279.8	279.9	279.8	280.1	280.2	280.4	280.6
3.5°	280.3	280.0	279.6	279.9	279.6	279.6	279.6	279.8	279.9	280.1	280.4
4°	280.1	279.8	279.4	279.7	279.2	279.3	279.3	279.5	279.7	279.9	280.2
4.5°	279.9	279.5	279.0	279.3	278.9	278.9	278.9	279.2	279.4	279.6	280.0
5°	279.6	279.2	278.7	279.0	278.5	278.5	278.5	278.8	279.1	279.2	279.7
5.5°	279.3	278.8	278.2	278.6	278.0	278.0	278.1	278.5	278.7	278.8	279.4
6°	279.0	278.4	277.8	278.2	277.5	277.6	277.7	278.0	278.4	278.4	279.1
6.5°	278.6	278.0	277.3	277.7	277.0	277.1	277.2	277.6	277.9	278.0	278.7
7°	278.1	277.5	276.8	277.2	276.5	276.5	276.6	277.1	277.5	277.5	278.2
7.5°	277.7	277.0	276.2	276.7	275.8	276.0	276.1	276.6	277.0	277.0	277.8
8°	277.1	276.5	275.6	276.1	275.1	275.4	275.4	276.0	276.5	276.5	277.3
8.5°	276.7	275.9	274.9	275.4	274.5	274.7	274.8	275.4	275.8	275.9	276.8
9°	276.1	275.2	274.3	274.6	273.7	274.0	274.0	274.8	275.2	275.3	276.2
9.5°	275.5	274.5	273.5	273.9	273.0	273.3	273.3	274.0	274.6	274.6	275.6
10°	274.8	273.8	272.8	273.2	272.1	272.5	272.5	273.3	273.9	273.9	275.0
10.5°	274.2	273.0	272.0	272.4	271.3	271.7	271.7	272.5	273.1	273.2	274.2
11°	273.3	272.2	271.2	271.6	270.5	270.8	270.9	271.7	272.4	272.3	273.6
11.5°	272.6	271.4	270.3	270.7	269.7	270.0	270.0	270.9	271.5	271.5	272.8
12°	271.7	270.5	269.4	269.9	268.8	269.1	269.2	270.0	270.8	270.7	271.9
12.5°	270.9	269.7	268.5	269.0	267.9	268.2	268.2	269.1	269.8	269.7	271.1
13°	270.0	268.7	267.6	268.1	266.9	267.3	267.3	268.1	268.9	268.8	270.2
13.5°	269.1	267.8	266.6	267.1	265.9	266.2	266.3	267.2	268.0	267.8	269.3
14°	268.2	266.7	265.6	266.1	264.9	265.2	265.3	266.2	267.0	266.9	268.4
14.5°	267.2	265.8	264.5	265.0	263.8	264.2	264.3	265.2	265.9	265.8	267.3
15°	266.1	264.7	263.5	264.1	262.7	263.1	263.2	264.2	265.0	264.8	266.4
15.5°	265.1	263.7	262.4	262.9	261.5	261.9	262.1	263.1	263.9	263.7	265.2
16°	264.1	262.5	261.2	261.7	260.3	260.8	261.0	262.0	262.8	262.6	264.2
16.5°	263.0	261.4	260.0	260.6	259.1	259.6	259.8	260.8	261.6	261.4	263.0
17°	261.7	260.2	258.7	259.4	257.8	258.4	258.6	259.7	260.5	260.3	261.9
17.5°	260.6	259.0	257.5	258.1	256.5	257.1	257.3	258.4	259.3	259.1	260.7
18°	259.4	257.6	256.1	256.8	255.2	255.8	255.9	257.3	258.1	257.8	259.6
18.5°	258.1	256.4	254.8	255.5	253.8	254.5	254.6	256.0	256.8	256.4	258.3
19°	256.7	254.9	253.4	254.0	252.4	253.1	253.3	254.6	255.5	255.2	257.1
19.5°	255.4	253.6	251.9	252.6	251.0	251.7	251.9	253.3	254.2	253.8	255.7
20°	254.0	252.0	250.4	251.1	249.5	250.2	250.4	251.8	252.8	252.4	254.3
20.5°	252.6	250.7	248.9	249.7	248.0	248.7	248.9	250.4	251.4	250.9	253.0
21°	251.1	249.1	247.5	248.1	246.5	247.2	247.4	249.0	249.9	249.5	251.6



TEST NUMBER: P710062

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	246.3	244.3	242.5	243.3	241.4	242.3	242.5	244.2	245.3	244.9	247.0
23°	244.7	242.6	240.8	241.5	239.7	240.6	240.9	242.6	243.7	243.3	245.4
23.5°	243.0	240.8	239.0	239.8	237.9	238.9	239.2	240.9	242.0	241.5	243.8
24°	241.3	239.0	237.3	238.0	236.1	237.1	237.4	239.2	240.4	239.8	242.2
24.5°	239.6	237.2	235.4	236.2	234.3	235.3	235.6	237.4	238.6	238.1	240.4
25°	237.6	235.3	233.5	234.4	232.4	233.4	233.8	235.7	236.9	236.3	238.7
25.5°	235.8	233.4	231.6	232.5	230.5	231.5	231.9	233.9	235.0	234.5	236.8
26°	233.8	231.5	229.6	230.5	228.5	229.6	230.0	232.0	233.2	232.7	235.1
26.5°	231.9	229.5	227.6	228.5	226.7	227.7	228.1	230.1	231.4	230.7	233.1
27°	229.9	227.4	225.6	226.5	224.6	225.6	226.1	228.2	229.4	228.8	231.3
27.5°	227.9	225.4	223.5	224.5	222.5	223.6	224.0	226.2	227.5	226.8	229.3
28°	225.8	223.3	221.4	222.4	220.4	221.6	222.0	224.3	225.5	224.8	227.3
28.5°	223.6	221.2	219.3	220.3	218.4	219.5	219.9	222.1	223.5	222.7	225.2
29°	221.5	218.9	217.1	218.2	216.2	217.4	217.9	220.1	221.5	220.7	223.2
29.5°	219.3	216.7	214.8	215.9	214.0	215.1	215.7	218.0	219.4	218.5	221.1
30°	217.0	214.4	212.6	213.7	211.7	213.0	213.5	215.8	217.2	216.4	219.0
30.5°	214.7	212.1	210.3	211.5	209.4	210.8	211.3	213.6	215.0	214.1	216.8
31°	212.3	209.7	207.9	209.2	207.1	208.6	209.0	211.4	212.9	212.0	214.6
31.5°	210.0	207.4	205.5	206.8	204.8	206.3	206.8	209.1	210.7	209.7	212.3
32°	207.5	204.9	203.2	204.5	202.4	204.0	204.4	206.9	208.3	207.4	210.0
32.5°	205.0	202.5	200.7	202.1	200.0	201.6	201.9	204.5	206.0	205.0	207.6
33°	202.5	199.9	198.2	199.6	197.6	199.2	199.7	202.2	203.7	202.7	205.3
33.5°	200.0	197.4	195.8	197.2	195.1	196.8	197.2	199.8	201.3	200.3	202.8
34°	197.5	194.9	193.3	194.7	192.6	194.4	194.9	197.4	198.9	197.9	200.4
34.5°	194.8	192.3	190.7	192.2	190.1	191.9	192.3	195.0	196.5	195.3	197.9
35°	192.3	189.7	188.1	189.6	187.6	189.4	189.9	192.6	194.1	192.9	195.4
35.5°	189.6	187.0	185.5	187.1	185.1	186.8	187.4	190.1	191.6	190.3	192.9
36°	186.9	184.3	182.9	184.5	182.5	184.3	184.8	187.6	189.0	187.8	190.4
36.5°	184.2	181.7	180.2	181.8	179.9	181.7	182.2	185.1	186.5	185.3	187.8
37°	181.4	179.0	177.5	179.3	177.2	179.1	179.7	182.5	184.0	182.7	185.1
37.5°	178.7	176.2	174.9	176.7	174.6	176.5	177.1	179.9	181.4	180.0	182.6
38°	175.9	173.4	172.1	173.9	172.0	173.9	174.5	177.4	178.8	177.5	179.9
38.5°	173.0	170.7	169.4	171.3	169.3	171.2	171.8	174.7	176.1	174.8	177.2
39°	170.2	167.8	166.7	168.5	166.5	168.6	169.2	172.1	173.5	172.1	174.5
39.5°	167.4	165.0	164.0	165.8	163.9	165.9	166.6	169.5	170.9	169.4	171.8
40°	164.5	162.3	161.2	163.2	161.1	163.3	163.9	166.8	168.1	166.7	169.1
40.5°	161.7	159.5	158.5	160.5	158.4	160.5	161.2	164.2	165.5	164.1	166.3
41°	158.8	156.6	155.7	157.7	155.7	157.9	158.5	161.5	162.8	161.3	163.5
41.5°	155.9	153.9	153.0	154.9	152.9	155.1	155.9	158.8	160.2	158.6	160.8
42°	153.1	151.0	150.1	152.2	150.2	152.4	153.2	156.1	157.4	155.9	158.0
42.5°	150.2	148.2	147.4	149.4	147.5	149.6	150.4	153.4	154.7	153.1	155.3
43°	147.3	145.4	144.7	146.6	144.7	146.9	147.7	150.7	152.0	150.4	152.5
43.5°	144.6	142.7	142.0	143.9	142.0	144.2	145.0	148.0	149.3	147.6	149.7



TEST NUMBER: P710062

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	136.1	134.3	133.8	135.8	133.8	136.2	136.9	139.9	141.2	139.5	141.4
45.5°	133.3	131.6	131.1	133.1	131.2	133.4	134.2	137.2	138.6	136.8	138.7
46°	130.6	128.8	128.4	130.3	128.4	130.7	131.6	134.5	135.8	134.1	136.0
46.5°	127.9	126.1	125.8	127.7	125.7	128.1	128.9	131.8	133.1	131.4	133.3
47°	125.2	123.4	123.2	125.1	123.1	125.5	126.2	129.2	130.4	128.8	130.5
47.5°	122.5	120.8	120.5	122.4	120.5	122.8	123.6	126.6	127.8	126.1	127.9
48°	119.9	118.2	118.1	119.8	117.8	120.3	121.0	124.0	125.2	123.4	125.2
48.5°	117.3	115.5	115.5	117.2	115.2	117.7	118.4	121.4	122.6	120.7	122.6
49°	114.7	112.9	113.0	114.7	112.6	115.2	115.8	118.9	120.0	118.2	120.0
49.5°	112.1	110.4	110.4	112.1	110.0	112.6	113.2	116.4	117.3	115.6	117.4
50°	109.6	107.8	107.9	109.6	107.6	110.1	110.7	113.8	114.8	113.1	114.8
50.5°	107.0	105.4	105.3	107.0	105.1	107.5	108.1	111.3	112.2	110.6	112.2
51°	104.6	102.9	102.9	104.6	102.6	105.0	105.7	108.8	109.7	108.1	109.7
51.5°	102.1	100.4	100.4	102.1	100.2	102.4	103.3	106.3	107.3	105.6	107.1
52°	99.7	98.0	98.0	99.7	97.7	100.0	100.9	103.8	104.9	103.1	104.8
52.5°	97.3	95.7	95.7	97.3	95.3	97.6	98.4	101.5	102.4	100.7	102.4
53°	94.9	93.3	93.3	94.9	92.9	95.2	96.0	99.0	100.0	98.3	100.0
53.5°	92.7	91.0	91.0	92.6	90.6	92.8	93.6	96.6	97.6	96.0	97.6
54°	90.3	88.7	88.8	90.3	88.3	90.5	91.3	94.3	95.3	93.7	95.2
54.5°	88.1	86.4	86.5	88.0	86.0	88.2	89.0	92.0	92.9	91.4	92.9
55°	85.9	84.2	84.2	85.7	83.7	85.9	86.7	89.7	90.6	89.1	90.6
55.5°	83.7	82.0	82.1	83.4	81.5	83.7	84.4	87.3	88.2	86.9	88.3
56°	81.6	79.9	79.9	81.2	79.3	81.4	82.2	85.1	86.1	84.6	86.1
56.5°	79.5	77.8	77.8	79.1	77.2	79.2	80.0	82.9	83.8	82.4	83.9
57°	77.3	75.7	75.7	77.0	75.0	77.1	77.8	80.7	81.7	80.2	81.7
57.5°	75.3	73.6	73.6	74.8	73.0	75.0	75.7	78.6	79.5	78.1	79.5
58°	73.3	71.6	71.6	72.7	70.9	72.8	73.6	76.4	77.4	75.9	77.3
58.5°	71.3	69.6	69.5	70.7	68.7	70.7	71.5	74.3	75.3	73.7	75.2
59°	69.4	67.7	67.5	68.7	66.8	68.7	69.5	72.3	73.2	71.6	73.0
59.5°	67.4	65.7	65.6	66.7	64.7	66.7	67.5	70.2	71.2	69.4	70.9
60°	65.5	63.8	63.6	64.7	62.8	64.7	65.4	68.2	69.2	67.4	68.9
60.5°	63.7	61.9	61.7	62.7	60.9	62.7	63.3	66.2	67.1	65.3	66.8
61°	61.8	60.1	59.8	60.8	58.9	60.8	61.5	64.3	65.1	63.2	64.7
61.5°	60.0	58.4	58.0	59.0	57.2	58.8	59.5	62.3	63.1	61.1	62.7
62°	58.2	56.7	56.2	57.1	55.4	56.9	57.8	60.4	61.1	59.2	60.7
62.5°	56.5	55.0	54.4	55.2	53.7	55.1	56.0	58.5	59.1	57.4	58.8
63°	54.8	53.4	52.6	53.5	52.0	53.2	54.3	56.7	57.3	55.6	56.9
63.5°	53.1	51.7	50.9	51.7	50.2	51.4	52.5	54.9	55.5	53.8	55.0
64°	51.5	50.0	49.2	49.9	48.5	49.7	50.7	53.0	53.7	51.9	53.1
64.5°	49.8	48.4	47.5	48.2	46.8	47.9	49.0	51.3	51.9	50.1	51.2
65°	48.2	46.7	45.8	46.5	45.1	46.2	47.2	49.5	50.0	48.3	49.4
65.5°	46.6	45.2	44.2	44.8	43.4	44.5	45.5	47.8	48.2	46.5	47.7
66°	45.0	43.6	42.6	43.2	41.8	42.8	43.8	46.0	46.4	44.8	46.0





TEST NUMBER: P710062

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	40.4	39.1	38.0	38.5	37.0	38.0	39.0	40.9	41.2	39.8	40.9
68°	38.9	37.6	36.2	36.9	35.5	36.4	37.4	39.3	39.5	38.1	39.3
68.5°	37.4	36.2	35.0	35.4	34.0	34.9	35.9	37.6	37.9	36.5	37.7
69°	36.0	34.8	33.6	33.9	32.6	33.4	34.4	36.0	36.2	35.0	36.1
69.5°	34.5	33.4	32.2	32.5	31.2	31.9	32.9	34.5	34.7	33.4	34.6
70°	33.1	32.0	30.8	31.1	29.8	30.5	31.4	32.9	33.1	32.0	33.2
70.5°	31.7	30.6	29.5	29.7	28.4	29.1	29.8	31.4	31.6	30.5	31.7
71°	30.4	29.3	28.2	28.4	27.1	27.7	28.1	29.9	30.2	29.1	30.3
71.5°	29.0	28.0	26.9	27.1	25.8	26.4	26.6	28.4	28.7	27.7	28.9
72°	27.7	26.7	25.7	25.8	24.5	25.1	25.0	27.0	27.3	26.4	27.6
72.5°	26.3	25.5	24.5	24.5	23.3	23.8	23.5	25.6	25.9	25.1	26.3
73°	25.0	24.3	23.2	23.3	22.1	22.5	22.0	24.3	24.6	23.9	25.0
73.5°	23.6	23.1	22.1	22.2	21.0	21.3	20.6	23.0	23.4	22.7	23.8
74°	22.3	21.9	20.9	21.0	19.9	20.1	19.3	21.7	22.1	21.5	22.6
74.5°	21.1	20.8	19.8	20.0	18.8	18.9	18.1	20.3	20.9	20.4	21.5
75°	19.9	19.7	18.8	18.9	17.8	17.8	16.9	19.1	19.8	19.3	20.4
75.5°	18.8	18.6	17.7	17.9	16.9	16.7	15.8	17.8	18.7	18.3	19.4
76°	17.6	17.6	16.8	16.9	15.9	15.7	14.7	16.7	17.7	17.3	18.4
76.5°	16.6	16.6	15.8	16.0	15.0	14.7	13.8	15.6	16.7	16.4	17.4
77°	15.6	15.7	14.8	15.1	14.1	13.8	12.9	14.5	15.7	15.5	16.4
77.5°	14.6	14.7	13.9	14.3	13.3	12.9	12.1	13.5	14.8	14.6	15.5
78°	13.6	13.8	13.1	13.4	12.5	12.0	11.4	12.6	14.0	13.8	14.7
78.5°	12.8	12.9	12.3	12.7	11.8	11.2	10.7	11.8	13.1	13.0	13.9
79°	11.9	12.0	11.6	12.0	11.2	10.5	10.1	11.0	12.4	12.2	13.1
79.5°	11.2	11.2	10.9	11.3	10.6	9.8	9.4	10.3	11.6	11.5	12.3
80°	10.5	10.4	10.3	10.7	10.0	9.2	8.7	9.6	11.0	10.9	11.6
80.5°	9.8	9.7	9.7	10.1	9.5	8.6	7.9	8.9	10.3	10.3	10.9
81°	9.1	9.0	9.2	9.5	8.8	7.9	7.2	8.2	9.7	9.7	10.3
81.5°	8.4	8.4	8.6	8.9	8.1	7.2	6.3	7.5	9.2	9.2	9.7
82°	7.6	7.8	7.9	8.2	7.5	6.5	5.5	6.7	8.5	8.6	9.2
82.5°	6.9	7.1	7.3	7.5	6.8	5.9	4.8	5.9	7.9	7.9	8.5
83°	6.1	6.4	6.7	6.9	6.1	5.2	4.0	5.2	7.2	7.2	7.8
83.5°	5.3	5.7	6.0	6.2	5.4	4.5	3.2	4.4	6.5	6.6	7.2
84°	4.6	5.1	5.3	5.5	4.8	3.9	2.5	3.7	5.8	6.0	6.5
84.5°	3.9	4.5	4.7	4.8	4.1	3.3	1.8	2.9	5.1	5.3	5.9
85°	3.1	3.9	4.1	4.2	3.4	2.8	1.3	2.3	4.5	4.6	5.2
85.5°	2.4	3.3	3.5	3.5	2.7	2.2	1.0	1.7	3.8	4.0	4.5
86°	1.9	2.8	2.8	2.8	2.1	1.7	0.7	1.2	3.3	3.4	3.9
86.5°	1.3	2.3	2.2	2.1	1.6	1.2	0.6	0.9	2.6	2.7	3.3
87°	1.0	1.8	1.6	1.6	0.9	0.8	0.4	0.7	2.0	2.1	2.7
87.5°	0.7	1.4	1.1	1.0	0.5	0.3	0.2	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	1.5
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: P710062

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

**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: P710062

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	280.9	280.9
0.5°	280.9	280.9
1°	280.9	280.9
1.5°	280.9	280.8
2°	280.9	280.8
2.5°	280.7	280.6
3°	280.6	280.5
3.5°	280.4	280.3
4°	280.1	280.1
4.5°	279.9	279.9
5°	279.7	279.6
5.5°	279.3	279.3
6°	279.0	279.0
6.5°	278.7	278.6
7°	278.2	278.1
7.5°	277.8	277.7
8°	277.3	277.1
8.5°	276.7	276.7
9°	276.2	276.1
9.5°	275.5	275.5
10°	274.9	274.8
10.5°	274.2	274.2
11°	273.5	273.3
11.5°	272.7	272.6
12°	271.8	271.7
12.5°	271.1	270.9
13°	270.1	270.0
13.5°	269.2	269.1
14°	268.2	268.2
14.5°	267.3	267.2
15°	266.3	266.1
15.5°	265.2	265.1
16°	264.1	264.1
16.5°	263.0	263.0
17°	261.8	261.7
17.5°	260.6	260.6
18°	259.3	259.4
18.5°	258.2	258.1
19°	256.8	256.7
19.5°	255.5	255.4
20°	254.1	254.0
20.5°	252.8	252.6
21°	251.3	251.1



TEST NUMBER: P710062  
CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
22.5°	246.6	246.3
23°	244.9	244.7
23.5°	243.3	243.0
24°	241.5	241.3
24.5°	239.9	239.6
25°	238.0	237.6
25.5°	236.2	235.8
26°	234.3	233.8
26.5°	232.4	231.9
27°	230.4	229.9
27.5°	228.4	227.9
28°	226.4	225.8
28.5°	224.3	223.6
29°	222.1	221.5
29.5°	219.9	219.3
30°	217.7	217.0
30.5°	215.5	214.7
31°	213.2	212.3
31.5°	210.8	210.0
32°	208.4	207.5
32.5°	206.1	205.0
33°	203.6	202.5
33.5°	201.1	200.0
34°	198.6	197.5
34.5°	196.1	194.8
35°	193.5	192.3
35.5°	190.8	189.6
36°	188.2	186.9
36.5°	185.6	184.2
37°	182.9	181.4
37.5°	180.2	178.7
38°	177.5	175.9
38.5°	174.7	173.0
39°	172.0	170.2
39.5°	169.1	167.4
40°	166.3	164.5
40.5°	163.6	161.7
41°	160.7	158.8
41.5°	157.9	155.9
42°	155.1	153.1
42.5°	152.3	150.2
43°	149.4	147.3
43.5°	146.6	144.6



TEST NUMBER: P710062

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	138.2	136.1
45.5°	135.4	133.3
46°	132.6	130.6
46.5°	129.9	127.9
47°	127.2	125.2
47.5°	124.5	122.5
48°	121.8	119.9
48.5°	119.2	117.3
49°	116.5	114.7
49.5°	113.9	112.1
50°	111.4	109.6
50.5°	108.9	107.0
51°	106.3	104.6
51.5°	103.8	102.1
52°	101.4	99.7
52.5°	98.9	97.3
53°	96.6	94.9
53.5°	94.2	92.7
54°	92.0	90.3
54.5°	89.6	88.1
55°	87.4	85.9
55.5°	85.1	83.7
56°	82.9	81.6
56.5°	80.8	79.5
57°	78.7	77.3
57.5°	76.6	75.3
58°	74.5	73.3
58.5°	72.4	71.3
59°	70.5	69.4
59.5°	68.5	67.4
60°	66.6	65.5
60.5°	64.7	63.7
61°	62.8	61.8
61.5°	61.0	60.0
62°	59.2	58.2
62.5°	57.5	56.5
63°	55.8	54.8
63.5°	54.1	53.1
64°	52.4	51.5
64.5°	50.6	49.8
65°	48.9	48.2
65.5°	47.2	46.6
66°	45.5	45.0



TEST NUMBER: P710062

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
67.5°	40.7	40.4
68°	39.1	38.9
68.5°	37.6	37.4
69°	36.1	36.0
69.5°	34.6	34.5
70°	33.2	33.1
70.5°	31.8	31.7
71°	30.4	30.4
71.5°	29.0	29.0
72°	27.7	27.7
72.5°	26.5	26.3
73°	25.2	25.0
73.5°	24.0	23.6
74°	22.8	22.3
74.5°	21.7	21.1
75°	20.5	19.9
75.5°	19.3	18.8
76°	18.2	17.6
76.5°	17.2	16.6
77°	16.1	15.6
77.5°	15.2	14.6
78°	14.2	13.6
78.5°	13.3	12.8
79°	12.5	11.9
79.5°	11.7	11.2
80°	10.9	10.5
80.5°	10.2	9.8
81°	9.5	9.1
81.5°	8.9	8.4
82°	8.2	7.6
82.5°	7.5	6.9
83°	6.7	6.1
83.5°	6.0	5.3
84°	5.3	4.6
84.5°	4.5	3.9
85°	3.8	3.1
85.5°	3.1	2.4
86°	2.5	1.9
86.5°	1.8	1.3
87°	1.4	1.0
87.5°	1.1	0.7
88°	0.8	0.6
88.5°	0.5	0.5

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

Scaled Data Report



TEST NUMBER: P710062  
CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-2700K

**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°	249.5	247.5	245.8	246.5	244.8	245.6	245.8	247.4	248.4	248.0	250.0
22°	247.9	245.9	244.2	244.9	243.2	244.0	244.3	245.9	246.9	246.4	248.6



44°	141.7	139.8	139.2	141.2	139.3	141.5	142.3	145.3	146.6	144.9	147.0
44.5°	138.9	137.1	136.5	138.5	136.5	138.8	139.6	142.6	143.8	142.2	144.2



66.5°	43.5	42.1	41.1	41.6	40.2	41.2	42.2	44.3	44.7	43.1	44.2
67°	41.9	40.6	39.5	40.0	38.6	39.5	40.6	42.6	42.9	41.4	42.5



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°	249.7	249.5
22°	248.2	247.9



44°	143.8	141.7
44.5°	141.0	138.9



66.5°	43.9	43.5
67°	42.3	41.9

Signify Classified - Internal  
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)