

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: P710080

Luminaire Tested: RA4LS9FSD2W1EWHDM-900lm-4000K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710080
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-4000K
Description: 4IN DM SELECTABLE LUMENS
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 4000K CCT
Ballast/Driver: -

Summary

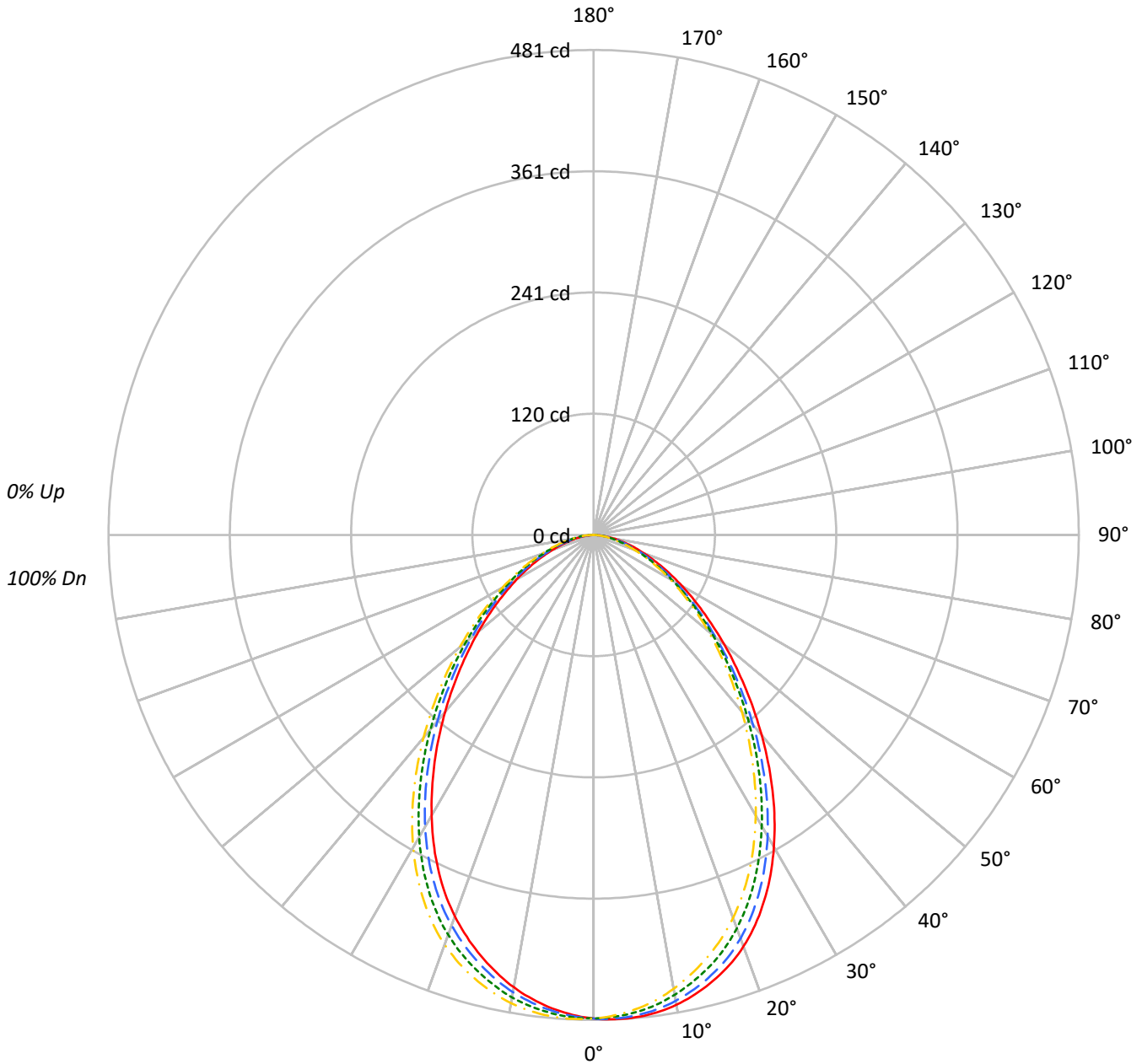
Lumens per Lamp: 896.88 (1 lamp)
Luminaire Lumens: 905.0 lumens
Efficiency: 100.9%
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.09 / 1.14
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.3
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-4000K

Luminous Intensity Polar Plot





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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	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101			101
1	111	107	104	100	109	105	102	99	101	98	96	97	95	93	93	92	90				88
2	103	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78				76
3	95	86	78	73	93	84	77	72	81	76	71	79	74	70	76	72	68				66
4	88	77	69	63	86	76	69	63	73	67	62	71	66	61	69	64	60				58
5	82	70	62	56	80	69	61	55	67	60	55	65	59	54	63	58	54				52
6	76	64	56	50	74	63	55	49	61	54	49	59	53	49	58	52	48				46
7	71	58	50	45	69	58	50	44	56	49	44	55	48	44	53	48	44				42
8	66	54	46	40	65	53	46	40	52	45	40	51	44	40	49	44	40				38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33				32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	60370	60370	60370	60370
5°	60664	60045	59552	60171
10°	60471	59180	58222	59525
15°	59646	57757	56298	58265
20°	58164	55606	53905	56504
25°	55572	52447	50712	53864
30°	51937	48420	46720	50280
35°	47473	43847	42219	45998
40°	42566	39067	37638	41367
45°	37625	34421	33211	36717
50°	33069	30151	29133	32364
55°	28962	26220	25430	28458
60°	25447	22703	22175	24969
65°	22304	19416	19029	22006
70°	19539	16337	15969	19134
75°	17019	13469	13129	16532
80°	14567	11668	10944	14495
85°	9819	9963	4043	14873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 300°
 Vertical Angle: 45°
 Luminance: 38390 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	45.1	5.0	5.0
10°-20°	125.2	13.8	14.0
20°-30°	175.5	19.4	19.6
30°-40°	182.2	20.1	20.3
40°-50°	154.1	17.0	17.2
50°-60°	111.7	12.3	12.5
60°-70°	69.4	7.7	7.7
70°-80°	33.4	3.7	3.7
80°-90°	8.5	0.9	0.9
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°	345.7	38.2	38.5
0°-40°	527.9	58.3	58.9
0°-60°	793.7	87.7	88.5
0°-90°	905.0	100.0	100.9
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°	905.0	100.0	100.9

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	480	480	480	480	480	
5°	480	475	471	476	480	46
15°	458	443	432	447	458	129
25°	400	378	365	388	400	183
35°	309	285	275	299	309	193
45°	211	193	187	206	211	163
55°	132	120	116	130	132	119
65°	75	65	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: P710080

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7
0.5°	480.1	480.2	480.0	479.4	479.2	479.3	479.2	479.6	479.7	479.5	479.8
1°	480.4	480.5	480.0	479.3	478.8	478.8	478.7	479.3	479.4	479.5	480.0
1.5°	480.7	480.6	480.0	479.1	478.4	478.3	478.1	478.7	479.0	479.4	480.2
2°	480.8	480.7	479.8	478.7	477.8	477.6	477.2	478.2	478.5	479.1	480.2
2.5°	480.9	480.7	479.6	478.3	477.1	476.9	476.5	477.5	478.1	478.9	480.1
3°	480.9	480.5	479.4	477.8	476.4	476.1	475.5	476.8	477.6	478.5	480.1
3.5°	480.9	480.3	479.0	477.3	475.6	475.3	474.6	475.9	476.9	478.1	479.9
4°	480.7	480.1	478.7	476.8	474.7	474.2	473.6	475.1	476.2	477.5	479.5
4.5°	480.5	479.6	478.2	476.0	473.8	473.2	472.4	474.1	475.4	477.0	479.3
5°	480.2	479.3	477.6	475.3	472.7	472.0	471.4	473.1	474.4	476.3	478.8
5.5°	480.0	478.7	477.0	474.5	471.7	470.9	470.2	472.0	473.6	475.5	478.4
6°	479.5	478.2	476.3	473.6	470.6	469.5	468.7	470.8	472.6	474.7	477.8
6.5°	479.0	477.6	475.6	472.6	469.2	468.2	467.4	469.5	471.4	473.9	477.1
7°	478.4	476.9	474.8	471.6	467.9	466.8	466.0	468.3	470.3	473.0	476.5
7.5°	477.8	476.1	473.8	470.3	466.5	465.2	464.4	466.9	469.2	472.0	475.6
8°	477.0	475.3	472.7	469.1	465.0	463.6	462.8	465.4	467.8	470.9	474.9
8.5°	476.2	474.3	471.5	467.7	463.3	461.9	461.3	463.9	466.5	469.7	473.9
9°	475.3	473.3	470.3	466.2	461.5	460.2	459.5	462.3	465.2	468.4	473.0
9.5°	474.4	472.1	468.8	464.6	459.6	458.3	457.6	460.7	463.6	467.2	471.9
10°	473.2	470.7	467.5	463.1	457.7	456.4	455.6	459.1	462.0	465.8	470.7
10.5°	472.0	469.4	465.9	461.3	455.8	454.2	453.7	457.3	460.5	464.3	469.5
11°	470.7	468.0	464.4	459.6	453.7	452.2	451.6	455.4	458.7	462.7	468.0
11.5°	469.4	466.5	462.8	457.8	451.6	449.9	449.3	453.4	456.8	461.0	466.6
12°	467.9	465.0	461.2	455.9	449.5	447.7	447.1	451.3	454.9	459.1	465.0
12.5°	466.4	463.4	459.4	454.0	447.2	445.4	444.7	449.1	453.0	457.3	463.4
13°	464.9	461.6	457.5	452.0	445.0	443.0	442.2	446.8	450.9	455.4	461.7
13.5°	463.2	459.8	455.7	450.0	442.7	440.6	439.8	444.5	448.7	453.5	460.0
14°	461.5	458.1	453.7	447.7	440.3	438.1	437.4	442.1	446.5	451.4	458.2
14.5°	459.7	456.2	451.7	445.6	437.8	435.5	434.8	439.7	444.3	449.3	456.4
15°	457.8	454.1	449.5	443.3	435.3	432.9	432.1	437.3	441.8	447.2	454.3
15.5°	455.9	452.1	447.3	441.1	432.6	430.2	429.5	434.7	439.6	444.9	452.4
16°	453.8	449.9	445.1	438.5	430.1	427.5	426.7	432.1	437.1	442.7	450.2
16.5°	451.8	447.7	442.7	435.9	427.2	424.6	423.9	429.4	434.6	440.4	448.0
17°	449.6	445.2	440.3	433.2	424.4	421.9	421.1	426.7	432.1	438.0	445.8
17.5°	447.4	442.8	437.6	430.6	421.5	418.9	418.0	423.9	429.4	435.4	443.6
18°	445.1	440.2	435.0	427.6	418.5	415.8	415.0	421.1	426.7	433.0	441.2
18.5°	442.6	437.5	432.1	424.7	415.3	412.6	412.0	418.1	423.9	430.3	438.7
19°	439.9	434.7	429.2	421.6	412.1	409.5	408.9	415.2	421.1	427.5	436.3
19.5°	437.2	431.7	426.0	418.4	408.8	406.4	405.7	412.0	418.2	424.7	433.6
20°	434.3	428.6	423.0	415.2	405.4	403.0	402.5	408.9	415.1	421.9	430.9
20.5°	431.4	425.4	419.7	411.8	401.8	399.5	399.0	405.7	412.2	419.0	428.1
21°	428.3	422.2	416.3	408.4	398.3	396.1	395.6	402.6	408.9	415.9	425.2



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CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	418.6	411.8	405.8	397.5	387.0	385.0	384.9	392.3	398.9	406.0	415.8
23°	415.0	408.0	401.9	393.6	383.2	381.1	381.1	388.8	395.3	402.6	412.4
23.5°	411.5	404.3	398.0	389.8	379.1	377.2	377.2	384.9	391.7	399.0	409.0
24°	407.9	400.4	394.2	385.8	375.0	373.2	373.4	381.2	388.0	395.5	405.5
24.5°	404.0	396.6	390.4	381.9	370.8	369.2	369.3	377.2	384.1	391.8	401.8
25°	400.2	392.6	386.2	377.7	366.8	365.0	365.2	373.4	380.2	387.9	398.2
25.5°	396.3	388.5	382.1	373.6	362.5	360.8	361.0	369.3	376.2	384.0	394.3
26°	392.2	384.3	377.8	369.4	358.1	356.6	356.8	365.2	372.2	380.0	390.5
26.5°	388.2	379.9	373.6	365.0	353.8	352.4	352.6	361.0	368.2	376.0	386.6
27°	383.9	375.6	369.2	360.5	349.4	347.8	348.2	356.8	363.8	371.9	382.5
27.5°	379.7	371.2	364.7	356.3	344.9	343.4	343.8	352.5	359.8	367.8	378.4
28°	375.4	366.7	360.2	351.7	340.5	339.0	339.4	348.2	355.4	363.5	374.3
28.5°	371.0	362.1	355.7	347.2	335.9	334.5	335.0	343.8	351.2	359.1	370.1
29°	366.5	357.3	351.1	342.5	331.4	330.0	330.5	339.5	346.8	354.9	365.8
29.5°	362.1	352.7	346.5	337.9	326.7	325.3	326.0	334.8	342.4	350.5	361.5
30°	357.4	347.9	341.7	333.2	322.1	320.7	321.5	330.4	337.8	346.0	357.1
30.5°	352.8	343.2	336.9	328.6	317.4	316.1	316.7	325.9	333.3	341.4	352.6
31°	348.1	338.3	332.2	323.9	312.7	311.4	312.2	321.3	328.7	337.0	348.1
31.5°	343.4	333.4	327.3	319.1	308.1	306.8	307.6	316.7	324.2	332.2	343.4
32°	338.5	328.3	322.5	314.4	303.4	302.1	302.9	312.0	319.4	327.7	338.8
32.5°	333.6	323.5	317.5	309.5	298.5	297.5	298.2	307.3	314.8	322.9	334.2
33°	328.8	318.5	312.7	304.7	293.8	292.8	293.5	302.7	310.0	318.3	329.5
33.5°	324.0	313.4	307.8	300.0	289.0	288.2	288.9	298.0	305.4	313.6	324.8
34°	318.9	308.4	302.8	295.0	284.2	283.4	284.0	293.2	300.6	308.9	320.0
34.5°	314.0	303.4	297.9	290.2	279.5	278.6	279.4	288.6	295.8	304.1	315.3
35°	309.0	298.3	292.9	285.4	274.7	274.1	274.8	283.9	291.2	299.4	310.5
35.5°	304.0	293.3	287.9	280.6	270.1	269.4	270.2	279.2	286.4	294.6	305.6
36°	299.0	288.1	282.9	275.7	265.3	264.7	265.5	274.5	281.6	289.8	300.8
36.5°	294.1	283.0	277.9	270.9	260.7	260.1	260.9	269.7	276.9	284.9	296.0
37°	289.1	278.1	273.0	266.2	255.9	255.6	256.2	265.0	272.1	280.2	291.2
37.5°	283.9	272.9	268.0	261.3	251.3	250.8	251.7	260.4	267.3	275.5	286.3
38°	278.9	267.9	263.2	256.6	246.6	246.3	247.2	255.7	262.6	270.8	281.5
38.5°	274.0	262.9	258.3	251.9	242.1	241.7	242.6	251.1	258.1	265.9	276.7
39°	269.0	258.0	253.4	247.1	237.5	237.2	238.0	246.5	253.3	261.1	271.7
39.5°	264.0	253.0	248.4	242.3	232.9	232.6	233.6	241.9	248.7	256.4	267.0
40°	259.1	248.1	243.7	237.8	228.4	228.2	229.1	237.5	244.0	251.8	262.2
40.5°	254.2	243.2	238.9	233.2	223.9	223.8	224.7	233.0	239.4	247.0	257.5
41°	249.2	238.4	234.1	228.6	219.5	219.4	220.3	228.5	234.8	242.4	252.7
41.5°	244.4	233.5	229.3	224.0	215.1	215.0	215.9	224.0	230.3	237.8	248.0
42°	239.4	228.6	224.6	219.5	210.7	210.8	211.6	219.7	225.8	233.2	243.3
42.5°	234.7	223.9	220.1	214.9	206.4	206.4	207.3	215.2	221.4	228.6	238.6
43°	230.0	219.2	215.4	210.5	202.1	202.3	203.1	210.9	216.9	224.0	234.0
43.5°	225.3	214.7	211.0	206.2	197.9	198.1	198.8	206.6	212.4	219.6	229.4



TEST NUMBER: P710080

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	211.4	201.0	197.5	193.4	185.5	186.0	186.6	194.2	199.6	206.3	215.7
45.5°	206.8	196.4	193.2	189.1	181.4	182.1	182.6	190.1	195.3	202.0	211.2
46°	202.4	192.1	189.0	185.1	177.4	178.1	178.6	186.1	191.1	197.7	206.9
46.5°	198.1	187.8	184.9	181.2	173.5	174.1	174.8	182.1	187.0	193.5	202.5
47°	193.7	183.6	180.8	177.2	169.6	170.2	171.0	178.1	182.9	189.4	198.2
47.5°	189.4	179.4	176.7	173.2	165.8	166.7	167.2	174.1	178.9	185.2	194.0
48°	185.3	175.2	172.6	169.2	162.1	162.9	163.3	170.1	175.0	181.0	189.9
48.5°	181.2	171.2	168.5	165.2	158.2	159.2	159.7	166.6	171.0	177.0	185.9
49°	177.1	167.1	164.6	161.4	154.7	155.6	156.1	162.8	167.0	173.1	181.9
49.5°	173.0	163.2	160.7	157.6	150.9	152.0	152.3	159.1	163.2	169.1	177.9
50°	168.9	159.4	156.8	154.0	147.4	148.4	148.8	155.5	159.5	165.3	173.9
50.5°	164.9	155.5	153.1	150.2	143.8	145.0	145.3	151.8	155.8	161.5	169.9
51°	161.0	151.6	149.4	146.6	140.4	141.6	142.0	148.3	152.3	157.7	165.8
51.5°	157.1	147.9	145.7	143.0	137.0	138.1	138.6	144.8	148.7	154.0	162.0
52°	153.4	144.5	142.1	139.4	133.6	134.7	135.2	141.3	145.1	150.4	158.2
52.5°	149.8	140.9	138.7	136.0	130.3	131.4	131.9	137.9	141.6	146.8	154.5
53°	146.1	137.4	135.2	132.6	127.1	128.2	128.5	134.5	138.0	143.3	150.9
53.5°	142.5	134.0	131.8	129.3	123.8	125.0	125.3	131.3	134.7	139.8	147.3
54°	138.9	130.7	128.4	126.0	120.7	121.8	122.2	128.0	131.4	136.4	143.6
54.5°	135.5	127.3	125.1	122.8	117.5	118.7	119.1	124.8	128.2	133.0	140.1
55°	132.0	124.0	121.8	119.5	114.4	115.6	115.9	121.6	124.9	129.7	136.7
55.5°	128.7	120.8	118.7	116.4	111.4	112.6	113.0	118.5	121.7	126.4	133.3
56°	125.4	117.7	115.6	113.3	108.4	109.6	110.0	115.5	118.6	123.2	130.0
56.5°	122.2	114.4	112.5	110.2	105.5	106.7	107.1	112.4	115.5	120.0	126.6
57°	119.0	111.6	109.5	107.3	102.5	103.8	104.1	109.5	112.5	116.9	123.4
57.5°	115.9	108.5	106.5	104.3	99.7	101.0	101.2	106.5	109.5	113.8	120.2
58°	112.8	105.6	103.6	101.4	96.9	98.1	98.4	103.6	106.5	110.8	117.1
58.5°	109.8	102.7	100.7	98.5	94.1	95.3	95.7	100.8	103.6	107.8	114.0
59°	106.8	99.8	97.9	95.8	91.6	92.7	93.1	98.0	100.7	104.9	111.1
59.5°	103.9	97.2	95.2	93.0	89.1	90.0	90.6	95.3	97.9	102.0	108.1
60°	101.1	94.4	92.4	90.2	86.6	87.3	88.1	92.6	95.1	99.2	105.1
60.5°	98.2	92.0	89.8	87.5	84.1	84.7	85.6	89.8	92.6	96.4	102.2
61°	95.4	89.5	87.1	84.9	81.5	82.1	83.1	87.2	90.1	93.5	99.4
61.5°	92.7	87.1	84.5	82.3	79.0	79.6	80.6	84.6	87.6	91.1	96.6
62°	90.1	84.6	82.0	79.8	76.5	77.1	78.0	82.0	85.1	88.7	93.8
62.5°	87.4	82.1	79.5	77.3	74.1	74.7	75.6	79.5	82.6	86.2	91.1
63°	84.9	79.7	77.1	74.8	71.6	72.2	73.2	77.1	80.1	83.8	88.4
63.5°	82.3	77.3	74.6	72.4	69.3	69.9	70.8	74.7	77.6	81.3	85.8
64°	79.8	74.9	72.3	70.0	66.9	67.5	68.5	72.2	75.2	78.8	83.2
64.5°	77.3	72.5	69.9	67.6	64.6	65.2	66.2	69.9	72.8	76.3	80.7
65°	74.9	70.2	67.6	65.2	62.4	63.0	63.9	67.5	70.4	73.9	78.2
65.5°	72.6	68.0	65.4	63.0	60.2	60.7	61.7	65.2	68.1	71.5	75.7
66°	70.3	65.8	63.2	60.8	58.0	58.6	59.5	63.0	65.8	69.3	73.3



TEST NUMBER: P710080

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	63.5	59.3	56.7	54.4	51.7	52.2	53.1	56.5	59.2	62.5	66.3
68°	61.4	57.3	54.7	52.3	49.7	50.2	51.1	54.4	57.1	60.3	64.0
68.5°	59.2	55.2	52.6	50.2	47.7	48.2	49.1	52.3	55.0	58.1	61.8
69°	57.2	53.2	50.6	48.3	45.7	46.3	47.2	50.3	52.9	56.1	59.7
69.5°	55.1	51.2	48.7	46.3	43.8	44.4	45.3	48.3	50.9	54.1	57.5
70°	53.1	49.3	46.8	44.4	42.0	42.5	43.4	46.4	49.0	52.0	55.4
70.5°	51.1	47.4	44.9	42.5	40.2	40.6	41.6	44.5	47.0	50.0	53.3
71°	49.1	45.6	43.0	40.7	38.4	38.8	39.7	42.7	45.1	48.1	51.3
71.5°	47.3	43.8	41.3	38.9	36.6	37.1	38.0	40.8	43.3	46.2	49.3
72°	45.4	41.9	39.5	37.2	35.0	35.4	36.3	39.1	41.5	44.3	47.3
72.5°	43.6	40.2	37.8	35.5	33.3	33.8	34.6	37.3	39.7	42.5	45.4
73°	41.8	38.5	36.1	33.9	31.7	32.2	33.0	35.7	38.0	40.7	43.6
73.5°	40.0	36.8	34.5	32.2	30.2	30.7	31.5	34.0	36.3	39.0	41.8
74°	38.3	35.2	32.9	30.7	28.7	29.1	29.9	32.4	34.7	37.2	39.9
74.5°	36.6	33.6	31.4	29.2	27.2	27.6	28.4	30.9	33.0	35.6	38.2
75°	35.0	32.0	29.9	27.7	25.8	26.2	27.0	29.4	31.5	34.0	36.5
75.5°	33.4	30.6	28.4	26.3	24.4	24.8	25.6	27.9	30.0	32.4	34.8
76°	31.8	29.1	27.0	24.9	23.1	23.5	24.3	26.5	28.5	30.9	33.2
76.5°	30.3	27.6	25.6	23.6	21.9	22.3	23.0	25.2	27.1	29.4	31.6
77°	28.8	26.3	24.3	22.3	20.8	21.1	21.8	23.9	25.7	27.9	30.1
77.5°	27.3	24.9	23.0	21.1	19.7	20.0	20.7	22.6	24.4	26.5	28.6
78°	26.0	23.6	21.7	19.9	18.7	19.0	19.5	21.5	23.1	25.1	27.1
78.5°	24.6	22.3	20.5	18.8	17.7	18.1	18.4	20.3	21.9	23.8	25.7
79°	23.2	21.1	19.3	17.8	16.9	17.2	17.4	19.3	20.7	22.5	24.4
79.5°	21.6	19.8	18.2	16.9	16.1	16.2	16.3	18.3	19.6	21.3	23.0
80°	20.1	18.6	17.1	16.1	15.2	15.2	15.1	17.3	18.6	20.0	21.7
80.5°	18.5	17.3	16.1	15.2	14.2	14.2	13.8	16.2	17.6	18.9	20.4
81°	16.9	16.1	15.2	14.2	13.3	13.1	12.6	15.1	16.7	17.8	19.2
81.5°	15.5	14.9	14.3	13.3	12.4	11.9	11.3	13.9	15.8	16.8	18.1
82°	14.1	13.8	13.4	12.4	11.5	10.9	10.0	12.8	14.8	15.9	16.9
82.5°	12.8	12.7	12.5	11.5	10.6	9.8	8.7	11.6	13.8	15.0	15.8
83°	11.7	11.6	11.6	10.6	9.6	8.7	7.6	10.4	12.9	14.0	14.8
83.5°	10.4	10.5	10.7	9.6	8.6	7.6	6.3	9.3	12.0	13.1	13.8
84°	9.2	9.5	9.7	8.6	7.7	6.5	5.0	8.1	11.0	12.1	12.9
84.5°	8.0	8.4	8.8	7.7	6.9	5.6	3.9	6.9	10.1	11.2	12.0
85°	6.8	7.3	7.9	6.9	6.0	4.6	2.8	5.8	9.1	10.3	11.2
85.5°	5.5	6.3	7.0	6.0	5.1	3.8	1.6	4.9	8.1	9.3	10.2
86°	4.3	5.4	6.1	4.9	4.1	3.1	0.9	3.9	7.2	8.2	9.2
86.5°	3.2	4.4	5.2	3.7	3.1	2.5	0.7	3.0	6.2	7.2	8.2
87°	2.1	3.6	4.2	2.8	2.3	2.0	0.5	2.4	5.2	6.0	7.3
87.5°	1.2	2.9	3.3	1.7	1.4	1.4	0.4	1.9	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	2.7	4.2



TEST NUMBER: P710080

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-4000K

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: P710080

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	479.7	479.7
0.5°	480.1	480.1
1°	480.3	480.4
1.5°	480.6	480.7
2°	480.7	480.8
2.5°	480.8	480.9
3°	480.8	480.9
3.5°	480.7	480.9
4°	480.4	480.7
4.5°	480.2	480.5
5°	479.9	480.2
5.5°	479.4	480.0
6°	479.0	479.5
6.5°	478.4	479.0
7°	477.7	478.4
7.5°	477.2	477.8
8°	476.3	477.0
8.5°	475.6	476.2
9°	474.6	475.3
9.5°	473.6	474.4
10°	472.5	473.2
10.5°	471.3	472.0
11°	469.9	470.7
11.5°	468.6	469.4
12°	467.0	467.9
12.5°	465.6	466.4
13°	463.9	464.9
13.5°	462.3	463.2
14°	460.6	461.5
14.5°	458.6	459.7
15°	456.8	457.8
15.5°	454.9	455.9
16°	452.9	453.8
16.5°	450.7	451.8
17°	448.6	449.6
17.5°	446.4	447.4
18°	444.0	445.1
18.5°	441.6	442.6
19°	439.1	439.9
19.5°	436.5	437.2
20°	433.7	434.3
20.5°	430.9	431.4
21°	427.8	428.3



TEST NUMBER: P710080

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	418.3	418.6
23°	414.8	415.0
23.5°	411.5	411.5
24°	407.8	407.9
24.5°	404.2	404.0
25°	400.4	400.2
25.5°	396.5	396.3
26°	392.6	392.2
26.5°	388.7	388.2
27°	384.6	383.9
27.5°	380.5	379.7
28°	376.3	375.4
28.5°	372.0	371.0
29°	367.6	366.5
29.5°	363.2	362.1
30°	358.8	357.4
30.5°	354.2	352.8
31°	349.7	348.1
31.5°	345.0	343.4
32°	340.4	338.5
32.5°	335.6	333.6
33°	330.9	328.8
33.5°	326.1	324.0
34°	321.3	318.9
34.5°	316.5	314.0
35°	311.6	309.0
35.5°	306.7	304.0
36°	301.7	299.0
36.5°	296.9	294.1
37°	292.0	289.1
37.5°	287.1	283.9
38°	282.1	278.9
38.5°	277.2	274.0
39°	272.4	269.0
39.5°	267.4	264.0
40°	262.6	259.1
40.5°	258.0	254.2
41°	253.0	249.2
41.5°	248.1	244.4
42°	243.4	239.4
42.5°	238.6	234.7
43°	233.9	230.0
43.5°	229.2	225.3



TEST NUMBER: P710080

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	215.4	211.4
45.5°	210.9	206.8
46°	206.5	202.4
46.5°	202.1	198.1
47°	197.8	193.7
47.5°	193.5	189.4
48°	189.2	185.3
48.5°	185.0	181.2
49°	180.8	177.1
49.5°	176.7	173.0
50°	172.6	168.9
50.5°	168.7	164.9
51°	164.7	161.0
51.5°	160.9	157.1
52°	157.1	153.4
52.5°	153.3	149.8
53°	149.7	146.1
53.5°	146.0	142.5
54°	142.4	138.9
54.5°	138.9	135.5
55°	135.4	132.0
55.5°	132.0	128.7
56°	128.6	125.4
56.5°	125.3	122.2
57°	122.1	119.0
57.5°	118.8	115.9
58°	115.6	112.8
58.5°	112.5	109.8
59°	109.5	106.8
59.5°	106.5	103.9
60°	103.6	101.1
60.5°	100.7	98.2
61°	97.8	95.4
61.5°	95.1	92.7
62°	92.5	90.1
62.5°	90.0	87.4
63°	87.4	84.9
63.5°	84.9	82.3
64°	82.4	79.8
64.5°	79.8	77.3
65°	77.3	74.9
65.5°	74.9	72.6
66°	72.5	70.3



TEST NUMBER: P710080

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	65.5	63.5
68°	63.3	61.4
68.5°	61.1	59.2
69°	59.0	57.2
69.5°	56.8	55.1
70°	54.8	53.1
70.5°	52.7	51.1
71°	50.7	49.1
71.5°	48.8	47.3
72°	46.9	45.4
72.5°	45.0	43.6
73°	43.1	41.8
73.5°	41.3	40.0
74°	39.5	38.3
74.5°	37.8	36.6
75°	36.2	35.0
75.5°	34.5	33.4
76°	32.9	31.8
76.5°	31.4	30.3
77°	29.8	28.8
77.5°	28.3	27.3
78°	26.9	26.0
78.5°	25.5	24.6
79°	24.2	23.2
79.5°	22.8	21.6
80°	21.4	20.1
80.5°	19.9	18.5
81°	18.5	16.9
81.5°	17.2	15.5
82°	15.9	14.1
82.5°	14.7	12.8
83°	13.5	11.7
83.5°	12.3	10.4
84°	11.1	9.2
84.5°	10.1	8.0
85°	9.0	6.8
85.5°	7.9	5.5
86°	6.8	4.3
86.5°	5.7	3.2
87°	4.8	2.1
87.5°	3.8	1.2
88°	3.2	0.8
88.5°	2.6	0.7



TEST NUMBER: P710080
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-4000K

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°	425.3	418.8	412.9	404.8	394.6	392.5	392.2	399.3	405.8	412.7	422.1
22°	421.9	415.3	409.3	401.1	391.0	388.8	388.7	395.9	402.4	409.5	419.0



44°	220.6	210.0	206.3	201.8	193.7	194.1	194.7	202.5	208.1	215.1	224.7
44.5°	216.0	205.4	201.9	197.5	189.6	190.0	190.6	198.2	203.8	210.7	220.2



66.5°	68.0	63.6	61.0	58.6	55.9	56.4	57.4	60.8	63.6	67.0	71.0
67°	65.7	61.4	58.8	56.4	53.7	54.3	55.2	58.6	61.4	64.7	68.6



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	0.9	0.8	2.3

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Scaled Data Report





21.5°	424.9	425.3
22°	421.5	421.9

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



44°	224.6	220.6
44.5°	220.0	216.0



66.5°	70.2	68.0
67°	67.8	65.7

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Scaled Data Report



89°	2.0	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)