

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: P710078

Luminaire Tested: RA4LS9FSD2W1EWHDM-900lm-3000K

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P710078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A23044405A001)  
Test Lab: EVERFINE  
Issue Date: 10/6/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: RA4LS9FSD2W1EWHDM-900lm-3000K  
Description: 4IN DM SELECTABLE LUMENS  
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

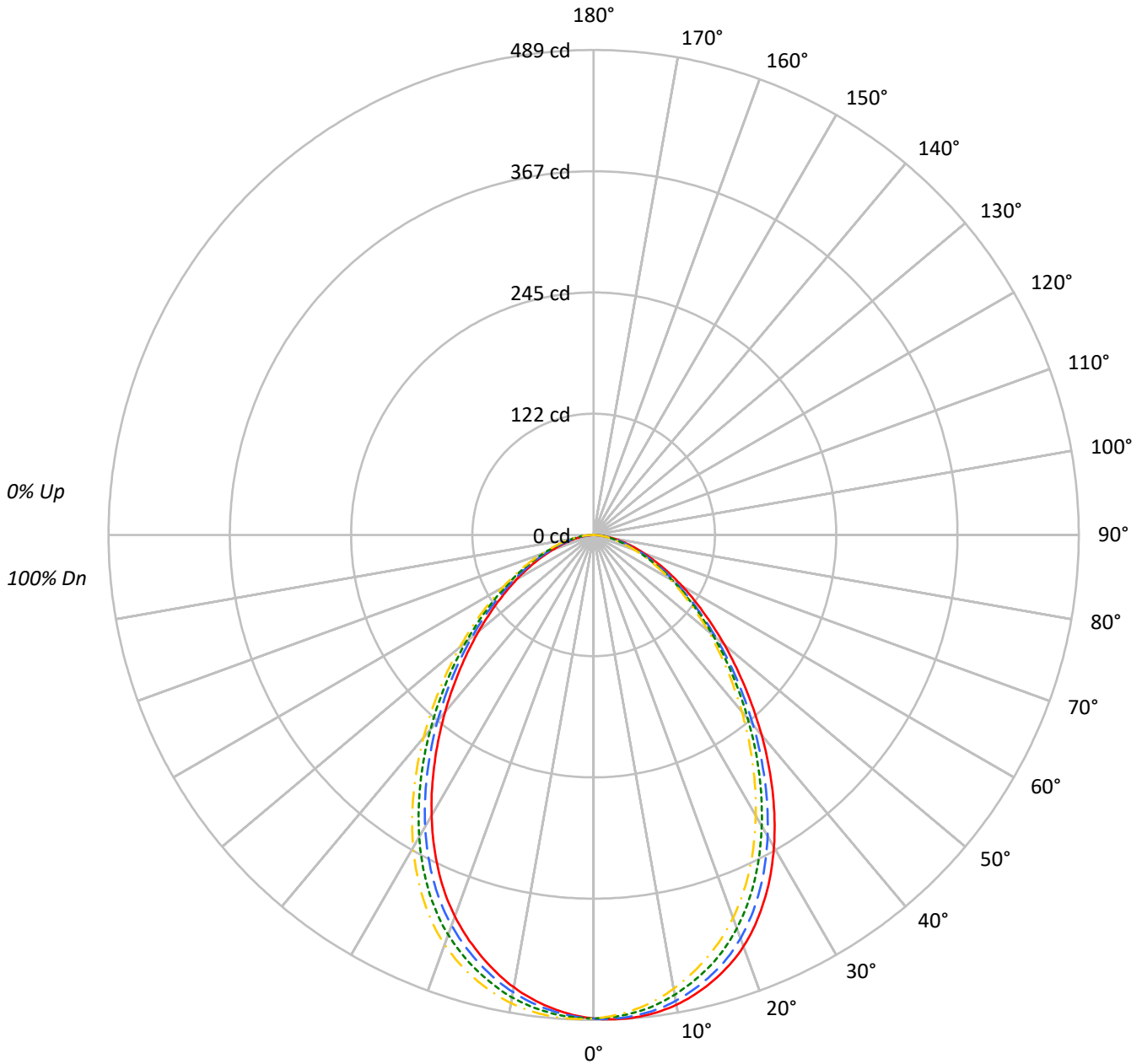
Lumens per Lamp: 896.88 (1 lamp)  
Luminaire Lumens: 920.0 lumens  
Efficiency: 102.6%  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.14  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.2  
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: P710078  
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P710078

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

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

RF	20					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	122	122	122	122	119	119	119	119	114	114	114	109	109	109	105	105	105	103								
1	113	109	105	102	111	107	103	100	103	100	97	99	96	94	95	93	92	90								
2	105	97	91	86	102	95	90	85	92	87	83	89	85	81	86	82	80	78								
3	97	87	80	74	94	86	79	73	83	77	72	80	75	71	77	73	70	68								
4	89	78	70	64	87	77	70	64	75	68	63	72	67	62	70	65	61	59								
5	83	71	63	57	81	70	62	56	68	61	56	66	60	55	64	59	55	53								
6	77	65	56	50	75	64	56	50	62	55	50	60	54	49	59	53	49	47								
7	72	59	51	45	70	59	51	45	57	50	45	56	49	45	54	49	44	42								
8	67	55	47	41	66	54	46	41	53	46	41	51	45	41	50	45	40	38								
9	63	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	37	35								
10	60	47	39	34	58	46	39	34	45	39	34	45	38	34	44	38	34	32								

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

	0°	90°	180°	270°
0°	61364	61364	61364	61364
5°	61675	61030	60538	61169
10°	61468	60164	59193	60522
15°	60637	58708	57236	59230
20°	59129	56530	54803	57441
25°	56488	53308	51545	54752
30°	52794	49234	47490	51109
35°	48257	44569	42910	46751
40°	43273	39708	38262	42057
45°	38248	34991	33763	37340
50°	33617	30641	29623	32892
55°	29445	26659	25869	28919
60°	25875	23081	22552	25371
65°	22662	19743	19356	22364
70°	19870	16595	16227	19465
75°	17310	13712	13323	16775
80°	14785	11813	11161	14785
85°	9963	10108	4043	15162

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 300°

Vertical Angle: 45°

Luminance: 39031 cd/sqm



TEST NUMBER: P710078  
 CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	45.8	5.0	5.1
10°-20°	127.2	13.8	14.2
20°-30°	178.4	19.4	19.9
30°-40°	185.3	20.1	20.7
40°-50°	156.6	17.0	17.5
50°-60°	113.6	12.3	12.7
60°-70°	70.5	7.7	7.9
70°-80°	33.9	3.7	3.8
80°-90°	8.7	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°	351.4	38.2	39.2
0°-40°	536.7	58.3	59.8
0°-60°	806.9	87.7	90.0
0°-90°	920.0	100.0	102.6
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°	920.0	100.0	102.6

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	488	488	488	488	488	
5°	488	483	479	484	488	46
15°	465	451	439	455	465	131
25°	407	384	371	394	407	186
35°	314	290	279	304	314	196
45°	215	197	190	210	215	166
55°	134	122	118	132	134	121
65°	76	66	65	75	76	76
75°	36	28	27	34	36	38
85°	7	7	3	10	7	8
90°	0	0	0	0	0	



TEST NUMBER: P710078

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	487.6	487.6	487.6	487.6	487.6	487.6	487.6	487.6	487.6	487.6	487.6
0.5°	488.0	488.2	487.9	487.3	487.1	487.3	487.2	487.6	487.6	487.5	487.7
1°	488.4	488.5	488.0	487.2	486.7	486.8	486.6	487.3	487.4	487.4	488.0
1.5°	488.6	488.6	487.9	487.0	486.3	486.2	486.0	486.7	486.9	487.3	488.1
2°	488.7	488.6	487.8	486.6	485.7	485.5	485.2	486.1	486.5	487.1	488.2
2.5°	488.9	488.6	487.6	486.3	485.0	484.8	484.4	485.4	486.0	486.8	488.1
3°	488.8	488.5	487.4	485.8	484.3	484.0	483.4	484.7	485.5	486.4	488.0
3.5°	488.9	488.3	487.0	485.2	483.5	483.2	482.5	483.8	484.8	486.0	487.8
4°	488.7	488.0	486.7	484.7	482.6	482.1	481.5	482.9	484.1	485.4	487.5
4.5°	488.5	487.6	486.1	483.9	481.7	481.0	480.3	481.9	483.3	484.9	487.2
5°	488.2	487.3	485.6	483.1	480.6	479.8	479.2	480.9	482.3	484.2	486.7
5.5°	487.9	486.7	484.9	482.4	479.5	478.7	477.9	479.8	481.5	483.4	486.3
6°	487.4	486.2	484.2	481.5	478.4	477.3	476.5	478.6	480.4	482.6	485.7
6.5°	486.9	485.5	483.4	480.5	477.0	475.9	475.2	477.3	479.2	481.7	485.0
7°	486.3	484.8	482.7	479.4	475.6	474.5	473.7	476.0	478.1	480.8	484.4
7.5°	485.7	484.0	481.6	478.1	474.2	472.9	472.1	474.7	476.9	479.9	483.5
8°	484.9	483.2	480.5	476.8	472.7	471.3	470.5	473.2	475.6	478.7	482.8
8.5°	484.0	482.2	479.4	475.5	471.0	469.6	468.9	471.6	474.3	477.5	481.8
9°	483.2	481.1	478.1	473.9	469.2	467.8	467.1	470.0	472.9	476.2	480.8
9.5°	482.3	479.9	476.6	472.3	467.2	465.9	465.2	468.3	471.3	474.9	479.7
10°	481.0	478.5	475.2	470.8	465.3	463.9	463.2	466.7	469.6	473.6	478.5
10.5°	479.9	477.2	473.6	469.0	463.3	461.7	461.2	464.9	468.1	472.0	477.2
11°	478.5	475.8	472.1	467.2	461.3	459.7	459.1	463.0	466.3	470.4	475.8
11.5°	477.2	474.2	470.5	465.4	459.1	457.4	456.8	460.9	464.4	468.6	474.3
12°	475.7	472.7	468.8	463.5	457.0	455.2	454.5	458.8	462.4	466.7	472.7
12.5°	474.1	471.0	467.0	461.6	454.6	452.8	452.0	456.5	460.5	464.9	471.1
13°	472.6	469.3	465.1	459.5	452.4	450.4	449.6	454.2	458.4	463.0	469.4
13.5°	470.9	467.5	463.2	457.5	450.0	447.9	447.1	451.8	456.2	461.0	467.6
14°	469.1	465.6	461.2	455.1	447.6	445.4	444.6	449.4	453.9	458.9	465.8
14.5°	467.3	463.7	459.2	453.0	445.1	442.8	442.0	447.0	451.7	456.8	464.0
15°	465.4	461.6	457.0	450.6	442.5	440.1	439.3	444.5	449.1	454.6	461.8
15.5°	463.5	459.6	454.7	448.4	439.8	437.3	436.6	441.9	446.9	452.3	459.8
16°	461.3	457.4	452.4	445.7	437.2	434.6	433.7	439.2	444.3	450.0	457.7
16.5°	459.3	455.1	450.0	443.1	434.3	431.6	430.9	436.5	441.8	447.7	455.5
17°	457.0	452.6	447.5	440.4	431.4	428.8	428.1	433.8	439.2	445.2	453.2
17.5°	454.8	450.1	444.9	437.8	428.5	425.8	425.0	430.9	436.5	442.6	450.9
18°	452.4	447.5	442.2	434.7	425.4	422.7	421.9	428.1	433.7	440.1	448.5
18.5°	449.9	444.7	439.3	431.8	422.2	419.5	418.8	425.1	431.0	437.4	446.0
19°	447.2	441.9	436.3	428.6	418.9	416.3	415.7	422.1	428.1	434.6	443.5
19.5°	444.5	438.9	433.1	425.4	415.6	413.1	412.4	418.9	425.1	431.8	440.8
20°	441.5	435.7	430.1	422.1	412.1	409.7	409.2	415.7	422.0	428.9	438.1
20.5°	438.6	432.5	426.7	418.7	408.5	406.2	405.6	412.5	419.0	426.0	435.2
21°	435.4	429.2	423.2	415.1	404.9	402.7	402.2	409.3	415.7	422.8	432.2



TEST NUMBER: P710078

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	425.5	418.7	412.5	404.0	393.4	391.4	391.3	398.8	405.5	412.8	422.7
23°	421.9	414.8	408.6	400.1	389.6	387.4	387.4	395.2	401.9	409.2	419.2
23.5°	418.3	411.0	404.6	396.3	385.4	383.5	383.5	391.3	398.2	405.6	415.8
24°	414.7	407.1	400.7	392.2	381.2	379.4	379.6	387.5	394.4	402.0	412.2
24.5°	410.7	403.1	396.8	388.2	376.9	375.4	375.4	383.5	390.4	398.3	408.5
25°	406.8	399.1	392.6	383.9	372.9	371.0	371.2	379.6	386.5	394.3	404.8
25.5°	402.8	394.9	388.4	379.8	368.5	366.7	367.0	375.4	382.5	390.3	400.9
26°	398.7	390.6	384.1	375.5	364.1	362.5	362.7	371.2	378.4	386.3	397.0
26.5°	394.6	386.2	379.8	371.0	359.7	358.2	358.4	366.9	374.3	382.2	393.0
27°	390.3	381.8	375.4	366.5	355.2	353.6	354.0	362.7	369.9	378.1	388.8
27.5°	386.0	377.3	370.8	362.2	350.6	349.1	349.5	358.4	365.8	373.9	384.7
28°	381.6	372.8	366.2	357.6	346.1	344.6	345.0	354.0	361.3	369.5	380.5
28.5°	377.1	368.1	361.6	352.9	341.5	340.0	340.6	349.5	357.0	365.1	376.2
29°	372.6	363.3	357.0	348.2	336.9	335.4	336.0	345.1	352.5	360.8	371.8
29.5°	368.1	358.5	352.2	343.5	332.1	330.7	331.4	340.4	348.1	356.3	367.5
30°	363.3	353.7	347.3	338.8	327.5	326.0	326.8	335.9	343.4	351.7	363.0
30.5°	358.7	348.8	342.5	334.1	322.7	321.3	321.9	331.3	338.8	347.1	358.5
31°	353.9	343.9	337.7	329.3	317.9	316.6	317.4	326.6	334.1	342.6	353.8
31.5°	349.0	338.9	332.7	324.4	313.2	311.9	312.7	322.0	329.6	337.7	349.1
32°	344.1	333.8	327.8	319.6	308.4	307.1	308.0	317.2	324.7	333.2	344.4
32.5°	339.1	328.9	322.7	314.7	303.5	302.4	303.1	312.4	320.0	328.3	339.7
33°	334.3	323.8	317.9	309.8	298.7	297.6	298.3	307.7	315.2	323.5	335.0
33.5°	329.3	318.6	312.9	305.0	293.8	292.9	293.6	302.9	310.4	318.8	330.2
34°	324.2	313.5	307.8	299.9	288.9	288.1	288.7	298.1	305.6	314.0	325.3
34.5°	319.2	308.5	302.8	295.0	284.1	283.3	284.0	293.4	300.7	309.1	320.5
35°	314.1	303.2	297.8	290.1	279.3	278.6	279.3	288.6	296.0	304.3	315.6
35.5°	309.1	298.1	292.6	285.2	274.6	273.8	274.7	283.8	291.2	299.5	310.7
36°	304.0	292.9	287.6	280.3	269.7	269.1	269.9	279.0	286.3	294.6	305.8
36.5°	298.9	287.7	282.5	275.4	265.0	264.4	265.2	274.2	281.4	289.6	300.9
37°	293.8	282.7	277.5	270.6	260.1	259.9	260.5	269.4	276.6	284.8	296.0
37.5°	288.6	277.5	272.4	265.6	255.4	254.9	255.9	264.8	271.8	280.1	291.1
38°	283.5	272.4	267.5	260.9	250.7	250.3	251.3	260.0	267.0	275.3	286.2
38.5°	278.6	267.2	262.6	256.0	246.1	245.7	246.6	255.2	262.4	270.3	281.3
39°	273.5	262.3	257.6	251.2	241.4	241.1	242.0	250.6	257.5	265.4	276.2
39.5°	268.4	257.2	252.5	246.4	236.8	236.5	237.4	245.9	252.9	260.6	271.4
40°	263.4	252.2	247.7	241.7	232.2	232.0	232.9	241.4	248.0	256.0	266.6
40.5°	258.4	247.2	242.9	237.0	227.6	227.5	228.4	236.9	243.4	251.1	261.8
41°	253.3	242.3	238.0	232.4	223.2	223.1	223.9	232.3	238.6	246.4	256.9
41.5°	248.4	237.4	233.1	227.7	218.7	218.6	219.4	227.7	234.1	241.7	252.1
42°	243.4	232.4	228.3	223.2	214.2	214.2	215.1	223.3	229.5	237.1	247.3
42.5°	238.6	227.6	223.7	218.4	209.8	209.9	210.7	218.8	225.0	232.4	242.5
43°	233.8	222.8	219.0	214.0	205.5	205.6	206.4	214.4	220.5	227.7	237.9
43.5°	229.1	218.2	214.5	209.6	201.2	201.4	202.1	210.1	215.9	223.2	233.2



TEST NUMBER: P710078

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	214.9	204.3	200.8	196.6	188.5	189.1	189.7	197.4	202.9	209.8	219.3
45.5°	210.3	199.7	196.4	192.3	184.4	185.1	185.6	193.2	198.6	205.3	214.7
46°	205.7	195.3	192.1	188.2	180.4	181.0	181.6	189.2	194.3	201.0	210.3
46.5°	201.4	190.9	188.0	184.2	176.4	177.0	177.7	185.1	190.1	196.7	205.9
47°	196.9	186.6	183.8	180.1	172.4	173.0	173.8	181.0	185.9	192.5	201.5
47.5°	192.5	182.4	179.6	176.1	168.5	169.4	169.9	177.0	181.9	188.2	197.2
48°	188.3	178.1	175.4	172.0	164.8	165.6	166.0	173.0	177.9	184.0	193.0
48.5°	184.2	174.0	171.3	168.0	160.9	161.9	162.3	169.3	173.8	179.9	188.9
49°	180.0	169.8	167.3	164.1	157.2	158.2	158.7	165.5	169.8	176.0	184.9
49.5°	175.8	165.9	163.3	160.2	153.4	154.5	154.9	161.8	165.9	171.9	180.8
50°	171.7	162.0	159.4	156.5	149.8	150.9	151.3	158.0	162.1	168.0	176.8
50.5°	167.6	158.1	155.6	152.7	146.2	147.4	147.7	154.3	158.4	164.2	172.7
51°	163.7	154.2	151.8	149.1	142.7	143.9	144.3	150.8	154.8	160.4	168.5
51.5°	159.7	150.4	148.1	145.4	139.3	140.4	140.9	147.2	151.1	156.6	164.7
52°	155.9	146.9	144.5	141.8	135.9	137.0	137.4	143.7	147.5	152.9	160.8
52.5°	152.2	143.3	141.0	138.3	132.4	133.6	134.0	140.2	143.9	149.3	157.1
53°	148.5	139.7	137.4	134.8	129.2	130.3	130.7	136.8	140.3	145.7	153.4
53.5°	144.9	136.2	133.9	131.4	125.8	127.1	127.4	133.4	136.9	142.1	149.7
54°	141.2	132.8	130.5	128.1	122.7	123.9	124.2	130.1	133.6	138.7	145.9
54.5°	137.7	129.4	127.2	124.9	119.5	120.7	121.0	126.9	130.3	135.2	142.4
55°	134.2	126.1	123.9	121.5	116.3	117.5	117.9	123.7	126.9	131.8	139.0
55.5°	130.9	122.8	120.7	118.3	113.2	114.4	114.8	120.5	123.7	128.5	135.6
56°	127.5	119.6	117.5	115.2	110.2	111.5	111.8	117.4	120.6	125.2	132.1
56.5°	124.2	116.3	114.4	112.1	107.2	108.4	108.8	114.3	117.4	122.0	128.7
57°	121.0	113.4	111.3	109.1	104.2	105.6	105.9	111.3	114.3	118.8	125.5
57.5°	117.8	110.3	108.3	106.0	101.4	102.7	102.9	108.3	111.3	115.7	122.2
58°	114.7	107.4	105.3	103.1	98.5	99.8	100.1	105.4	108.3	112.6	119.0
58.5°	111.6	104.4	102.4	100.1	95.7	96.9	97.3	102.5	105.3	109.6	115.9
59°	108.6	101.5	99.5	97.4	93.1	94.2	94.7	99.7	102.4	106.6	112.9
59.5°	105.6	98.8	96.7	94.5	90.6	91.5	92.1	96.8	99.5	103.7	109.9
60°	102.8	96.0	94.0	91.7	88.0	88.8	89.6	94.1	96.7	100.8	106.8
60.5°	99.8	93.5	91.3	89.0	85.5	86.1	87.0	91.3	94.1	98.0	103.9
61°	97.0	91.0	88.6	86.4	82.9	83.5	84.5	88.7	91.6	95.1	101.0
61.5°	94.2	88.5	85.9	83.7	80.3	80.9	81.9	86.0	89.0	92.6	98.2
62°	91.6	86.0	83.3	81.1	77.8	78.4	79.3	83.4	86.5	90.1	95.3
62.5°	88.9	83.5	80.8	78.5	75.3	75.9	76.8	80.9	84.0	87.7	92.6
63°	86.3	81.0	78.4	76.0	72.8	73.4	74.4	78.4	81.4	85.2	89.9
63.5°	83.7	78.6	75.9	73.6	70.4	71.0	72.0	75.9	78.9	82.6	87.2
64°	81.1	76.1	73.5	71.2	68.0	68.6	69.6	73.4	76.4	80.1	84.6
64.5°	78.6	73.7	71.1	68.7	65.7	66.3	67.3	71.0	74.0	77.6	82.1
65°	76.1	71.3	68.7	66.3	63.4	64.0	65.0	68.6	71.6	75.1	79.5
65.5°	73.8	69.1	66.5	64.0	61.1	61.7	62.7	66.3	69.2	72.7	77.0
66°	71.4	66.9	64.2	61.8	59.0	59.5	60.5	64.0	66.9	70.4	74.5





TEST NUMBER: P710078

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	64.6	60.3	57.7	55.3	52.5	53.1	54.0	57.4	60.2	63.5	67.4
68°	62.4	58.2	55.6	53.2	50.5	51.1	51.9	55.3	58.0	61.3	65.1
68.5°	60.2	56.1	53.5	51.1	48.5	49.0	49.9	53.2	55.9	59.1	62.8
69°	58.1	54.1	51.5	49.1	46.5	47.0	47.9	51.2	53.8	57.0	60.7
69.5°	56.0	52.1	49.5	47.1	44.5	45.1	46.0	49.1	51.7	55.0	58.5
70°	54.0	50.1	47.6	45.1	42.7	43.2	44.1	47.2	49.8	52.9	56.3
70.5°	51.9	48.2	45.6	43.2	40.8	41.3	42.3	45.3	47.8	50.9	54.2
71°	49.9	46.3	43.7	41.4	39.0	39.5	40.4	43.4	45.9	48.9	52.2
71.5°	48.0	44.5	42.0	39.6	37.2	37.7	38.6	41.5	44.0	47.0	50.1
72°	46.1	42.6	40.2	37.8	35.5	36.0	36.9	39.7	42.1	45.0	48.1
72.5°	44.3	40.9	38.5	36.0	33.9	34.4	35.2	37.9	40.3	43.2	46.2
73°	42.5	39.2	36.7	34.4	32.3	32.7	33.6	36.3	38.6	41.4	44.3
73.5°	40.7	37.4	35.1	32.8	30.7	31.2	32.0	34.6	36.9	39.6	42.4
74°	38.9	35.8	33.4	31.2	29.2	29.6	30.4	33.0	35.2	37.9	40.6
74.5°	37.2	34.2	31.9	29.7	27.7	28.1	28.9	31.4	33.6	36.2	38.8
75°	35.6	32.6	30.4	28.2	26.2	26.6	27.4	29.9	32.0	34.5	37.1
75.5°	33.9	31.1	28.8	26.7	24.8	25.2	26.0	28.4	30.5	32.9	35.4
76°	32.3	29.6	27.4	25.3	23.5	23.9	24.7	27.0	29.0	31.4	33.8
76.5°	30.8	28.1	26.0	24.0	22.3	22.6	23.4	25.6	27.6	29.9	32.1
77°	29.3	26.7	24.7	22.7	21.1	21.5	22.2	24.3	26.2	28.4	30.6
77.5°	27.8	25.3	23.3	21.4	20.0	20.4	21.1	23.0	24.8	26.9	29.1
78°	26.4	24.0	22.1	20.3	19.0	19.3	19.9	21.8	23.5	25.6	27.6
78.5°	25.0	22.7	20.8	19.1	18.0	18.4	18.7	20.7	22.2	24.2	26.2
79°	23.5	21.4	19.6	18.1	17.2	17.4	17.7	19.6	21.0	22.9	24.8
79.5°	22.0	20.1	18.5	17.2	16.3	16.5	16.6	18.6	19.9	21.6	23.4
80°	20.4	18.9	17.4	16.3	15.4	15.5	15.4	17.5	18.9	20.4	22.1
80.5°	18.8	17.6	16.4	15.4	14.5	14.4	14.1	16.5	17.9	19.2	20.8
81°	17.2	16.4	15.5	14.5	13.5	13.3	12.9	15.3	17.0	18.1	19.5
81.5°	15.7	15.2	14.5	13.5	12.6	12.1	11.5	14.2	16.0	17.1	18.4
82°	14.3	14.0	13.6	12.6	11.7	11.1	10.2	13.0	15.1	16.2	17.2
82.5°	13.0	12.9	12.7	11.7	10.7	10.0	8.9	11.8	14.1	15.2	16.1
83°	11.9	11.8	11.8	10.7	9.7	8.8	7.7	10.6	13.1	14.2	15.1
83.5°	10.6	10.7	10.9	9.7	8.8	7.7	6.4	9.4	12.2	13.3	14.1
84°	9.3	9.7	9.9	8.8	7.8	6.6	5.1	8.3	11.2	12.3	13.1
84.5°	8.1	8.6	8.9	7.8	7.0	5.7	3.9	7.0	10.2	11.4	12.2
85°	6.9	7.5	8.0	7.0	6.1	4.7	2.8	5.9	9.2	10.5	11.3
85.5°	5.6	6.4	7.1	6.1	5.1	3.9	1.6	4.9	8.3	9.4	10.4
86°	4.4	5.4	6.2	4.9	4.2	3.2	0.9	3.9	7.3	8.3	9.3
86.5°	3.3	4.5	5.3	3.8	3.2	2.5	0.7	3.0	6.3	7.3	8.3
87°	2.2	3.7	4.3	2.9	2.3	2.0	0.5	2.5	5.3	6.1	7.5
87.5°	1.2	3.0	3.3	1.7	1.4	1.4	0.4	2.0	4.2	4.9	6.5
88°	0.8	2.4	2.4	0.6	0.7	0.8	0.2	1.5	3.1	3.8	5.4
88.5°	0.7	1.9	1.6	0.2	0.1	0.1	0.1	1.0	2.3	2.8	4.2



TEST NUMBER: P710078  
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P710078

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	487.6	487.6
0.5°	488.1	488.0
1°	488.3	488.4
1.5°	488.6	488.6
2°	488.6	488.7
2.5°	488.8	488.9
3°	488.7	488.8
3.5°	488.7	488.9
4°	488.4	488.7
4.5°	488.2	488.5
5°	487.8	488.2
5.5°	487.4	487.9
6°	486.9	487.4
6.5°	486.4	486.9
7°	485.7	486.3
7.5°	485.1	485.7
8°	484.2	484.9
8.5°	483.5	484.0
9°	482.5	483.2
9.5°	481.5	482.3
10°	480.4	481.0
10.5°	479.1	479.9
11°	477.7	478.5
11.5°	476.4	477.2
12°	474.8	475.7
12.5°	473.3	474.1
13°	471.6	472.6
13.5°	469.9	470.9
14°	468.2	469.1
14.5°	466.2	467.3
15°	464.4	465.4
15.5°	462.4	463.5
16°	460.4	461.3
16.5°	458.1	459.3
17°	456.0	457.0
17.5°	453.8	454.8
18°	451.4	452.4
18.5°	448.9	449.9
19°	446.4	447.2
19.5°	443.8	444.5
20°	440.9	441.5
20.5°	438.0	438.6
21°	434.9	435.4



TEST NUMBER: P710078

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
22.5°	425.2	425.5
23°	421.7	421.9
23.5°	418.3	418.3
24°	414.5	414.7
24.5°	410.9	410.7
25°	407.0	406.8
25.5°	403.1	402.8
26°	399.1	398.7
26.5°	395.1	394.6
27°	391.0	390.3
27.5°	386.8	386.0
28°	382.5	381.6
28.5°	378.1	377.1
29°	373.7	372.6
29.5°	369.2	368.1
30°	364.7	363.3
30.5°	360.0	358.7
31°	355.5	353.9
31.5°	350.7	349.0
32°	346.0	344.1
32.5°	341.2	339.1
33°	336.4	334.3
33.5°	331.5	329.3
34°	326.6	324.2
34.5°	321.8	319.2
35°	316.8	314.1
35.5°	311.7	309.1
36°	306.7	304.0
36.5°	301.8	298.9
37°	296.8	293.8
37.5°	291.8	288.6
38°	286.8	283.5
38.5°	281.8	278.6
39°	276.9	273.5
39.5°	271.8	268.4
40°	267.0	263.4
40.5°	262.3	258.4
41°	257.2	253.3
41.5°	252.3	248.4
42°	247.4	243.4
42.5°	242.6	238.6
43°	237.8	233.8
43.5°	233.0	229.1



TEST NUMBER: P710078

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	219.0	214.9
45.5°	214.4	210.3
46°	209.9	205.7
46.5°	205.4	201.4
47°	201.0	196.9
47.5°	196.7	192.5
48°	192.3	188.3
48.5°	188.0	184.2
49°	183.7	180.0
49.5°	179.6	175.8
50°	175.5	171.7
50.5°	171.5	167.6
51°	167.5	163.7
51.5°	163.6	159.7
52°	159.7	155.9
52.5°	155.8	152.2
53°	152.2	148.5
53.5°	148.4	144.9
54°	144.8	141.2
54.5°	141.2	137.7
55°	137.6	134.2
55.5°	134.2	130.9
56°	130.8	127.5
56.5°	127.4	124.2
57°	124.1	121.0
57.5°	120.8	117.8
58°	117.5	114.7
58.5°	114.4	111.6
59°	111.3	108.6
59.5°	108.3	105.6
60°	105.3	102.8
60.5°	102.3	99.8
61°	99.4	97.0
61.5°	96.7	94.2
62°	94.1	91.6
62.5°	91.5	88.9
63°	88.9	86.3
63.5°	86.3	83.7
64°	83.7	81.1
64.5°	81.1	78.6
65°	78.6	76.1
65.5°	76.1	73.8
66°	73.7	71.4



TEST NUMBER: P710078

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
67.5°	66.6	64.6
68°	64.4	62.4
68.5°	62.1	60.2
69°	60.0	58.1
69.5°	57.8	56.0
70°	55.7	54.0
70.5°	53.6	51.9
71°	51.6	49.9
71.5°	49.6	48.0
72°	47.6	46.1
72.5°	45.7	44.3
73°	43.8	42.5
73.5°	42.0	40.7
74°	40.2	38.9
74.5°	38.5	37.2
75°	36.8	35.6
75.5°	35.1	33.9
76°	33.5	32.3
76.5°	31.9	30.8
77°	30.3	29.3
77.5°	28.8	27.8
78°	27.4	26.4
78.5°	25.9	25.0
79°	24.6	23.5
79.5°	23.2	22.0
80°	21.7	20.4
80.5°	20.3	18.8
81°	18.8	17.2
81.5°	17.5	15.7
82°	16.2	14.3
82.5°	14.9	13.0
83°	13.7	11.9
83.5°	12.5	10.6
84°	11.3	9.3
84.5°	10.2	8.1
85°	9.1	6.9
85.5°	8.0	5.6
86°	6.9	4.4
86.5°	5.8	3.3
87°	4.9	2.2
87.5°	3.9	1.2
88°	3.3	0.8
88.5°	2.7	0.7



TEST NUMBER: P710078  
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-3000K

**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



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

Scaled Data Report





21.5°	432.3	425.8	419.7	411.5	401.1	399.0	398.7	405.9	412.5	419.6	429.1
22°	428.9	422.1	416.1	407.7	397.4	395.2	395.1	402.4	409.1	416.2	425.9



44°	224.3	213.5	209.7	205.2	197.0	197.3	197.9	205.9	211.6	218.7	228.5
44.5°	219.6	208.8	205.2	200.8	192.7	193.2	193.8	201.5	207.2	214.2	223.8



66.5°	69.1	64.7	62.0	59.6	56.8	57.4	58.3	61.8	64.6	68.1	72.1
67°	66.8	62.5	59.8	57.4	54.6	55.2	56.1	59.6	62.4	65.7	69.7



89°	0.5	1.4	0.8	0.1	0.0	0.0	0.0	0.5	1.6	1.6	3.2
89.5°	0.3	0.8	0.1	0.0	0.0	0.0	0.0	0.1	1.0	0.8	2.3



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

Scaled Data Report





21.5°	431.9	432.3
22°	428.5	428.9



44°	228.4	224.3
44.5°	223.6	219.6

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

Scaled Data Report



66.5°	71.4	69.1
67°	69.0	66.8

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

Scaled Data Report



89°	2.1	0.5
89.5°	1.6	0.3

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

Scaled Data Report



(END OF REPORT)