

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: P710082

Luminaire Tested: RA56LS9FSD2W1EWH-600lm-2700K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710082
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-2700K
Description: 5/6IN RETROFIT SELECTABLE LUMENS
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 2700K CCT
Ballast/Driver: -

Summary

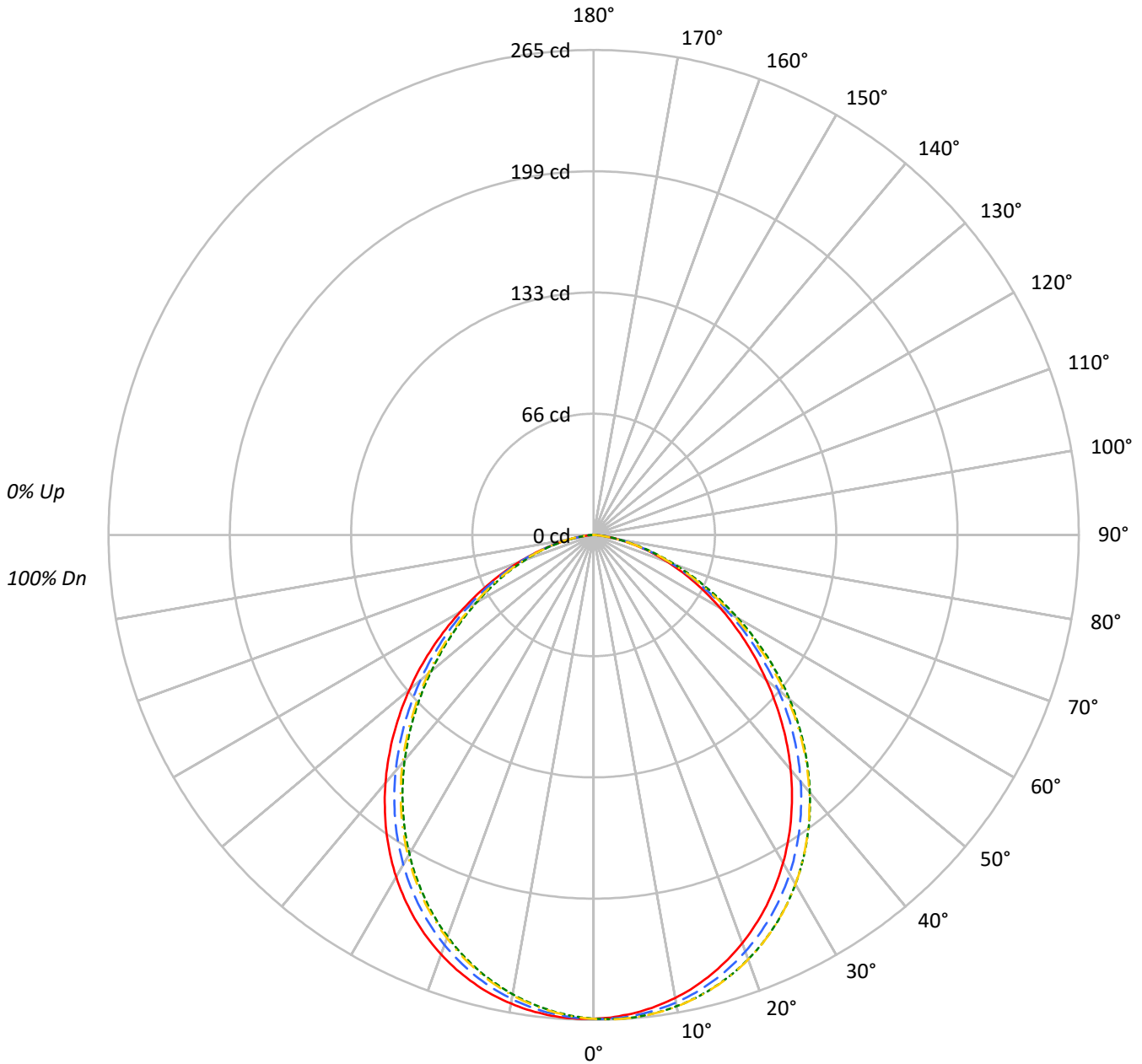
Lumens per Lamp: 930.22 (1 lamp)
Luminaire Lumens: 625.0 lumens
Efficiency: 67.2%
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 5.8
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					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	80	80	80	80	78	78	78	78	75	75	75	71	71	71	69	69	69	67							
	1	74	71	68	66	72	69	67	65	67	65	63	64	62	61	62	60	59	58							
	2	68	63	58	55	66	61	57	54	59	56	53	57	54	52	55	53	51	49							
	3	62	55	50	46	60	54	50	46	52	48	45	51	47	44	49	46	44	42							
	4	57	50	44	40	56	49	43	39	47	42	39	45	42	38	44	41	38	37							
	5	53	44	39	35	51	44	38	34	42	38	34	41	37	34	40	36	33	32							
	6	49	40	35	30	48	40	34	30	38	34	30	37	33	30	36	32	29	28							
	7	45	37	31	27	44	36	31	27	35	30	27	34	30	27	33	29	26	25							
	8	42	34	28	24	41	33	28	24	32	27	24	31	27	24	31	27	24	23							
	9	40	31	26	22	39	30	25	22	30	25	22	29	25	22	28	24	22	20							
	10	37	29	23	20	36	28	23	20	28	23	20	27	23	20	26	22	20	19							

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14494	14494	14494	14494
5°	14423	14555	14511	14368
10°	14301	14557	14473	14189
15°	14109	14506	14381	13944
20°	13850	14392	14229	13622
25°	13519	14215	13991	13229
30°	13097	13952	13660	12742
35°	12588	13599	13217	12167
40°	11980	13146	12659	11493
45°	11280	12583	11986	10714
50°	10490	11906	11189	9876
55°	9644	11049	10284	8994
60°	8760	9988	9232	8102
65°	7835	8821	8120	7264
70°	6844	7565	6972	6347
75°	5676	6079	5613	5274
80°	4167	4230	3883	3820
85°	2327	2201	1698	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 120°

Vertical Angle: 45°

Luminance: 12590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.0	4.0	2.7
10°-20°	70.7	11.3	7.6
20°-30°	104.5	16.7	11.2
30°-40°	120.4	19.3	12.9
40°-50°	115.9	18.5	12.5
50°-60°	93.5	15.0	10.1
60°-70°	61.4	9.8	6.6
70°-80°	28.7	4.6	3.1
80°-90°	4.9	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°	200.2	32.0	21.5
0°-40°	320.6	51.3	34.5
0°-60°	530.0	84.8	57.0
0°-90°	625.0	100.0	67.2
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°	625.0	100.0	67.2

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	264	264	264	264	264	
5°	262	264	264	261	262	25
15°	249	256	253	246	249	70
25°	224	235	231	219	224	103
35°	188	203	198	182	188	117
45°	146	162	155	138	146	112
55°	101	116	108	94	101	90
65°	60	68	63	56	60	60
75°	27	29	26	25	27	29
85°	4	4	3	4	4	5
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°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4
0.5°	264.3	264.5	264.7	264.4	264.7	264.6	264.5	264.4	264.5	264.1	264.4
1°	264.2	264.4	264.7	264.6	264.8	264.7	264.5	264.4	264.3	263.9	264.2
1.5°	264.1	264.3	264.8	264.7	264.9	264.8	264.5	264.3	264.2	263.7	263.9
2°	263.9	264.2	264.7	264.8	265.0	264.8	264.5	264.3	263.9	263.4	263.7
2.5°	263.6	264.0	264.7	264.8	265.0	264.8	264.4	264.1	263.7	263.1	263.4
3°	263.4	263.9	264.6	264.8	265.0	264.8	264.4	263.9	263.4	262.8	263.0
3.5°	263.0	263.7	264.6	264.8	264.9	264.8	264.3	263.7	263.2	262.4	262.7
4°	262.8	263.5	264.4	264.7	264.9	264.6	264.1	263.5	262.8	262.0	262.3
4.5°	262.5	263.3	264.2	264.6	264.8	264.6	263.9	263.2	262.5	261.6	261.9
5°	262.1	263.0	264.0	264.5	264.6	264.4	263.7	262.9	262.1	261.1	261.4
5.5°	261.7	262.6	263.8	264.3	264.5	264.3	263.5	262.6	261.8	260.6	261.0
6°	261.3	262.3	263.5	264.1	264.3	264.0	263.2	262.3	261.3	260.1	260.5
6.5°	260.8	261.9	263.3	263.9	264.1	263.8	262.9	261.9	260.8	259.5	259.9
7°	260.4	261.5	262.9	263.6	263.8	263.6	262.6	261.5	260.3	259.0	259.4
7.5°	259.8	261.0	262.6	263.4	263.6	263.3	262.2	261.0	259.8	258.3	258.8
8°	259.3	260.6	262.2	263.0	263.2	262.9	261.9	260.6	259.2	257.8	258.1
8.5°	258.7	260.1	261.8	262.7	263.0	262.6	261.5	260.0	258.6	257.1	257.5
9°	258.2	259.6	261.4	262.3	262.6	262.2	261.0	259.6	258.0	256.4	256.8
9.5°	257.5	259.1	260.9	261.9	262.3	261.8	260.6	259.0	257.3	255.6	256.1
10°	256.9	258.5	260.4	261.5	261.8	261.4	260.0	258.4	256.6	254.9	255.3
10.5°	256.2	257.8	259.9	261.1	261.4	261.0	259.6	257.8	255.8	254.0	254.6
11°	255.5	257.2	259.3	260.6	260.9	260.5	259.0	257.1	255.0	253.3	253.8
11.5°	254.7	256.5	258.8	260.1	260.4	259.9	258.4	256.4	254.3	252.4	252.9
12°	254.0	255.8	258.1	259.5	259.8	259.4	257.8	255.7	253.5	251.5	252.0
12.5°	253.1	255.1	257.5	259.0	259.3	258.8	257.2	255.0	252.7	250.6	251.1
13°	252.3	254.3	256.8	258.4	258.7	258.2	256.5	254.2	251.8	249.7	250.2
13.5°	251.4	253.5	256.1	257.7	258.0	257.6	255.8	253.4	250.9	248.7	249.3
14°	250.5	252.6	255.4	257.1	257.4	256.9	255.1	252.6	249.9	247.8	248.2
14.5°	249.6	251.8	254.6	256.4	256.7	256.2	254.3	251.7	249.0	246.7	247.3
15°	248.6	250.9	253.8	255.6	256.0	255.5	253.4	250.9	248.0	245.7	246.2
15.5°	247.6	250.0	253.0	255.0	255.3	254.8	252.7	249.9	247.0	244.6	245.1
16°	246.6	249.0	252.1	254.1	254.5	254.0	251.8	249.0	245.9	243.4	244.0
16.5°	245.5	248.1	251.3	253.3	253.7	253.2	250.9	248.0	244.8	242.3	242.9
17°	244.4	247.0	250.3	252.4	252.8	252.3	250.0	247.0	243.7	241.1	241.7
17.5°	243.3	245.9	249.4	251.6	252.0	251.5	249.1	245.9	242.5	239.9	240.5
18°	242.2	244.9	248.5	250.7	251.1	250.5	248.0	244.9	241.4	238.7	239.3
18.5°	241.0	243.9	247.4	249.8	250.2	249.7	247.1	243.8	240.2	237.5	238.1
19°	239.8	242.7	246.4	248.8	249.2	248.6	246.0	242.6	238.9	236.2	236.8
19.5°	238.6	241.5	245.3	247.8	248.3	247.6	245.0	241.5	237.7	234.8	235.5
20°	237.4	240.4	244.2	246.7	247.2	246.5	243.9	240.3	236.4	233.5	234.1
20.5°	236.1	239.2	243.1	245.8	246.1	245.6	242.7	239.1	235.1	232.1	232.7
21°	234.8	237.9	241.9	244.7	245.1	244.5	241.5	237.9	233.7	230.8	231.4



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CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	230.7	234.1	238.4	241.3	241.6	241.1	237.9	233.9	229.6	226.4	227.1
23°	229.4	232.8	237.1	240.0	240.5	239.8	236.7	232.6	228.2	224.9	225.6
23.5°	227.9	231.3	235.8	238.9	239.2	238.6	235.4	231.1	226.7	223.3	224.1
24°	226.5	229.9	234.5	237.6	238.1	237.3	234.0	229.8	225.2	221.9	222.6
24.5°	225.0	228.6	233.2	236.3	236.7	236.2	232.7	228.3	223.7	220.3	221.1
25°	223.5	227.2	231.8	235.0	235.5	234.7	231.3	226.9	222.1	218.7	219.4
25.5°	221.9	225.7	230.4	233.8	234.1	233.4	229.9	225.4	220.6	217.0	217.8
26°	220.3	224.2	229.0	232.3	232.8	232.0	228.4	223.9	218.9	215.4	216.2
26.5°	218.7	222.6	227.6	230.9	231.4	230.7	226.9	222.3	217.3	213.6	214.6
27°	217.1	221.1	226.1	229.5	229.9	229.2	225.4	220.8	215.6	212.0	212.8
27.5°	215.5	219.5	224.6	228.1	228.6	227.7	223.9	219.1	214.0	210.3	211.1
28°	213.8	217.9	223.0	226.6	227.1	226.2	222.3	217.5	212.3	208.6	209.4
28.5°	212.1	216.3	221.5	225.1	225.6	224.7	220.8	215.9	210.6	206.7	207.6
29°	210.4	214.7	219.9	223.5	224.1	223.1	219.2	214.2	208.8	205.0	205.9
29.5°	208.6	213.0	218.3	222.0	222.5	221.6	217.5	212.5	207.1	203.1	204.0
30°	206.9	211.3	216.6	220.4	221.0	219.9	215.8	210.8	205.3	201.3	202.2
30.5°	205.2	209.6	215.1	218.8	219.2	218.3	214.1	209.0	203.4	199.4	200.4
31°	203.4	207.8	213.3	217.2	217.7	216.7	212.3	207.2	201.5	197.5	198.5
31.5°	201.5	206.1	211.6	215.6	216.0	215.0	210.6	205.4	199.7	195.6	196.6
32°	199.7	204.2	209.8	213.8	214.3	213.3	208.7	203.6	197.8	193.7	194.7
32.5°	197.8	202.5	208.1	212.1	212.5	211.5	206.9	201.7	195.8	191.8	192.8
33°	195.9	200.6	206.3	210.4	210.9	209.7	205.1	199.9	194.0	189.8	190.8
33.5°	194.0	198.7	204.5	208.6	209.1	208.0	203.2	198.0	192.0	187.8	188.9
34°	192.0	196.8	202.7	206.8	207.3	206.0	201.3	196.0	190.0	185.8	186.9
34.5°	190.1	195.0	200.9	205.0	205.4	204.2	199.4	194.1	188.0	183.8	184.9
35°	188.1	193.0	199.0	203.2	203.7	202.4	197.5	192.2	186.0	181.8	182.8
35.5°	186.1	191.1	197.1	201.3	201.8	200.5	195.5	190.2	184.0	179.7	180.7
36°	184.1	189.1	195.1	199.4	199.9	198.5	193.5	188.2	181.9	177.6	178.7
36.5°	182.1	187.2	193.2	197.6	198.0	196.6	191.5	186.1	179.8	175.5	176.6
37°	180.0	185.1	191.2	195.6	196.1	194.6	189.4	184.1	177.8	173.5	174.5
37.5°	177.9	183.1	189.3	193.8	194.1	192.6	187.4	182.1	175.7	171.3	172.4
38°	175.9	181.0	187.3	191.8	192.1	190.6	185.4	180.0	173.6	169.2	170.3
38.5°	173.8	179.0	185.3	189.8	190.1	188.5	183.3	177.9	171.4	167.0	168.2
39°	171.7	176.9	183.2	187.8	188.2	186.5	181.2	175.8	169.3	164.9	166.0
39.5°	169.5	174.8	181.3	185.7	186.1	184.4	179.1	173.7	167.2	162.7	163.9
40°	167.4	172.7	179.2	183.7	184.1	182.3	176.9	171.6	165.0	160.6	161.7
40.5°	165.3	170.6	177.1	181.7	182.0	180.2	174.7	169.4	162.8	158.3	159.6
41°	163.1	168.4	175.0	179.6	179.9	178.0	172.6	167.3	160.6	156.1	157.3
41.5°	160.9	166.3	172.9	177.4	177.7	175.9	170.4	165.0	158.4	153.9	155.2
42°	158.7	164.1	170.6	175.3	175.7	173.7	168.2	162.8	156.2	151.7	153.0
42.5°	156.5	162.0	168.5	173.2	173.4	171.6	165.9	160.6	154.0	149.5	150.7
43°	154.3	159.7	166.4	171.1	171.4	169.3	163.6	158.4	151.7	147.3	148.5
43.5°	152.1	157.5	164.2	169.0	169.1	167.1	161.4	156.2	149.5	145.0	146.3



TEST NUMBER: P710082

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	145.5	151.0	157.6	162.3	162.4	160.3	154.6	149.5	142.8	138.2	139.6
45.5°	143.2	148.7	155.4	160.1	160.1	158.1	152.3	147.2	140.5	136.0	137.3
46°	141.0	146.4	153.2	157.9	157.8	155.8	150.0	144.9	138.3	133.8	135.1
46.5°	138.8	144.2	151.0	155.6	155.4	153.5	147.6	142.6	136.0	131.5	132.9
47°	136.5	142.0	148.6	153.4	153.2	151.2	145.3	140.4	133.7	129.2	130.7
47.5°	134.2	139.7	146.3	151.2	150.7	148.9	143.0	138.2	131.5	127.1	128.4
48°	131.9	137.4	144.0	148.8	148.4	146.5	140.7	135.9	129.2	124.8	126.2
48.5°	129.8	135.1	141.8	146.5	145.9	144.2	138.2	133.6	126.9	122.5	124.0
49°	127.5	132.8	139.3	144.3	143.5	141.7	135.9	131.3	124.6	120.2	121.8
49.5°	125.2	130.6	137.0	142.0	141.1	139.4	133.6	129.0	122.4	118.0	119.6
50°	123.0	128.3	134.7	139.6	138.5	137.0	131.2	126.8	120.2	115.8	117.4
50.5°	120.7	126.0	132.3	137.4	136.1	134.5	128.9	124.5	117.9	113.6	115.1
51°	118.5	123.7	129.9	135.1	133.7	132.0	126.6	122.3	115.6	111.4	112.9
51.5°	116.2	121.5	127.6	132.6	131.3	129.6	124.2	120.0	113.4	109.2	110.7
52°	114.0	119.2	125.2	130.2	128.8	127.1	121.8	117.7	111.3	107.0	108.5
52.5°	111.9	116.9	122.9	127.8	126.2	124.7	119.5	115.5	109.0	104.8	106.3
53°	109.7	114.6	120.5	125.4	123.7	122.2	117.0	113.2	106.8	102.7	104.2
53.5°	107.5	112.4	118.1	122.9	121.2	119.7	114.7	111.0	104.6	100.5	102.1
54°	105.2	110.1	115.7	120.5	118.7	117.3	112.3	108.8	102.4	98.3	99.9
54.5°	103.0	107.8	113.3	118.1	116.1	114.8	109.9	106.5	100.2	96.2	97.7
55°	100.9	105.5	110.9	115.6	113.6	112.3	107.6	104.3	98.0	94.1	95.6
55.5°	98.7	103.3	108.6	113.2	111.0	109.8	105.2	102.0	95.9	92.0	93.5
56°	96.6	101.1	106.2	110.7	108.5	107.4	102.8	99.8	93.8	89.9	91.4
56.5°	94.4	98.8	103.8	108.2	106.0	104.9	100.4	97.6	91.6	87.8	89.3
57°	92.3	96.7	101.4	105.8	103.5	102.5	98.1	95.4	89.6	85.8	87.3
57.5°	90.2	94.4	99.0	103.3	101.0	100.0	95.7	93.2	87.5	83.8	85.2
58°	88.1	92.2	96.7	100.9	98.6	97.6	93.4	91.0	85.4	81.7	83.2
58.5°	86.0	90.0	94.3	98.4	96.1	95.1	91.1	88.9	83.4	79.8	81.1
59°	84.0	87.8	91.9	96.0	93.7	92.7	88.8	86.7	81.4	77.8	79.1
59.5°	81.9	85.7	89.7	93.5	91.2	90.3	86.5	84.5	79.4	75.8	77.2
60°	79.9	83.4	87.4	91.1	88.8	88.0	84.2	82.4	77.4	73.9	75.2
60.5°	77.9	81.3	85.1	88.7	86.4	85.5	82.0	80.3	75.4	71.9	73.3
61°	75.8	79.2	82.8	86.3	84.0	83.2	79.7	78.2	73.5	70.1	71.3
61.5°	73.8	77.1	80.5	84.0	81.6	80.9	77.5	76.1	71.5	68.1	69.4
62°	71.9	75.0	78.3	81.6	79.3	78.6	75.3	74.0	69.6	66.3	67.6
62.5°	69.9	72.9	76.1	79.3	77.0	76.4	73.2	72.0	67.7	64.5	65.8
63°	68.0	70.9	73.9	77.0	74.7	74.1	71.0	69.9	65.8	62.7	63.9
63.5°	66.1	68.8	71.7	74.8	72.5	71.9	68.9	67.9	64.0	61.0	62.1
64°	64.2	66.8	69.6	72.5	70.2	69.7	66.7	65.9	62.2	59.3	60.3
64.5°	62.3	64.7	67.4	70.3	68.0	67.5	64.6	63.9	60.5	57.7	58.5
65°	60.4	62.8	65.4	68.0	65.9	65.3	62.6	61.9	58.8	56.0	56.8
65.5°	58.6	60.9	63.3	65.8	63.6	63.2	60.7	59.9	57.1	54.2	55.0
66°	56.7	59.1	61.2	63.7	61.6	61.0	58.8	58.0	55.3	52.6	53.3



TEST NUMBER: P710082

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	51.3	53.5	55.2	57.3	55.6	54.9	52.9	52.3	50.1	47.5	48.3
68°	49.6	51.6	53.2	55.3	53.6	52.9	51.0	50.5	48.4	45.9	46.7
68.5°	47.8	49.8	51.3	53.1	51.6	50.8	49.1	48.6	46.7	44.3	45.0
69°	46.1	48.0	49.4	51.1	49.6	48.9	47.2	46.7	45.0	42.7	43.5
69.5°	44.4	46.2	47.5	49.2	47.6	47.0	45.4	44.9	43.3	41.2	41.9
70°	42.7	44.4	45.6	47.2	45.7	45.0	43.5	43.1	41.7	39.6	40.4
70.5°	41.0	42.6	43.7	45.2	43.7	43.2	41.8	41.4	40.1	38.1	38.8
71°	39.4	40.8	41.9	43.3	41.8	41.3	39.9	39.6	38.4	36.5	37.3
71.5°	37.7	39.1	40.1	41.4	40.0	39.4	38.2	37.9	36.8	35.0	35.8
72°	36.1	37.4	38.3	39.5	38.1	37.7	36.4	36.2	35.2	33.6	34.3
72.5°	34.5	35.7	36.6	37.6	36.3	35.9	34.7	34.5	33.6	32.0	32.9
73°	32.9	34.1	34.9	35.8	34.5	34.1	33.0	32.8	32.1	30.6	31.5
73.5°	31.4	32.4	33.2	34.0	32.8	32.4	31.3	31.2	30.6	29.1	30.0
74°	29.8	30.8	31.5	32.3	31.0	30.6	29.7	29.5	29.0	27.7	28.6
74.5°	28.3	29.2	29.8	30.5	29.3	28.9	28.1	27.9	27.5	26.3	27.3
75°	26.8	27.6	28.2	28.7	27.6	27.3	26.5	26.4	26.0	24.9	25.9
75.5°	25.3	26.1	26.6	27.0	25.9	25.7	24.9	24.8	24.5	23.5	24.6
76°	23.9	24.6	25.0	25.4	24.3	24.1	23.4	23.3	23.1	22.1	23.3
76.5°	22.4	23.1	23.5	23.8	22.7	22.5	21.9	21.8	21.7	20.8	22.0
77°	21.0	21.6	22.0	22.2	21.2	21.0	20.4	20.4	20.3	19.5	20.7
77.5°	19.6	20.2	20.5	20.6	19.6	19.5	18.9	18.9	18.9	18.1	19.4
78°	18.3	18.8	19.0	19.1	18.1	18.0	17.5	17.5	17.6	16.9	18.2
78.5°	17.0	17.4	17.6	17.6	16.7	16.6	16.2	16.1	16.2	15.6	17.0
79°	15.7	16.1	16.2	16.1	15.3	15.2	14.8	14.8	14.9	14.4	15.8
79.5°	14.4	14.8	14.9	14.7	13.9	13.9	13.5	13.5	13.6	13.2	14.6
80°	13.2	13.5	13.6	13.4	12.6	12.6	12.3	12.3	12.3	12.1	13.4
80.5°	12.1	12.3	12.3	12.0	11.3	11.3	11.0	11.1	11.1	10.9	12.2
81°	10.9	11.1	11.0	10.8	10.1	10.1	9.9	10.0	9.9	9.9	11.1
81.5°	9.9	10.0	9.8	9.6	9.0	9.0	8.7	8.9	8.9	8.9	10.0
82°	8.8	8.9	8.7	8.5	7.9	7.9	7.6	7.8	7.9	7.9	9.0
82.5°	7.8	7.9	7.6	7.4	6.9	6.9	6.3	6.9	7.0	7.0	8.0
83°	6.9	7.0	6.7	6.5	6.0	6.0	5.3	6.0	6.1	6.2	7.1
83.5°	6.1	6.1	5.8	5.6	5.2	5.1	4.4	5.2	5.3	5.4	6.3
84°	5.1	5.3	5.0	4.8	4.4	4.3	3.8	4.4	4.7	4.8	5.5
84.5°	4.3	4.5	4.3	4.1	3.8	3.7	3.2	3.7	4.1	4.2	4.9
85°	3.7	3.8	3.7	3.5	3.2	3.1	2.7	3.1	3.6	3.6	4.3
85.5°	3.1	3.3	3.2	3.0	2.8	2.5	2.2	2.6	3.0	3.1	3.7
86°	2.6	2.8	2.7	2.5	2.4	2.1	1.6	2.2	2.5	2.7	3.2
86.5°	2.1	2.3	2.3	2.1	2.0	1.6	1.0	1.7	2.1	2.2	2.7
87°	1.5	1.8	1.9	1.7	1.5	1.2	0.7	1.2	1.7	1.7	2.3
87.5°	1.3	1.3	1.5	1.2	1.0	0.9	0.5	0.7	1.2	1.5	1.8
88°	1.0	1.0	1.1	0.8	0.6	0.5	0.3	0.4	1.0	1.4	1.7
88.5°	0.6	0.7	0.7	0.4	0.2	0.2	0.2	0.3	0.8	1.1	1.4



TEST NUMBER: P710082

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P710082

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-2700K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	264.4	264.4
0.5°	264.3	264.3
1°	264.1	264.2
1.5°	263.9	264.1
2°	263.6	263.9
2.5°	263.4	263.6
3°	263.0	263.4
3.5°	262.7	263.0
4°	262.3	262.8
4.5°	261.9	262.5
5°	261.5	262.1
5.5°	261.1	261.7
6°	260.6	261.3
6.5°	260.1	260.8
7°	259.5	260.4
7.5°	258.9	259.8
8°	258.4	259.3
8.5°	257.7	258.7
9°	257.1	258.2
9.5°	256.4	257.5
10°	255.6	256.9
10.5°	254.9	256.2
11°	254.1	255.5
11.5°	253.2	254.7
12°	252.4	254.0
12.5°	251.5	253.1
13°	250.6	252.3
13.5°	249.7	251.4
14°	248.7	250.5
14.5°	247.7	249.6
15°	246.7	248.6
15.5°	245.6	247.6
16°	244.5	246.6
16.5°	243.4	245.5
17°	242.3	244.4
17.5°	241.0	243.3
18°	239.9	242.2
18.5°	238.7	241.0
19°	237.4	239.8
19.5°	236.1	238.6
20°	234.8	237.4
20.5°	233.5	236.1
21°	232.2	234.8



TEST NUMBER: P710082

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-2700K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	227.9	230.7
23°	226.4	229.4
23.5°	224.9	227.9
24°	223.4	226.5
24.5°	221.9	225.0
25°	220.3	223.5
25.5°	218.7	221.9
26°	217.2	220.3
26.5°	215.4	218.7
27°	213.8	217.1
27.5°	212.1	215.5
28°	210.4	213.8
28.5°	208.6	212.1
29°	206.9	210.4
29.5°	205.1	208.6
30°	203.3	206.9
30.5°	201.4	205.2
31°	199.6	203.4
31.5°	197.7	201.5
32°	195.8	199.7
32.5°	193.9	197.8
33°	192.0	195.9
33.5°	190.0	194.0
34°	188.0	192.0
34.5°	186.0	190.1
35°	184.1	188.1
35.5°	182.0	186.1
36°	179.9	184.1
36.5°	177.9	182.1
37°	175.8	180.0
37.5°	173.8	177.9
38°	171.6	175.9
38.5°	169.5	173.8
39°	167.4	171.7
39.5°	165.2	169.5
40°	163.1	167.4
40.5°	160.9	165.3
41°	158.7	163.1
41.5°	156.5	160.9
42°	154.3	158.7
42.5°	152.1	156.5
43°	149.9	154.3
43.5°	147.6	152.1



TEST NUMBER: P710082

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-2700K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	141.0	145.5
45.5°	138.7	143.2
46°	136.5	141.0
46.5°	134.2	138.8
47°	132.0	136.5
47.5°	129.8	134.2
48°	127.5	131.9
48.5°	125.3	129.8
49°	123.0	127.5
49.5°	120.7	125.2
50°	118.6	123.0
50.5°	116.3	120.7
51°	114.1	118.5
51.5°	111.8	116.2
52°	109.7	114.0
52.5°	107.5	111.9
53°	105.2	109.7
53.5°	103.1	107.5
54°	100.9	105.2
54.5°	98.8	103.0
55°	96.6	100.9
55.5°	94.5	98.7
56°	92.4	96.6
56.5°	90.2	94.4
57°	88.2	92.3
57.5°	86.1	90.2
58°	84.1	88.1
58.5°	81.9	86.0
59°	80.0	84.0
59.5°	78.0	81.9
60°	76.0	79.9
60.5°	74.0	77.9
61°	72.1	75.8
61.5°	70.2	73.8
62°	68.3	71.9
62.5°	66.4	69.9
63°	64.5	68.0
63.5°	62.8	66.1
64°	61.1	64.2
64.5°	59.4	62.3
65°	57.8	60.4
65.5°	56.0	58.6
66°	54.3	56.7



TEST NUMBER: P710082

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-2700K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	49.2	51.3
68°	47.5	49.6
68.5°	45.9	47.8
69°	44.3	46.1
69.5°	42.6	44.4
70°	41.1	42.7
70.5°	39.5	41.0
71°	37.9	39.4
71.5°	36.4	37.7
72°	34.8	36.1
72.5°	33.3	34.5
73°	31.8	32.9
73.5°	30.3	31.4
74°	28.9	29.8
74.5°	27.4	28.3
75°	26.0	26.8
75.5°	24.6	25.3
76°	23.2	23.9
76.5°	21.8	22.4
77°	20.5	21.0
77.5°	19.1	19.6
78°	17.8	18.3
78.5°	16.6	17.0
79°	15.3	15.7
79.5°	14.1	14.4
80°	12.9	13.2
80.5°	11.8	12.1
81°	10.7	10.9
81.5°	9.7	9.9
82°	8.7	8.8
82.5°	7.7	7.8
83°	6.8	6.9
83.5°	6.0	6.1
84°	5.3	5.1
84.5°	4.6	4.3
85°	4.0	3.7
85.5°	3.4	3.1
86°	2.9	2.6
86.5°	2.4	2.1
87°	2.0	1.5
87.5°	1.4	1.3
88°	1.0	1.0
88.5°	0.9	0.6



TEST NUMBER: P710082
CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-2700K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	0.2	0.2



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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



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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





21.5°	233.4	236.7	240.8	243.6	243.9	243.4	240.4	236.6	232.4	229.3	230.0
22°	232.1	235.4	239.6	242.4	242.8	242.2	239.2	235.3	231.0	227.9	228.5



44°	149.9	155.4	162.0	166.7	166.9	164.8	159.2	154.0	147.3	142.8	144.1
44.5°	147.6	153.1	159.9	164.6	164.7	162.6	156.9	151.8	145.0	140.5	141.8



66.5°	54.9	57.3	59.2	61.6	59.6	59.0	56.9	56.1	53.6	50.9	51.7
67°	53.1	55.4	57.2	59.4	57.6	56.9	54.9	54.2	51.8	49.2	49.9



89°	0.4	0.5	0.3	0.2	0.1	0.1	0.1	0.2	0.4	0.8	1.0
89.5°	0.3	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.6

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Scaled Data Report



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Scaled Data Report



21.5°	230.8	233.4
22°	229.3	232.1



44°	145.5	149.9
44.5°	143.2	147.6

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



66.5°	52.6	54.9
67°	50.9	53.1



89°	0.7	0.4
89.5°	0.5	0.3

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

Scaled Data Report



(END OF REPORT)