

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: P710083

Luminaire Tested: RA56LS9FSD2W1EWH-600lm-3000K

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P710083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2304449B001)  
Test Lab: EVERFINE  
Issue Date: 10/6/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: RA56LS9FSD2W1EWH-600lm-3000K  
Description: 5/6IN RETROFIT SELECTABLE LUMENS  
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

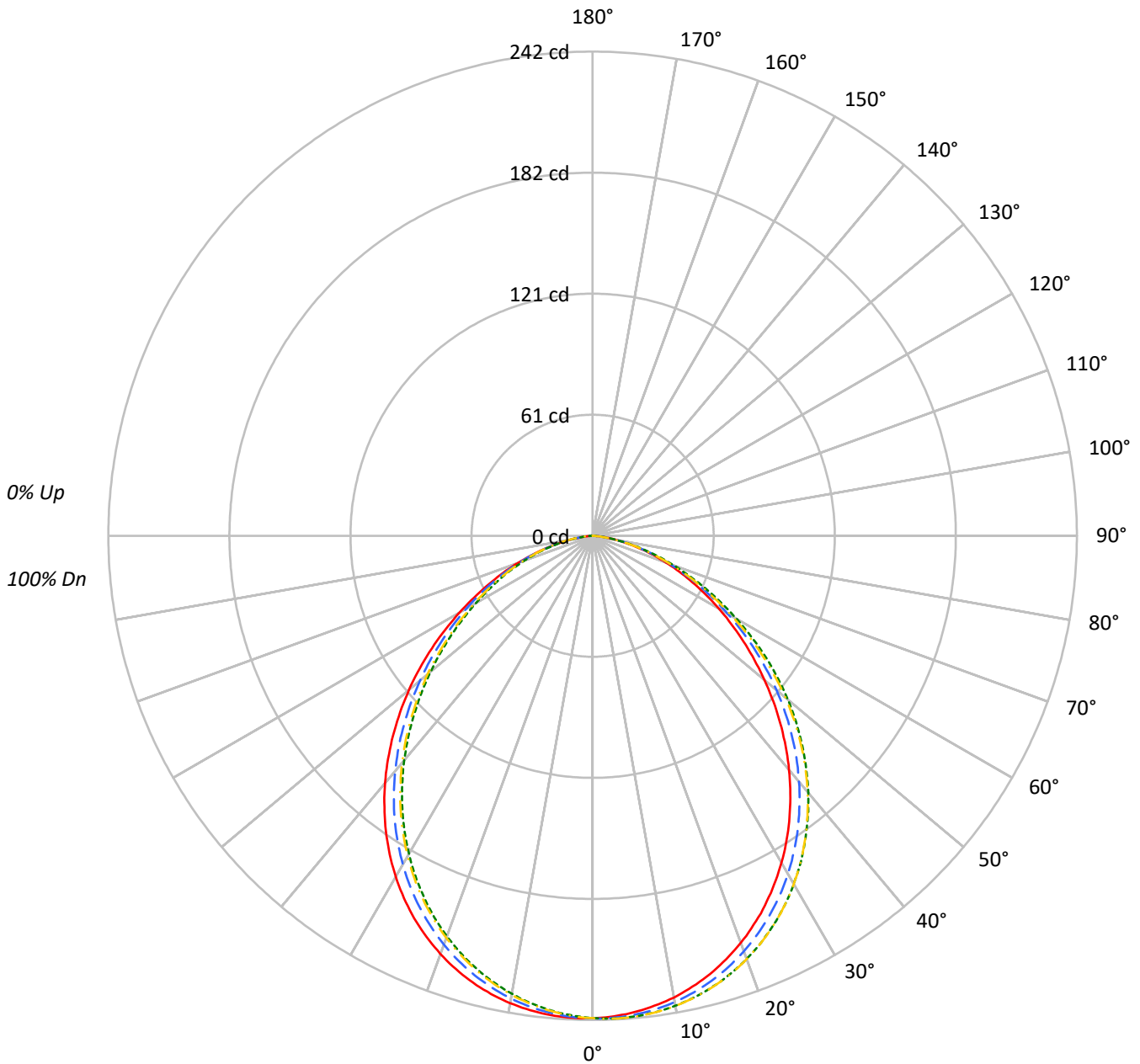
Lumens per Lamp: 930.22 (1 lamp)  
Luminaire Lumens: 570.0 lumens  
Efficiency: 61.3%  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P710083  
CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

### Luminous Intensity Polar Plot





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**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	0					
RCR	0	73	73	73	73	71	71	71	71	68	68	68	65	65	65	63	63	63	61							
	1	67	65	62	60	66	63	61	59	61	59	57	58	57	56	56	55	54	53							
	2	62	57	53	50	60	56	52	49	54	51	48	52	49	47	50	48	46	45							
	3	57	51	46	42	55	50	45	42	48	44	41	46	43	40	45	42	40	38							
	4	52	45	40	36	51	44	40	36	43	39	35	41	38	35	40	37	35	33							
	5	48	41	35	32	47	40	35	31	39	34	31	37	34	31	36	33	30	29							
	6	45	37	31	28	43	36	31	28	35	31	27	34	30	27	33	30	27	26							
	7	41	33	28	25	40	33	28	25	32	28	24	31	27	24	30	27	24	23							
	8	39	31	26	22	38	30	25	22	29	25	22	29	25	22	28	24	22	21							
	9	36	28	23	20	35	28	23	20	27	23	20	26	23	20	26	22	20	19							
	10	34	26	21	18	33	26	21	18	25	21	18	25	21	18	24	20	18	17							

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

	0°	90°	180°	270°
0°	13217	13217	13217	13217
5°	13152	13273	13235	13108
10°	13043	13276	13204	12942
15°	12872	13229	13116	12719
20°	12630	13126	12974	12426
25°	12327	12962	12763	12061
30°	11945	12723	12458	11622
35°	11484	12401	12053	11096
40°	10928	11994	11543	10477
45°	10288	11474	10931	9776
50°	9560	10857	10209	9006
55°	8793	10074	9376	8200
60°	7993	9111	8420	7390
65°	7147	8042	7407	6615
70°	6235	6892	6363	5786
75°	5168	5549	5105	4808
80°	3820	3852	3536	3473
85°	2076	2013	1572	2076

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 120°  
 Vertical Angle: 45°  
 Luminance: 11482 cd/sqm



TEST NUMBER: P710083  
 CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.8	4.0	2.4
10°-20°	64.5	11.3	6.9
20°-30°	95.3	16.7	10.2
30°-40°	109.8	19.3	11.8
40°-50°	105.7	18.5	11.4
50°-60°	85.3	15.0	9.2
60°-70°	56.0	9.8	6.0
70°-80°	26.2	4.6	2.8
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°	182.6	32.0	19.6
0°-40°	292.4	51.3	31.4
0°-60°	483.3	84.8	52.0
0°-90°	570.0	100.0	61.3
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	61.3

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	241	241	241	241	241	
5°	239	241	240	238	239	23
15°	227	233	231	224	227	64
25°	204	214	211	199	204	94
35°	172	185	180	166	172	107
45°	133	148	141	126	133	102
55°	92	105	98	86	92	82
65°	55	62	57	51	55	55
75°	24	26	24	23	24	26
85°	3	3	2	3	3	5
90°	0	0	0	0	0	



TEST NUMBER: P710083

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	241.1	241.1	241.1	241.1	241.1	241.1	241.1	241.1	241.1	241.1	241.1
0.5°	241.0	241.2	241.4	241.2	241.4	241.3	241.2	241.2	241.2	240.9	241.1
1°	240.9	241.2	241.4	241.3	241.5	241.4	241.2	241.1	241.0	240.7	240.9
1.5°	240.8	241.0	241.5	241.4	241.6	241.5	241.2	241.0	240.9	240.5	240.7
2°	240.6	241.0	241.4	241.5	241.6	241.5	241.2	241.0	240.7	240.2	240.5
2.5°	240.4	240.8	241.4	241.5	241.7	241.5	241.2	240.8	240.5	239.9	240.2
3°	240.2	240.7	241.3	241.5	241.7	241.5	241.1	240.7	240.3	239.6	239.9
3.5°	239.9	240.5	241.3	241.5	241.6	241.5	241.0	240.5	240.0	239.3	239.6
4°	239.7	240.3	241.1	241.4	241.6	241.3	240.8	240.3	239.7	239.0	239.2
4.5°	239.4	240.1	241.0	241.3	241.5	241.3	240.7	240.0	239.4	238.6	238.8
5°	239.0	239.9	240.8	241.2	241.4	241.2	240.5	239.8	239.0	238.2	238.4
5.5°	238.7	239.5	240.6	241.1	241.3	241.0	240.3	239.5	238.7	237.7	238.0
6°	238.3	239.2	240.3	240.9	241.1	240.8	240.0	239.2	238.3	237.2	237.6
6.5°	237.9	238.8	240.1	240.6	240.8	240.6	239.8	238.8	237.9	236.7	237.0
7°	237.4	238.5	239.8	240.4	240.6	240.4	239.5	238.5	237.4	236.2	236.6
7.5°	236.9	238.1	239.5	240.2	240.4	240.1	239.2	238.1	236.9	235.6	236.0
8°	236.5	237.7	239.1	239.9	240.1	239.8	238.8	237.6	236.4	235.1	235.4
8.5°	236.0	237.2	238.8	239.6	239.8	239.4	238.5	237.2	235.8	234.5	234.8
9°	235.5	236.8	238.4	239.3	239.5	239.2	238.0	236.7	235.3	233.9	234.2
9.5°	234.9	236.3	237.9	238.9	239.2	238.8	237.6	236.2	234.7	233.1	233.6
10°	234.3	235.7	237.5	238.5	238.8	238.4	237.2	235.6	234.0	232.5	232.9
10.5°	233.7	235.2	237.0	238.1	238.4	238.0	236.8	235.1	233.3	231.7	232.2
11°	233.0	234.5	236.5	237.6	237.9	237.6	236.2	234.5	232.6	231.0	231.4
11.5°	232.3	233.9	236.0	237.2	237.5	237.0	235.7	233.8	232.0	230.2	230.7
12°	231.6	233.3	235.4	236.7	236.9	236.6	235.2	233.2	231.2	229.4	229.9
12.5°	230.8	232.6	234.9	236.2	236.5	236.0	234.6	232.5	230.5	228.6	229.0
13°	230.1	231.9	234.2	235.6	235.9	235.5	233.9	231.9	229.6	227.7	228.1
13.5°	229.2	231.2	233.6	235.0	235.3	234.9	233.3	231.1	228.8	226.8	227.3
14°	228.5	230.4	232.9	234.4	234.8	234.3	232.6	230.4	227.9	226.0	226.4
14.5°	227.6	229.6	232.2	233.8	234.1	233.7	232.0	229.6	227.1	225.0	225.5
15°	226.8	228.8	231.5	233.1	233.5	233.0	231.1	228.8	226.2	224.1	224.5
15.5°	225.8	228.0	230.7	232.5	232.8	232.3	230.4	227.9	225.2	223.0	223.5
16°	224.9	227.1	229.9	231.8	232.1	231.6	229.6	227.1	224.3	222.0	222.6
16.5°	223.9	226.2	229.2	231.0	231.4	230.9	228.9	226.1	223.3	221.0	221.5
17°	222.9	225.3	228.3	230.2	230.6	230.1	228.0	225.2	222.2	219.9	220.5
17.5°	221.9	224.3	227.5	229.5	229.8	229.3	227.1	224.3	221.2	218.8	219.4
18°	220.9	223.4	226.6	228.6	229.0	228.4	226.2	223.4	220.1	217.7	218.2
18.5°	219.8	222.4	225.6	227.8	228.2	227.7	225.3	222.3	219.0	216.6	217.1
19°	218.7	221.4	224.7	226.9	227.3	226.7	224.4	221.3	217.9	215.4	215.9
19.5°	217.6	220.2	223.7	226.0	226.4	225.8	223.4	220.2	216.8	214.2	214.7
20°	216.5	219.3	222.7	225.0	225.5	224.8	222.4	219.2	215.6	213.0	213.5
20.5°	215.3	218.1	221.7	224.1	224.5	224.0	221.3	218.1	214.4	211.7	212.3
21°	214.2	217.0	220.6	223.1	223.5	222.9	220.2	216.9	213.2	210.4	211.1

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CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	210.4	213.5	217.4	220.1	220.4	219.9	217.0	213.3	209.4	206.5	207.1
23°	209.2	212.3	216.2	218.9	219.3	218.7	215.8	212.1	208.1	205.1	205.7
23.5°	207.8	211.0	215.1	217.8	218.2	217.6	214.7	210.8	206.8	203.7	204.4
24°	206.6	209.7	213.9	216.7	217.1	216.4	213.4	209.6	205.3	202.4	203.0
24.5°	205.2	208.5	212.6	215.5	215.9	215.4	212.2	208.2	204.0	200.9	201.6
25°	203.8	207.2	211.4	214.3	214.7	214.1	211.0	207.0	202.6	199.4	200.1
25.5°	202.3	205.8	210.1	213.2	213.5	212.9	209.6	205.6	201.2	197.9	198.6
26°	200.9	204.4	208.8	211.9	212.3	211.6	208.3	204.2	199.6	196.5	197.2
26.5°	199.5	203.1	207.5	210.6	211.0	210.4	206.9	202.7	198.2	194.8	195.7
27°	198.0	201.7	206.2	209.3	209.7	209.0	205.6	201.3	196.7	193.4	194.1
27.5°	196.5	200.2	204.8	208.0	208.4	207.7	204.2	199.9	195.2	191.8	192.6
28°	195.0	198.8	203.4	206.6	207.1	206.3	202.7	198.4	193.6	190.2	191.0
28.5°	193.5	197.3	202.0	205.3	205.7	205.0	201.3	196.9	192.0	188.5	189.4
29°	191.9	195.8	200.6	203.9	204.4	203.5	199.9	195.4	190.4	186.9	187.7
29.5°	190.3	194.3	199.1	202.5	203.0	202.1	198.4	193.8	188.9	185.3	186.1
30°	188.7	192.7	197.6	201.0	201.5	200.6	196.8	192.2	187.2	183.6	184.4
30.5°	187.1	191.1	196.2	199.5	199.9	199.1	195.2	190.6	185.5	181.9	182.8
31°	185.5	189.5	194.5	198.1	198.5	197.6	193.6	189.0	183.8	180.1	181.0
31.5°	183.8	188.0	193.0	196.6	197.0	196.1	192.1	187.3	182.1	178.4	179.3
32°	182.1	186.2	191.4	195.0	195.5	194.5	190.4	185.7	180.4	176.7	177.5
32.5°	180.4	184.7	189.8	193.5	193.8	192.9	188.7	184.0	178.6	174.9	175.8
33°	178.7	182.9	188.1	191.9	192.3	191.3	187.0	182.3	176.9	173.1	174.0
33.5°	176.9	181.3	186.5	190.2	190.7	189.7	185.3	180.6	175.1	171.3	172.2
34°	175.1	179.5	184.9	188.6	189.0	187.9	183.6	178.8	173.3	169.5	170.4
34.5°	173.4	177.9	183.2	186.9	187.3	186.2	181.9	177.0	171.5	167.6	168.6
35°	171.6	176.0	181.5	185.3	185.8	184.6	180.1	175.3	169.6	165.8	166.7
35.5°	169.7	174.3	179.7	183.6	184.0	182.8	178.3	173.5	167.8	163.9	164.8
36°	167.9	172.4	178.0	181.9	182.3	181.1	176.5	171.7	165.9	162.0	163.0
36.5°	166.1	170.7	176.2	180.2	180.6	179.3	174.7	169.8	164.0	160.1	161.1
37°	164.2	168.8	174.4	178.4	178.8	177.4	172.8	167.9	162.1	158.2	159.2
37.5°	162.2	167.0	172.7	176.7	177.0	175.7	170.9	166.0	160.2	156.2	157.2
38°	160.4	165.1	170.8	175.0	175.2	173.8	169.1	164.1	158.3	154.3	155.3
38.5°	158.5	163.3	169.0	173.1	173.4	172.0	167.2	162.2	156.3	152.3	153.4
39°	156.6	161.3	167.1	171.2	171.6	170.1	165.2	160.3	154.4	150.4	151.4
39.5°	154.6	159.5	165.3	169.4	169.7	168.2	163.3	158.4	152.5	148.4	149.5
40°	152.7	157.5	163.4	167.6	167.9	166.2	161.3	156.5	150.4	146.4	147.5
40.5°	150.8	155.6	161.5	165.7	166.0	164.3	159.3	154.5	148.5	144.4	145.5
41°	148.7	153.6	159.6	163.8	164.1	162.4	157.4	152.5	146.5	142.4	143.5
41.5°	146.8	151.7	157.7	161.8	162.1	160.4	155.4	150.4	144.4	140.4	141.5
42°	144.8	149.7	155.6	159.9	160.2	158.4	153.4	148.5	142.5	138.4	139.5
42.5°	142.8	147.7	153.7	158.0	158.2	156.5	151.3	146.5	140.5	136.3	137.5
43°	140.8	145.7	151.7	156.0	156.3	154.4	149.2	144.5	138.4	134.3	135.4
43.5°	138.7	143.7	149.8	154.1	154.2	152.4	147.2	142.5	136.4	132.3	133.5



TEST NUMBER: P710083

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	132.7	137.7	143.7	148.0	148.1	146.2	141.0	136.3	130.2	126.1	127.3
45.5°	130.6	135.6	141.7	146.0	146.1	144.2	138.9	134.2	128.2	124.0	125.2
46°	128.6	133.5	139.7	144.0	143.9	142.0	136.8	132.1	126.1	122.0	123.2
46.5°	126.5	131.5	137.7	141.9	141.7	140.0	134.6	130.1	124.0	119.9	121.2
47°	124.5	129.5	135.5	139.9	139.7	137.9	132.5	128.1	121.9	117.9	119.2
47.5°	122.4	127.4	133.4	137.9	137.5	135.8	130.4	126.0	119.9	115.9	117.1
48°	120.3	125.3	131.3	135.8	135.3	133.6	128.3	123.9	117.8	113.8	115.1
48.5°	118.3	123.2	129.3	133.6	133.1	131.5	126.1	121.8	115.7	111.7	113.1
49°	116.3	121.1	127.1	131.6	130.9	129.3	123.9	119.7	113.6	109.6	111.1
49.5°	114.2	119.1	124.9	129.5	128.6	127.1	121.8	117.7	111.6	107.7	109.1
50°	112.1	117.0	122.8	127.3	126.4	125.0	119.7	115.6	109.6	105.6	107.0
50.5°	110.1	114.9	120.7	125.3	124.1	122.7	117.6	113.6	107.5	103.6	105.0
51°	108.0	112.8	118.5	123.2	121.9	120.4	115.4	111.5	105.5	101.6	103.0
51.5°	106.0	110.8	116.4	120.9	119.7	118.2	113.2	109.5	103.4	99.6	101.0
52°	103.9	108.7	114.2	118.7	117.5	115.9	111.1	107.4	101.5	97.6	99.0
52.5°	102.0	106.6	112.0	116.6	115.1	113.7	108.9	105.3	99.4	95.6	97.0
53°	100.1	104.5	109.9	114.3	112.8	111.5	106.7	103.3	97.4	93.6	95.0
53.5°	98.0	102.5	107.7	112.1	110.5	109.2	104.6	101.2	95.4	91.6	93.1
54°	96.0	100.4	105.5	109.9	108.2	107.0	102.4	99.2	93.4	89.7	91.1
54.5°	94.0	98.3	103.4	107.7	105.9	104.7	100.3	97.1	91.4	87.7	89.1
55°	92.0	96.2	101.2	105.4	103.6	102.5	98.1	95.1	89.4	85.8	87.2
55.5°	90.0	94.2	99.0	103.2	101.3	100.1	95.9	93.0	87.5	83.9	85.3
56°	88.1	92.2	96.8	101.0	99.0	97.9	93.8	91.1	85.5	82.0	83.4
56.5°	86.1	90.1	94.6	98.7	96.6	95.7	91.6	89.0	83.6	80.1	81.4
57°	84.1	88.2	92.5	96.5	94.4	93.5	89.5	87.0	81.7	78.3	79.6
57.5°	82.2	86.1	90.3	94.2	92.1	91.2	87.3	85.0	79.8	76.4	77.7
58°	80.3	84.1	88.2	92.0	89.9	89.0	85.2	83.0	77.9	74.5	75.8
58.5°	78.5	82.1	86.0	89.7	87.7	86.7	83.0	81.1	76.0	72.7	74.0
59°	76.6	80.1	83.8	87.5	85.4	84.5	81.0	79.1	74.2	70.9	72.2
59.5°	74.7	78.1	81.8	85.3	83.2	82.4	78.9	77.1	72.4	69.1	70.4
60°	72.9	76.1	79.7	83.1	81.0	80.2	76.8	75.1	70.5	67.4	68.6
60.5°	71.0	74.2	77.6	80.9	78.8	78.0	74.8	73.2	68.8	65.6	66.8
61°	69.2	72.2	75.5	78.7	76.6	75.9	72.7	71.3	67.0	63.9	65.1
61.5°	67.3	70.3	73.5	76.6	74.5	73.8	70.7	69.4	65.2	62.1	63.3
62°	65.5	68.4	71.4	74.4	72.3	71.7	68.7	67.5	63.4	60.4	61.6
62.5°	63.8	66.5	69.4	72.3	70.2	69.6	66.7	65.6	61.7	58.8	60.0
63°	62.0	64.6	67.4	70.2	68.1	67.6	64.8	63.8	60.0	57.1	58.3
63.5°	60.3	62.7	65.4	68.2	66.1	65.5	62.8	61.9	58.3	55.6	56.7
64°	58.5	60.9	63.5	66.1	64.0	63.5	60.9	60.1	56.7	54.1	55.0
64.5°	56.8	59.0	61.5	64.1	62.1	61.5	59.0	58.3	55.2	52.6	53.3
65°	55.1	57.3	59.6	62.0	60.1	59.5	57.1	56.5	53.6	51.0	51.8
65.5°	53.4	55.6	57.7	60.0	58.0	57.6	55.3	54.7	52.1	49.5	50.2
66°	51.7	53.9	55.9	58.1	56.2	55.7	53.6	52.9	50.4	47.9	48.6





TEST NUMBER: P710083

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	46.8	48.8	50.3	52.2	50.7	50.0	48.3	47.7	45.7	43.4	44.1
68°	45.2	47.1	48.6	50.4	48.9	48.2	46.6	46.0	44.1	41.8	42.6
68.5°	43.6	45.4	46.8	48.4	47.0	46.4	44.8	44.3	42.6	40.4	41.1
69°	42.0	43.8	45.0	46.6	45.2	44.6	43.0	42.6	41.0	39.0	39.7
69.5°	40.5	42.1	43.3	44.8	43.4	42.8	41.4	41.0	39.5	37.5	38.2
70°	38.9	40.5	41.6	43.0	41.7	41.1	39.7	39.4	38.0	36.1	36.8
70.5°	37.4	38.8	39.9	41.2	39.9	39.4	38.1	37.7	36.5	34.7	35.4
71°	35.9	37.2	38.3	39.4	38.1	37.6	36.4	36.1	35.0	33.3	34.0
71.5°	34.4	35.7	36.6	37.8	36.4	36.0	34.8	34.5	33.5	31.9	32.7
72°	32.9	34.1	35.0	36.0	34.7	34.4	33.2	33.0	32.1	30.6	31.3
72.5°	31.5	32.5	33.4	34.3	33.1	32.7	31.7	31.5	30.7	29.2	30.0
73°	30.0	31.1	31.8	32.7	31.4	31.1	30.1	29.9	29.2	27.9	28.7
73.5°	28.6	29.6	30.3	31.0	29.9	29.5	28.6	28.5	27.9	26.6	27.4
74°	27.2	28.1	28.7	29.4	28.3	27.9	27.1	26.9	26.5	25.3	26.1
74.5°	25.8	26.6	27.2	27.8	26.7	26.4	25.6	25.5	25.1	24.0	24.9
75°	24.4	25.2	25.8	26.2	25.2	24.9	24.1	24.1	23.7	22.7	23.7
75.5°	23.1	23.8	24.3	24.7	23.6	23.4	22.7	22.6	22.4	21.4	22.4
76°	21.8	22.4	22.8	23.2	22.2	22.0	21.3	21.2	21.1	20.2	21.2
76.5°	20.5	21.1	21.4	21.7	20.7	20.6	19.9	19.9	19.8	19.0	20.0
77°	19.2	19.7	20.0	20.2	19.3	19.2	18.6	18.6	18.5	17.7	18.8
77.5°	17.9	18.4	18.7	18.8	17.9	17.8	17.3	17.2	17.2	16.5	17.7
78°	16.7	17.1	17.4	17.4	16.5	16.4	16.0	16.0	16.0	15.4	16.6
78.5°	15.5	15.9	16.1	16.0	15.2	15.1	14.7	14.7	14.8	14.2	15.5
79°	14.3	14.6	14.8	14.7	13.9	13.9	13.5	13.5	13.6	13.1	14.4
79.5°	13.2	13.5	13.6	13.4	12.7	12.7	12.3	12.3	12.4	12.0	13.3
80°	12.1	12.3	12.4	12.2	11.5	11.5	11.2	11.2	11.2	11.0	12.2
80.5°	11.0	11.2	11.2	11.0	10.3	10.3	10.1	10.1	10.1	10.0	11.1
81°	10.0	10.1	10.0	9.8	9.2	9.2	9.0	9.1	9.1	9.0	10.1
81.5°	9.0	9.1	8.9	8.8	8.2	8.2	8.0	8.1	8.1	8.1	9.1
82°	8.1	8.1	7.9	7.7	7.2	7.2	6.9	7.2	7.2	7.2	8.2
82.5°	7.2	7.2	6.9	6.8	6.3	6.3	5.8	6.3	6.4	6.4	7.3
83°	6.3	6.3	6.1	5.9	5.4	5.4	4.8	5.5	5.6	5.6	6.5
83.5°	5.5	5.6	5.3	5.1	4.7	4.7	4.1	4.7	4.9	5.0	5.7
84°	4.7	4.8	4.6	4.4	4.0	4.0	3.4	4.0	4.3	4.4	5.0
84.5°	3.9	4.1	4.0	3.7	3.5	3.3	2.9	3.4	3.7	3.8	4.5
85°	3.3	3.5	3.4	3.2	3.0	2.8	2.5	2.9	3.2	3.3	3.9
85.5°	2.9	3.0	2.9	2.8	2.5	2.3	2.0	2.4	2.8	2.8	3.4
86°	2.4	2.5	2.4	2.3	2.2	1.9	1.5	2.0	2.3	2.4	2.9
86.5°	1.9	2.1	2.1	2.0	1.8	1.5	0.9	1.5	1.9	2.0	2.5
87°	1.4	1.7	1.7	1.6	1.3	1.1	0.6	1.1	1.5	1.6	2.1
87.5°	1.1	1.2	1.3	1.1	0.9	0.8	0.4	0.6	1.1	1.4	1.7
88°	0.9	0.9	1.0	0.8	0.6	0.5	0.3	0.3	0.9	1.3	1.5
88.5°	0.5	0.7	0.6	0.4	0.2	0.2	0.2	0.3	0.7	1.0	1.3



TEST NUMBER: P710083

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2



TEST NUMBER: P710083

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	241.1	241.1
0.5°	241.0	241.0
1°	240.9	240.9
1.5°	240.7	240.8
2°	240.4	240.6
2.5°	240.2	240.4
3°	239.9	240.2
3.5°	239.6	239.9
4°	239.2	239.7
4.5°	238.9	239.4
5°	238.5	239.0
5.5°	238.1	238.7
6°	237.7	238.3
6.5°	237.2	237.9
7°	236.7	237.4
7.5°	236.1	236.9
8°	235.6	236.5
8.5°	235.0	236.0
9°	234.4	235.5
9.5°	233.8	234.9
10°	233.1	234.3
10.5°	232.4	233.7
11°	231.7	233.0
11.5°	230.9	232.3
12°	230.2	231.6
12.5°	229.4	230.8
13°	228.5	230.1
13.5°	227.7	229.2
14°	226.8	228.5
14.5°	225.9	227.6
15°	225.0	226.8
15.5°	224.0	225.8
16°	223.0	224.9
16.5°	222.0	223.9
17°	220.9	222.9
17.5°	219.8	221.9
18°	218.8	220.9
18.5°	217.7	219.8
19°	216.6	218.7
19.5°	215.3	217.6
20°	214.2	216.5
20.5°	213.0	215.3
21°	211.7	214.2



TEST NUMBER: P710083

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
22.5°	207.8	210.4
23°	206.5	209.2
23.5°	205.1	207.8
24°	203.8	206.6
24.5°	202.3	205.2
25°	200.9	203.8
25.5°	199.5	202.3
26°	198.0	200.9
26.5°	196.5	199.5
27°	195.0	198.0
27.5°	193.4	196.5
28°	191.9	195.0
28.5°	190.2	193.5
29°	188.7	191.9
29.5°	187.0	190.3
30°	185.4	188.7
30.5°	183.7	187.1
31°	182.0	185.5
31.5°	180.3	183.8
32°	178.6	182.1
32.5°	176.8	180.4
33°	175.1	178.7
33.5°	173.3	176.9
34°	171.5	175.1
34.5°	169.7	173.4
35°	167.9	171.6
35.5°	166.0	169.7
36°	164.1	167.9
36.5°	162.3	166.1
37°	160.4	164.2
37.5°	158.5	162.2
38°	156.5	160.4
38.5°	154.6	158.5
39°	152.7	156.6
39.5°	150.7	154.6
40°	148.7	152.7
40.5°	146.7	150.8
41°	144.7	148.7
41.5°	142.8	146.8
42°	140.8	144.8
42.5°	138.7	142.8
43°	136.7	140.8
43.5°	134.7	138.7



TEST NUMBER: P710083

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	128.6	132.7
45.5°	126.5	130.6
46°	124.5	128.6
46.5°	122.4	126.5
47°	120.4	124.5
47.5°	118.4	122.4
48°	116.3	120.3
48.5°	114.2	118.3
49°	112.2	116.3
49.5°	110.1	114.2
50°	108.2	112.1
50.5°	106.1	110.1
51°	104.1	108.0
51.5°	102.0	106.0
52°	100.0	103.9
52.5°	98.0	102.0
53°	96.0	100.1
53.5°	94.0	98.0
54°	92.1	96.0
54.5°	90.1	94.0
55°	88.1	92.0
55.5°	86.1	90.0
56°	84.2	88.1
56.5°	82.3	86.1
57°	80.4	84.1
57.5°	78.5	82.2
58°	76.7	80.3
58.5°	74.7	78.5
59°	72.9	76.6
59.5°	71.1	74.7
60°	69.3	72.9
60.5°	67.5	71.0
61°	65.8	69.2
61.5°	64.0	67.3
62°	62.3	65.5
62.5°	60.6	63.8
63°	58.9	62.0
63.5°	57.2	60.3
64°	55.7	58.5
64.5°	54.2	56.8
65°	52.7	55.1
65.5°	51.1	53.4
66°	49.5	51.7



TEST NUMBER: P710083

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
67.5°	44.9	46.8
68°	43.3	45.2
68.5°	41.8	43.6
69°	40.4	42.0
69.5°	38.9	40.5
70°	37.4	38.9
70.5°	36.0	37.4
71°	34.6	35.9
71.5°	33.2	34.4
72°	31.8	32.9
72.5°	30.4	31.5
73°	29.0	30.0
73.5°	27.7	28.6
74°	26.3	27.2
74.5°	25.0	25.8
75°	23.7	24.4
75.5°	22.4	23.1
76°	21.2	21.8
76.5°	19.9	20.5
77°	18.7	19.2
77.5°	17.5	17.9
78°	16.3	16.7
78.5°	15.1	15.5
79°	14.0	14.3
79.5°	12.9	13.2
80°	11.8	12.1
80.5°	10.8	11.0
81°	9.8	10.0
81.5°	8.8	9.0
82°	7.9	8.1
82.5°	7.1	7.2
83°	6.2	6.3
83.5°	5.5	5.5
84°	4.8	4.7
84.5°	4.2	3.9
85°	3.6	3.3
85.5°	3.1	2.9
86°	2.6	2.4
86.5°	2.2	1.9
87°	1.8	1.4
87.5°	1.3	1.1
88°	0.9	0.9
88.5°	0.8	0.5



TEST NUMBER: P710083  
CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	0.2	0.2

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°	212.9	215.8	219.6	222.1	222.5	221.9	219.2	215.7	211.9	209.1	209.7
22°	211.7	214.7	218.5	221.1	221.5	220.9	218.1	214.6	210.6	207.9	208.4



44°	136.7	141.7	147.8	152.0	152.2	150.3	145.1	140.4	134.3	130.2	131.4
44.5°	134.7	139.6	145.8	150.1	150.2	148.3	143.1	138.4	132.3	128.2	129.3



66.5°	50.1	52.2	54.0	56.1	54.4	53.8	51.9	51.2	48.9	46.4	47.1
67°	48.5	50.5	52.1	54.1	52.5	51.9	50.1	49.4	47.3	44.9	45.5



89°	0.4	0.5	0.3	0.1	0.1	0.1	0.1	0.2	0.4	0.7	1.0
89.5°	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.6



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

Scaled Data Report





21.5°	210.5	212.9
22°	209.2	211.7



44°	132.7	136.7
44.5°	130.6	134.7

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

Scaled Data Report



66.5°	48.0	50.1
67°	46.4	48.5



89°	0.6	0.4
89.5°	0.4	0.3

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

Scaled Data Report



(END OF REPORT)