

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: P710089

Luminaire Tested: RA56LS9FSD2W1EWH-900lm-3500K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710089
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-900lm-3500K
Description: 5/6IN RETROFIT SELECTABLE LUMENS
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 3500K CCT
Ballast/Driver: -

Summary

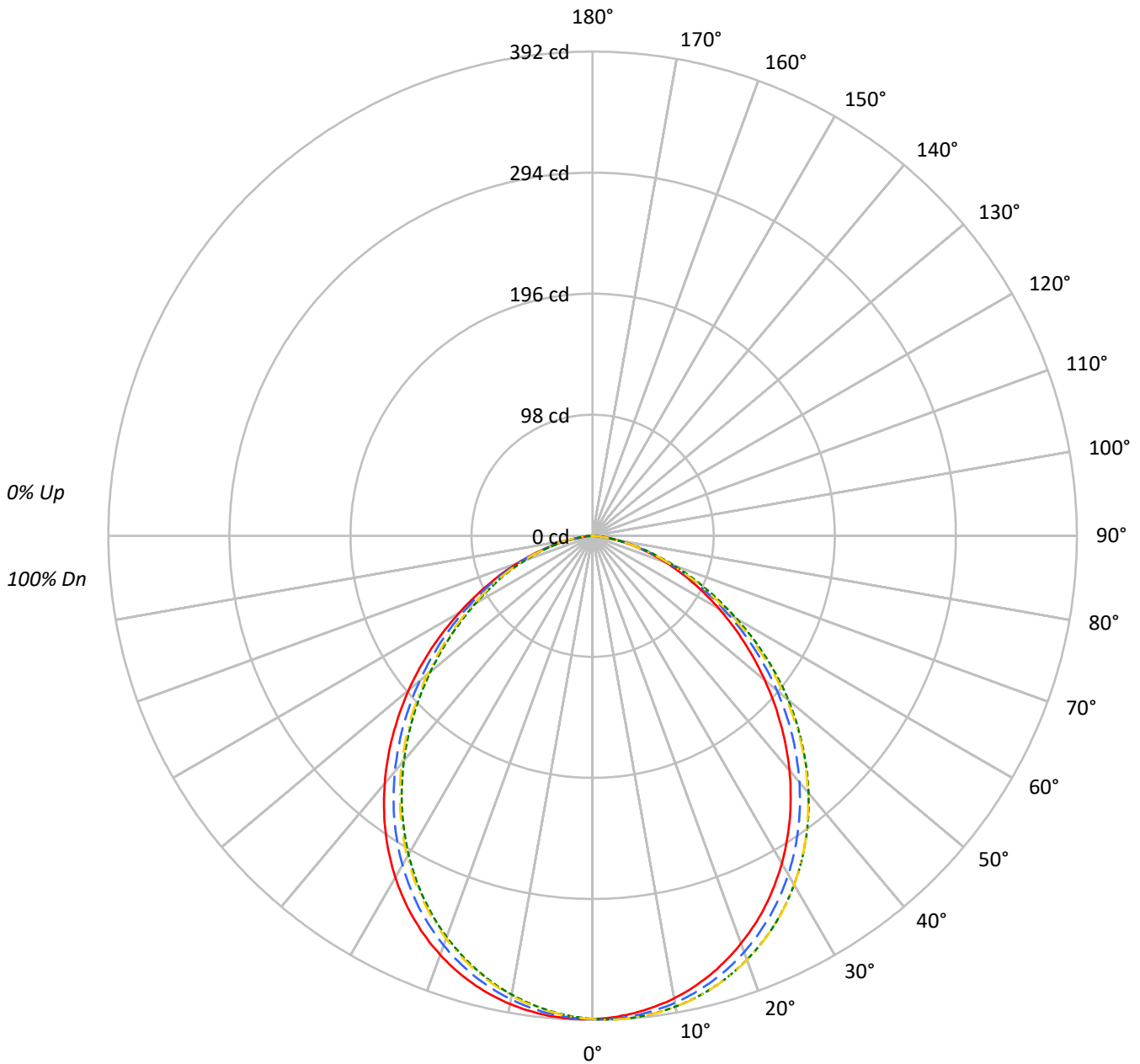
Lumens per Lamp: 930.22 (1 lamp)
Luminaire Lumens: 925.0 lumens
Efficiency: 99.4%
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 8.8
Input Voltage (V): NR
Input Current (A_{in}): 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: P710089
CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-3500K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	118	118	118	118	116	116	116	116	110	110	110	106	106	106	101	101	101					99															
1	109	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88					86															
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75					73															
3	92	82	75	69	89	81	74	68	78	72	67	75	70	66	72	68	64					62															
4	84	73	65	59	82	72	64	58	70	63	58	67	61	57	65	60	56					54															
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47															
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	44					42															
7	67	54	46	40	65	53	45	40	52	45	40	51	44	39	49	43	39					37															
8	63	50	41	36	61	49	41	36	48	41	36	46	40	35	45	39	35					33															
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32					30															
10	55	42	35	30	54	42	34	29	41	34	29	40	34	29	39	33	29					27															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21446	21446	21446	21446
5°	21346	21539	21478	21269
10°	21164	21543	21426	21003
15°	20885	21470	21288	20636
20°	20494	21299	21054	20162
25°	20009	21038	20705	19580
30°	19389	20649	20218	18857
35°	18631	20124	19562	18009
40°	17733	19458	18735	17003
45°	16692	18622	17731	15862
50°	15522	17620	16562	14618
55°	14270	16353	15216	13314
60°	12959	14790	13672	11995
65°	11584	13049	12012	10740
70°	10130	11188	10322	9393
75°	8409	9002	8303	7795
80°	6188	6251	5714	5651
85°	3397	3271	2516	3397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 120°
 Vertical Angle: 45°
 Luminance: 18638 cd/sqm



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CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	36.9	4.0	4.0
10°-20°	104.7	11.3	11.3
20°-30°	154.7	16.7	16.6
30°-40°	178.2	19.3	19.2
40°-50°	171.5	18.5	18.4
50°-60°	138.4	15.0	14.9
60°-70°	90.9	9.8	9.8
70°-80°	42.5	4.6	4.6
80°-90°	7.3	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°	296.3	32.0	31.9
0°-40°	474.5	51.3	51.0
0°-60°	784.4	84.8	84.3
0°-90°	925.0	100.0	99.4
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°	925.0	100.0	99.4

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	391	391	391	391	391	
5°	388	391	390	386	388	37
15°	368	378	375	364	368	104
25°	331	348	342	324	331	152
35°	278	301	292	269	278	174
45°	215	240	229	205	215	166
55°	149	171	159	139	149	134
65°	89	101	93	83	89	89
75°	40	42	39	37	40	42
85°	5	5	4	5	5	8
90°	0	0	0	0	0	



TEST NUMBER: P710089

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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2
0.5°	391.1	391.4	391.7	391.3	391.7	391.6	391.4	391.3	391.4	390.9	391.3
1°	391.0	391.3	391.8	391.5	391.9	391.8	391.5	391.3	391.2	390.6	391.0
1.5°	390.8	391.1	391.8	391.7	392.0	391.9	391.4	391.2	391.0	390.2	390.6
2°	390.5	391.1	391.8	391.9	392.1	391.9	391.4	391.1	390.6	389.8	390.2
2.5°	390.2	390.8	391.8	391.8	392.2	391.9	391.4	390.8	390.3	389.4	389.8
3°	389.8	390.6	391.7	391.9	392.2	391.9	391.3	390.6	389.9	388.9	389.2
3.5°	389.3	390.3	391.6	391.9	392.1	391.8	391.1	390.3	389.5	388.3	388.8
4°	389.0	390.0	391.3	391.7	392.0	391.7	390.8	390.0	389.0	387.8	388.2
4.5°	388.4	389.6	391.1	391.6	391.9	391.6	390.6	389.5	388.5	387.1	387.5
5°	387.9	389.2	390.7	391.4	391.7	391.3	390.3	389.1	387.9	386.5	386.9
5.5°	387.3	388.7	390.5	391.2	391.5	391.1	390.0	388.6	387.4	385.7	386.2
6°	386.7	388.2	390.0	390.9	391.2	390.8	389.6	388.2	386.7	385.0	385.5
6.5°	386.0	387.6	389.6	390.5	390.8	390.4	389.2	387.6	386.1	384.1	384.7
7°	385.3	387.0	389.1	390.1	390.5	390.1	388.6	387.0	385.2	383.3	383.9
7.5°	384.5	386.3	388.7	389.8	390.1	389.6	388.1	386.3	384.4	382.4	383.0
8°	383.8	385.7	388.1	389.3	389.6	389.1	387.6	385.7	383.6	381.5	382.0
8.5°	382.9	385.0	387.5	388.8	389.2	388.6	387.0	384.9	382.7	380.5	381.1
9°	382.2	384.2	386.8	388.3	388.6	388.1	386.3	384.1	381.8	379.5	380.0
9.5°	381.2	383.4	386.1	387.7	388.2	387.5	385.6	383.3	380.8	378.3	379.0
10°	380.2	382.5	385.4	387.0	387.5	386.8	384.9	382.4	379.7	377.3	377.9
10.5°	379.2	381.6	384.7	386.4	386.8	386.2	384.2	381.5	378.6	376.0	376.7
11°	378.1	380.6	383.8	385.7	386.1	385.5	383.3	380.6	377.5	374.8	375.6
11.5°	377.0	379.6	383.0	384.9	385.4	384.7	382.5	379.5	376.4	373.6	374.3
12°	375.9	378.6	382.0	384.1	384.5	383.9	381.6	378.5	375.1	372.3	373.0
12.5°	374.6	377.5	381.2	383.3	383.8	383.1	380.7	377.3	374.0	370.9	371.7
13°	373.4	376.3	380.1	382.4	382.8	382.1	379.6	376.3	372.7	369.6	370.2
13.5°	372.0	375.1	379.0	381.4	381.9	381.2	378.6	375.0	371.3	368.1	368.9
14°	370.8	373.9	378.0	380.5	381.0	380.2	377.5	373.8	369.8	366.7	367.4
14.5°	369.4	372.6	376.8	379.4	379.9	379.2	376.4	372.6	368.5	365.1	366.0
15°	368.0	371.3	375.6	378.3	378.9	378.1	375.1	371.3	367.0	363.6	364.3
15.5°	366.5	370.0	374.4	377.3	377.8	377.1	373.9	369.9	365.5	361.9	362.7
16°	365.0	368.6	373.1	376.1	376.7	375.9	372.6	368.5	363.9	360.3	361.2
16.5°	363.3	367.1	371.9	374.9	375.5	374.7	371.4	367.0	362.3	358.6	359.5
17°	361.8	365.6	370.5	373.6	374.2	373.4	370.0	365.5	360.6	356.9	357.8
17.5°	360.1	364.0	369.1	372.4	373.0	372.1	368.6	364.0	358.9	355.1	356.0
18°	358.5	362.5	367.7	371.0	371.7	370.7	367.1	362.5	357.3	353.3	354.1
18.5°	356.7	360.9	366.2	369.7	370.2	369.5	365.7	360.8	355.4	351.4	352.3
19°	355.0	359.2	364.7	368.2	368.8	367.9	364.1	359.1	353.6	349.5	350.4
19.5°	353.1	357.4	363.1	366.8	367.4	366.5	362.6	357.4	351.8	347.6	348.5
20°	351.3	355.8	361.4	365.1	365.9	364.9	360.9	355.7	349.9	345.6	346.5
20.5°	349.4	354.0	359.8	363.7	364.3	363.5	359.2	353.9	348.0	343.6	344.4
21°	347.5	352.1	358.1	362.1	362.7	361.8	357.4	352.1	345.9	341.5	342.5



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CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	341.5	346.5	352.8	357.1	357.6	356.8	352.1	346.2	339.7	335.1	336.1
23°	339.5	344.5	350.9	355.3	355.9	355.0	350.3	344.2	337.7	332.9	333.9
23.5°	337.3	342.4	349.0	353.5	354.1	353.1	348.4	342.1	335.5	330.6	331.7
24°	335.2	340.3	347.1	351.6	352.3	351.2	346.3	340.1	333.2	328.4	329.4
24.5°	333.0	338.4	345.1	349.8	350.4	349.5	344.3	337.9	331.0	326.0	327.2
25°	330.8	336.2	343.1	347.8	348.5	347.4	342.3	335.9	328.7	323.7	324.7
25.5°	328.4	334.0	341.0	346.0	346.5	345.5	340.2	333.6	326.5	321.2	322.3
26°	326.1	331.8	338.9	343.8	344.5	343.4	338.1	331.3	324.0	318.8	320.0
26.5°	323.7	329.5	336.8	341.8	342.4	341.4	335.8	329.0	321.6	316.2	317.6
27°	321.4	327.3	334.6	339.6	340.3	339.2	333.6	326.7	319.1	313.8	315.0
27.5°	318.9	324.8	332.4	337.6	338.3	337.1	331.3	324.3	316.7	311.2	312.5
28°	316.4	322.6	330.1	335.3	336.1	334.8	329.0	322.0	314.2	308.7	309.9
28.5°	314.0	320.2	327.8	333.1	333.9	332.6	326.7	319.5	311.6	305.9	307.3
29°	311.5	317.8	325.5	330.8	331.7	330.2	324.4	317.1	309.0	303.3	304.7
29.5°	308.8	315.2	323.1	328.6	329.4	328.0	321.9	314.5	306.5	300.7	302.0
30°	306.3	312.7	320.6	326.2	327.0	325.5	319.4	312.0	303.8	297.9	299.3
30.5°	303.6	310.1	318.3	323.8	324.5	323.1	316.8	309.3	301.0	295.2	296.6
31°	301.0	307.5	315.7	321.4	322.1	320.7	314.2	306.7	298.3	292.3	293.8
31.5°	298.2	305.0	313.2	319.0	319.7	318.3	311.7	304.0	295.5	289.5	291.0
32°	295.5	302.2	310.6	316.4	317.2	315.6	308.9	301.3	292.7	286.7	288.1
32.5°	292.7	299.7	308.1	313.9	314.6	313.0	306.2	298.6	289.8	283.8	285.3
33°	289.9	296.9	305.3	311.3	312.1	310.4	303.5	295.8	287.0	280.9	282.4
33.5°	287.1	294.1	302.7	308.7	309.4	307.8	300.8	293.0	284.1	277.9	279.5
34°	284.2	291.3	300.0	306.0	306.8	304.9	298.0	290.1	281.2	275.0	276.6
34.5°	281.4	288.6	297.3	303.4	304.0	302.2	295.1	287.3	278.3	272.0	273.7
35°	278.4	285.7	294.5	300.7	301.5	299.5	292.3	284.5	275.3	269.1	270.6
35.5°	275.4	282.8	291.6	297.9	298.7	296.7	289.4	281.5	272.3	265.9	267.5
36°	272.5	279.8	288.8	295.1	295.9	293.8	286.5	278.6	269.2	262.9	264.5
36.5°	269.5	277.0	286.0	292.4	293.0	291.0	283.4	275.5	266.2	259.8	261.4
37°	266.4	274.0	283.0	289.5	290.2	288.0	280.4	272.5	263.1	256.7	258.3
37.5°	263.3	271.0	280.2	286.8	287.3	285.1	277.3	269.4	260.0	253.5	255.2
38°	260.3	267.9	277.2	283.9	284.3	282.1	274.3	266.4	256.9	250.4	252.0
38.5°	257.2	264.9	274.2	281.0	281.4	279.0	271.3	263.2	253.7	247.2	248.9
39°	254.1	261.8	271.2	277.9	278.5	276.0	268.1	260.1	250.5	244.0	245.7
39.5°	250.9	258.8	268.3	274.9	275.4	272.9	265.0	257.0	247.4	240.8	242.5
40°	247.8	255.6	265.2	271.9	272.4	269.8	261.8	253.9	244.1	237.6	239.4
40.5°	244.6	252.5	262.1	268.9	269.3	266.7	258.6	250.7	240.9	234.3	236.1
41°	241.4	249.2	258.9	265.8	266.2	263.5	255.4	247.5	237.7	231.1	232.8
41.5°	238.2	246.1	255.9	262.6	263.0	260.3	252.2	244.1	234.4	227.8	229.6
42°	234.9	242.9	252.5	259.5	260.0	257.1	248.9	241.0	231.2	224.5	226.4
42.5°	231.7	239.7	249.4	256.4	256.7	253.9	245.5	237.7	228.0	221.2	223.1
43°	228.4	236.4	246.2	253.2	253.6	250.6	242.2	234.5	224.6	218.0	219.8
43.5°	225.1	233.2	243.1	250.0	250.2	247.3	238.9	231.2	221.3	214.6	216.6



TEST NUMBER: P710089

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	215.3	223.4	233.2	240.2	240.4	237.3	228.7	221.2	211.3	204.6	206.6
45.5°	211.9	220.0	229.9	237.0	237.0	234.0	225.4	217.8	208.0	201.2	203.2
46°	208.6	216.7	226.7	233.7	233.5	230.5	221.9	214.4	204.7	198.0	199.9
46.5°	205.4	213.4	223.4	230.3	230.0	227.1	218.5	211.1	201.2	194.6	196.6
47°	202.0	210.1	219.9	227.0	226.7	223.7	215.0	207.8	197.8	191.3	193.4
47.5°	198.6	206.7	216.5	223.7	223.1	220.4	211.6	204.5	194.6	188.0	190.0
48°	195.3	203.3	213.1	220.3	219.6	216.8	208.2	201.1	191.2	184.7	186.7
48.5°	192.1	199.9	209.8	216.8	216.0	213.4	204.6	197.7	187.8	181.3	183.6
49°	188.7	196.6	206.2	213.5	212.5	209.8	201.1	194.3	184.4	177.9	180.3
49.5°	185.3	193.2	202.7	210.1	208.8	206.3	197.7	191.0	181.1	174.7	177.0
50°	182.0	189.9	199.3	206.6	205.0	202.8	194.2	187.6	177.8	171.4	173.7
50.5°	178.7	186.5	195.9	203.3	201.4	199.1	190.8	184.3	174.5	168.2	170.4
51°	175.3	183.1	192.3	199.9	197.8	195.4	187.3	181.0	171.2	164.9	167.1
51.5°	172.0	179.8	188.8	196.3	194.3	191.9	183.8	177.6	167.8	161.6	163.8
52°	168.6	176.3	185.4	192.7	190.7	188.1	180.3	174.3	164.7	158.4	160.6
52.5°	165.6	173.0	181.8	189.1	186.8	184.5	176.8	170.9	161.3	155.1	157.4
53°	162.4	169.6	178.3	185.5	183.0	180.9	173.2	167.6	158.0	152.0	154.2
53.5°	159.1	166.4	174.8	181.9	179.4	177.2	169.7	164.2	154.8	148.7	151.1
54°	155.8	163.0	171.3	178.3	175.6	173.6	166.2	161.0	151.5	145.5	147.8
54.5°	152.5	159.5	167.7	174.7	171.9	169.9	162.7	157.6	148.4	142.4	144.6
55°	149.3	156.2	164.2	171.1	168.1	166.3	159.2	154.3	145.1	139.3	141.5
55.5°	146.1	152.9	160.7	167.5	164.3	162.5	155.7	151.0	141.9	136.2	138.4
56°	142.9	149.6	157.1	163.9	160.6	158.9	152.2	147.8	138.8	133.0	135.3
56.5°	139.7	146.3	153.6	160.2	156.8	155.2	148.7	144.5	135.6	129.9	132.2
57°	136.6	143.1	150.1	156.6	153.1	151.7	145.2	141.2	132.6	127.0	129.2
57.5°	133.4	139.7	146.6	152.9	149.5	148.0	141.7	138.0	129.5	124.0	126.1
58°	130.3	136.5	143.1	149.3	145.9	144.4	138.3	134.7	126.4	121.0	123.1
58.5°	127.4	133.2	139.5	145.6	142.3	140.8	134.8	131.5	123.4	118.0	120.0
59°	124.2	129.9	136.0	142.0	138.7	137.2	131.4	128.3	120.5	115.1	117.1
59.5°	121.2	126.8	132.7	138.4	135.0	133.7	128.0	125.1	117.5	112.2	114.2
60°	118.2	123.5	129.3	134.9	131.5	130.2	124.7	121.9	114.5	109.4	111.3
60.5°	115.3	120.4	125.9	131.3	127.8	126.6	121.3	118.8	111.6	106.5	108.4
61°	112.2	117.2	122.5	127.8	124.4	123.2	118.0	115.7	108.7	103.7	105.6
61.5°	109.3	114.0	119.2	124.3	120.8	119.7	114.7	112.6	105.9	100.8	102.7
62°	106.4	111.0	115.9	120.8	117.3	116.4	111.4	109.5	103.0	98.1	100.0
62.5°	103.5	107.9	112.6	117.4	113.9	113.0	108.3	106.5	100.2	95.4	97.3
63°	100.6	104.9	109.3	113.9	110.6	109.7	105.1	103.5	97.4	92.7	94.6
63.5°	97.8	101.8	106.2	110.6	107.3	106.4	101.9	100.5	94.7	90.3	91.9
64°	95.0	98.8	103.0	107.3	103.9	103.1	98.8	97.5	92.0	87.8	89.2
64.5°	92.1	95.8	99.8	104.0	100.7	99.8	95.7	94.6	89.5	85.4	86.6
65°	89.3	92.9	96.7	100.6	97.5	96.6	92.6	91.6	87.0	82.8	84.0
65.5°	86.7	90.2	93.7	97.4	94.2	93.5	89.8	88.7	84.5	80.3	81.5
66°	84.0	87.5	90.6	94.2	91.2	90.3	87.0	85.9	81.9	77.8	78.9



TEST NUMBER: P710089

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	76.0	79.2	81.7	84.8	82.3	81.2	78.4	77.4	74.1	70.4	71.5
68°	73.4	76.4	78.8	81.8	79.3	78.2	75.5	74.7	71.6	67.9	69.1
68.5°	70.8	73.7	75.9	78.6	76.3	75.2	72.7	71.9	69.1	65.5	66.7
69°	68.2	71.0	73.1	75.7	73.3	72.3	69.9	69.1	66.6	63.2	64.4
69.5°	65.7	68.3	70.3	72.8	70.5	69.5	67.1	66.5	64.1	60.9	62.0
70°	63.2	65.7	67.5	69.8	67.6	66.7	64.4	63.9	61.7	58.6	59.7
70.5°	60.7	63.0	64.7	66.9	64.7	63.9	61.8	61.2	59.3	56.3	57.4
71°	58.3	60.4	62.1	64.0	61.9	61.1	59.1	58.6	56.8	54.1	55.2
71.5°	55.9	57.9	59.4	61.3	59.1	58.4	56.5	56.1	54.4	51.8	53.0
72°	53.5	55.4	56.7	58.4	56.4	55.7	53.9	53.5	52.1	49.7	50.8
72.5°	51.1	52.8	54.2	55.7	53.7	53.1	51.4	51.0	49.7	47.4	48.7
73°	48.7	50.5	51.6	53.0	51.0	50.4	48.8	48.6	47.4	45.3	46.6
73.5°	46.4	48.0	49.1	50.4	48.5	47.9	46.4	46.2	45.2	43.1	44.5
74°	44.1	45.6	46.6	47.7	45.9	45.3	43.9	43.7	42.9	41.0	42.4
74.5°	41.9	43.2	44.2	45.1	43.3	42.8	41.5	41.4	40.7	38.9	40.4
75°	39.7	40.9	41.8	42.5	40.8	40.4	39.2	39.0	38.5	36.8	38.4
75.5°	37.5	38.6	39.4	40.0	38.4	38.0	36.9	36.7	36.3	34.8	36.4
76°	35.3	36.4	37.1	37.6	36.0	35.6	34.6	34.4	34.2	32.8	34.4
76.5°	33.2	34.2	34.8	35.2	33.6	33.4	32.3	32.3	32.1	30.8	32.5
77°	31.1	32.0	32.5	32.9	31.3	31.1	30.2	30.1	30.0	28.8	30.6
77.5°	29.1	29.9	30.3	30.5	29.0	28.9	28.0	28.0	28.0	26.8	28.7
78°	27.1	27.8	28.2	28.2	26.8	26.7	25.9	25.9	26.0	25.0	26.9
78.5°	25.2	25.7	26.1	26.0	24.7	24.6	23.9	23.9	24.0	23.1	25.1
79°	23.2	23.8	24.0	23.8	22.6	22.5	21.9	21.9	22.0	21.3	23.3
79.5°	21.4	21.9	22.0	21.8	20.6	20.5	20.0	20.0	20.1	19.5	21.6
80°	19.6	20.0	20.1	19.8	18.6	18.6	18.1	18.2	18.2	17.9	19.8
80.5°	17.8	18.2	18.2	17.8	16.8	16.8	16.3	16.4	16.4	16.2	18.1
81°	16.2	16.4	16.3	16.0	15.0	15.0	14.7	14.7	14.7	14.6	16.4
81.5°	14.6	14.8	14.5	14.2	13.3	13.3	12.9	13.1	13.1	13.2	14.8
82°	13.1	13.2	12.8	12.6	11.7	11.7	11.2	11.6	11.7	11.7	13.3
82.5°	11.6	11.7	11.3	11.0	10.2	10.2	9.4	10.2	10.3	10.4	11.9
83°	10.3	10.3	9.9	9.5	8.8	8.8	7.9	8.9	9.1	9.2	10.6
83.5°	9.0	9.0	8.6	8.2	7.6	7.5	6.6	7.6	7.9	8.0	9.3
84°	7.6	7.8	7.4	7.1	6.5	6.4	5.6	6.5	6.9	7.1	8.2
84.5°	6.4	6.7	6.4	6.1	5.6	5.4	4.8	5.5	6.0	6.2	7.2
85°	5.4	5.7	5.5	5.2	4.8	4.5	4.0	4.6	5.3	5.4	6.4
85.5°	4.6	4.9	4.7	4.5	4.1	3.7	3.2	3.9	4.5	4.6	5.5
86°	3.8	4.1	4.0	3.8	3.5	3.1	2.4	3.2	3.8	3.9	4.7
86.5°	3.1	3.4	3.4	3.2	2.9	2.4	1.5	2.4	3.2	3.3	4.0
87°	2.2	2.7	2.8	2.5	2.2	1.8	1.0	1.8	2.5	2.6	3.3
87.5°	1.9	2.0	2.2	1.8	1.5	1.3	0.7	1.0	1.8	2.2	2.7
88°	1.5	1.5	1.6	1.2	0.9	0.7	0.5	0.6	1.5	2.1	2.5
88.5°	0.9	1.1	1.0	0.6	0.3	0.3	0.3	0.4	1.1	1.7	2.1



TEST NUMBER: P710089

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.3



TEST NUMBER: P710089

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	391.2	391.2
0.5°	391.1	391.1
1°	390.9	391.0
1.5°	390.6	390.8
2°	390.2	390.5
2.5°	389.8	390.2
3°	389.3	389.8
3.5°	388.8	389.3
4°	388.2	389.0
4.5°	387.7	388.4
5°	387.1	387.9
5.5°	386.4	387.3
6°	385.7	386.7
6.5°	384.9	386.0
7°	384.1	385.3
7.5°	383.2	384.5
8°	382.4	383.8
8.5°	381.4	382.9
9°	380.5	382.2
9.5°	379.4	381.2
10°	378.3	380.2
10.5°	377.2	379.2
11°	376.0	378.1
11.5°	374.8	377.0
12°	373.6	375.9
12.5°	372.2	374.6
13°	370.9	373.4
13.5°	369.5	372.0
14°	368.1	370.8
14.5°	366.6	369.4
15°	365.1	368.0
15.5°	363.5	366.5
16°	361.9	365.0
16.5°	360.2	363.3
17°	358.6	361.8
17.5°	356.7	360.1
18°	355.0	358.5
18.5°	353.2	356.7
19°	351.4	355.0
19.5°	349.4	353.1
20°	347.5	351.3
20.5°	345.6	349.4
21°	343.6	347.5



TEST NUMBER: P710089

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	337.3	341.5
23°	335.1	339.5
23.5°	332.8	337.3
24°	330.7	335.2
24.5°	328.4	333.0
25°	326.1	330.8
25.5°	323.7	328.4
26°	321.4	326.1
26.5°	318.9	323.7
27°	316.5	321.4
27.5°	313.9	318.9
28°	311.3	316.4
28.5°	308.7	314.0
29°	306.2	311.5
29.5°	303.5	308.8
30°	300.9	306.3
30.5°	298.1	303.6
31°	295.4	301.0
31.5°	292.6	298.2
32°	289.8	295.5
32.5°	287.0	292.7
33°	284.2	289.9
33.5°	281.2	287.1
34°	278.3	284.2
34.5°	275.3	281.4
35°	272.5	278.4
35.5°	269.3	275.4
36°	266.3	272.5
36.5°	263.3	269.5
37°	260.3	266.4
37.5°	257.2	263.3
38°	254.0	260.3
38.5°	250.9	257.2
39°	247.8	254.1
39.5°	244.5	250.9
40°	241.3	247.8
40.5°	238.1	244.6
41°	234.9	241.4
41.5°	231.7	238.2
42°	228.4	234.9
42.5°	225.1	231.7
43°	221.9	228.4
43.5°	218.5	225.1



TEST NUMBER: P710089

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	208.7	215.3
45.5°	205.3	211.9
46°	202.0	208.6
46.5°	198.7	205.4
47°	195.4	202.0
47.5°	192.1	198.6
48°	188.7	195.3
48.5°	185.4	192.1
49°	182.1	188.7
49.5°	178.7	185.3
50°	175.5	182.0
50.5°	172.2	178.7
51°	168.9	175.3
51.5°	165.5	172.0
52°	162.3	168.6
52.5°	159.0	165.6
53°	155.8	162.4
53.5°	152.6	159.1
54°	149.4	155.8
54.5°	146.2	152.5
55°	143.0	149.3
55.5°	139.8	146.1
56°	136.7	142.9
56.5°	133.6	139.7
57°	130.5	136.6
57.5°	127.4	133.4
58°	124.4	130.3
58.5°	121.3	127.4
59°	118.4	124.2
59.5°	115.4	121.2
60°	112.4	118.2
60.5°	109.6	115.3
61°	106.7	112.2
61.5°	103.9	109.3
62°	101.1	106.4
62.5°	98.3	103.5
63°	95.5	100.6
63.5°	92.9	97.8
64°	90.4	95.0
64.5°	88.0	92.1
65°	85.5	89.3
65.5°	83.0	86.7
66°	80.4	84.0



TEST NUMBER: P710089

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	72.8	76.0
68°	70.3	73.4
68.5°	67.9	70.8
69°	65.5	68.2
69.5°	63.1	65.7
70°	60.8	63.2
70.5°	58.4	60.7
71°	56.1	58.3
71.5°	53.8	55.9
72°	51.5	53.5
72.5°	49.3	51.1
73°	47.1	48.7
73.5°	44.9	46.4
74°	42.7	44.1
74.5°	40.6	41.9
75°	38.5	39.7
75.5°	36.4	37.5
76°	34.3	35.3
76.5°	32.3	33.2
77°	30.3	31.1
77.5°	28.3	29.1
78°	26.4	27.1
78.5°	24.6	25.2
79°	22.7	23.2
79.5°	20.9	21.4
80°	19.2	19.6
80.5°	17.5	17.8
81°	15.9	16.2
81.5°	14.3	14.6
82°	12.9	13.1
82.5°	11.5	11.6
83°	10.1	10.3
83.5°	8.9	9.0
84°	7.8	7.6
84.5°	6.8	6.4
85°	5.9	5.4
85.5°	5.1	4.6
86°	4.2	3.8
86.5°	3.5	3.1
87°	2.9	2.2
87.5°	2.1	1.9
88°	1.5	1.5
88.5°	1.3	0.9



TEST NUMBER: P710089

CATALOG NUMBER: RA56LS9FSD2W1EWH-900lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	0.4	0.3



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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°	345.5	350.3	356.3	360.5	361.0	360.2	355.8	350.1	343.9	339.4	340.4
22°	343.5	348.4	354.5	358.7	359.4	358.4	354.0	348.2	341.8	337.3	338.2



44°	221.9	230.0	239.8	246.7	247.0	244.0	235.6	227.9	218.0	211.3	213.3
44.5°	218.5	226.6	236.6	243.5	243.7	240.7	232.2	224.6	214.7	208.0	209.9



66.5°	81.3	84.8	87.7	91.1	88.2	87.3	84.2	83.1	79.3	75.3	76.5
67°	78.6	81.9	84.6	87.9	85.3	84.2	81.3	80.2	76.7	72.8	73.9



89°	0.6	0.8	0.5	0.2	0.2	0.2	0.2	0.3	0.7	1.2	1.6
89.5°	0.4	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.6	0.9

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

Scaled Data Report





21.5°	341.5	345.5
22°	339.4	343.5



44°	215.3	221.9
44.5°	212.0	218.5

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

Scaled Data Report



66.5°	77.9	81.3
67°	75.3	78.6



89°	1.0	0.6
89.5°	0.7	0.4

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

Scaled Data Report



(END OF REPORT)