

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: P938616

Luminaire Tested: SMX4RLSFSD2W-650LM-2700K

Issue Date: 1/9/2025



Test Information

Test Method: LM-79-2019
Report Number: P938616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2405915A001)
Test Lab:
Issue Date: 1/9/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SMX4RLSFSD2W-650LM-2700K
Description: 4IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
Light Source: SELECTABLE CCT 90CRI / 2700K CCT
Ballast/Driver: -

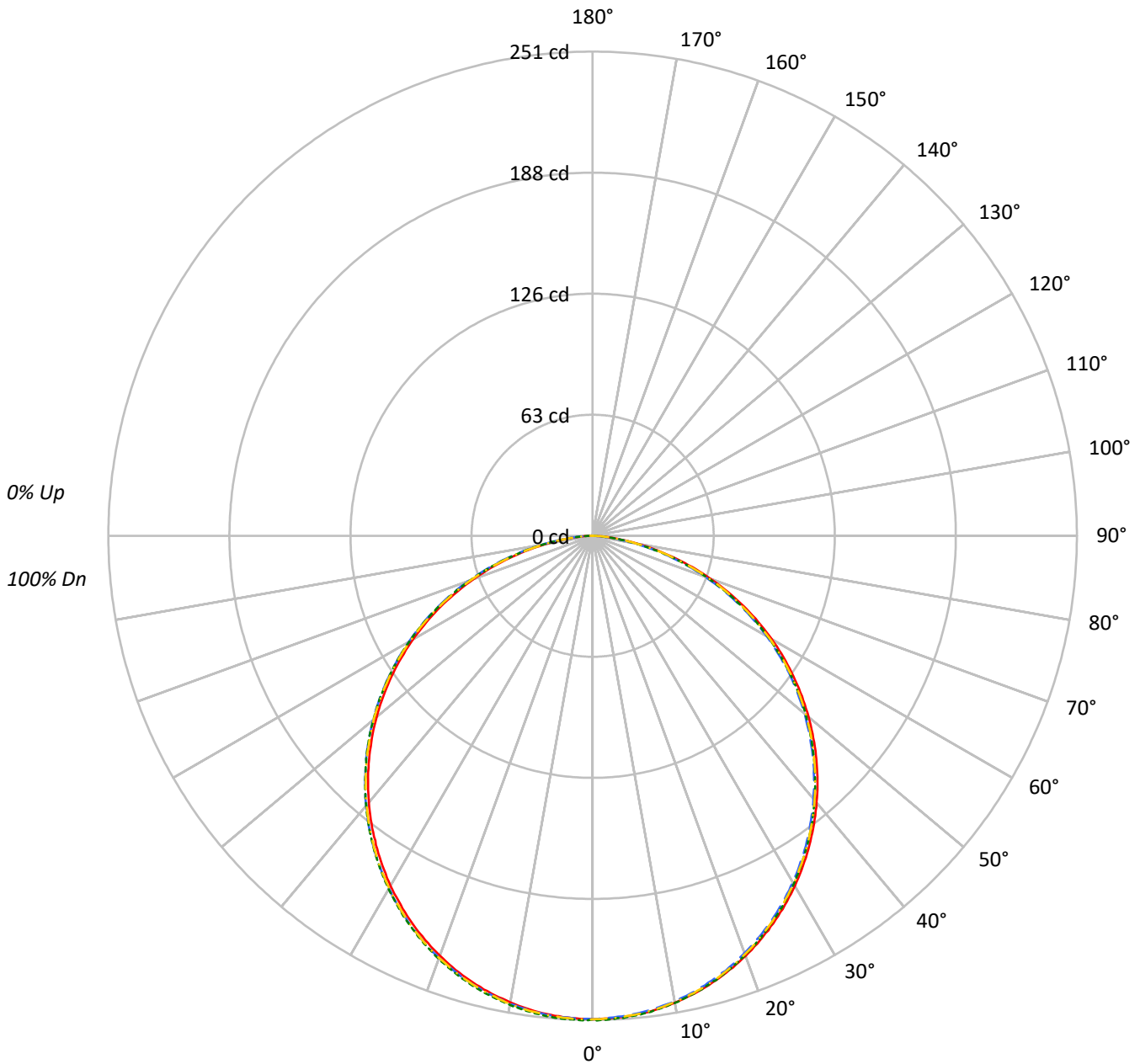
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 698.2 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6.9
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: P938616
CATALOG NUMBER: SMX4RLSFS2W-650LM-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P938616

CATALOG NUMBER: SMX4RLSFS2W-650LM-2700K

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	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70																			
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59																			
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50																			
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44																			
6	70	57	48	41	68	56	47	41	54	47	41	52	46	41	51	45	40	38																			
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34																			
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30																			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27																			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31551	31551	31551	31551
5°	31507	31545	31494	31608
10°	31411	31424	31386	31552
15°	31243	31178	31230	31439
20°	31044	30964	31017	31245
25°	30785	30632	30744	31007
30°	30459	30284	30444	30720
35°	30082	29866	30082	30389
40°	29653	29407	29653	29998
45°	29188	28850	29153	29544
50°	28605	28213	28605	29035
55°	27887	27427	27909	28436
60°	26957	26454	27033	27611
65°	25729	25103	25878	26533
70°	23881	23145	24175	24911
75°	21152	20325	21638	22513
80°	16959	15944	17829	18771
85°	10685	9386	11841	13140

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 247.5°
 Vertical Angle: 45°
 Luminance: 29740 cd/sqm



TEST NUMBER: P938616
 CATALOG NUMBER: SMX4RLSFSD2W-650LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	3.4
10°-20°	67.7	9.7
20°-30°	102.1	14.6
30°-40°	122.5	17.5
40°-50°	126.4	18.1
50°-60°	113.6	16.3
60°-70°	85.5	12.2
70°-80°	46.6	6.7
80°-90°	10.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	193.5	27.7
0°-40°	316.0	45.2
0°-60°	555.9	79.6
0°-90°	698.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	698.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	251	251	251	251	251	
5°	249	250	249	250	249	24
15°	240	239	240	241	240	68
25°	222	221	221	223	222	102
35°	196	194	196	198	196	122
45°	164	162	164	166	164	126
55°	127	125	127	130	127	114
65°	86	84	87	89	86	85
75°	44	42	44	46	44	46
85°	7	6	8	9	7	10
90°	0	0	0	0	0	



TEST NUMBER: P938616

CATALOG NUMBER: SMX4RLSFSD2W-650LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7
0.5°	250.6	250.5	250.6	250.1	251.3	251.1	250.6	250.5	250.5	250.4	250.5
1°	250.4	250.4	250.2	250.3	251.0	250.9	250.6	250.6	250.4	250.7	250.4
1.5°	250.4	250.3	250.3	250.0	251.1	250.9	250.3	250.3	250.5	250.4	250.4
2°	250.4	250.3	250.0	250.0	250.9	250.8	250.4	250.5	250.3	250.3	250.4
2.5°	250.3	250.1	250.0	249.7	250.8	250.5	250.3	250.3	250.2	250.3	250.3
3°	250.1	250.0	249.7	249.6	250.4	250.5	250.1	250.3	250.1	250.1	250.1
3.5°	250.0	249.8	249.6	249.3	250.6	250.4	250.0	249.8	250.0	250.0	250.0
4°	249.8	249.7	249.3	249.2	250.2	250.0	249.6	249.9	249.7	250.0	250.0
4.5°	249.7	249.3	249.1	248.9	250.0	250.0	249.4	249.4	249.7	249.8	249.8
5°	249.4	249.2	248.8	248.7	249.7	249.5	249.3	249.4	249.3	249.6	249.5
5.5°	249.0	248.9	248.6	248.2	249.6	249.4	249.0	248.8	249.0	249.4	249.6
6°	248.8	248.5	248.3	248.1	249.1	248.9	248.7	248.8	248.8	248.9	249.1
6.5°	248.6	248.3	247.9	247.6	248.8	248.7	248.4	248.2	248.5	248.8	248.8
7°	248.3	247.9	247.7	247.2	248.6	248.2	247.9	248.3	248.2	248.3	248.7
7.5°	247.9	247.6	247.2	246.8	248.0	248.1	247.8	247.6	247.8	248.2	248.4
8°	247.5	247.2	246.8	246.4	247.7	247.5	247.2	247.5	247.4	247.5	247.8
8.5°	247.0	246.7	246.3	245.9	247.3	247.2	246.8	246.7	247.0	247.3	247.6
9°	246.8	246.3	245.9	245.5	246.7	246.6	246.4	246.6	246.6	246.8	247.2
9.5°	246.3	245.8	245.6	245.0	246.3	246.3	245.9	245.9	246.1	246.4	246.7
10°	245.8	245.4	244.9	244.6	245.9	245.7	245.6	245.7	245.6	246.0	246.3
10.5°	245.3	245.0	244.4	243.9	245.4	245.1	244.9	245.1	245.1	245.6	245.7
11°	244.7	244.3	243.8	243.7	244.7	244.6	244.4	244.6	244.5	245.1	245.3
11.5°	244.2	243.9	243.4	242.7	244.1	243.9	243.9	243.9	244.1	244.5	244.7
12°	243.6	243.2	242.7	242.2	243.6	243.5	243.2	243.5	243.6	243.9	244.4
12.5°	243.2	242.6	242.2	241.6	243.0	242.9	242.7	242.6	243.1	243.4	243.6
13°	242.6	242.2	241.3	241.0	242.3	242.3	242.0	242.3	242.3	242.8	243.2
13.5°	241.9	241.4	240.8	240.2	241.9	241.4	241.4	241.5	241.9	242.1	242.6
14°	241.2	240.7	240.3	239.6	240.9	241.1	240.7	241.0	241.0	241.5	242.0
14.5°	240.7	240.0	239.3	238.8	240.4	240.1	240.1	240.1	240.5	241.0	241.4
15°	239.8	239.3	238.7	238.1	239.3	239.6	239.2	239.6	239.7	240.1	240.6
15.5°	239.1	238.5	237.9	237.4	239.2	238.7	238.6	238.6	239.0	239.5	240.0
16°	238.4	237.9	237.3	236.5	238.0	238.0	237.8	238.0	238.3	238.8	239.2
16.5°	237.6	237.1	236.3	235.8	237.4	237.1	237.0	237.1	237.6	238.1	238.6
17°	236.9	236.4	235.8	234.8	236.5	236.5	236.2	236.5	236.7	237.2	237.7
17.5°	235.9	235.4	234.7	234.0	235.8	235.5	235.4	235.5	236.0	236.5	237.0
18°	235.4	234.8	233.9	233.3	234.8	234.8	234.5	234.9	235.1	235.5	236.2
18.5°	234.3	233.8	233.1	232.2	234.0	233.8	233.7	233.8	234.3	235.1	235.4
19°	233.6	233.0	232.0	231.4	233.1	232.8	232.8	233.0	233.4	234.0	234.5
19.5°	232.6	231.9	231.2	230.5	232.2	232.1	231.8	232.0	232.5	233.2	233.7
20°	231.8	231.1	230.2	229.6	231.2	231.1	230.9	231.4	231.6	232.3	232.9
20.5°	230.8	230.0	229.3	228.6	230.3	230.2	229.9	230.2	230.7	231.4	231.8
21°	230.0	229.3	228.3	227.6	229.1	229.2	229.0	229.4	229.8	230.4	231.2



TEST NUMBER: P938616
 CATALOG NUMBER: SMX4RLSFSD2W-650LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	226.9	226.1	225.3	224.6	226.3	226.2	225.9	226.3	226.9	227.5	228.1
23°	225.9	225.2	224.3	223.5	225.1	225.0	224.9	225.4	225.7	226.3	227.2
23.5°	224.6	224.0	223.1	222.5	224.1	224.1	223.8	224.1	224.8	225.4	226.2
24°	224.0	223.0	222.0	221.3	223.0	222.9	222.6	223.1	223.8	224.4	225.1
24.5°	222.5	221.9	220.8	220.1	221.9	221.7	221.6	221.9	222.6	223.2	224.0
25°	221.7	220.9	219.8	218.9	220.6	220.7	220.6	221.0	221.4	222.1	222.9
25.5°	220.4	219.6	218.6	217.9	219.5	219.4	219.3	219.6	220.3	221.1	221.9
26°	219.5	218.4	217.5	216.6	218.5	218.2	218.2	218.6	219.2	220.0	220.7
26.5°	218.1	217.2	216.3	215.5	217.1	217.2	217.0	217.5	218.0	218.8	219.6
27°	217.2	216.1	215.0	214.3	216.1	216.0	215.9	216.3	217.0	217.7	218.5
27.5°	215.8	214.8	213.9	213.0	214.8	214.7	214.5	215.0	215.6	216.3	217.3
28°	214.7	213.7	212.6	211.8	213.6	213.5	213.3	213.8	214.4	215.3	216.1
28.5°	213.3	212.3	211.3	210.5	212.3	212.1	212.1	212.4	213.1	214.0	214.9
29°	212.3	211.1	210.1	209.2	211.0	211.0	210.8	211.4	212.1	212.7	213.8
29.5°	210.8	209.9	208.7	207.8	209.8	209.6	209.6	209.9	210.7	211.6	212.3
30°	209.6	208.6	207.6	206.7	208.4	208.3	208.1	208.9	209.5	210.2	211.3
30.5°	208.3	207.3	206.1	205.2	207.1	207.1	207.0	207.3	208.1	208.9	209.8
31°	207.0	206.0	204.9	204.0	205.7	205.7	205.5	206.1	206.9	207.8	208.6
31.5°	205.6	204.5	203.5	202.6	204.5	204.3	204.2	204.8	205.3	206.3	207.2
32°	204.3	203.2	202.1	201.2	203.0	203.0	202.8	203.4	204.1	205.1	205.9
32.5°	202.9	201.8	200.6	199.9	201.5	201.5	201.5	201.9	202.7	203.6	204.6
33°	201.5	200.5	199.4	198.4	200.2	200.1	200.1	200.7	201.4	202.2	203.3
33.5°	200.2	198.9	197.9	196.9	198.8	198.7	198.8	199.1	199.9	200.9	202.0
34°	198.8	197.6	196.4	195.4	197.3	197.3	197.3	197.8	198.6	199.4	200.5
34.5°	197.3	196.0	195.1	194.1	195.9	195.9	195.8	196.2	197.0	198.2	199.2
35°	195.8	194.8	193.5	192.5	194.4	194.3	194.2	195.0	195.8	196.6	197.6
35.5°	194.4	193.2	192.1	191.1	193.0	192.9	192.9	193.4	194.0	195.1	196.3
36°	192.9	191.8	190.5	189.5	191.5	191.3	191.4	192.1	192.8	193.8	194.6
36.5°	191.4	190.3	189.2	188.0	190.0	189.9	189.9	190.3	191.2	192.4	193.4
37°	189.9	188.8	187.4	186.6	188.3	188.2	188.3	188.9	189.8	190.6	191.7
37.5°	188.4	187.1	186.0	185.0	187.0	186.8	186.8	187.3	188.1	189.4	190.4
38°	186.8	185.7	184.3	183.4	185.2	185.2	185.3	185.9	186.8	187.7	188.7
38.5°	185.5	184.0	182.9	181.8	183.9	183.6	183.7	184.2	185.1	186.3	187.4
39°	183.7	182.6	181.2	180.4	182.1	182.1	182.2	182.8	183.7	184.6	185.7
39.5°	182.3	180.9	179.7	178.6	180.6	180.5	180.5	181.0	182.0	183.2	184.2
40°	180.5	179.3	178.0	177.0	179.0	178.8	178.9	179.6	180.5	181.5	182.6
40.5°	179.0	177.7	176.3	175.4	177.4	177.2	177.4	178.0	178.7	179.9	181.1
41°	177.4	176.2	174.8	173.8	175.7	175.6	175.8	176.3	177.1	178.3	179.5
41.5°	175.8	174.4	173.2	172.1	174.1	174.0	174.1	174.7	175.6	176.7	177.7
42°	174.1	172.9	171.5	170.6	172.4	172.3	172.4	172.9	173.9	175.0	176.1
42.5°	172.5	171.1	169.8	168.8	170.7	170.6	170.8	171.3	172.2	173.4	174.6
43°	170.8	169.4	168.0	167.1	169.0	169.0	169.1	169.8	170.7	171.7	172.9
43.5°	169.2	167.8	166.6	165.4	167.2	167.3	167.5	168.0	169.0	170.0	171.2



TEST NUMBER: P938616

CATALOG NUMBER: SMX4RLSFSD2W-650LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	164.0	162.6	161.2	160.2	162.1	162.2	162.3	162.8	163.8	165.1	166.1
45.5°	162.2	160.8	159.6	158.6	160.3	160.4	160.6	161.2	162.2	163.3	164.5
46°	160.6	159.2	157.8	156.7	158.6	158.6	158.7	159.3	160.4	161.6	162.7
46.5°	158.7	157.4	155.9	155.0	156.8	156.8	157.0	157.6	158.6	159.8	161.1
47°	157.0	155.6	154.2	153.1	155.1	155.0	155.2	155.8	156.8	158.2	159.3
47.5°	155.1	153.8	152.4	151.3	153.2	153.2	153.5	154.1	155.2	156.4	157.5
48°	153.4	152.1	150.6	149.5	151.5	151.5	151.7	152.4	153.4	154.5	155.8
48.5°	151.5	150.2	148.8	147.7	149.7	149.7	149.9	150.5	151.6	152.8	153.9
49°	149.8	148.4	146.9	145.8	147.8	147.8	148.0	148.7	149.7	151.0	152.2
49.5°	147.9	146.5	145.2	144.1	146.0	146.0	146.2	146.9	148.0	149.1	150.3
50°	146.1	144.8	143.3	142.0	144.1	144.0	144.3	145.0	146.1	147.3	148.6
50.5°	144.3	142.8	141.4	140.3	142.3	142.3	142.5	143.2	144.3	145.5	146.7
51°	142.3	141.0	139.5	138.5	140.4	140.4	140.7	141.3	142.3	143.7	144.9
51.5°	140.5	139.1	137.7	136.6	138.5	138.5	138.8	139.5	140.6	141.9	143.0
52°	138.6	137.3	135.7	134.5	136.7	136.6	136.9	137.6	138.6	140.0	141.2
52.5°	136.8	135.3	133.9	132.9	134.7	134.8	135.1	135.7	136.9	138.0	139.3
53°	134.8	133.5	132.0	130.9	132.8	132.9	133.2	133.8	134.9	136.1	137.5
53.5°	133.0	131.4	130.1	129.0	130.9	131.0	131.2	131.9	133.0	134.4	135.5
54°	131.0	129.6	128.1	127.0	128.9	128.9	129.3	129.9	131.1	132.4	133.7
54.5°	129.0	127.6	126.1	125.2	127.1	127.1	127.3	128.0	129.2	130.5	131.7
55°	127.1	125.8	124.3	123.1	125.0	125.1	125.5	126.1	127.2	128.6	129.8
55.5°	125.2	123.7	122.2	121.2	123.1	123.1	123.5	124.2	125.3	126.8	127.9
56°	123.2	121.8	120.4	119.2	121.1	121.1	121.5	122.2	123.3	124.6	126.0
56.5°	121.2	119.7	118.2	117.2	119.2	119.2	119.5	120.3	121.5	122.8	124.1
57°	119.3	117.8	116.3	115.3	117.2	117.2	117.6	118.2	119.4	120.7	122.0
57.5°	117.3	115.8	114.2	113.2	115.1	115.3	115.6	116.3	117.5	118.9	120.0
58°	115.3	113.8	112.3	111.2	113.1	113.2	113.6	114.3	115.4	116.8	118.1
58.5°	113.3	111.7	110.2	109.2	111.2	111.2	111.6	112.3	113.5	115.0	116.2
59°	111.3	109.7	108.3	107.1	109.1	109.2	109.5	110.2	111.5	112.8	114.2
59.5°	109.2	107.7	106.3	105.2	107.1	107.1	107.5	108.3	109.4	110.9	112.0
60°	107.1	105.7	104.2	103.1	105.1	105.1	105.5	106.3	107.4	108.8	110.1
60.5°	105.2	103.6	102.1	101.1	103.0	103.0	103.5	104.3	105.4	106.8	108.0
61°	103.0	101.5	100.0	99.0	100.9	101.0	101.4	102.2	103.4	104.8	106.1
61.5°	101.0	99.5	98.0	96.9	98.9	99.0	99.5	100.2	101.3	102.9	104.0
62°	99.0	97.4	95.9	94.9	96.8	96.9	97.3	98.1	99.3	100.7	102.0
62.5°	96.8	95.3	93.8	92.8	94.8	94.8	95.3	96.0	97.2	98.7	99.9
63°	94.9	93.2	91.8	90.7	92.6	92.7	93.1	93.9	95.2	96.5	97.8
63.5°	92.6	91.1	89.6	88.6	90.5	90.6	91.1	91.9	93.1	94.5	95.8
64°	90.6	89.0	87.6	86.5	88.4	88.5	89.0	89.8	91.0	92.5	93.7
64.5°	88.4	86.9	85.4	84.4	86.4	86.5	86.9	87.7	89.0	90.4	91.6
65°	86.4	84.8	83.4	82.3	84.3	84.4	84.8	85.7	86.9	88.3	89.6
65.5°	84.2	82.7	81.2	80.1	82.1	82.2	82.7	83.5	84.7	86.1	87.5
66°	82.1	80.5	79.1	78.0	80.0	80.1	80.5	81.4	82.7	84.1	85.4



TEST NUMBER: P938616
 CATALOG NUMBER: SMX4RLSFS2W-650LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	75.6	74.1	72.7	71.6	73.7	73.8	74.3	75.1	76.3	77.7	79.0
68°	73.5	71.9	70.6	69.5	71.6	71.6	72.1	73.0	74.2	75.6	77.0
68.5°	71.4	69.8	68.4	67.4	69.3	69.5	70.0	70.9	72.1	73.5	74.8
69°	69.3	67.7	66.2	65.3	67.2	67.4	67.9	68.7	69.9	71.4	72.7
69.5°	67.1	65.5	64.1	63.1	65.1	65.2	65.7	66.6	67.8	69.2	70.5
70°	64.9	63.4	61.9	61.0	62.9	63.1	63.6	64.5	65.7	67.1	68.4
70.5°	62.8	61.2	59.8	58.8	60.8	61.0	61.5	62.4	63.6	65.0	66.2
71°	60.6	59.1	57.7	56.7	58.6	58.9	59.4	60.3	61.4	62.9	64.1
71.5°	58.5	56.9	55.6	54.6	56.6	56.7	57.3	58.1	59.3	60.7	62.0
72°	56.3	54.8	53.5	52.5	54.5	54.6	55.1	56.1	57.2	58.6	59.8
72.5°	54.2	52.6	51.3	50.3	52.4	52.5	53.0	53.9	55.1	56.4	57.7
73°	52.0	50.5	49.2	48.3	50.2	50.4	50.9	51.8	53.0	54.3	55.6
73.5°	49.9	48.3	47.1	46.1	48.1	48.3	48.8	49.7	50.8	52.3	53.5
74°	47.7	46.3	44.9	44.0	46.1	46.2	46.7	47.6	48.7	50.2	51.4
74.5°	45.6	44.1	42.8	42.0	44.0	44.1	44.6	45.5	46.7	48.1	49.3
75°	43.5	42.1	40.8	39.9	41.8	42.1	42.5	43.4	44.5	46.0	47.2
75.5°	41.4	39.9	38.7	37.8	39.7	40.0	40.5	41.4	42.5	43.9	45.1
76°	39.3	37.9	36.6	35.7	37.7	37.9	38.4	39.3	40.4	41.8	43.0
76.5°	37.2	35.9	34.5	33.7	35.6	35.9	36.3	37.2	38.4	39.7	40.9
77°	35.2	33.8	32.6	31.7	33.6	33.8	34.4	35.2	36.3	37.7	38.8
77.5°	33.2	31.9	30.6	29.8	31.6	31.9	32.4	33.2	34.3	35.6	36.9
78°	31.2	29.8	28.6	27.8	29.7	29.8	30.4	31.2	32.3	33.6	34.8
78.5°	29.2	27.9	26.7	25.9	27.6	27.9	28.3	29.2	30.4	31.6	32.8
79°	27.2	26.0	24.8	24.0	25.8	26.0	26.4	27.3	28.4	29.7	30.7
79.5°	25.3	24.0	22.8	22.1	23.9	24.0	24.6	25.4	26.4	27.7	28.8
80°	23.4	22.1	20.9	20.4	22.0	22.1	22.7	23.6	24.6	25.8	26.8
80.5°	21.6	20.4	19.3	18.7	20.2	20.3	20.9	21.7	22.7	23.9	25.0
81°	19.9	18.7	17.6	17.0	18.4	18.6	19.1	19.9	20.9	22.1	23.1
81.5°	18.2	17.0	16.0	15.3	16.6	16.9	17.4	18.1	19.1	20.2	21.2
82°	16.5	15.3	14.3	13.5	15.0	15.2	15.6	16.4	17.4	18.4	19.4
82.5°	14.7	13.7	12.6	12.1	13.4	13.5	14.0	14.8	15.7	16.8	17.7
83°	13.1	12.1	11.1	10.5	11.8	12.0	12.4	13.2	14.0	15.0	16.0
83.5°	11.5	10.6	9.7	9.1	10.3	10.5	11.0	11.6	12.5	13.5	14.4
84°	10.1	9.1	8.3	7.8	8.9	9.1	9.5	10.2	11.0	11.9	12.8
84.5°	8.7	7.8	7.0	6.6	7.6	7.8	8.2	8.8	9.5	10.4	11.2
85°	7.4	6.6	5.8	5.4	6.5	6.7	7.1	7.5	8.2	9.0	9.8
85.5°	6.2	5.4	4.8	4.3	5.5	5.7	6.0	6.5	7.2	7.8	8.4
86°	5.1	4.4	3.8	3.4	4.5	4.7	5.0	5.5	6.2	6.7	7.2
86.5°	4.1	3.5	2.9	2.6	3.5	3.6	3.9	4.5	5.2	5.7	6.2
87°	3.3	2.7	2.2	1.9	2.4	2.6	2.8	3.5	4.2	4.7	5.2
87.5°	2.5	2.0	1.8	1.4	1.8	1.8	2.1	2.4	3.2	3.6	4.2
88°	2.1	1.7	1.4	1.0	1.3	1.3	1.6	1.8	2.2	2.6	3.3
88.5°	1.8	1.4	1.0	0.8	0.9	1.0	1.1	1.4	1.6	2.0	2.3



TEST NUMBER: P938616
CATALOG NUMBER: SMX4RLSFS2W-650LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P938616

CATALOG NUMBER: SMX4RLSFSD2W-650LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	250.7	250.7	250.7	250.7	250.7	250.7
0.5°	250.2	251.2	251.2	250.8	250.4	250.6
1°	250.4	251.3	251.2	250.7	250.9	250.4
1.5°	250.2	251.2	251.0	250.6	250.4	250.4
2°	250.2	251.0	251.0	250.8	250.7	250.4
2.5°	250.3	251.0	251.1	250.5	250.3	250.3
3°	250.1	251.0	250.8	250.4	250.4	250.1
3.5°	249.9	250.9	250.9	250.3	250.0	250.0
4°	249.9	250.7	250.4	250.1	250.2	249.8
4.5°	249.7	250.6	250.4	249.8	249.6	249.7
5°	249.5	250.2	250.1	249.7	249.7	249.4
5.5°	249.3	250.2	250.0	249.6	249.1	249.0
6°	249.3	249.8	249.6	249.3	249.2	248.8
6.5°	248.8	249.5	249.4	249.0	248.7	248.6
7°	248.7	249.3	248.8	248.7	248.4	248.3
7.5°	248.1	248.9	248.8	248.5	248.0	247.9
8°	248.1	248.6	248.5	248.1	247.8	247.5
8.5°	247.5	248.2	248.1	247.8	247.2	247.0
9°	247.5	247.8	247.6	247.2	247.0	246.8
9.5°	246.6	247.5	247.4	247.0	246.5	246.3
10°	246.6	246.9	246.6	246.3	246.2	245.8
10.5°	245.8	246.5	246.4	246.0	245.6	245.3
11°	245.6	245.9	245.7	245.4	245.2	244.7
11.5°	245.1	245.5	245.3	245.0	244.5	244.2
12°	244.7	244.9	244.7	244.2	244.2	243.6
12.5°	244.0	244.4	244.2	244.0	243.3	243.2
13°	243.6	243.8	243.6	243.2	243.0	242.6
13.5°	242.7	243.3	242.9	242.7	242.2	241.9
14°	242.3	242.5	242.3	242.0	241.9	241.2
14.5°	241.6	242.0	241.8	241.4	241.0	240.7
15°	241.0	241.3	241.1	240.7	240.4	239.8
15.5°	240.1	240.6	240.6	239.9	239.5	239.1
16°	239.9	239.8	239.6	239.3	238.9	238.4
16.5°	238.7	239.2	239.1	238.5	238.1	237.6
17°	238.3	238.3	238.1	237.9	237.4	236.9
17.5°	237.3	237.6	237.6	236.9	236.5	235.9
18°	236.7	236.7	236.5	236.3	235.8	235.4
18.5°	235.7	236.0	236.0	235.4	234.8	234.3
19°	235.1	235.0	234.9	234.5	234.2	233.6
19.5°	233.9	234.3	234.3	233.6	233.0	232.6
20°	233.3	233.3	233.2	232.9	232.4	231.8
20.5°	232.3	232.5	232.5	231.9	231.2	230.8
21°	231.6	231.4	231.4	231.1	230.6	230.0



TEST NUMBER: P938616

CATALOG NUMBER: SMX4RLSFSD2W-650LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	228.7	228.7	228.6	228.1	227.4	226.9
23°	227.5	227.5	227.4	227.1	226.8	225.9
23.5°	226.6	226.6	226.5	226.0	225.3	224.6
24°	225.6	225.4	225.4	225.0	224.4	224.0
24.5°	224.4	224.4	224.4	224.0	223.1	222.5
25°	223.4	223.3	223.2	222.9	222.4	221.7
25.5°	222.3	222.2	222.3	221.7	220.9	220.4
26°	221.2	221.1	221.0	220.6	220.0	219.5
26.5°	220.1	220.0	219.9	219.5	218.7	218.1
27°	218.9	218.7	218.7	218.3	217.7	217.2
27.5°	217.9	217.6	217.7	217.0	216.2	215.8
28°	216.6	216.3	216.4	215.9	215.5	214.7
28.5°	215.4	215.1	215.2	214.6	213.9	213.3
29°	214.3	213.9	213.8	213.5	213.0	212.3
29.5°	212.9	212.7	212.7	212.2	211.5	210.8
30°	211.8	211.4	211.4	211.0	210.4	209.6
30.5°	210.4	210.1	210.2	209.6	208.9	208.3
31°	209.3	208.9	208.8	208.4	207.8	207.0
31.5°	207.8	207.6	207.6	206.9	206.3	205.6
32°	206.5	206.1	206.1	205.8	205.2	204.3
32.5°	205.2	204.9	204.9	204.4	203.6	202.9
33°	203.9	203.4	203.5	203.2	202.4	201.5
33.5°	202.5	202.1	202.1	201.5	200.9	200.2
34°	201.1	200.7	200.6	200.3	199.6	198.8
34.5°	199.7	199.3	199.4	198.7	198.0	197.3
35°	198.3	197.8	197.8	197.5	196.8	195.8
35.5°	196.8	196.3	196.5	195.9	195.0	194.4
36°	195.4	195.0	194.8	194.5	193.8	192.9
36.5°	193.9	193.4	193.5	192.9	192.2	191.4
37°	192.6	191.9	191.9	191.6	190.8	189.9
37.5°	191.0	190.4	190.5	190.0	189.2	188.4
38°	189.5	188.8	189.0	188.5	187.7	186.8
38.5°	188.0	187.3	187.4	186.9	186.1	185.5
39°	186.6	185.8	185.8	185.4	184.8	183.7
39.5°	184.9	184.2	184.3	183.8	182.9	182.3
40°	183.3	182.6	182.7	182.3	181.5	180.5
40.5°	181.8	181.1	181.1	180.7	179.8	179.0
41°	180.2	179.5	179.5	179.0	178.3	177.4
41.5°	178.6	177.8	177.9	177.4	176.6	175.8
42°	177.0	176.2	176.2	175.9	175.0	174.1
42.5°	175.4	174.5	174.6	174.1	173.2	172.5
43°	173.7	172.9	173.0	172.5	171.7	170.8
43.5°	172.1	171.2	171.2	170.9	170.0	169.2



TEST NUMBER: P938616

CATALOG NUMBER: SMX4RLSFSD2W-650LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	167.1	166.0	166.1	165.7	165.0	164.0
45.5°	165.2	164.5	164.4	163.9	163.2	162.2
46°	163.6	162.7	162.7	162.4	161.6	160.6
46.5°	161.7	161.0	161.0	160.5	159.6	158.7
47°	160.2	159.2	159.2	158.6	157.9	157.0
47.5°	158.3	157.5	157.5	157.0	156.2	155.1
48°	156.6	155.6	155.6	155.3	154.5	153.4
48.5°	154.8	153.9	153.9	153.4	152.6	151.5
49°	153.0	152.1	152.0	151.7	150.8	149.8
49.5°	151.3	150.2	150.3	149.8	148.9	147.9
50°	149.4	148.3	148.4	148.1	147.1	146.1
50.5°	147.5	146.5	146.7	146.1	145.3	144.3
51°	145.8	144.7	144.7	144.3	143.4	142.3
51.5°	143.9	142.8	142.9	142.5	141.5	140.5
52°	142.1	141.0	141.0	140.7	139.8	138.6
52.5°	140.2	139.1	139.2	138.6	137.8	136.8
53°	138.2	137.2	137.2	136.9	135.9	134.8
53.5°	136.4	135.3	135.4	134.8	134.0	133.0
54°	134.5	133.3	133.4	133.0	132.1	131.0
54.5°	132.5	131.4	131.5	131.0	130.1	129.0
55°	130.8	129.6	129.6	129.2	128.3	127.1
55.5°	128.7	127.5	127.5	127.1	126.2	125.2
56°	127.0	125.7	125.7	125.3	124.3	123.2
56.5°	124.9	123.6	123.7	123.3	122.4	121.2
57°	123.0	121.7	121.8	121.3	120.4	119.3
57.5°	120.9	119.7	119.7	119.2	118.3	117.3
58°	119.0	117.8	117.8	117.3	116.4	115.3
58.5°	117.0	115.8	115.7	115.3	114.4	113.3
59°	115.0	113.7	113.8	113.3	112.3	111.3
59.5°	113.0	111.7	111.7	111.2	110.4	109.2
60°	111.0	109.7	109.7	109.2	108.3	107.1
60.5°	108.9	107.7	107.6	107.1	106.3	105.2
61°	107.0	105.6	105.6	105.1	104.2	103.0
61.5°	104.9	103.6	103.6	103.0	102.1	101.0
62°	102.9	101.5	101.5	101.1	100.1	99.0
62.5°	100.7	99.5	99.5	98.9	98.0	96.8
63°	98.8	97.4	97.3	96.9	95.9	94.9
63.5°	96.6	95.3	95.3	94.7	93.8	92.6
64°	94.6	93.2	93.1	92.8	91.8	90.6
64.5°	92.6	91.1	91.1	90.5	89.6	88.4
65°	90.4	89.1	89.0	88.5	87.5	86.4
65.5°	88.3	86.9	86.8	86.3	85.4	84.2
66°	86.2	84.8	84.7	84.3	83.3	82.1



TEST NUMBER: P938616
 CATALOG NUMBER: SMX4RLSFSD2W-650LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	79.8	78.4	78.3	77.9	76.8	75.6
68°	77.8	76.2	76.1	75.7	74.7	73.5
68.5°	75.6	74.2	74.0	73.6	72.6	71.4
69°	73.5	72.0	71.8	71.4	70.5	69.3
69.5°	71.3	69.8	69.7	69.2	68.2	67.1
70°	69.2	67.7	67.5	67.1	66.1	64.9
70.5°	67.2	65.4	65.4	64.9	64.0	62.8
71°	65.0	63.4	63.2	62.8	61.8	60.6
71.5°	62.8	61.3	61.1	60.6	59.7	58.5
72°	60.7	59.1	58.9	58.5	57.5	56.3
72.5°	58.6	56.9	56.9	56.3	55.4	54.2
73°	56.4	54.8	54.6	54.2	53.2	52.0
73.5°	54.3	52.7	52.5	52.0	51.1	49.9
74°	52.2	50.5	50.4	49.9	48.9	47.7
74.5°	50.1	48.4	48.3	47.7	46.8	45.6
75°	48.0	46.3	46.1	45.6	44.7	43.5
75.5°	45.8	44.1	44.0	43.6	42.6	41.4
76°	43.7	42.1	41.9	41.4	40.4	39.3
76.5°	41.6	40.0	39.8	39.3	38.4	37.2
77°	39.6	37.9	37.7	37.2	36.3	35.2
77.5°	37.5	35.9	35.7	35.3	34.3	33.2
78°	35.4	33.8	33.6	33.2	32.3	31.2
78.5°	33.4	31.8	31.6	31.1	30.2	29.2
79°	31.4	29.9	29.7	29.2	28.3	27.2
79.5°	29.5	27.9	27.7	27.2	26.4	25.3
80°	27.5	25.9	25.8	25.4	24.4	23.4
80.5°	25.6	24.0	23.9	23.4	22.6	21.6
81°	23.7	22.2	22.0	21.6	20.8	19.9
81.5°	21.8	20.5	20.3	19.9	19.1	18.2
82°	20.0	18.8	18.6	18.2	17.4	16.5
82.5°	18.3	17.1	16.9	16.5	15.6	14.7
83°	16.5	15.3	15.2	14.8	13.9	13.1
83.5°	14.9	13.6	13.5	13.1	12.3	11.5
84°	13.3	12.1	11.9	11.6	10.9	10.1
84.5°	11.8	10.6	10.4	10.1	9.5	8.7
85°	10.3	9.1	9.0	8.7	8.1	7.4
85.5°	8.9	7.8	7.7	7.4	6.9	6.2
86°	7.6	6.6	6.5	6.2	5.7	5.1
86.5°	6.6	5.4	5.3	5.1	4.7	4.1
87°	5.5	4.4	4.4	4.1	3.7	3.3
87.5°	4.5	3.5	3.5	3.3	2.9	2.5
88°	3.5	2.7	2.6	2.5	2.2	2.1
88.5°	2.6	2.0	2.0	2.2	1.9	1.8



TEST NUMBER: P938616
CATALOG NUMBER: SMX4RLSFSD2W-650LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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°	228.8	228.1	227.4	226.5	228.4	228.1	228.0	228.3	228.9	229.6	230.0
22°	228.0	227.2	226.1	225.6	227.1	227.2	226.9	227.4	227.7	228.4	229.2



44°	167.4	166.1	164.7	163.6	165.6	165.6	165.7	166.3	167.2	168.4	169.5
44.5°	165.6	164.4	163.0	162.0	163.9	163.9	163.9	164.5	165.6	166.7	167.9



66.5°	79.9	78.3	76.8	75.9	77.9	78.0	78.5	79.3	80.5	81.9	83.2
67°	77.9	76.3	74.8	73.8	75.8	75.9	76.4	77.3	78.4	79.8	81.2



89°	1.4	1.0	0.7	0.7	0.6	0.7	0.8	1.0	1.2	1.5	1.7
89.5°	1.1	0.7	0.5	0.5	0.5	0.5	0.6	0.8	1.0	1.1	1.3

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°	230.4	230.5	230.5	229.9	229.4	228.8
22°	229.6	229.5	229.4	229.1	228.6	228.0



44°	170.4	169.4	169.6	169.1	168.5	167.4
44.5°	168.7	167.9	167.9	167.5	166.4	165.6

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

Scaled Data Report



66.5°	84.1	82.6	82.7	82.0	81.2	79.9
67°	82.0	80.5	80.4	80.0	79.0	77.9



89°	1.9	1.7	1.7	1.8	1.6	1.4
89.5°	1.4	1.4	1.4	1.5	1.2	1.1

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

Scaled Data Report



(END OF REPORT)