

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: P710079

Luminaire Tested: RA4LS9FSD2W1EWHDM-900lm-3500K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2304405A001)
Test Lab: EVERFINE
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RA4LS9FSD2W1EWHDM-900lm-3500K
Description: 4IN DM SELECTABLE LUMENS
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 3500K CCT
Ballast/Driver: -

Summary

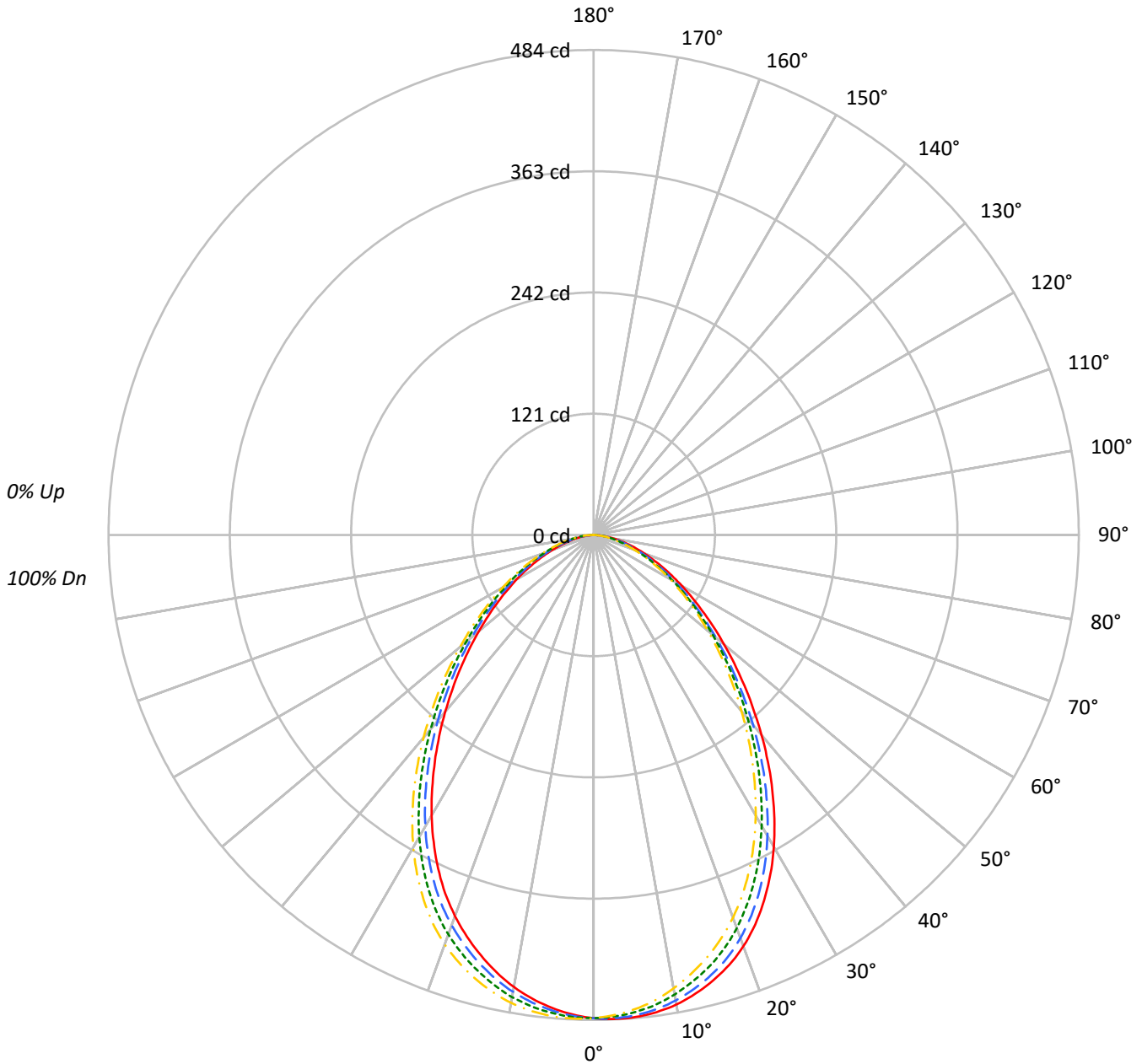
Lumens per Lamp: 896.88 (1 lamp)
Luminaire Lumens: 910.0 lumens
Efficiency: 101.5%
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.14
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.4
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: RA4LS9FSD2W1EWHDM-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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	104	104	104	101																			
1	112	108	104	101	109	106	102	99	101	99	96	98	95	93	94	92	91	89																			
2	103	96	90	85	101	94	89	84	91	86	82	88	84	80	85	82	79	77																			
3	95	86	79	73	93	85	78	72	82	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	63	74	67	62	72	66	62	69	65	61	59																			
5	82	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52																			
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47																			
7	71	59	51	45	70	58	50	45	56	49	44	55	49	44	54	48	44	42																			
8	67	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38																			
9	63	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	36	35																			
10	59	46	39	34	58	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	60697	60697	60697	60697
5°	61005	60373	59881	60500
10°	60803	59512	58541	59857
15°	59972	58070	56611	58578
20°	58486	55914	54200	56812
25°	55877	52739	50989	54155
30°	52228	48696	46967	50556
35°	47734	44093	42449	46244
40°	42796	39281	37851	41597
45°	37838	34599	33389	36931
50°	33245	30308	29309	32540
55°	29138	26373	25583	28611
60°	25573	22829	22301	25094
65°	22423	19535	19148	22125
70°	19649	16448	16043	19244
75°	17116	13566	13177	16630
80°	14640	11668	11016	14567
85°	9819	9963	4043	15017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 300°
 Vertical Angle: 45°
 Luminance: 38604 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	45.3	5.0	5.1
10°-20°	125.9	13.8	14.0
20°-30°	176.4	19.4	19.7
30°-40°	183.2	20.1	20.4
40°-50°	154.9	17.0	17.3
50°-60°	112.3	12.3	12.5
60°-70°	69.7	7.7	7.8
70°-80°	33.6	3.7	3.7
80°-90°	8.6	0.9	1.0
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°	347.6	38.2	38.8
0°-40°	530.8	58.3	59.2
0°-60°	798.1	87.7	89.0
0°-90°	910.0	100.0	101.5
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°	910.0	100.0	101.5

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	482	482	482	482	482	
5°	483	478	474	479	483	46
15°	460	446	434	450	460	130
25°	402	380	367	390	402	184
35°	311	287	276	301	311	194
45°	213	194	188	208	213	164
55°	133	120	117	130	133	119
65°	75	66	64	74	75	75
75°	35	28	27	34	35	38
85°	7	7	3	10	7	8
90°	0	0	0	0	0	



TEST NUMBER: P710079

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	482.3	482.3	482.3	482.3	482.3	482.3	482.3	482.3	482.3	482.3	482.3
0.5°	482.7	482.9	482.6	482.1	481.8	482.0	481.9	482.3	482.3	482.2	482.4
1°	483.1	483.2	482.7	482.0	481.4	481.5	481.3	482.0	482.1	482.1	482.7
1.5°	483.3	483.3	482.6	481.7	481.0	480.9	480.7	481.4	481.6	482.0	482.8
2°	483.4	483.3	482.5	481.3	480.4	480.2	479.9	480.8	481.2	481.8	482.9
2.5°	483.6	483.3	482.3	481.0	479.8	479.5	479.1	480.1	480.7	481.6	482.8
3°	483.5	483.2	482.1	480.5	479.0	478.7	478.2	479.4	480.3	481.1	482.7
3.5°	483.6	482.9	481.7	479.9	478.2	477.9	477.3	478.5	479.5	480.8	482.5
4°	483.4	482.7	481.4	479.4	477.3	476.9	476.2	477.7	478.8	480.1	482.2
4.5°	483.2	482.3	480.8	478.7	476.4	475.8	475.1	476.7	478.0	479.6	481.9
5°	482.9	482.0	480.3	477.9	475.3	474.6	474.0	475.7	477.1	478.9	481.4
5.5°	482.6	481.4	479.6	477.1	474.3	473.5	472.7	474.6	476.2	478.2	481.0
6°	482.1	480.9	478.9	476.2	473.2	472.1	471.3	473.4	475.2	477.3	480.4
6.5°	481.6	480.3	478.2	475.2	471.8	470.8	470.0	472.1	474.0	476.5	479.8
7°	481.0	479.5	477.4	474.2	470.5	469.4	468.5	470.9	472.9	475.6	479.1
7.5°	480.4	478.7	476.4	472.9	469.1	467.8	467.0	469.5	471.8	474.6	478.3
8°	479.6	477.9	475.3	471.7	467.6	466.2	465.4	468.0	470.4	473.5	477.5
8.5°	478.8	476.9	474.1	470.3	465.9	464.5	463.8	466.5	469.1	472.3	476.5
9°	478.0	475.9	472.9	468.7	464.1	462.7	462.0	464.9	467.7	471.0	475.6
9.5°	477.1	474.7	471.4	467.2	462.1	460.8	460.2	463.2	466.2	469.8	474.5
10°	475.8	473.3	470.1	465.7	460.2	458.9	458.1	461.6	464.5	468.4	473.3
10.5°	474.6	472.0	468.5	463.9	458.3	456.7	456.2	459.8	463.0	466.9	472.1
11°	473.3	470.6	467.0	462.1	456.3	454.7	454.1	458.0	461.2	465.3	470.6
11.5°	472.0	469.1	465.4	460.3	454.1	452.4	451.8	455.9	459.3	463.5	469.2
12°	470.5	467.5	463.7	458.5	452.0	450.2	449.5	453.8	457.4	461.7	467.6
12.5°	469.0	465.9	462.0	456.5	449.7	447.9	447.1	451.6	455.5	459.9	466.0
13°	467.5	464.2	460.0	454.5	447.5	445.5	444.7	449.2	453.4	458.0	464.3
13.5°	465.8	462.4	458.2	452.5	445.1	443.0	442.2	446.9	451.2	456.0	462.5
14°	464.0	460.6	456.2	450.2	442.7	440.5	439.8	444.5	448.9	453.9	460.7
14.5°	462.2	458.7	454.2	448.1	440.2	437.9	437.2	442.2	446.8	451.8	458.9
15°	460.3	456.6	452.0	445.7	437.7	435.3	434.5	439.7	444.2	449.6	456.8
15.5°	458.4	454.6	449.8	443.5	435.0	432.6	431.8	437.1	442.0	447.4	454.9
16°	456.3	452.4	447.5	440.9	432.4	429.9	429.0	434.4	439.5	445.1	452.7
16.5°	454.3	450.1	445.1	438.3	429.6	426.9	426.3	431.7	437.0	442.8	450.5
17°	452.1	447.6	442.7	435.6	426.7	424.2	423.4	429.1	434.4	440.4	448.3
17.5°	449.9	445.3	440.0	433.0	423.8	421.2	420.4	426.2	431.8	437.8	446.0
18°	447.5	442.7	437.4	430.0	420.8	418.1	417.3	423.4	429.0	435.3	443.7
18.5°	445.0	439.9	434.5	427.1	417.6	414.9	414.3	420.4	426.3	432.7	441.2
19°	442.4	437.1	431.5	423.9	414.4	411.8	411.1	417.5	423.4	429.9	438.7
19.5°	439.6	434.1	428.4	420.8	411.1	408.6	407.9	414.3	420.5	427.1	436.0
20°	436.7	431.0	425.4	417.5	407.6	405.2	404.7	411.2	417.4	424.2	433.3
20.5°	433.8	427.8	422.0	414.1	404.0	401.7	401.2	408.0	414.5	421.3	430.5
21°	430.7	424.6	418.6	410.6	400.5	398.3	397.8	404.8	411.2	418.2	427.5



TEST NUMBER: P710079

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	420.9	414.1	408.0	399.7	389.2	387.1	387.0	394.4	401.1	408.3	418.1
23°	417.3	410.3	404.2	395.8	385.3	383.2	383.2	390.9	397.5	404.8	414.7
23.5°	413.8	406.5	400.2	392.0	381.2	379.3	379.3	387.0	393.9	401.2	411.2
24°	410.1	402.6	396.4	388.0	377.0	375.3	375.4	383.3	390.2	397.7	407.7
24.5°	406.2	398.8	392.5	384.0	372.8	371.3	371.3	379.3	386.2	393.9	404.1
25°	402.4	394.8	388.4	379.8	368.8	367.0	367.2	375.4	382.3	390.0	400.4
25.5°	398.4	390.6	384.2	375.7	364.5	362.8	363.0	371.3	378.3	386.1	396.5
26°	394.4	386.4	379.9	371.4	360.1	358.5	358.7	367.2	374.3	382.1	392.7
26.5°	390.3	382.0	375.7	367.0	355.8	354.3	354.5	363.0	370.2	378.1	388.7
27°	386.0	377.7	371.3	362.5	351.4	349.7	350.1	358.8	365.8	374.0	384.6
27.5°	381.8	373.2	366.7	358.3	346.8	345.3	345.7	354.5	361.8	369.8	380.5
28°	377.5	368.7	362.2	353.7	342.4	340.9	341.3	350.1	357.3	365.5	376.3
28.5°	373.1	364.1	357.6	349.1	337.8	336.3	336.9	345.7	353.1	361.1	372.1
29°	368.5	359.3	353.1	344.4	333.2	331.8	332.3	341.3	348.7	356.9	367.8
29.5°	364.1	354.6	348.4	339.7	328.5	327.1	327.8	336.7	344.3	352.4	363.5
30°	359.4	349.8	343.6	335.1	323.9	322.5	323.2	332.2	339.7	347.9	359.1
30.5°	354.8	345.1	338.8	330.4	319.2	317.8	318.4	327.7	335.1	343.3	354.6
31°	350.0	340.2	334.0	325.7	314.4	313.1	313.9	323.0	330.5	338.9	350.0
31.5°	345.2	335.2	329.1	320.9	309.8	308.5	309.3	318.5	326.0	334.0	345.3
32°	340.4	330.2	324.2	316.1	305.0	303.8	304.6	313.8	321.2	329.6	340.6
32.5°	335.5	325.3	319.2	311.2	300.2	299.1	299.8	309.0	316.5	324.7	336.0
33°	330.6	320.2	314.4	306.4	295.4	294.4	295.1	304.3	311.7	320.0	331.4
33.5°	325.8	315.1	309.5	301.7	290.6	289.7	290.4	299.6	307.1	315.3	326.6
34°	320.7	310.1	304.5	296.6	285.8	285.0	285.6	294.9	302.3	310.6	321.8
34.5°	315.7	305.1	299.5	291.8	281.0	280.2	280.9	290.2	297.5	305.8	317.0
35°	310.7	299.9	294.5	287.0	276.3	275.6	276.3	285.4	292.8	301.0	312.2
35.5°	305.7	294.9	289.5	282.1	271.6	270.9	271.7	280.7	288.0	296.2	307.3
36°	300.7	289.7	284.5	277.2	266.7	266.2	267.0	276.0	283.2	291.4	302.4
36.5°	295.7	284.6	279.5	272.4	262.1	261.5	262.3	271.2	278.4	286.5	297.6
37°	290.7	279.6	274.5	267.6	257.3	257.1	257.6	266.5	273.6	281.8	292.8
37.5°	285.5	274.4	269.5	262.7	252.7	252.1	253.1	261.9	268.8	277.0	287.9
38°	280.4	269.4	264.6	258.0	247.9	247.6	248.5	257.1	264.1	272.3	283.1
38.5°	275.6	264.3	259.7	253.2	243.4	243.1	244.0	252.4	259.5	267.4	278.2
39°	270.5	259.5	254.8	248.4	238.8	238.5	239.3	247.9	254.7	262.6	273.2
39.5°	265.5	254.4	249.8	243.7	234.2	233.9	234.8	243.3	250.1	257.8	268.5
40°	260.5	249.5	245.0	239.1	229.7	229.4	230.4	238.8	245.3	253.2	263.7
40.5°	255.6	244.5	240.3	234.4	225.2	225.0	225.9	234.3	240.7	248.3	259.0
41°	250.5	239.7	235.4	229.8	220.7	220.7	221.5	229.8	236.1	243.7	254.1
41.5°	245.7	234.8	230.5	225.2	216.3	216.2	217.1	225.2	231.6	239.1	249.4
42°	240.7	229.9	225.8	220.7	211.9	211.9	212.8	220.9	227.0	234.5	244.6
42.5°	236.0	225.1	221.3	216.1	207.5	207.6	208.4	216.4	222.6	229.8	239.9
43°	231.2	220.4	216.6	211.7	203.3	203.4	204.2	212.1	218.1	225.2	235.3
43.5°	226.6	215.8	212.2	207.3	199.0	199.2	199.9	207.8	213.6	220.8	230.7



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	212.6	202.1	198.6	194.4	186.5	187.1	187.6	195.2	200.7	207.5	216.9
45.5°	208.0	197.5	194.3	190.2	182.4	183.1	183.6	191.1	196.4	203.1	212.4
46°	203.5	193.2	190.1	186.2	178.4	179.1	179.6	187.1	192.2	198.8	208.0
46.5°	199.2	188.8	185.9	182.2	174.5	175.1	175.8	183.1	188.0	194.6	203.6
47°	194.8	184.6	181.8	178.2	170.5	171.1	171.9	179.1	183.9	190.4	199.3
47.5°	190.4	180.4	177.7	174.2	166.7	167.6	168.1	175.1	179.9	186.2	195.1
48°	186.3	176.2	173.5	170.1	163.0	163.8	164.2	171.1	175.9	182.0	190.9
48.5°	182.2	172.1	169.4	166.1	159.1	160.1	160.5	167.5	171.9	178.0	186.9
49°	178.0	168.0	165.5	162.3	155.5	156.5	156.9	163.7	167.9	174.0	182.9
49.5°	173.9	164.1	161.5	158.5	151.8	152.8	153.2	160.0	164.1	170.0	178.9
50°	169.8	160.2	157.7	154.8	148.2	149.3	149.7	156.3	160.4	166.2	174.9
50.5°	165.8	156.4	153.9	151.0	144.6	145.8	146.1	152.7	156.7	162.4	170.8
51°	161.9	152.5	150.2	147.4	141.2	142.3	142.7	149.1	153.1	158.6	166.7
51.5°	158.0	148.8	146.5	143.8	137.8	138.9	139.3	145.6	149.5	154.9	162.9
52°	154.2	145.3	142.9	140.2	134.4	135.5	135.9	142.1	145.9	151.2	159.1
52.5°	150.6	141.7	139.5	136.8	131.0	132.1	132.6	138.7	142.4	147.6	155.4
53°	146.9	138.2	135.9	133.3	127.8	128.9	129.2	135.3	138.8	144.1	151.7
53.5°	143.3	134.7	132.5	130.0	124.5	125.7	126.0	132.0	135.4	140.6	148.1
54°	139.7	131.4	129.1	126.7	121.3	122.5	122.9	128.7	132.1	137.2	144.4
54.5°	136.2	128.0	125.8	123.5	118.2	119.4	119.7	125.5	128.9	133.8	140.8
55°	132.8	124.7	122.5	120.2	115.0	116.3	116.6	122.3	125.6	130.4	137.5
55.5°	129.4	121.5	119.4	117.1	112.0	113.2	113.6	119.1	122.4	127.1	134.1
56°	126.1	118.3	116.2	113.9	109.0	110.2	110.6	116.1	119.3	123.8	130.7
56.5°	122.9	115.1	113.1	110.8	106.1	107.3	107.6	113.1	116.1	120.7	127.3
57°	119.7	112.2	110.1	107.9	103.1	104.4	104.7	110.1	113.1	117.5	124.1
57.5°	116.5	109.1	107.1	104.9	100.3	101.5	101.8	107.1	110.1	114.4	120.9
58°	113.4	106.2	104.2	101.9	97.4	98.7	99.0	104.2	107.1	111.4	117.7
58.5°	110.4	103.3	101.3	99.1	94.6	95.9	96.2	101.4	104.2	108.4	114.6
59°	107.4	100.4	98.4	96.3	92.1	93.2	93.7	98.6	101.3	105.5	111.7
59.5°	104.5	97.7	95.7	93.5	89.6	90.5	91.1	95.8	98.4	102.5	108.7
60°	101.6	94.9	92.9	90.7	87.1	87.8	88.6	93.1	95.6	99.7	105.7
60.5°	98.8	92.5	90.3	88.0	84.6	85.1	86.1	90.3	93.1	96.9	102.8
61°	96.0	90.0	87.6	85.4	82.0	82.6	83.6	87.7	90.6	94.0	99.9
61.5°	93.2	87.5	85.0	82.8	79.5	80.0	81.0	85.1	88.1	91.6	97.1
62°	90.6	85.1	82.4	80.2	76.9	77.5	78.4	82.5	85.6	89.2	94.3
62.5°	87.9	82.6	80.0	77.7	74.5	75.1	76.0	80.0	83.0	86.7	91.6
63°	85.3	80.1	77.5	75.2	72.0	72.6	73.6	77.5	80.5	84.3	88.9
63.5°	82.8	77.7	75.1	72.8	69.6	70.3	71.2	75.1	78.0	81.7	86.3
64°	80.2	75.3	72.7	70.4	67.3	67.9	68.8	72.6	75.6	79.2	83.7
64.5°	77.8	72.9	70.3	68.0	65.0	65.6	66.5	70.3	73.2	76.8	81.2
65°	75.3	70.6	68.0	65.6	62.7	63.3	64.3	67.9	70.8	74.3	78.6
65.5°	73.0	68.3	65.7	63.3	60.5	61.1	62.0	65.6	68.5	71.9	76.1
66°	70.6	66.1	63.5	61.2	58.3	58.9	59.8	63.4	66.2	69.7	73.7



TEST NUMBER: P710079

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	63.9	59.7	57.0	54.7	52.0	52.5	53.4	56.8	59.5	62.8	66.6
68°	61.7	57.6	55.0	52.6	49.9	50.5	51.4	54.7	57.4	60.6	64.4
68.5°	59.6	55.5	52.9	50.5	47.9	48.4	49.4	52.6	55.3	58.5	62.2
69°	57.5	53.5	50.9	48.5	46.0	46.5	47.4	50.6	53.2	56.4	60.0
69.5°	55.4	51.5	49.0	46.6	44.1	44.6	45.5	48.6	51.2	54.4	57.8
70°	53.4	49.6	47.1	44.7	42.2	42.7	43.6	46.7	49.2	52.3	55.7
70.5°	51.4	47.7	45.1	42.8	40.4	40.9	41.8	44.8	47.3	50.3	53.6
71°	49.4	45.8	43.3	40.9	38.6	39.1	40.0	42.9	45.4	48.3	51.6
71.5°	47.5	44.0	41.5	39.2	36.8	37.3	38.2	41.1	43.5	46.4	49.6
72°	45.6	42.2	39.8	37.4	35.1	35.6	36.5	39.3	41.7	44.5	47.6
72.5°	43.8	40.5	38.0	35.7	33.5	34.0	34.8	37.5	39.9	42.7	45.7
73°	42.0	38.7	36.3	34.0	31.9	32.4	33.2	35.9	38.2	40.9	43.8
73.5°	40.2	37.0	34.7	32.4	30.4	30.8	31.6	34.2	36.5	39.2	42.0
74°	38.5	35.4	33.1	30.9	28.9	29.3	30.1	32.6	34.8	37.5	40.2
74.5°	36.8	33.8	31.6	29.3	27.4	27.8	28.6	31.1	33.2	35.8	38.4
75°	35.2	32.2	30.0	27.9	25.9	26.4	27.1	29.6	31.7	34.2	36.7
75.5°	33.6	30.7	28.5	26.4	24.6	24.9	25.7	28.1	30.2	32.6	35.0
76°	32.0	29.3	27.1	25.1	23.3	23.6	24.4	26.7	28.7	31.0	33.4
76.5°	30.5	27.8	25.7	23.7	22.0	22.4	23.2	25.3	27.3	29.5	31.8
77°	29.0	26.4	24.4	22.5	20.9	21.2	22.0	24.0	25.9	28.1	30.2
77.5°	27.5	25.0	23.1	21.2	19.8	20.1	20.8	22.8	24.5	26.7	28.7
78°	26.1	23.7	21.8	20.0	18.8	19.1	19.6	21.6	23.2	25.3	27.3
78.5°	24.7	22.4	20.6	18.9	17.8	18.2	18.5	20.5	22.0	23.9	25.9
79°	23.3	21.2	19.4	17.9	17.0	17.2	17.5	19.4	20.8	22.6	24.5
79.5°	21.8	19.9	18.3	17.0	16.2	16.3	16.4	18.4	19.7	21.4	23.2
80°	20.2	18.7	17.2	16.1	15.3	15.3	15.2	17.4	18.7	20.1	21.8
80.5°	18.6	17.4	16.2	15.3	14.3	14.3	13.9	16.3	17.7	19.0	20.6
81°	17.0	16.2	15.3	14.3	13.4	13.1	12.7	15.2	16.8	17.9	19.3
81.5°	15.6	15.0	14.4	13.4	12.4	12.0	11.4	14.0	15.9	16.9	18.2
82°	14.1	13.9	13.5	12.4	11.6	10.9	10.1	12.8	14.9	16.0	17.0
82.5°	12.9	12.7	12.5	11.6	10.6	9.9	8.8	11.6	13.9	15.0	15.9
83°	11.7	11.6	11.7	10.6	9.6	8.7	7.6	10.5	13.0	14.1	14.9
83.5°	10.5	10.6	10.8	9.6	8.7	7.6	6.3	9.3	12.0	13.1	13.9
84°	9.2	9.5	9.8	8.7	7.8	6.6	5.0	8.2	11.1	12.2	13.0
84.5°	8.0	8.5	8.8	7.7	7.0	5.6	3.9	7.0	10.1	11.3	12.1
85°	6.8	7.4	7.9	6.9	6.0	4.7	2.8	5.8	9.1	10.4	11.2
85.5°	5.6	6.3	7.1	6.0	5.1	3.8	1.6	4.9	8.2	9.3	10.2
86°	4.3	5.4	6.2	4.9	4.1	3.1	0.9	3.9	7.2	8.2	9.2
86.5°	3.3	4.5	5.2	3.7	3.2	2.5	0.7	3.0	6.3	7.3	8.3
87°	2.1	3.6	4.3	2.8	2.3	2.0	0.5	2.4	5.2	6.1	7.4
87.5°	1.2	3.0	3.3	1.7	1.4	1.4	0.4	2.0	4.1	4.8	6.4
88°	0.8	2.4	2.4	0.6	0.6	0.8	0.2	1.5	3.1	3.7	5.3
88.5°	0.7	1.9	1.5	0.2	0.1	0.1	0.1	1.0	2.3	2.8	4.2



TEST NUMBER: P710079

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.5	1.4



TEST NUMBER: P710079

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	482.3	482.3
0.5°	482.8	482.7
1°	483.0	483.1
1.5°	483.3	483.3
2°	483.3	483.4
2.5°	483.5	483.6
3°	483.4	483.5
3.5°	483.3	483.6
4°	483.1	483.4
4.5°	482.9	483.2
5°	482.5	482.9
5.5°	482.1	482.6
6°	481.6	482.1
6.5°	481.1	481.6
7°	480.4	481.0
7.5°	479.8	480.4
8°	478.9	479.6
8.5°	478.2	478.8
9°	477.2	478.0
9.5°	476.2	477.1
10°	475.1	475.8
10.5°	473.9	474.6
11°	472.5	473.3
11.5°	471.2	472.0
12°	469.6	470.5
12.5°	468.2	469.0
13°	466.5	467.5
13.5°	464.8	465.8
14°	463.1	464.0
14.5°	461.2	462.2
15°	459.4	460.3
15.5°	457.4	458.4
16°	455.4	456.3
16.5°	453.2	454.3
17°	451.1	452.1
17.5°	448.9	449.9
18°	446.5	447.5
18.5°	444.0	445.0
19°	441.5	442.4
19.5°	439.0	439.6
20°	436.1	436.7
20.5°	433.2	433.8
21°	430.2	430.7



TEST NUMBER: P710079
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	420.6	420.9
23°	417.1	417.3
23.5°	413.7	413.8
24°	410.0	410.1
24.5°	406.4	406.2
25°	402.6	402.4
25.5°	398.7	398.4
26°	394.8	394.4
26.5°	390.8	390.3
27°	386.7	386.0
27.5°	382.6	381.8
28°	378.4	377.5
28.5°	374.0	373.1
29°	369.6	368.5
29.5°	365.2	364.1
30°	360.7	359.4
30.5°	356.1	354.8
31°	351.6	350.0
31.5°	346.9	345.2
32°	342.3	340.4
32.5°	337.5	335.5
33°	332.7	330.6
33.5°	327.9	325.8
34°	323.1	320.7
34.5°	318.3	315.7
35°	313.3	310.7
35.5°	308.3	305.7
36°	303.4	300.7
36.5°	298.5	295.7
37°	293.6	290.7
37.5°	288.7	285.5
38°	283.7	280.4
38.5°	278.8	275.6
39°	273.9	270.5
39.5°	268.9	265.5
40°	264.1	260.5
40.5°	259.4	255.6
41°	254.4	250.5
41.5°	249.5	245.7
42°	244.8	240.7
42.5°	239.9	236.0
43°	235.2	231.2
43.5°	230.5	226.6



TEST NUMBER: P710079

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	216.6	212.6
45.5°	212.1	208.0
46°	207.6	203.5
46.5°	203.2	199.2
47°	198.9	194.8
47.5°	194.5	190.4
48°	190.2	186.3
48.5°	186.0	182.2
49°	181.8	178.0
49.5°	177.6	173.9
50°	173.6	169.8
50.5°	169.6	165.8
51°	165.7	161.9
51.5°	161.8	158.0
52°	158.0	154.2
52.5°	154.1	150.6
53°	150.5	146.9
53.5°	146.8	143.3
54°	143.2	139.7
54.5°	139.6	136.2
55°	136.1	132.8
55.5°	132.7	129.4
56°	129.4	126.1
56.5°	126.0	122.9
57°	122.8	119.7
57.5°	119.5	116.5
58°	116.3	113.4
58.5°	113.1	110.4
59°	110.1	107.4
59.5°	107.1	104.5
60°	104.1	101.6
60.5°	101.2	98.8
61°	98.3	96.0
61.5°	95.6	93.2
62°	93.0	90.6
62.5°	90.5	87.9
63°	87.9	85.3
63.5°	85.4	82.8
64°	82.8	80.2
64.5°	80.2	77.8
65°	77.7	75.3
65.5°	75.3	73.0
66°	72.9	70.6



TEST NUMBER: P710079

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	65.9	63.9
68°	63.7	61.7
68.5°	61.4	59.6
69°	59.3	57.5
69.5°	57.2	55.4
70°	55.1	53.4
70.5°	53.0	51.4
71°	51.0	49.4
71.5°	49.0	47.5
72°	47.1	45.6
72.5°	45.2	43.8
73°	43.4	42.0
73.5°	41.5	40.2
74°	39.8	38.5
74.5°	38.1	36.8
75°	36.4	35.2
75.5°	34.7	33.6
76°	33.1	32.0
76.5°	31.5	30.5
77°	30.0	29.0
77.5°	28.5	27.5
78°	27.1	26.1
78.5°	25.7	24.7
79°	24.3	23.3
79.5°	22.9	21.8
80°	21.5	20.2
80.5°	20.0	18.6
81°	18.6	17.0
81.5°	17.3	15.6
82°	16.0	14.1
82.5°	14.8	12.9
83°	13.6	11.7
83.5°	12.4	10.5
84°	11.2	9.2
84.5°	10.1	8.0
85°	9.0	6.8
85.5°	7.9	5.6
86°	6.8	4.3
86.5°	5.8	3.3
87°	4.8	2.1
87.5°	3.9	1.2
88°	3.2	0.8
88.5°	2.6	0.7



TEST NUMBER: P710079
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	1.0	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



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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





21.5°	427.6	421.1	415.2	407.0	396.8	394.7	394.4	401.5	408.0	415.0	424.5
22°	424.2	417.6	411.5	403.3	393.1	390.9	390.8	398.1	404.7	411.7	421.3



44°	221.8	211.1	207.5	202.9	194.8	195.2	195.8	203.7	209.3	216.3	226.0
44.5°	217.2	206.6	203.0	198.6	190.6	191.1	191.7	199.3	205.0	211.8	221.4



66.5°	68.4	64.0	61.4	59.0	56.2	56.7	57.7	61.2	63.9	67.3	71.3
67°	66.1	61.8	59.1	56.7	54.0	54.6	55.5	59.0	61.7	65.0	69.0



89°	0.5	1.4	0.8	0.1	0.0	0.0	0.0	0.5	1.6	1.6	3.1
89.5°	0.3	0.8	0.1	0.0	0.0	0.0	0.0	0.1	1.0	0.8	2.3

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

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report



21.5°	427.2	427.6
22°	423.9	424.2

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



44°	225.9	221.8
44.5°	221.2	217.2



66.5°	70.6	68.4
67°	68.2	66.1

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Peachtree City, GA 30269

Scaled Data Report



89°	2.1	0.5
89.5°	1.6	0.3

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)