

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: P710077

Luminaire Tested: RA4LS9FSD2W1EWHDM-900lm-2700K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710077
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-2700K
Description: 4IN DM SELECTABLE LUMENS
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 2700K CCT
Ballast/Driver: -

Summary

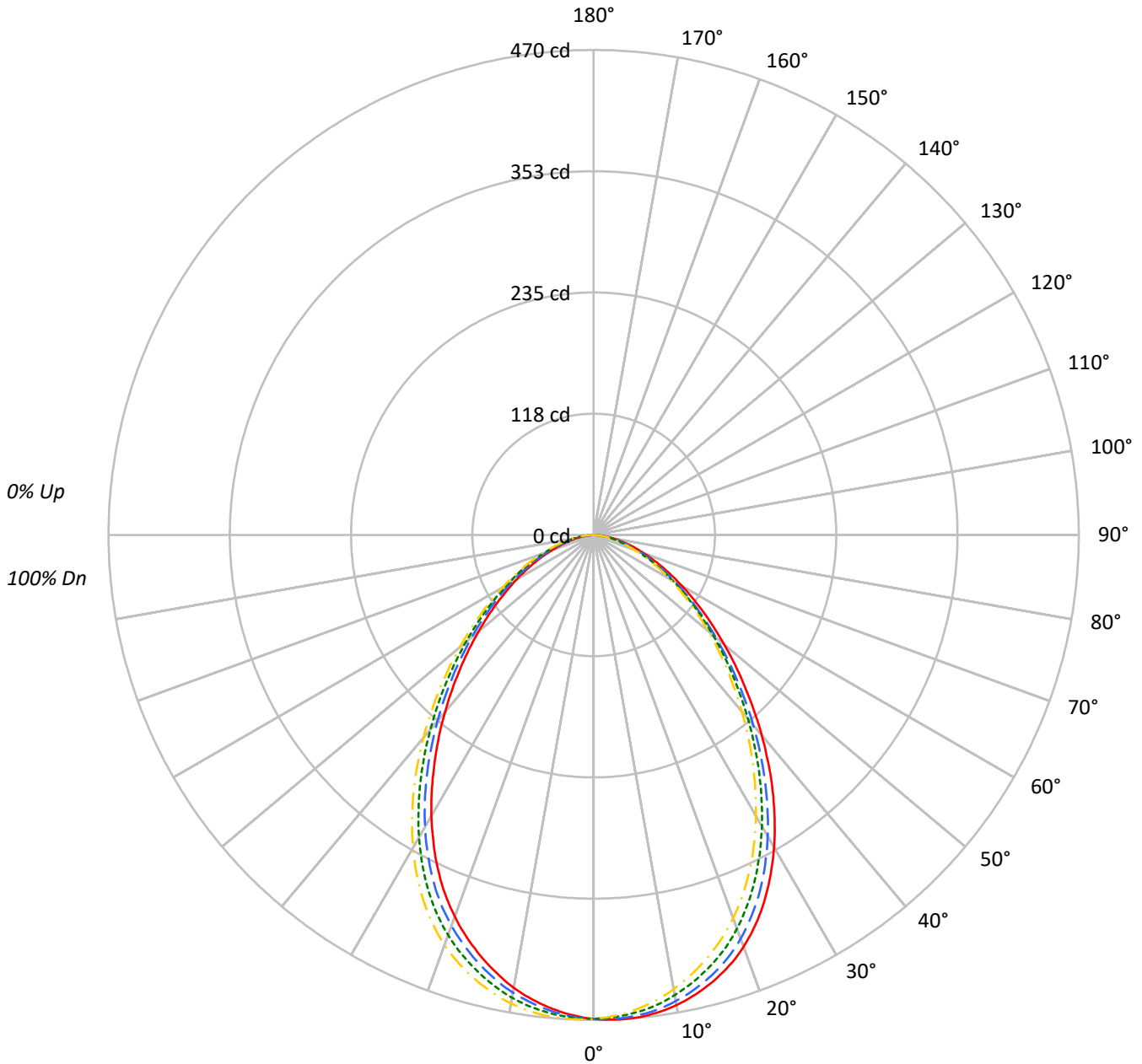
Lumens per Lamp: 896.88 (1 lamp)
Luminaire Lumens: 885.0 lumens
Efficiency: 98.7%
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.09 / 1.14
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.2
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



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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	117	117	117	117	115	115	115	115	110	110	110	105	105	105	101	101	101				99																
1	109	105	101	98	106	103	100	97	99	96	94	95	93	91	91	90	88				86																
2	101	94	88	83	98	92	86	82	88	84	80	85	82	78	82	79	77				75																
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67				65																
4	86	75	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59				57																
5	80	68	60	55	78	67	60	54	65	59	54	63	58	53	62	57	53				51																
6	74	62	54	49	72	61	54	48	60	53	48	58	52	48	57	51	47				45																
7	69	57	49	44	68	56	49	43	55	48	43	53	47	43	52	47	43				41																
8	65	53	45	40	63	52	45	39	51	44	39	49	43	39	48	43	39				37																
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	39	35				34																
10	57	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33				31																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	59036	59036	59036	59036
5°	59325	58718	58238	58845
10°	59129	57877	56944	58209
15°	58331	56480	55060	56976
20°	56879	54374	52713	55258
25°	54350	51281	49587	52670
30°	50789	47359	45688	49176
35°	46413	42879	41282	44984
40°	41613	38196	36816	40447
45°	36788	33656	32481	35916
50°	32325	29466	28507	31639
55°	28326	25649	24881	27821
60°	24868	22200	21697	24415
65°	21798	18999	18612	21530
70°	19097	15969	15602	18729
75°	16630	13177	12837	16143
80°	14205	11378	10726	14205
85°	9675	9675	3899	14584

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 300°

Vertical Angle: 45°

Luminance: 37536 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	44.1	5.0	4.9
10°-20°	122.4	13.8	13.6
20°-30°	171.6	19.4	19.1
30°-40°	178.2	20.1	19.9
40°-50°	150.7	17.0	16.8
50°-60°	109.3	12.3	12.2
60°-70°	67.8	7.7	7.6
70°-80°	32.7	3.7	3.6
80°-90°	8.3	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°	338.1	38.2	37.7
0°-40°	516.3	58.3	57.6
0°-60°	776.2	87.7	86.5
0°-90°	885.0	100.0	98.7
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°	885.0	100.0	98.7

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	469	469	469	469	469	
5°	470	465	461	466	470	45
15°	448	434	423	437	448	126
25°	391	369	357	379	391	179
35°	302	279	269	293	302	188
45°	207	189	182	202	207	160
55°	129	117	113	127	129	116
65°	73	64	62	72	73	73
75°	34	27	26	33	34	37
85°	7	7	3	10	7	8
90°	0	0	0	0	0	



TEST NUMBER: P710077

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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1
0.5°	469.5	469.6	469.4	468.8	468.6	468.8	468.7	469.0	469.1	468.9	469.2
1°	469.8	469.9	469.4	468.7	468.2	468.3	468.1	468.7	468.8	468.9	469.4
1.5°	470.0	470.0	469.4	468.5	467.8	467.7	467.5	468.2	468.4	468.8	469.6
2°	470.1	470.0	469.2	468.1	467.2	467.1	466.7	467.6	468.0	468.5	469.6
2.5°	470.3	470.0	469.0	467.8	466.6	466.4	466.0	466.9	467.5	468.3	469.5
3°	470.3	469.9	468.8	467.3	465.9	465.6	465.0	466.2	467.1	467.9	469.5
3.5°	470.3	469.7	468.5	466.7	465.1	464.8	464.2	465.4	466.4	467.5	469.3
4°	470.1	469.5	468.2	466.2	464.2	463.8	463.2	464.6	465.6	466.9	468.9
4.5°	469.9	469.0	467.6	465.5	463.3	462.7	462.0	463.6	464.9	466.4	468.7
5°	469.6	468.7	467.1	464.8	462.3	461.6	461.0	462.6	464.0	465.8	468.2
5.5°	469.4	468.1	466.4	464.0	461.3	460.5	459.8	461.5	463.2	465.0	467.8
6°	468.9	467.7	465.7	463.2	460.2	459.2	458.4	460.4	462.1	464.2	467.2
6.5°	468.4	467.1	465.0	462.2	458.9	457.8	457.1	459.1	461.0	463.4	466.6
7°	467.8	466.3	464.3	461.2	457.5	456.5	455.7	457.9	459.9	462.5	465.9
7.5°	467.2	465.6	463.3	459.9	456.2	454.9	454.2	456.6	458.8	461.6	465.1
8°	466.4	464.8	462.3	458.7	454.7	453.3	452.6	455.2	457.5	460.5	464.4
8.5°	465.6	463.8	461.1	457.4	453.1	451.7	451.1	453.7	456.2	459.4	463.4
9°	464.8	462.8	459.9	455.9	451.3	450.0	449.3	452.1	454.9	458.1	462.5
9.5°	463.9	461.6	458.5	454.4	449.4	448.2	447.5	450.5	453.4	456.9	461.5
10°	462.7	460.3	457.1	452.9	447.6	446.3	445.6	448.9	451.8	455.5	460.3
10.5°	461.6	459.1	455.6	451.1	445.7	444.2	443.7	447.2	450.3	454.0	459.1
11°	460.3	457.7	454.1	449.4	443.7	442.2	441.6	445.4	448.5	452.5	457.7
11.5°	459.0	456.2	452.6	447.7	441.6	440.0	439.4	443.4	446.7	450.8	456.3
12°	457.6	454.7	451.0	445.9	439.6	437.8	437.2	441.3	444.8	449.0	454.7
12.5°	456.1	453.1	449.3	444.0	437.3	435.6	434.8	439.1	443.0	447.2	453.2
13°	454.6	451.4	447.4	442.0	435.2	433.3	432.5	436.9	441.0	445.4	451.5
13.5°	453.0	449.7	445.6	440.1	432.9	430.8	430.1	434.6	438.8	443.4	449.8
14°	451.3	447.9	443.7	437.8	430.6	428.4	427.7	432.3	436.6	441.5	448.1
14.5°	449.5	446.1	441.7	435.8	428.1	425.9	425.2	430.0	434.5	439.4	446.3
15°	447.7	444.1	439.6	433.5	425.7	423.4	422.6	427.6	432.0	437.3	444.3
15.5°	445.8	442.1	437.4	431.3	423.1	420.7	420.0	425.1	429.9	435.1	442.4
16°	443.8	440.0	435.2	428.8	420.6	418.1	417.2	422.5	427.4	432.9	440.3
16.5°	441.8	437.8	432.9	426.3	417.8	415.2	414.5	419.9	425.0	430.6	438.1
17°	439.7	435.3	430.5	423.6	415.0	412.5	411.8	417.3	422.5	428.3	436.0
17.5°	437.5	433.0	427.9	421.1	412.2	409.6	408.8	414.5	419.9	425.8	433.8
18°	435.2	430.5	425.3	418.2	409.3	406.7	405.9	411.8	417.2	423.4	431.5
18.5°	432.8	427.8	422.5	415.3	406.2	403.5	402.9	408.9	414.6	420.8	429.0
19°	430.2	425.1	419.7	412.3	403.0	400.5	399.9	406.0	411.8	418.1	426.6
19.5°	427.6	422.2	416.6	409.2	399.8	397.4	396.7	402.9	408.9	415.4	424.0
20°	424.7	419.1	413.7	406.0	396.4	394.1	393.6	399.9	405.9	412.6	421.4
20.5°	421.9	416.0	410.4	402.7	392.9	390.7	390.2	396.8	403.1	409.8	418.7
21°	418.8	412.9	407.1	399.4	389.5	387.3	386.9	393.7	399.9	406.7	415.8



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	409.3	402.7	396.8	388.7	378.5	376.5	376.4	383.6	390.1	397.1	406.6
23°	405.9	399.0	393.1	384.9	374.8	372.7	372.7	380.2	386.6	393.7	403.3
23.5°	402.4	395.3	389.2	381.2	370.7	368.9	368.9	376.4	383.0	390.2	399.9
24°	398.9	391.6	385.5	377.3	366.7	364.9	365.1	372.7	379.4	386.8	396.5
24.5°	395.1	387.8	381.7	373.5	362.6	361.1	361.1	368.9	375.6	383.1	393.0
25°	391.4	383.9	377.7	369.3	358.7	356.9	357.1	365.1	371.8	379.3	389.4
25.5°	387.5	379.9	373.7	365.4	354.5	352.8	353.0	361.1	367.9	375.5	385.6
26°	383.6	375.8	369.5	361.2	350.2	348.7	348.9	357.1	364.0	371.6	381.9
26.5°	379.6	371.5	365.4	356.9	346.0	344.6	344.8	353.0	360.0	367.7	378.0
27°	375.4	367.3	361.1	352.5	341.7	340.1	340.5	348.9	355.8	363.7	374.0
27.5°	371.3	363.0	356.7	348.4	337.3	335.8	336.2	344.7	351.8	359.7	370.1
28°	367.1	358.6	352.2	344.0	333.0	331.5	331.9	340.5	347.5	355.5	366.0
28.5°	362.8	354.1	347.8	339.5	328.5	327.1	327.6	336.2	343.4	351.2	361.9
29°	358.4	349.4	343.4	334.9	324.0	322.7	323.2	332.0	339.1	347.1	357.7
29.5°	354.1	344.9	338.8	330.4	319.4	318.1	318.8	327.4	334.8	342.7	353.5
30°	349.5	340.2	334.1	325.9	315.0	313.6	314.4	323.1	330.4	338.4	349.2
30.5°	345.0	335.6	329.5	321.4	310.4	309.1	309.7	318.7	325.9	333.9	344.8
31°	340.4	330.9	324.9	316.8	305.8	304.5	305.3	314.2	321.4	329.5	340.4
31.5°	335.8	326.0	320.1	312.1	301.3	300.1	300.8	309.7	317.0	324.9	335.8
32°	331.0	321.1	315.3	307.4	296.7	295.4	296.2	305.1	312.4	320.5	331.3
32.5°	326.2	316.3	310.5	302.7	291.9	290.9	291.6	300.6	307.8	315.8	326.8
33°	321.5	311.5	305.8	298.0	287.3	286.3	287.0	296.0	303.2	311.2	322.3
33.5°	316.8	306.4	301.0	293.4	282.6	281.8	282.5	291.4	298.6	306.7	317.6
34°	311.9	301.6	296.1	288.5	277.9	277.2	277.7	286.8	294.0	302.0	313.0
34.5°	307.1	296.7	291.3	283.7	273.3	272.5	273.2	282.2	289.3	297.4	308.3
35°	302.1	291.7	286.4	279.1	268.7	268.0	268.7	277.6	284.7	292.8	303.6
35.5°	297.3	286.8	281.5	274.4	264.1	263.4	264.2	273.0	280.1	288.1	298.8
36°	292.4	281.7	276.7	269.6	259.4	258.8	259.7	268.4	275.4	283.4	294.1
36.5°	287.6	276.8	271.8	264.9	254.9	254.3	255.1	263.7	270.7	278.6	289.5
37°	282.7	271.9	267.0	260.3	250.2	250.0	250.6	259.2	266.1	274.0	284.8
37.5°	277.6	266.9	262.1	255.5	245.7	245.2	246.1	254.7	261.4	269.4	280.0
38°	272.7	262.0	257.3	250.9	241.1	240.8	241.7	250.1	256.8	264.8	275.3
38.5°	268.0	257.1	252.6	246.3	236.7	236.4	237.3	245.5	252.4	260.0	270.6
39°	263.1	252.3	247.8	241.6	232.3	231.9	232.8	241.1	247.7	255.3	265.7
39.5°	258.2	247.4	242.9	237.0	227.8	227.5	228.4	236.6	243.2	250.7	261.1
40°	253.3	242.6	238.3	232.5	223.4	223.1	224.1	232.2	238.6	246.2	256.4
40.5°	248.6	237.8	233.7	228.0	219.0	218.8	219.7	227.8	234.1	241.5	251.8
41°	243.7	233.1	228.9	223.5	214.7	214.6	215.4	223.5	229.6	237.0	247.1
41.5°	239.0	228.4	224.2	219.0	210.4	210.2	211.1	219.1	225.2	232.5	242.5
42°	234.1	223.6	219.6	214.7	206.1	206.1	207.0	214.8	220.8	228.0	237.9
42.5°	229.5	218.9	215.2	210.1	201.8	201.9	202.7	210.5	216.5	223.5	233.3
43°	224.9	214.3	210.6	205.8	197.7	197.8	198.6	206.3	212.1	219.1	228.8
43.5°	220.3	209.9	206.4	201.6	193.6	193.8	194.5	202.1	207.7	214.7	224.3



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	206.7	196.5	193.1	189.1	181.4	181.9	182.5	189.9	195.2	201.8	210.9
45.5°	202.3	192.1	188.9	184.9	177.4	178.0	178.6	185.9	191.0	197.5	206.6
46°	197.9	187.8	184.8	181.1	173.5	174.1	174.7	182.0	186.9	193.3	202.3
46.5°	193.7	183.6	180.8	177.2	169.7	170.3	170.9	178.1	182.8	189.2	198.1
47°	189.4	179.5	176.8	173.3	165.8	166.4	167.2	174.2	178.9	185.2	193.8
47.5°	185.2	175.5	172.8	169.4	162.1	163.0	163.5	170.3	175.0	181.1	189.7
48°	181.2	171.4	168.8	165.5	158.5	159.3	159.7	166.4	171.1	177.0	185.7
48.5°	177.2	167.4	164.7	161.6	154.7	155.7	156.1	162.9	167.2	173.1	181.8
49°	173.1	163.4	160.9	157.8	151.2	152.2	152.6	159.2	163.3	169.3	177.9
49.5°	169.1	159.5	157.1	154.1	147.6	148.6	149.0	155.6	159.6	165.4	173.9
50°	165.1	155.8	153.4	150.5	144.1	145.2	145.6	152.0	156.0	161.6	170.0
50.5°	161.3	152.1	149.7	146.9	140.6	141.8	142.1	148.5	152.4	157.9	166.1
51°	157.5	148.3	146.1	143.4	137.3	138.4	138.8	145.0	148.9	154.3	162.1
51.5°	153.6	144.7	142.4	139.8	134.0	135.0	135.5	141.6	145.4	150.6	158.4
52°	150.0	141.3	139.0	136.4	130.7	131.8	132.2	138.2	141.9	147.0	154.7
52.5°	146.4	137.8	135.7	133.0	127.4	128.5	128.9	134.9	138.5	143.6	151.1
53°	142.9	134.4	132.2	129.7	124.3	125.3	125.7	131.6	135.0	140.2	147.5
53.5°	139.4	131.0	128.9	126.4	121.1	122.2	122.6	128.4	131.7	136.7	144.0
54°	135.9	127.8	125.6	123.2	118.0	119.1	119.5	125.2	128.5	133.4	140.4
54.5°	132.5	124.5	122.3	120.1	114.9	116.1	116.4	122.1	125.3	130.1	137.0
55°	129.1	121.3	119.2	116.9	111.9	113.1	113.4	119.0	122.1	126.8	133.7
55.5°	125.9	118.2	116.1	113.8	108.9	110.1	110.5	115.9	119.0	123.6	130.4
56°	122.6	115.1	113.0	110.8	106.0	107.2	107.5	112.9	116.0	120.4	127.1
56.5°	119.5	111.9	110.0	107.8	103.2	104.3	104.7	109.9	112.9	117.3	123.8
57°	116.4	109.1	107.1	104.9	100.2	101.5	101.8	107.0	110.0	114.3	120.7
57.5°	113.3	106.1	104.1	102.0	97.5	98.7	99.0	104.2	107.0	111.3	117.6
58°	110.3	103.3	101.3	99.1	94.7	96.0	96.3	101.4	104.2	108.3	114.5
58.5°	107.3	100.4	98.5	96.3	92.0	93.2	93.6	98.6	101.3	105.4	111.5
59°	104.4	97.6	95.7	93.7	89.6	90.6	91.1	95.9	98.5	102.6	108.6
59.5°	101.6	95.0	93.1	90.9	87.1	88.0	88.6	93.2	95.7	99.7	105.7
60°	98.8	92.3	90.4	88.2	84.7	85.4	86.2	90.5	93.0	97.0	102.8
60.5°	96.0	89.9	87.8	85.6	82.2	82.8	83.7	87.8	90.6	94.2	100.0
61°	93.3	87.5	85.2	83.1	79.7	80.3	81.3	85.3	88.1	91.5	97.2
61.5°	90.7	85.1	82.7	80.5	77.3	77.8	78.8	82.7	85.7	89.1	94.4
62°	88.1	82.7	80.2	78.0	74.8	75.4	76.3	80.2	83.2	86.7	91.7
62.5°	85.5	80.3	77.8	75.6	72.4	73.0	73.9	77.8	80.8	84.3	89.1
63°	83.0	77.9	75.4	73.1	70.1	70.7	71.5	75.4	78.3	82.0	86.5
63.5°	80.5	75.6	73.0	70.8	67.7	68.3	69.2	73.0	75.9	79.5	83.9
64°	78.0	73.2	70.7	68.5	65.5	66.0	67.0	70.7	73.5	77.1	81.4
64.5°	75.6	70.9	68.4	66.1	63.2	63.8	64.7	68.3	71.2	74.6	79.0
65°	73.2	68.6	66.1	63.8	61.0	61.6	62.5	66.0	68.9	72.3	76.4
65.5°	71.0	66.5	63.9	61.6	58.8	59.4	60.3	63.8	66.6	70.0	74.0
66°	68.7	64.3	61.8	59.5	56.7	57.3	58.2	61.6	64.4	67.7	71.7



TEST NUMBER: P710077

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	62.1	58.0	55.5	53.2	50.5	51.1	52.0	55.2	57.9	61.1	64.8
68°	60.0	56.0	53.5	51.2	48.6	49.1	50.0	53.2	55.8	59.0	62.6
68.5°	57.9	54.0	51.4	49.1	46.6	47.1	48.0	51.2	53.8	56.8	60.5
69°	55.9	52.1	49.5	47.2	44.7	45.2	46.1	49.2	51.8	54.9	58.4
69.5°	53.9	50.1	47.6	45.3	42.9	43.4	44.3	47.3	49.8	52.9	56.2
70°	51.9	48.2	45.8	43.4	41.1	41.5	42.4	45.4	47.9	50.9	54.2
70.5°	49.9	46.4	43.9	41.6	39.3	39.7	40.6	43.5	46.0	48.9	52.2
71°	48.0	44.6	42.1	39.8	37.5	38.0	38.9	41.7	44.1	47.0	50.2
71.5°	46.2	42.8	40.4	38.1	35.8	36.3	37.1	39.9	42.3	45.2	48.2
72°	44.4	41.0	38.7	36.4	34.2	34.7	35.5	38.2	40.5	43.3	46.3
72.5°	42.6	39.3	37.0	34.7	32.6	33.1	33.9	36.5	38.8	41.6	44.4
73°	40.9	37.7	35.3	33.1	31.0	31.5	32.3	34.9	37.1	39.8	42.6
73.5°	39.1	36.0	33.7	31.5	29.5	30.0	30.8	33.3	35.5	38.1	40.8
74°	37.4	34.4	32.2	30.0	28.1	28.5	29.3	31.7	33.9	36.4	39.1
74.5°	35.8	32.9	30.7	28.5	26.6	27.0	27.8	30.2	32.3	34.8	37.4
75°	34.2	31.3	29.2	27.1	25.2	25.6	26.4	28.8	30.8	33.2	35.7
75.5°	32.6	29.9	27.7	25.7	23.9	24.2	25.0	27.3	29.3	31.7	34.1
76°	31.1	28.4	26.4	24.4	22.6	23.0	23.7	25.9	27.9	30.2	32.5
76.5°	29.6	27.0	25.0	23.1	21.4	21.8	22.5	24.6	26.5	28.7	30.9
77°	28.2	25.7	23.7	21.8	20.3	20.6	21.4	23.3	25.2	27.3	29.4
77.5°	26.7	24.3	22.5	20.6	19.2	19.6	20.3	22.1	23.8	25.9	27.9
78°	25.4	23.1	21.2	19.5	18.3	18.6	19.1	21.0	22.6	24.6	26.5
78.5°	24.1	21.8	20.0	18.4	17.3	17.7	18.0	19.9	21.4	23.3	25.2
79°	22.6	20.6	18.9	17.4	16.5	16.8	17.0	18.9	20.2	22.0	23.8
79.5°	21.2	19.4	17.8	16.5	15.7	15.9	15.9	17.9	19.2	20.8	22.5
80°	19.6	18.2	16.8	15.7	14.9	14.9	14.8	16.9	18.2	19.6	21.2
80.5°	18.1	16.9	15.8	14.8	13.9	13.9	13.5	15.8	17.2	18.5	20.0
81°	16.6	15.7	14.9	13.9	13.0	12.8	12.4	14.8	16.3	17.4	18.8
81.5°	15.1	14.6	14.0	13.0	12.1	11.7	11.1	13.6	15.4	16.4	17.7
82°	13.8	13.5	13.1	12.1	11.2	10.6	9.8	12.5	14.5	15.5	16.6
82.5°	12.5	12.4	12.2	11.2	10.3	9.6	8.5	11.3	13.5	14.6	15.5
83°	11.4	11.3	11.3	10.3	9.4	8.5	7.4	10.2	12.6	13.7	14.5
83.5°	10.2	10.3	10.5	9.4	8.4	7.4	6.1	9.1	11.7	12.8	13.5
84°	9.0	9.3	9.5	8.4	7.5	6.4	4.9	7.9	10.8	11.9	12.6
84.5°	7.8	8.2	8.6	7.5	6.8	5.4	3.8	6.8	9.8	11.0	11.8
85°	6.7	7.2	7.7	6.7	5.9	4.5	2.7	5.7	8.9	10.1	10.9
85.5°	5.4	6.2	6.9	5.8	5.0	3.7	1.6	4.8	8.0	9.1	10.0
86°	4.2	5.2	6.0	4.7	4.0	3.0	0.8	3.8	7.0	8.0	9.0
86.5°	3.2	4.3	5.1	3.6	3.1	2.4	0.7	2.9	6.1	7.1	8.0
87°	2.1	3.5	4.1	2.7	2.2	2.0	0.5	2.4	5.1	5.9	7.2
87.5°	1.1	2.9	3.2	1.6	1.3	1.4	0.4	1.9	4.0	4.7	6.2
88°	0.8	2.3	2.3	0.6	0.6	0.8	0.2	1.5	3.0	3.6	5.2
88.5°	0.7	1.9	1.5	0.2	0.1	0.1	0.1	1.0	2.2	2.7	4.1



TEST NUMBER: P710077

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.3



TEST NUMBER: P710077

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-2700K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	469.1	469.1
0.5°	469.5	469.5
1°	469.7	469.8
1.5°	470.0	470.0
2°	470.0	470.1
2.5°	470.2	470.3
3°	470.1	470.3
3.5°	470.1	470.3
4°	469.8	470.1
4.5°	469.6	469.9
5°	469.3	469.6
5.5°	468.8	469.4
6°	468.4	468.9
6.5°	467.9	468.4
7°	467.2	467.8
7.5°	466.6	467.2
8°	465.8	466.4
8.5°	465.1	465.6
9°	464.1	464.8
9.5°	463.1	463.9
10°	462.1	462.7
10.5°	460.9	461.6
11°	459.6	460.3
11.5°	458.3	459.0
12°	456.7	457.6
12.5°	455.3	456.1
13°	453.7	454.6
13.5°	452.0	453.0
14°	450.4	451.3
14.5°	448.5	449.5
15°	446.7	447.7
15.5°	444.9	445.8
16°	442.9	443.8
16.5°	440.7	441.8
17°	438.7	439.7
17.5°	436.5	437.5
18°	434.2	435.2
18.5°	431.8	432.8
19°	429.4	430.2
19.5°	426.9	427.6
20°	424.1	424.7
20.5°	421.3	421.9
21°	418.4	418.8



TEST NUMBER: P710077

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-2700K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	409.0	409.3
23°	405.7	405.9
23.5°	402.4	402.4
24°	398.8	398.9
24.5°	395.3	395.1
25°	391.5	391.4
25.5°	387.8	387.5
26°	383.9	383.6
26.5°	380.1	379.6
27°	376.1	375.4
27.5°	372.0	371.3
28°	368.0	367.1
28.5°	363.7	362.8
29°	359.5	358.4
29.5°	355.2	354.1
30°	350.8	349.5
30.5°	346.3	345.0
31°	341.9	340.4
31.5°	337.4	335.8
32°	332.9	331.0
32.5°	328.2	326.2
33°	323.6	321.5
33.5°	318.9	316.8
34°	314.2	311.9
34.5°	309.5	307.1
35°	304.7	302.1
35.5°	299.9	297.3
36°	295.1	292.4
36.5°	290.3	287.6
37°	285.5	282.7
37.5°	280.7	277.6
38°	275.9	272.7
38.5°	271.1	268.0
39°	266.4	263.1
39.5°	261.5	258.2
40°	256.8	253.3
40.5°	252.3	248.6
41°	247.4	243.7
41.5°	242.7	239.0
42°	238.0	234.1
42.5°	233.3	229.5
43°	228.8	224.9
43.5°	224.2	220.3



TEST NUMBER: P710077

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-2700K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	210.7	206.7
45.5°	206.3	202.3
46°	201.9	197.9
46.5°	197.6	193.7
47°	193.4	189.4
47.5°	189.2	185.2
48°	185.0	181.2
48.5°	180.9	177.2
49°	176.8	173.1
49.5°	172.8	169.1
50°	168.8	165.1
50.5°	164.9	161.3
51°	161.1	157.5
51.5°	157.3	153.6
52°	153.7	150.0
52.5°	149.9	146.4
53°	146.4	142.9
53.5°	142.8	139.4
54°	139.3	135.9
54.5°	135.8	132.5
55°	132.4	129.1
55.5°	129.1	125.9
56°	125.8	122.6
56.5°	122.5	119.5
57°	119.4	116.4
57.5°	116.2	113.3
58°	113.1	110.3
58.5°	110.0	107.3
59°	107.1	104.4
59.5°	104.1	101.6
60°	101.3	98.8
60.5°	98.4	96.0
61°	95.6	93.3
61.5°	93.0	90.7
62°	90.5	88.1
62.5°	88.0	85.5
63°	85.5	83.0
63.5°	83.0	80.5
64°	80.5	78.0
64.5°	78.0	75.6
65°	75.6	73.2
65.5°	73.2	71.0
66°	70.9	68.7



TEST NUMBER: P710077

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-2700K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	64.1	62.1
68°	61.9	60.0
68.5°	59.7	57.9
69°	57.7	55.9
69.5°	55.6	53.9
70°	53.6	51.9
70.5°	51.5	49.9
71°	49.6	48.0
71.5°	47.7	46.2
72°	45.8	44.4
72.5°	44.0	42.6
73°	42.2	40.9
73.5°	40.4	39.1
74°	38.7	37.4
74.5°	37.0	35.8
75°	35.4	34.2
75.5°	33.8	32.6
76°	32.2	31.1
76.5°	30.7	29.6
77°	29.2	28.2
77.5°	27.7	26.7
78°	26.3	25.4
78.5°	25.0	24.1
79°	23.6	22.6
79.5°	22.3	21.2
80°	20.9	19.6
80.5°	19.5	18.1
81°	18.1	16.6
81.5°	16.8	15.1
82°	15.6	13.8
82.5°	14.3	12.5
83°	13.2	11.4
83.5°	12.0	10.2
84°	10.9	9.0
84.5°	9.8	7.8
85°	8.8	6.7
85.5°	7.7	5.4
86°	6.6	4.2
86.5°	5.6	3.2
87°	4.7	2.1
87.5°	3.8	1.1
88°	3.1	0.8
88.5°	2.6	0.7



TEST NUMBER: P710077
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-900lm-2700K

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°	415.9	409.6	403.8	395.8	385.9	383.8	383.5	390.4	396.8	403.6	412.8
22°	412.6	406.1	400.2	392.2	382.3	380.2	380.1	387.1	393.5	400.4	409.7



44°	215.7	205.3	201.8	197.4	189.5	189.8	190.4	198.1	203.5	210.4	219.8
44.5°	211.2	200.9	197.4	193.1	185.4	185.8	186.4	193.8	199.3	206.0	215.3



66.5°	66.5	62.2	59.7	57.4	54.6	55.2	56.1	59.5	62.2	65.5	69.4
67°	64.2	60.1	57.5	55.2	52.5	53.1	54.0	57.3	60.0	63.2	67.1



89°	0.5	1.4	0.8	0.1	0.0	0.0	0.0	0.5	1.5	1.6	3.0
89.5°	0.3	0.8	0.1	0.0	0.0	0.0	0.0	0.1	0.9	0.7	2.2

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

Scaled Data Report





21.5°	415.5	415.9
22°	412.2	412.6



44°	219.7	215.7
44.5°	215.1	211.2

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

Scaled Data Report



66.5°	68.6	66.5
67°	66.3	64.2



89°	2.0	0.5
89.5°	1.5	0.3

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

Scaled Data Report



(END OF REPORT)