

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: P710081

Luminaire Tested: RA4LS9FSD2W1EWHDM-900lm-5000K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710081
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-5000K
Description: 4IN DM SELECTABLE LUMENS
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 5000K CCT
Ballast/Driver: -

Summary

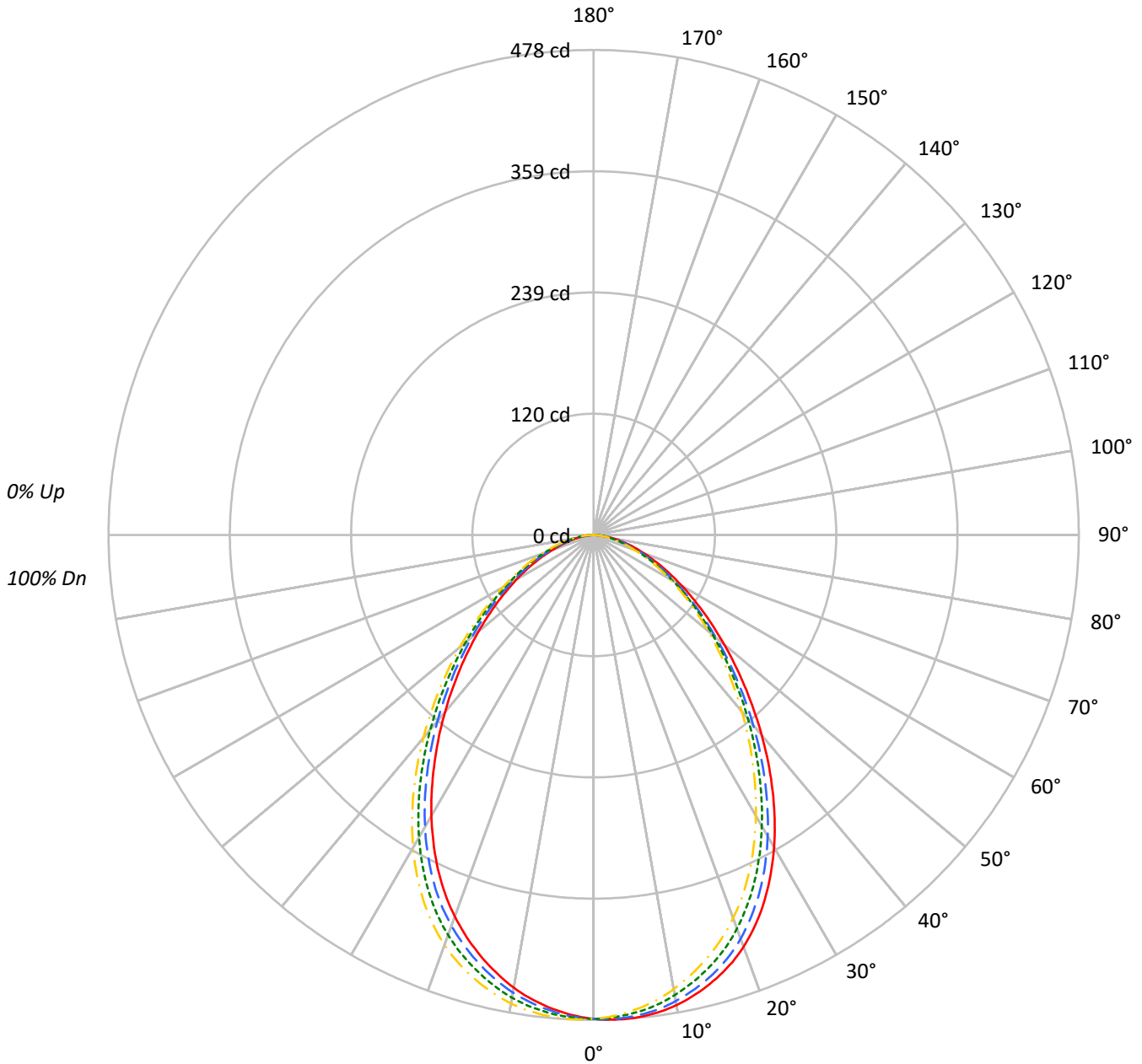
Lumens per Lamp: 896.88 (1 lamp)
Luminaire Lumens: 900.0 lumens
Efficiency: 100.3%
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.14
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.3
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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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	119	119	119	119	117	117	117	117	111	111	111	107	107	107	102	102	102	100				100															
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88				88															
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76															
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66				66															
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58															
5	81	70	61	55	79	68	61	55	66	60	55	65	59	54	63	58	53	52				52															
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46															
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42															
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38															
9	62	49	42	37	61	49	42	37	48	41	36	47	41	36	46	40	36	34				34															
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32				32															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	60030	60030	60030	60030
5°	60335	59704	59224	59843
10°	60139	58848	57902	59206
15°	59321	57432	55998	57940
20°	57843	55298	53611	56196
25°	55266	52156	50434	53558
30°	51646	48159	46458	50004
35°	47196	43601	41988	45737
40°	42320	38837	37441	41137
45°	37411	34225	33033	36521
50°	32873	29975	28977	32187
55°	28809	26088	25298	28304
60°	25296	22577	22049	24818
65°	22185	19326	18939	21887
70°	19428	16264	15859	19024
75°	16921	13420	13031	16435
80°	14422	11596	10871	14422
85°	9819	9819	3899	14728

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 300°
 Vertical Angle: 45°
 Luminance: 38176 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	44.8	5.0	5.0
10°-20°	124.5	13.8	13.9
20°-30°	174.5	19.4	19.5
30°-40°	181.2	20.1	20.2
40°-50°	153.2	17.0	17.1
50°-60°	111.1	12.3	12.4
60°-70°	69.0	7.7	7.7
70°-80°	33.2	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°	343.8	38.2	38.3
0°-40°	525.0	58.3	58.5
0°-60°	789.3	87.7	88.0
0°-90°	900.0	100.0	100.3
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°	900.0	100.0	100.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	477	477	477	477	477	
5°	478	473	469	474	478	45
15°	455	441	430	445	455	128
25°	398	376	363	386	398	182
35°	307	284	273	298	307	192
45°	210	192	186	205	210	162
55°	131	119	115	129	131	118
65°	74	65	64	74	74	74
75°	35	28	27	34	35	37
85°	7	7	3	10	7	8
90°	0	0	0	0	0	



TEST NUMBER: P710081

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0
0.5°	477.4	477.6	477.3	476.8	476.5	476.7	476.6	477.0	477.0	476.9	477.1
1°	477.7	477.9	477.4	476.7	476.1	476.2	476.0	476.7	476.8	476.8	477.4
1.5°	478.0	478.0	477.3	476.5	475.7	475.7	475.5	476.1	476.3	476.7	477.5
2°	478.1	478.0	477.2	476.0	475.1	475.0	474.6	475.5	475.9	476.5	477.5
2.5°	478.3	478.0	477.0	475.7	474.5	474.3	473.9	474.8	475.5	476.3	477.5
3°	478.2	477.9	476.8	475.2	473.8	473.4	472.9	474.1	475.0	475.9	477.4
3.5°	478.2	477.6	476.4	474.7	473.0	472.7	472.0	473.3	474.3	475.5	477.2
4°	478.1	477.4	476.1	474.1	472.1	471.6	471.0	472.4	473.5	474.9	476.9
4.5°	477.9	477.0	475.5	473.4	471.2	470.6	469.8	471.5	472.8	474.3	476.6
5°	477.6	476.7	475.0	472.6	470.1	469.4	468.8	470.4	471.8	473.7	476.1
5.5°	477.3	476.1	474.3	471.9	469.1	468.3	467.6	469.3	471.0	472.9	475.7
6°	476.8	475.6	473.6	471.0	468.0	466.9	466.1	468.2	470.0	472.1	475.2
6.5°	476.3	475.0	472.9	470.0	466.6	465.6	464.8	466.9	468.8	471.2	474.5
7°	475.7	474.2	472.2	469.0	465.3	464.2	463.4	465.7	467.7	470.4	473.8
7.5°	475.1	473.5	471.2	467.7	463.9	462.6	461.9	464.3	466.6	469.4	473.0
8°	474.3	472.7	470.1	466.5	462.4	461.0	460.3	462.9	465.3	468.3	472.3
8.5°	473.5	471.7	468.9	465.1	460.8	459.4	458.7	461.4	464.0	467.1	471.3
9°	472.7	470.7	467.7	463.6	459.0	457.6	456.9	459.8	462.6	465.9	470.4
9.5°	471.8	469.4	466.2	462.1	457.1	455.8	455.1	458.2	461.1	464.6	469.3
10°	470.6	468.1	464.9	460.5	455.2	453.8	453.1	456.5	459.4	463.3	468.1
10.5°	469.4	466.9	463.3	458.8	453.3	451.7	451.2	454.7	457.9	461.7	466.9
11°	468.1	465.4	461.8	457.0	451.2	449.7	449.1	452.9	456.1	460.1	465.4
11.5°	466.8	463.9	460.3	455.3	449.1	447.4	446.9	450.9	454.3	458.5	464.0
12°	465.3	462.4	458.6	453.4	447.0	445.3	444.6	448.8	452.3	456.6	462.5
12.5°	463.8	460.8	456.9	451.5	444.8	442.9	442.2	446.6	450.5	454.8	460.8
13°	462.3	459.1	455.0	449.5	442.6	440.6	439.8	444.3	448.4	452.9	459.2
13.5°	460.7	457.3	453.2	447.5	440.2	438.1	437.4	442.0	446.2	451.0	457.4
14°	458.9	455.5	451.2	445.2	437.9	435.7	435.0	439.6	444.0	448.9	455.7
14.5°	457.1	453.7	449.2	443.2	435.4	433.1	432.4	437.3	441.9	446.8	453.9
15°	455.3	451.6	447.1	440.8	432.9	430.5	429.8	434.8	439.4	444.7	451.8
15.5°	453.4	449.6	444.8	438.6	430.2	427.8	427.1	432.3	437.1	442.5	449.9
16°	451.3	447.4	442.6	436.1	427.7	425.2	424.3	429.7	434.7	440.2	447.7
16.5°	449.3	445.2	440.2	433.5	424.8	422.2	421.6	427.0	432.2	437.9	445.6
17°	447.1	442.7	437.8	430.8	422.0	419.5	418.8	424.4	429.7	435.5	443.4
17.5°	444.9	440.4	435.2	428.2	419.1	416.6	415.7	421.5	427.0	433.0	441.1
18°	442.6	437.8	432.6	425.3	416.2	413.5	412.8	418.8	424.3	430.6	438.8
18.5°	440.1	435.1	429.7	422.4	413.0	410.4	409.7	415.8	421.6	427.9	436.3
19°	437.5	432.3	426.8	419.3	409.8	407.3	406.6	412.9	418.8	425.2	433.9
19.5°	434.8	429.4	423.7	416.1	406.6	404.1	403.5	409.8	415.9	422.4	431.2
20°	431.9	426.2	420.7	412.9	403.1	400.8	400.3	406.7	412.8	419.6	428.5
20.5°	429.0	423.1	417.4	409.6	399.6	397.3	396.8	403.5	409.9	416.7	425.8
21°	425.9	419.9	414.0	406.1	396.1	393.9	393.4	400.4	406.7	413.6	422.8



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	416.3	409.6	403.5	395.3	384.9	382.9	382.7	390.1	396.7	403.8	413.5
23°	412.7	405.8	399.7	391.4	381.1	379.0	379.0	386.6	393.1	400.3	410.1
23.5°	409.2	402.0	395.8	387.7	377.0	375.1	375.1	382.8	389.5	396.8	406.7
24°	405.6	398.2	392.0	383.7	372.9	371.1	371.3	379.0	385.9	393.3	403.2
24.5°	401.8	394.4	388.2	379.8	368.7	367.2	367.2	375.2	381.9	389.6	399.6
25°	398.0	390.4	384.1	375.6	364.7	363.0	363.2	371.3	378.1	385.7	396.0
25.5°	394.1	386.3	380.0	371.6	360.5	358.8	359.0	367.2	374.2	381.9	392.1
26°	390.1	382.1	375.7	367.3	356.1	354.6	354.8	363.2	370.2	377.9	388.4
26.5°	386.1	377.8	371.6	363.0	351.9	350.4	350.6	359.0	366.1	373.9	384.4
27°	381.8	373.5	367.2	358.5	347.5	345.9	346.3	354.9	361.8	369.9	380.4
27.5°	377.6	369.1	362.7	354.3	343.0	341.5	341.9	350.6	357.8	365.7	376.3
28°	373.3	364.7	358.2	349.8	338.6	337.1	337.5	346.3	353.4	361.5	372.2
28.5°	369.0	360.1	353.7	345.2	334.1	332.6	333.2	341.9	349.2	357.2	368.0
29°	364.5	355.4	349.2	340.6	329.5	328.1	328.7	337.6	344.9	352.9	363.7
29.5°	360.1	350.7	344.6	336.0	324.9	323.5	324.2	333.0	340.5	348.5	359.5
30°	355.4	346.0	339.8	331.4	320.4	318.9	319.7	328.6	336.0	344.1	355.1
30.5°	350.9	341.3	335.1	326.8	315.7	314.4	314.9	324.1	331.4	339.6	350.7
31°	346.2	336.5	330.4	322.1	311.0	309.7	310.5	319.5	326.9	335.1	346.1
31.5°	341.5	331.5	325.5	317.4	306.4	305.1	305.9	315.0	322.4	330.4	341.5
32°	336.6	326.5	320.7	312.7	301.7	300.5	301.3	310.3	317.7	325.9	336.9
32.5°	331.8	321.7	315.7	307.8	296.9	295.8	296.5	305.7	313.0	321.2	332.3
33°	327.0	316.7	311.0	303.1	292.2	291.2	291.8	301.0	308.3	316.5	327.7
33.5°	322.2	311.6	306.1	298.3	287.4	286.6	287.3	296.3	303.7	311.9	323.0
34°	317.2	306.7	301.1	293.4	282.6	281.9	282.5	291.6	299.0	307.2	318.3
34.5°	312.3	301.7	296.2	288.6	277.9	277.1	277.9	287.0	294.2	302.4	313.5
35°	307.2	296.6	291.3	283.8	273.2	272.6	273.3	282.3	289.5	297.7	308.8
35.5°	302.3	291.7	286.3	279.0	268.6	267.9	268.7	277.6	284.9	293.0	303.9
36°	297.4	286.5	281.4	274.2	263.8	263.2	264.1	273.0	280.1	288.2	299.1
36.5°	292.4	281.5	276.4	269.4	259.2	258.7	259.5	268.2	275.3	283.3	294.4
37°	287.5	276.5	271.5	264.7	254.5	254.2	254.8	263.6	270.6	278.7	289.6
37.5°	282.4	271.4	266.5	259.9	249.9	249.4	250.3	259.0	265.9	274.0	284.7
38°	277.4	266.5	261.7	255.2	245.2	244.9	245.8	254.3	261.2	269.3	280.0
38.5°	272.5	261.4	256.9	250.5	240.7	240.4	241.3	249.7	256.7	264.4	275.2
39°	267.5	256.6	252.0	245.7	236.2	235.9	236.7	245.2	251.9	259.7	270.2
39.5°	262.6	251.6	247.0	241.0	231.6	231.4	232.3	240.6	247.4	255.0	265.5
40°	257.6	246.7	242.3	236.4	227.1	226.9	227.9	236.1	242.6	250.4	260.8
40.5°	252.8	241.9	237.6	231.9	222.7	222.5	223.4	231.7	238.1	245.6	256.1
41°	247.8	237.0	232.8	227.3	218.3	218.2	219.0	227.2	233.5	241.1	251.3
41.5°	243.0	232.2	228.0	222.8	213.9	213.8	214.7	222.8	229.0	236.5	246.6
42°	238.1	227.4	223.3	218.3	209.6	209.6	210.5	218.4	224.5	231.9	241.9
42.5°	233.4	222.6	218.8	213.7	205.2	205.3	206.2	214.0	220.2	227.3	237.2
43°	228.7	218.0	214.2	209.3	201.0	201.1	201.9	209.7	215.7	222.8	232.7
43.5°	224.1	213.5	209.9	205.0	196.8	197.0	197.7	205.5	211.2	218.4	228.1



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	210.2	199.8	196.4	192.3	184.4	185.0	185.6	193.1	198.5	205.2	214.5
45.5°	205.7	195.3	192.1	188.1	180.4	181.0	181.6	189.0	194.3	200.9	210.1
46°	201.3	191.0	188.0	184.1	176.5	177.1	177.6	185.0	190.1	196.6	205.7
46.5°	197.0	186.7	183.9	180.2	172.5	173.1	173.8	181.1	185.9	192.4	201.4
47°	192.6	182.5	179.8	176.2	168.6	169.2	170.0	177.1	181.9	188.3	197.1
47.5°	188.3	178.4	175.7	172.2	164.9	165.7	166.2	173.1	178.0	184.1	192.9
48°	184.2	174.3	171.6	168.3	161.2	162.0	162.4	169.2	174.0	180.0	188.8
48.5°	180.2	170.2	167.5	164.3	157.4	158.4	158.8	165.7	170.0	176.0	184.8
49°	176.1	166.1	163.6	160.5	153.8	154.8	155.2	161.9	166.1	172.1	180.9
49.5°	172.0	162.3	159.8	156.7	150.1	151.2	151.5	158.2	162.3	168.2	176.9
50°	167.9	158.5	156.0	153.1	146.5	147.6	148.0	154.6	158.6	164.4	172.9
50.5°	164.0	154.6	152.2	149.4	143.0	144.2	144.5	151.0	155.0	160.6	169.0
51°	160.1	150.8	148.5	145.8	139.6	140.8	141.2	147.5	151.4	156.9	164.9
51.5°	156.3	147.1	144.9	142.2	136.3	137.3	137.8	144.0	147.8	153.2	161.1
52°	152.5	143.7	141.3	138.7	132.9	134.0	134.4	140.6	144.3	149.5	157.3
52.5°	148.9	140.1	138.0	135.3	129.5	130.7	131.1	137.1	140.8	146.0	153.6
53°	145.3	136.6	134.4	131.9	126.4	127.5	127.8	133.8	137.3	142.6	150.0
53.5°	141.7	133.2	131.0	128.6	123.1	124.3	124.7	130.5	133.9	139.1	146.4
54°	138.2	129.9	127.7	125.3	120.0	121.2	121.5	127.3	130.7	135.7	142.8
54.5°	134.7	126.6	124.4	122.2	116.9	118.0	118.4	124.1	127.5	132.3	139.3
55°	131.3	123.3	121.2	118.9	113.8	115.0	115.3	121.0	124.2	129.0	136.0
55.5°	128.0	120.2	118.1	115.8	110.8	112.0	112.4	117.8	121.0	125.7	132.6
56°	124.7	117.0	114.9	112.7	107.8	109.0	109.4	114.8	117.9	122.5	129.2
56.5°	121.5	113.8	111.9	109.6	104.9	106.1	106.5	111.8	114.8	119.3	125.9
57°	118.4	111.0	108.9	106.7	101.9	103.3	103.6	108.9	111.8	116.2	122.7
57.5°	115.3	107.9	105.9	103.7	99.2	100.4	100.7	105.9	108.9	113.2	119.6
58°	112.2	105.0	103.0	100.8	96.3	97.6	97.9	103.1	105.9	110.2	116.5
58.5°	109.2	102.1	100.2	98.0	93.6	94.8	95.1	100.2	103.0	107.2	113.4
59°	106.2	99.3	97.4	95.2	91.1	92.1	92.6	97.5	100.2	104.3	110.4
59.5°	103.3	96.6	94.6	92.5	88.6	89.5	90.1	94.7	97.3	101.4	107.5
60°	100.5	93.9	91.9	89.7	86.1	86.8	87.6	92.0	94.6	98.6	104.5
60.5°	97.7	91.5	89.3	87.1	83.6	84.2	85.1	89.3	92.1	95.8	101.7
61°	94.9	89.0	86.7	84.5	81.1	81.7	82.6	86.7	89.6	93.0	98.8
61.5°	92.2	86.6	84.1	81.9	78.6	79.1	80.1	84.1	87.1	90.6	96.0
62°	89.6	84.1	81.5	79.3	76.1	76.7	77.6	81.6	84.6	88.2	93.3
62.5°	86.9	81.7	79.1	76.8	73.7	74.3	75.2	79.1	82.1	85.8	90.6
63°	84.4	79.2	76.7	74.3	71.2	71.8	72.8	76.7	79.6	83.3	87.9
63.5°	81.9	76.8	74.2	72.0	68.9	69.5	70.4	74.2	77.2	80.8	85.3
64°	79.4	74.4	71.9	69.6	66.6	67.2	68.1	71.8	74.8	78.4	82.7
64.5°	76.9	72.1	69.5	67.2	64.3	64.9	65.8	69.5	72.4	75.9	80.3
65°	74.5	69.8	67.2	64.9	62.1	62.6	63.6	67.2	70.1	73.5	77.7
65.5°	72.2	67.6	65.0	62.6	59.8	60.4	61.3	64.9	67.7	71.1	75.3
66°	69.9	65.4	62.8	60.5	57.7	58.3	59.2	62.7	65.4	68.9	72.9



TEST NUMBER: P710081

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	63.2	59.0	56.4	54.1	51.4	51.9	52.8	56.2	58.9	62.1	65.9
68°	61.0	56.9	54.4	52.0	49.4	50.0	50.8	54.1	56.8	60.0	63.7
68.5°	58.9	54.9	52.3	50.0	47.4	47.9	48.8	52.0	54.7	57.8	61.5
69°	56.8	52.9	50.4	48.0	45.5	46.0	46.9	50.0	52.6	55.8	59.3
69.5°	54.8	51.0	48.4	46.1	43.6	44.1	45.0	48.1	50.6	53.8	57.2
70°	52.8	49.0	46.5	44.2	41.8	42.2	43.1	46.2	48.7	51.7	55.1
70.5°	50.8	47.1	44.6	42.3	40.0	40.4	41.3	44.3	46.8	49.8	53.0
71°	48.8	45.3	42.8	40.5	38.2	38.6	39.5	42.4	44.9	47.8	51.0
71.5°	47.0	43.5	41.0	38.7	36.4	36.9	37.8	40.6	43.0	45.9	49.1
72°	45.1	41.7	39.3	37.0	34.8	35.2	36.1	38.9	41.2	44.0	47.1
72.5°	43.3	40.0	37.6	35.3	33.1	33.6	34.4	37.1	39.5	42.3	45.2
73°	41.6	38.3	35.9	33.7	31.5	32.0	32.8	35.5	37.8	40.5	43.3
73.5°	39.8	36.6	34.3	32.1	30.0	30.5	31.3	33.8	36.1	38.7	41.5
74°	38.1	35.0	32.7	30.5	28.5	29.0	29.8	32.3	34.5	37.0	39.7
74.5°	36.4	33.4	31.2	29.0	27.1	27.5	28.3	30.7	32.9	35.4	38.0
75°	34.8	31.9	29.7	27.6	25.6	26.1	26.8	29.3	31.3	33.8	36.3
75.5°	33.2	30.4	28.2	26.1	24.3	24.7	25.5	27.8	29.8	32.2	34.7
76°	31.6	28.9	26.8	24.8	23.0	23.4	24.1	26.4	28.4	30.7	33.0
76.5°	30.1	27.5	25.5	23.5	21.8	22.2	22.9	25.0	27.0	29.2	31.4
77°	28.6	26.1	24.1	22.2	20.7	21.0	21.7	23.7	25.6	27.8	29.9
77.5°	27.2	24.7	22.8	21.0	19.6	19.9	20.6	22.5	24.2	26.4	28.4
78°	25.8	23.5	21.6	19.8	18.6	18.9	19.4	21.3	23.0	25.0	27.0
78.5°	24.5	22.2	20.4	18.7	17.6	18.0	18.3	20.2	21.7	23.7	25.6
79°	23.0	20.9	19.2	17.7	16.8	17.1	17.3	19.2	20.6	22.4	24.2
79.5°	21.5	19.7	18.1	16.8	16.0	16.1	16.2	18.2	19.5	21.1	22.9
80°	19.9	18.5	17.0	16.0	15.1	15.2	15.0	17.2	18.5	19.9	21.6
80.5°	18.4	17.2	16.1	15.1	14.2	14.1	13.8	16.1	17.5	18.8	20.3
81°	16.8	16.0	15.1	14.2	13.2	13.0	12.6	15.0	16.6	17.7	19.1
81.5°	15.4	14.9	14.2	13.2	12.3	11.9	11.3	13.9	15.7	16.7	18.0
82°	14.0	13.7	13.3	12.3	11.4	10.8	9.9	12.7	14.7	15.8	16.8
82.5°	12.8	12.6	12.4	11.4	10.5	9.8	8.7	11.5	13.8	14.9	15.8
83°	11.6	11.5	11.5	10.5	9.5	8.6	7.5	10.4	12.8	13.9	14.7
83.5°	10.4	10.5	10.6	9.5	8.6	7.5	6.2	9.2	11.9	13.0	13.8
84°	9.1	9.4	9.7	8.6	7.7	6.5	5.0	8.1	11.0	12.1	12.8
84.5°	8.0	8.4	8.7	7.7	6.9	5.5	3.9	6.9	10.0	11.2	12.0
85°	6.8	7.3	7.8	6.8	6.0	4.6	2.7	5.8	9.0	10.2	11.1
85.5°	5.5	6.3	7.0	5.9	5.0	3.8	1.6	4.8	8.1	9.2	10.1
86°	4.3	5.3	6.1	4.8	4.1	3.1	0.9	3.8	7.2	8.1	9.1
86.5°	3.2	4.4	5.2	3.7	3.1	2.5	0.7	2.9	6.2	7.2	8.2
87°	2.1	3.6	4.2	2.8	2.3	2.0	0.5	2.4	5.1	6.0	7.3
87.5°	1.1	2.9	3.3	1.7	1.4	1.4	0.4	1.9	4.1	4.8	6.3
88°	0.8	2.4	2.4	0.6	0.6	0.8	0.2	1.5	3.0	3.7	5.3
88.5°	0.7	1.9	1.5	0.2	0.1	0.1	0.1	1.0	2.2	2.7	4.2



TEST NUMBER: P710081

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-5000K

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: P710081

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	477.0	477.0
0.5°	477.4	477.4
1°	477.7	477.7
1.5°	478.0	478.0
2°	478.0	478.1
2.5°	478.2	478.3
3°	478.1	478.2
3.5°	478.0	478.2
4°	477.8	478.1
4.5°	477.6	477.9
5°	477.2	477.6
5.5°	476.8	477.3
6°	476.3	476.8
6.5°	475.8	476.3
7°	475.1	475.7
7.5°	474.5	475.1
8°	473.7	474.3
8.5°	473.0	473.5
9°	472.0	472.7
9.5°	471.0	471.8
10°	469.9	470.6
10.5°	468.7	469.4
11°	467.3	468.1
11.5°	466.0	466.8
12°	464.4	465.3
12.5°	463.0	463.8
13°	461.4	462.3
13.5°	459.7	460.7
14°	458.0	458.9
14.5°	456.1	457.1
15°	454.3	455.3
15.5°	452.4	453.4
16°	450.4	451.3
16.5°	448.2	449.3
17°	446.1	447.1
17.5°	443.9	444.9
18°	441.6	442.6
18.5°	439.1	440.1
19°	436.7	437.5
19.5°	434.1	434.8
20°	431.3	431.9
20.5°	428.5	429.0
21°	425.4	425.9



TEST NUMBER: P710081

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	416.0	416.3
23°	412.6	412.7
23.5°	409.2	409.2
24°	405.5	405.6
24.5°	402.0	401.8
25°	398.2	398.0
25.5°	394.3	394.1
26°	390.5	390.1
26.5°	386.5	386.1
27°	382.5	381.8
27.5°	378.4	377.6
28°	374.2	373.3
28.5°	369.9	369.0
29°	365.6	364.5
29.5°	361.2	360.1
30°	356.8	355.4
30.5°	352.2	350.9
31°	347.7	346.2
31.5°	343.1	341.5
32°	338.5	336.6
32.5°	333.8	331.8
33°	329.0	327.0
33.5°	324.3	322.2
34°	319.5	317.2
34.5°	314.8	312.3
35°	309.9	307.2
35.5°	305.0	302.3
36°	300.1	297.4
36.5°	295.2	292.4
37°	290.4	287.5
37.5°	285.5	282.4
38°	280.6	277.4
38.5°	275.7	272.5
39°	270.9	267.5
39.5°	265.9	262.6
40°	261.2	257.6
40.5°	256.6	252.8
41°	251.6	247.8
41.5°	246.8	243.0
42°	242.1	238.1
42.5°	237.3	233.4
43°	232.6	228.7
43.5°	228.0	224.1



TEST NUMBER: P710081

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	214.2	210.2
45.5°	209.8	205.7
46°	205.4	201.3
46.5°	201.0	197.0
47°	196.7	192.6
47.5°	192.4	188.3
48°	188.1	184.2
48.5°	183.9	180.2
49°	179.8	176.1
49.5°	175.7	172.0
50°	171.7	167.9
50.5°	167.7	164.0
51°	163.8	160.1
51.5°	160.0	156.3
52°	156.3	152.5
52.5°	152.4	148.9
53°	148.9	145.3
53.5°	145.2	141.7
54°	141.6	138.2
54.5°	138.1	134.7
55°	134.6	131.3
55.5°	131.2	128.0
56°	127.9	124.7
56.5°	124.6	121.5
57°	121.4	118.4
57.5°	118.2	115.3
58°	115.0	112.2
58.5°	111.9	109.2
59°	108.9	106.2
59.5°	105.9	103.3
60°	103.0	100.5
60.5°	100.1	97.7
61°	97.3	94.9
61.5°	94.6	92.2
62°	92.0	89.6
62.5°	89.5	86.9
63°	87.0	84.4
63.5°	84.4	81.9
64°	81.9	79.4
64.5°	79.4	76.9
65°	76.9	74.5
65.5°	74.5	72.2
66°	72.1	69.9



TEST NUMBER: P710081
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	65.2	63.2
68°	63.0	61.0
68.5°	60.8	58.9
69°	58.7	56.8
69.5°	56.5	54.8
70°	54.5	52.8
70.5°	52.4	50.8
71°	50.4	48.8
71.5°	48.5	47.0
72°	46.6	45.1
72.5°	44.7	43.3
73°	42.9	41.6
73.5°	41.1	39.8
74°	39.3	38.1
74.5°	37.6	36.4
75°	36.0	34.8
75.5°	34.3	33.2
76°	32.7	31.6
76.5°	31.2	30.1
77°	29.7	28.6
77.5°	28.2	27.2
78°	26.8	25.8
78.5°	25.4	24.5
79°	24.0	23.0
79.5°	22.7	21.5
80°	21.3	19.9
80.5°	19.8	18.4
81°	18.4	16.8
81.5°	17.1	15.4
82°	15.8	14.0
82.5°	14.6	12.8
83°	13.4	11.6
83.5°	12.2	10.4
84°	11.1	9.1
84.5°	10.0	8.0
85°	8.9	6.8
85.5°	7.8	5.5
86°	6.7	4.3
86.5°	5.7	3.2
87°	4.7	2.1
87.5°	3.8	1.1
88°	3.2	0.8
88.5°	2.6	0.7



TEST NUMBER: P710081
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-5000K

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°	422.9	416.5	410.6	402.5	392.4	390.4	390.0	397.1	403.5	410.5	419.8
22°	419.6	413.0	407.0	398.9	388.8	386.7	386.5	393.7	400.2	407.2	416.6



44°	219.4	208.8	205.2	200.7	192.7	193.0	193.6	201.4	207.0	213.9	223.5
44.5°	214.8	204.3	200.7	196.4	188.6	189.0	189.6	197.1	202.7	209.5	219.0



66.5°	67.6	63.2	60.7	58.3	55.6	56.1	57.0	60.5	63.2	66.6	70.6
67°	65.3	61.1	58.5	56.1	53.4	54.0	54.9	58.3	61.0	64.3	68.2



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

Scaled Data Report





21.5°	422.5	422.9
22°	419.2	419.6



44°	223.4	219.4
44.5°	218.8	214.8

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



66.5°	69.8	67.6
67°	67.5	65.3



89°	2.0	0.5
89.5°	1.5	0.3

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)