

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: P938612

Luminaire Tested: SMX4RLSFSD2W-1000LM-3000K

Issue Date: 1/9/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P938612  
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-1000LM-3000K  
Description: 4IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION  
Light Source: SELECTABLE CCT 90CRI / 3000K CCT  
Ballast/Driver: -

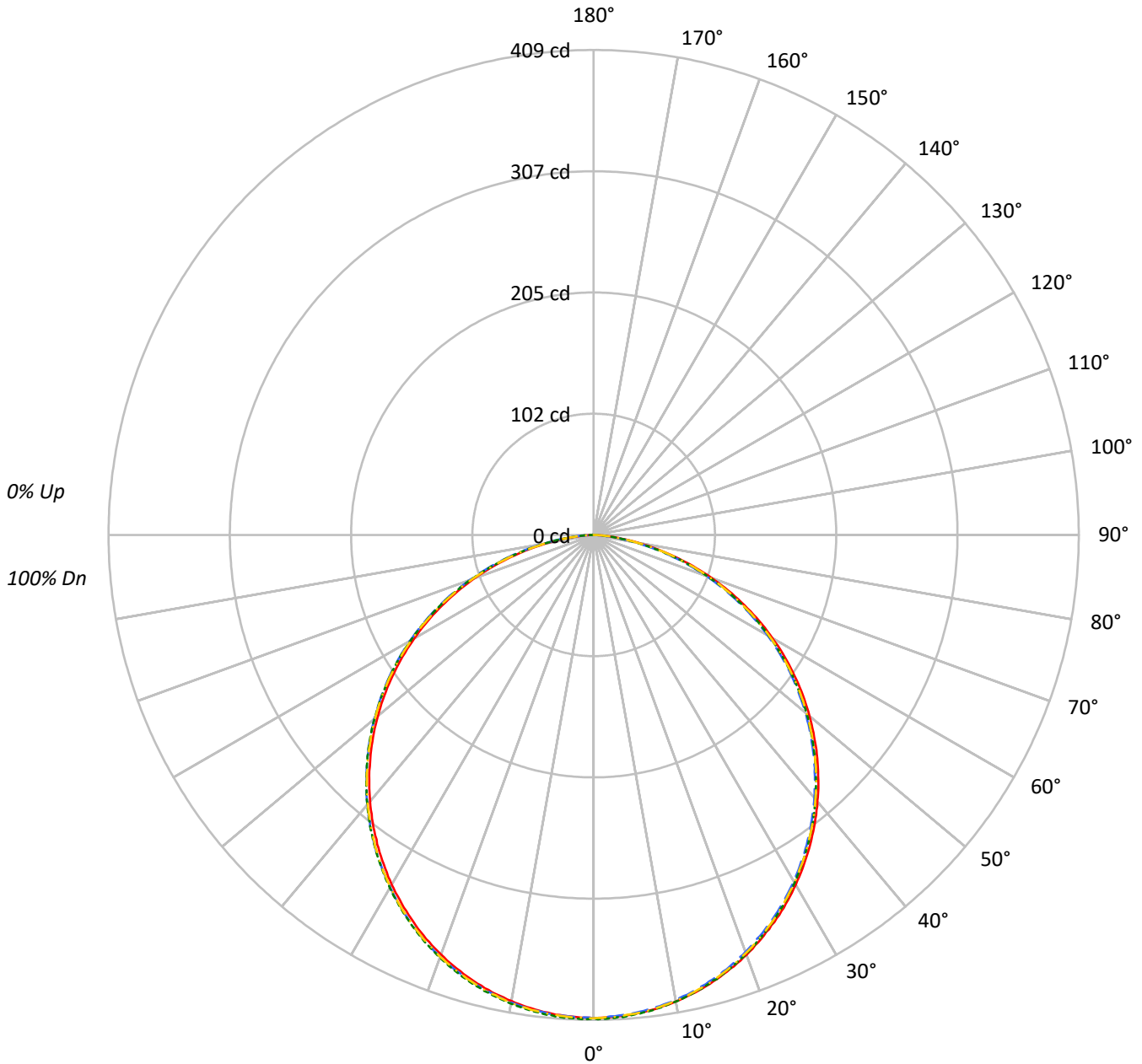
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1135.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 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): 11.5  
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: SMX4RLSFS2W-1000LM-3000K

### Luminous Intensity Polar Plot





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

RF	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	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°	51296	51296	51296	51296
5°	51214	51265	51189	51379
10°	51053	51065	51001	51295
15°	50787	50696	50761	51099
20°	50464	50343	50423	50785
25°	50045	49795	49976	50406
30°	49525	49234	49481	49932
35°	48902	48548	48902	49393
40°	48185	47791	48185	48743
45°	47449	46897	47396	48019
50°	46500	45853	46500	47204
55°	45353	44607	45353	46208
60°	43846	42990	43947	44878
65°	41809	40797	42077	43119
70°	38820	37642	39298	40476
75°	34378	33065	35156	36614
80°	27540	25873	28990	30512
85°	17328	15306	19205	21371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 247.5°  
 Vertical Angle: 45°  
 Luminance: 48339 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.5	3.4
10°-20°	110.0	9.7
20°-30°	166.0	14.6
30°-40°	199.1	17.5
40°-50°	205.5	18.1
50°-60°	184.6	16.3
60°-70°	139.0	12.2
70°-80°	75.8	6.7
80°-90°	16.5	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°	314.5	27.7
0°-40°	513.6	45.2
0°-60°	903.7	79.6
0°-90°	1135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1135.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	408	408	408	408	408	
5°	405	406	405	407	405	39
15°	390	389	390	392	390	110
25°	360	359	360	363	360	166
35°	318	316	318	322	318	199
45°	267	264	266	270	267	206
55°	207	203	207	211	207	185
65°	140	137	141	145	140	139
75°	71	68	72	75	71	75
85°	12	11	13	15	12	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6
0.5°	407.3	407.2	407.3	406.6	408.5	408.2	407.3	407.2	407.2	407.1	407.2
1°	407.1	407.1	406.7	406.8	408.1	407.9	407.4	407.4	407.1	407.6	407.0
1.5°	407.0	406.9	406.9	406.3	408.2	407.9	406.9	406.9	407.2	407.1	407.0
2°	407.0	406.9	406.3	406.3	407.9	407.7	407.0	407.2	406.9	406.9	407.1
2.5°	406.9	406.6	406.4	405.9	407.7	407.2	406.8	406.8	406.7	406.8	406.8
3°	406.5	406.4	405.8	405.7	407.1	407.2	406.6	406.9	406.6	406.6	406.6
3.5°	406.3	406.0	405.7	405.2	407.4	407.0	406.3	406.1	406.3	406.4	406.4
4°	406.1	405.8	405.2	405.1	406.7	406.4	405.7	406.2	405.8	406.3	406.3
4.5°	405.9	405.3	405.0	404.6	406.3	406.3	405.4	405.5	405.9	406.1	406.0
5°	405.4	405.1	404.5	404.2	405.8	405.5	405.2	405.5	405.2	405.7	405.5
5.5°	404.8	404.6	404.1	403.5	405.7	405.5	404.8	404.5	404.8	405.5	405.6
6°	404.5	404.0	403.6	403.2	404.9	404.6	404.2	404.5	404.5	404.6	404.9
6.5°	404.1	403.6	402.9	402.5	404.5	404.3	403.8	403.4	403.9	404.4	404.4
7°	403.6	403.0	402.6	401.9	404.1	403.5	403.0	403.6	403.4	403.6	404.2
7.5°	403.0	402.4	401.8	401.2	403.1	403.2	402.7	402.4	402.7	403.4	403.7
8°	402.3	401.9	401.2	400.6	402.6	402.3	401.9	402.3	402.2	402.3	402.8
8.5°	401.6	401.1	400.4	399.6	402.0	401.8	401.2	401.1	401.5	402.0	402.5
9°	401.2	400.4	399.7	399.1	401.0	400.9	400.5	400.8	400.8	401.2	401.8
9.5°	400.4	399.5	399.1	398.2	400.3	400.3	399.7	399.6	400.1	400.6	401.1
10°	399.5	398.9	398.1	397.6	399.6	399.3	399.1	399.3	399.1	399.8	400.4
10.5°	398.8	398.3	397.3	396.4	399.0	398.4	398.1	398.4	398.5	399.1	399.4
11°	397.8	397.1	396.3	396.1	397.8	397.6	397.3	397.6	397.4	398.4	398.7
11.5°	397.0	396.5	395.7	394.6	396.8	396.5	396.4	396.5	396.7	397.5	397.8
12°	396.0	395.4	394.5	393.7	395.9	395.8	395.3	395.8	396.0	396.5	397.3
12.5°	395.3	394.3	393.6	392.7	395.0	394.9	394.5	394.3	395.2	395.7	396.0
13°	394.3	393.6	392.3	391.7	393.9	393.8	393.3	393.8	393.9	394.7	395.3
13.5°	393.2	392.4	391.4	390.5	393.1	392.5	392.4	392.6	393.1	393.5	394.4
14°	392.1	391.3	390.6	389.4	391.6	391.9	391.2	391.7	391.8	392.6	393.3
14.5°	391.2	390.1	389.0	388.1	390.8	390.2	390.2	390.3	390.9	391.7	392.4
15°	389.8	389.1	388.0	387.0	389.1	389.4	388.9	389.4	389.6	390.3	391.1
15.5°	388.7	387.7	386.7	385.9	388.8	388.0	387.8	387.8	388.5	389.3	390.1
16°	387.5	386.6	385.7	384.4	386.8	386.8	386.5	386.9	387.3	388.2	388.8
16.5°	386.2	385.4	384.1	383.2	386.0	385.4	385.2	385.5	386.2	387.0	387.8
17°	385.1	384.3	383.2	381.7	384.4	384.4	383.9	384.4	384.7	385.6	386.3
17.5°	383.5	382.7	381.5	380.3	383.3	382.9	382.6	382.9	383.6	384.5	385.3
18°	382.7	381.6	380.1	379.2	381.7	381.6	381.2	381.9	382.2	382.9	384.0
18.5°	380.9	380.0	379.0	377.5	380.4	380.0	379.8	380.0	380.9	382.1	382.7
19°	379.8	378.7	377.0	376.1	378.9	378.5	378.5	378.8	379.5	380.4	381.2
19.5°	378.1	376.9	375.9	374.6	377.5	377.3	376.7	377.1	377.9	379.1	379.9
20°	376.8	375.6	374.2	373.2	375.9	375.6	375.3	376.1	376.5	377.6	378.6
20.5°	375.2	373.9	372.8	371.6	374.4	374.2	373.7	374.2	375.0	376.2	376.8
21°	373.9	372.7	371.0	370.0	372.4	372.6	372.3	372.9	373.5	374.5	375.8



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CATALOG NUMBER: SMX4RLSFSD2W-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	368.8	367.5	366.2	365.0	367.8	367.7	367.2	367.8	368.9	369.9	370.8
23°	367.2	366.0	364.6	363.3	365.9	365.7	365.6	366.4	367.0	367.9	369.4
23.5°	365.1	364.1	362.6	361.7	364.2	364.2	363.8	364.3	365.4	366.5	367.6
24°	364.0	362.5	360.8	359.7	362.5	362.3	361.9	362.7	363.8	364.7	365.9
24.5°	361.6	360.6	358.9	357.8	360.7	360.4	360.3	360.7	361.9	362.9	364.0
25°	360.4	359.0	357.3	355.9	358.6	358.7	358.6	359.2	359.9	361.0	362.3
25.5°	358.2	357.0	355.4	354.2	356.9	356.7	356.5	357.0	358.1	359.4	360.7
26°	356.9	355.0	353.6	352.1	355.1	354.7	354.7	355.3	356.4	357.6	358.8
26.5°	354.5	353.1	351.5	350.3	352.9	353.0	352.7	353.5	354.3	355.6	357.0
27°	353.0	351.3	349.5	348.3	351.2	351.1	351.0	351.6	352.8	353.9	355.2
27.5°	350.8	349.2	347.8	346.3	349.2	349.0	348.6	349.5	350.5	351.6	353.2
28°	348.9	347.4	345.6	344.3	347.2	347.0	346.8	347.6	348.4	350.0	351.3
28.5°	346.8	345.1	343.5	342.1	345.0	344.8	344.7	345.3	346.4	347.8	349.3
29°	345.0	343.1	341.4	340.1	342.9	342.9	342.6	343.6	344.7	345.8	347.5
29.5°	342.6	341.2	339.3	337.9	341.0	340.7	340.7	341.3	342.4	344.0	345.1
30°	340.8	339.1	337.4	335.9	338.8	338.6	338.3	339.5	340.5	341.7	343.5
30.5°	338.5	336.9	335.0	333.6	336.7	336.6	336.4	337.0	338.2	339.6	341.1
31°	336.5	334.9	333.0	331.7	334.4	334.4	334.0	335.0	336.3	337.8	339.0
31.5°	334.3	332.4	330.8	329.3	332.4	332.1	331.9	332.9	333.7	335.3	336.8
32°	332.1	330.3	328.5	327.1	329.9	329.9	329.7	330.7	331.8	333.4	334.8
32.5°	329.8	328.1	326.1	324.9	327.6	327.6	327.5	328.2	329.4	331.0	332.6
33°	327.5	325.9	324.1	322.4	325.3	325.3	325.3	326.2	327.4	328.7	330.4
33.5°	325.3	323.3	321.7	320.0	323.1	323.0	323.1	323.6	324.9	326.6	328.4
34°	323.1	321.3	319.2	317.7	320.7	320.7	320.7	321.5	322.8	324.2	325.8
34.5°	320.7	318.7	317.1	315.5	318.5	318.5	318.3	318.9	320.2	322.1	323.8
35°	318.3	316.6	314.6	312.9	316.0	315.8	315.7	316.9	318.3	319.6	321.2
35.5°	316.0	314.1	312.3	310.7	313.7	313.5	313.5	314.3	315.4	317.2	319.1
36°	313.5	311.8	309.7	308.1	311.3	310.9	311.1	312.3	313.4	315.0	316.3
36.5°	311.2	309.3	307.5	305.7	308.9	308.7	308.7	309.3	310.8	312.7	314.4
37°	308.7	306.9	304.7	303.2	306.1	306.0	306.1	307.1	308.5	309.8	311.7
37.5°	306.2	304.1	302.4	300.7	304.0	303.6	303.7	304.5	305.8	307.8	309.5
38°	303.6	301.8	299.6	298.2	301.1	301.0	301.2	302.2	303.6	305.1	306.7
38.5°	301.5	299.1	297.3	295.5	298.9	298.5	298.7	299.5	300.8	302.8	304.6
39°	298.7	296.7	294.5	293.3	296.1	296.0	296.2	297.1	298.6	300.1	301.9
39.5°	296.4	294.0	292.1	290.3	293.5	293.4	293.4	294.2	295.9	297.7	299.4
40°	293.3	291.4	289.4	287.7	290.9	290.6	290.8	291.9	293.3	295.1	296.8
40.5°	291.0	288.8	286.7	285.1	288.3	288.1	288.3	289.3	290.5	292.5	294.3
41°	288.3	286.4	284.1	282.5	285.6	285.5	285.8	286.7	287.9	289.9	291.7
41.5°	285.8	283.5	281.5	279.8	283.0	282.8	283.1	283.9	285.4	287.2	288.9
42°	283.1	281.1	278.7	277.3	280.3	280.1	280.3	281.0	282.7	284.5	286.3
42.5°	280.4	278.1	276.1	274.3	277.5	277.3	277.6	278.5	280.0	281.9	283.8
43°	277.6	275.4	273.1	271.6	274.7	274.6	274.8	276.0	277.5	279.1	281.0
43.5°	275.0	272.7	270.9	268.9	271.8	271.9	272.2	273.1	274.7	276.4	278.3



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CATALOG NUMBER: SMX4RLSFSD2W-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	266.6	264.4	262.0	260.4	263.5	263.6	263.9	264.6	266.3	268.4	270.1
45.5°	263.6	261.4	259.4	257.8	260.6	260.7	261.1	262.0	263.7	265.5	267.4
46°	261.1	258.7	256.5	254.8	257.8	257.9	258.0	259.0	260.7	262.6	264.4
46.5°	258.0	255.8	253.5	251.9	254.8	254.8	255.2	256.2	257.9	259.8	261.8
47°	255.1	252.9	250.6	248.9	252.0	251.9	252.2	253.3	254.9	257.2	258.9
47.5°	252.1	250.0	247.8	245.9	249.0	249.0	249.5	250.5	252.3	254.3	256.0
48°	249.3	247.2	244.9	243.0	246.2	246.2	246.5	247.7	249.3	251.1	253.3
48.5°	246.3	244.2	241.9	240.0	243.3	243.3	243.7	244.6	246.4	248.4	250.2
49°	243.5	241.3	238.8	237.0	240.2	240.2	240.6	241.7	243.4	245.4	247.5
49.5°	240.4	238.2	236.0	234.3	237.4	237.3	237.7	238.8	240.5	242.4	244.4
50°	237.5	235.4	232.9	230.9	234.2	234.1	234.6	235.7	237.5	239.4	241.6
50.5°	234.5	232.1	229.9	228.1	231.3	231.3	231.7	232.8	234.6	236.5	238.5
51°	231.4	229.2	226.8	225.1	228.3	228.2	228.7	229.7	231.4	233.6	235.6
51.5°	228.4	226.1	223.8	222.1	225.2	225.2	225.7	226.7	228.6	230.6	232.4
52°	225.3	223.1	220.6	218.7	222.2	222.0	222.6	223.6	225.3	227.6	229.4
52.5°	222.4	219.9	217.7	216.0	219.0	219.2	219.6	220.6	222.5	224.4	226.4
53°	219.2	216.9	214.5	212.8	215.9	216.0	216.4	217.5	219.3	221.3	223.4
53.5°	216.2	213.6	211.4	209.7	212.9	213.0	213.2	214.4	216.3	218.4	220.3
54°	213.0	210.6	208.2	206.5	209.6	209.5	210.2	211.2	213.1	215.2	217.3
54.5°	209.8	207.4	205.0	203.5	206.6	206.6	206.9	208.1	210.0	212.1	214.1
55°	206.7	204.4	202.0	200.2	203.3	203.4	203.9	205.0	206.7	209.0	210.9
55.5°	203.5	201.0	198.6	197.0	200.2	200.2	200.7	201.9	203.6	206.1	207.9
56°	200.3	197.9	195.7	193.8	196.9	196.9	197.5	198.6	200.4	202.6	204.8
56.5°	197.1	194.6	192.2	190.5	193.8	193.8	194.2	195.5	197.4	199.7	201.7
57°	193.9	191.4	189.1	187.4	190.6	190.5	191.1	192.2	194.1	196.3	198.3
57.5°	190.7	188.2	185.7	184.1	187.2	187.5	187.8	189.0	191.0	193.3	195.1
58°	187.4	185.0	182.6	180.8	183.9	184.1	184.6	185.8	187.5	189.9	192.0
58.5°	184.2	181.6	179.1	177.6	180.8	180.8	181.3	182.6	184.4	186.9	188.8
59°	180.9	178.3	176.0	174.1	177.4	177.6	178.0	179.2	181.2	183.4	185.6
59.5°	177.5	175.0	172.7	171.0	174.1	174.2	174.7	176.0	177.9	180.3	182.1
60°	174.2	171.7	169.3	167.6	170.8	170.8	171.5	172.7	174.6	176.9	179.0
60.5°	171.0	168.4	166.0	164.3	167.5	167.5	168.3	169.5	171.4	173.6	175.6
61°	167.5	165.1	162.5	160.9	164.1	164.2	164.9	166.1	168.1	170.3	172.4
61.5°	164.2	161.8	159.3	157.6	160.8	161.0	161.7	162.9	164.7	167.2	169.0
62°	161.0	158.4	155.8	154.2	157.3	157.6	158.2	159.5	161.4	163.7	165.7
62.5°	157.4	155.0	152.4	150.8	154.1	154.1	154.9	156.1	158.1	160.4	162.4
63°	154.2	151.5	149.1	147.4	150.6	150.7	151.4	152.6	154.8	156.9	159.0
63.5°	150.5	148.1	145.7	144.0	147.1	147.3	148.1	149.3	151.3	153.6	155.7
64°	147.2	144.7	142.4	140.6	143.7	143.9	144.7	145.9	148.0	150.3	152.3
64.5°	143.7	141.2	138.9	137.1	140.4	140.6	141.2	142.6	144.6	146.9	149.0
65°	140.4	137.9	135.6	133.7	137.0	137.1	137.9	139.3	141.3	143.5	145.7
65.5°	136.8	134.4	132.0	130.2	133.4	133.6	134.5	135.8	137.7	140.0	142.2
66°	133.4	130.8	128.6	126.8	130.0	130.2	130.9	132.4	134.4	136.6	138.8





TEST NUMBER: P938612

CATALOG NUMBER: SMX4RLSFS2W-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	123.0	120.4	118.1	116.5	119.8	120.0	120.7	122.1	124.0	126.4	128.4
68°	119.5	117.0	114.7	113.0	116.4	116.4	117.1	118.7	120.6	123.0	125.1
68.5°	116.0	113.5	111.2	109.6	112.7	113.0	113.8	115.2	117.1	119.5	121.5
69°	112.6	110.0	107.6	106.1	109.3	109.6	110.4	111.7	113.7	116.0	118.1
69.5°	109.0	106.5	104.2	102.6	105.8	106.0	106.9	108.3	110.2	112.5	114.5
70°	105.5	103.0	100.7	99.1	102.3	102.5	103.4	104.8	106.8	109.0	111.2
70.5°	102.0	99.5	97.3	95.6	98.8	99.1	100.0	101.4	103.4	105.7	107.6
71°	98.5	96.1	93.8	92.2	95.3	95.7	96.6	97.9	99.9	102.2	104.2
71.5°	95.0	92.4	90.4	88.7	91.9	92.2	93.1	94.5	96.4	98.7	100.8
72°	91.4	89.1	86.9	85.3	88.5	88.7	89.6	91.2	93.0	95.2	97.3
72.5°	88.1	85.5	83.4	81.7	85.1	85.3	86.2	87.7	89.5	91.7	93.9
73°	84.5	82.0	79.9	78.5	81.7	81.9	82.7	84.3	86.1	88.3	90.4
73.5°	81.1	78.5	76.5	75.0	78.3	78.5	79.3	80.8	82.6	84.9	87.0
74°	77.5	75.3	73.0	71.6	74.9	75.2	75.8	77.4	79.2	81.6	83.6
74.5°	74.2	71.8	69.6	68.3	71.5	71.7	72.4	74.0	75.8	78.2	80.2
75°	70.7	68.5	66.3	64.9	68.0	68.4	69.1	70.6	72.3	74.8	76.7
75.5°	67.3	64.9	62.9	61.5	64.6	65.0	65.8	67.3	69.0	71.4	73.3
76°	63.9	61.7	59.4	58.1	61.3	61.6	62.5	63.9	65.7	67.9	69.9
76.5°	60.5	58.3	56.1	54.8	57.9	58.3	59.1	60.5	62.4	64.6	66.5
77°	57.2	55.0	52.9	51.6	54.6	55.0	55.9	57.2	59.1	61.3	63.1
77.5°	53.9	51.8	49.7	48.4	51.4	51.8	52.7	54.0	55.8	57.9	59.9
78°	50.7	48.5	46.5	45.2	48.2	48.5	49.4	50.7	52.6	54.6	56.5
78.5°	47.4	45.3	43.4	42.1	44.9	45.3	46.1	47.5	49.4	51.4	53.2
79°	44.2	42.2	40.2	39.0	41.9	42.2	43.0	44.4	46.2	48.2	49.9
79.5°	41.1	39.1	37.1	36.0	38.8	39.1	40.1	41.3	43.0	45.0	46.8
80°	38.0	36.0	34.0	33.2	35.7	36.0	36.9	38.3	40.0	41.9	43.6
80.5°	35.1	33.2	31.3	30.4	32.8	33.1	33.9	35.3	36.9	38.9	40.6
81°	32.3	30.5	28.6	27.6	29.9	30.3	31.0	32.3	33.9	35.9	37.5
81.5°	29.6	27.6	26.0	24.8	27.1	27.4	28.2	29.5	31.0	32.9	34.5
82°	26.8	24.9	23.3	22.0	24.3	24.6	25.4	26.7	28.2	30.0	31.5
82.5°	24.0	22.2	20.6	19.6	21.7	22.0	22.8	24.0	25.5	27.2	28.7
83°	21.2	19.6	18.0	17.1	19.2	19.5	20.2	21.4	22.8	24.4	26.0
83.5°	18.7	17.2	15.7	14.7	16.8	17.1	17.8	18.9	20.3	21.9	23.4
84°	16.5	14.8	13.5	12.6	14.4	14.7	15.4	16.6	17.8	19.4	20.8
84.5°	14.2	12.7	11.4	10.7	12.3	12.6	13.3	14.4	15.5	17.0	18.2
85°	12.0	10.7	9.5	8.7	10.6	10.9	11.5	12.1	13.3	14.6	15.9
85.5°	10.1	8.8	7.8	7.0	8.9	9.2	9.8	10.6	11.6	12.6	13.7
86°	8.3	7.2	6.2	5.5	7.3	7.6	8.0	8.9	10.1	10.9	11.6
86.5°	6.7	5.6	4.8	4.2	5.6	5.8	6.3	7.3	8.4	9.2	10.1
87°	5.3	4.4	3.6	3.1	4.0	4.2	4.6	5.6	6.8	7.6	8.5
87.5°	4.1	3.3	3.0	2.2	2.9	3.0	3.4	4.0	5.1	5.9	6.9
88°	3.5	2.7	2.3	1.6	2.0	2.1	2.5	3.0	3.6	4.3	5.3
88.5°	2.9	2.2	1.6	1.4	1.5	1.6	1.8	2.2	2.6	3.2	3.8



TEST NUMBER: P938612  
CATALOG NUMBER: SMX4RLSFSD2W-1000LM-3000K

**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: P938612

CATALOG NUMBER: SMX4RLSFSD2W-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	407.6	407.6	407.6	407.6	407.6	407.6
0.5°	406.7	408.3	408.3	407.7	407.1	407.3
1°	407.1	408.6	408.3	407.6	407.8	407.1
1.5°	406.7	408.4	408.1	407.3	407.0	407.0
2°	406.7	408.1	408.0	407.7	407.6	407.0
2.5°	406.9	408.1	408.2	407.2	406.8	406.9
3°	406.5	408.0	407.7	407.1	407.1	406.5
3.5°	406.2	407.8	407.8	406.8	406.4	406.3
4°	406.2	407.5	407.0	406.6	406.7	406.1
4.5°	405.9	407.4	407.0	406.1	405.7	405.9
5°	405.5	406.7	406.5	405.9	405.8	405.4
5.5°	405.2	406.7	406.4	405.6	405.0	404.8
6°	405.2	406.1	405.6	405.3	405.1	404.5
6.5°	404.4	405.5	405.5	404.7	404.2	404.1
7°	404.3	405.2	404.5	404.3	403.8	403.6
7.5°	403.2	404.6	404.5	403.9	403.1	403.0
8°	403.2	404.1	403.9	403.2	402.8	402.3
8.5°	402.3	403.5	403.2	402.7	401.9	401.6
9°	402.3	402.7	402.4	401.9	401.6	401.2
9.5°	400.8	402.3	402.2	401.5	400.7	400.4
10°	400.8	401.4	400.9	400.4	400.2	399.5
10.5°	399.5	400.7	400.6	399.9	399.1	398.8
11°	399.2	399.7	399.4	399.0	398.6	397.8
11.5°	398.4	399.1	398.8	398.3	397.4	397.0
12°	397.8	398.1	397.8	397.0	397.0	396.0
12.5°	396.6	397.3	397.0	396.6	395.6	395.3
13°	396.0	396.2	396.0	395.4	395.0	394.3
13.5°	394.6	395.5	394.9	394.6	393.7	393.2
14°	393.9	394.1	393.9	393.3	393.2	392.1
14.5°	392.7	393.3	393.0	392.4	391.7	391.2
15°	391.8	392.2	391.9	391.2	390.7	389.8
15.5°	390.2	391.1	391.1	390.0	389.4	388.7
16°	389.9	389.8	389.4	389.0	388.3	387.5
16.5°	388.0	388.8	388.7	387.6	387.0	386.2
17°	387.3	387.4	387.0	386.6	385.9	385.1
17.5°	385.7	386.2	386.2	385.1	384.4	383.5
18°	384.7	384.8	384.5	384.1	383.3	382.7
18.5°	383.1	383.6	383.6	382.6	381.6	380.9
19°	382.1	382.0	381.9	381.2	380.7	379.8
19.5°	380.2	380.8	380.9	379.8	378.8	378.1
20°	379.2	379.2	379.1	378.6	377.7	376.8
20.5°	377.6	377.9	378.0	376.9	375.9	375.2
21°	376.5	376.2	376.1	375.7	374.8	373.9



TEST NUMBER: P938612

CATALOG NUMBER: SMX4RLSFSD2W-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	371.7	371.8	371.5	370.7	369.7	368.8
23°	369.9	369.8	369.7	369.2	368.6	367.2
23.5°	368.3	368.4	368.1	367.3	366.3	365.1
24°	366.8	366.5	366.4	365.8	364.8	364.0
24.5°	364.7	364.8	364.7	364.0	362.7	361.6
25°	363.2	363.0	362.8	362.3	361.5	360.4
25.5°	361.4	361.1	361.3	360.4	359.1	358.2
26°	359.6	359.4	359.3	358.6	357.5	356.9
26.5°	357.8	357.6	357.4	356.8	355.5	354.5
27°	355.9	355.5	355.5	354.9	353.9	353.0
27.5°	354.2	353.8	353.9	352.8	351.4	350.8
28°	352.1	351.6	351.8	351.0	350.3	348.9
28.5°	350.1	349.7	349.8	348.8	347.7	346.8
29°	348.3	347.8	347.6	347.1	346.2	345.0
29.5°	346.1	345.8	345.8	344.9	343.8	342.6
30°	344.3	343.6	343.7	343.0	341.9	340.8
30.5°	341.9	341.5	341.7	340.7	339.5	338.5
31°	340.2	339.5	339.4	338.8	337.8	336.5
31.5°	337.9	337.4	337.4	336.3	335.3	334.3
32°	335.7	335.0	335.0	334.6	333.5	332.1
32.5°	333.6	333.0	333.1	332.2	331.0	329.8
33°	331.5	330.6	330.8	330.3	329.0	327.5
33.5°	329.1	328.5	328.5	327.6	326.6	325.3
34°	326.9	326.3	326.1	325.6	324.4	323.1
34.5°	324.7	323.9	324.1	323.0	321.9	320.7
35°	322.3	321.5	321.5	321.1	319.9	318.3
35.5°	319.8	319.1	319.4	318.5	316.9	316.0
36°	317.7	316.9	316.7	316.1	315.1	313.5
36.5°	315.2	314.3	314.6	313.6	312.4	311.2
37°	313.1	312.0	311.9	311.5	310.1	308.7
37.5°	310.4	309.5	309.7	308.8	307.5	306.2
38°	308.0	306.9	307.2	306.4	305.1	303.6
38.5°	305.6	304.5	304.6	303.8	302.5	301.5
39°	303.3	302.0	302.1	301.4	300.3	298.7
39.5°	300.5	299.5	299.6	298.8	297.2	296.4
40°	297.9	296.7	296.9	296.4	295.0	293.3
40.5°	295.6	294.3	294.3	293.7	292.2	291.0
41°	292.9	291.7	291.8	291.0	289.9	288.3
41.5°	290.3	289.0	289.2	288.4	287.1	285.8
42°	287.7	286.5	286.5	285.9	284.5	283.1
42.5°	285.1	283.7	283.8	283.1	281.6	280.4
43°	282.4	281.0	281.2	280.4	279.1	277.6
43.5°	279.7	278.3	278.3	277.7	276.4	275.0



TEST NUMBER: P938612

CATALOG NUMBER: SMX4RLSFS2W-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	271.6	269.8	270.1	269.4	268.2	266.6
45.5°	268.5	267.4	267.3	266.5	265.2	263.6
46°	266.0	264.4	264.5	264.0	262.6	261.1
46.5°	262.9	261.6	261.7	260.9	259.5	258.0
47°	260.4	258.7	258.8	257.9	256.7	255.1
47.5°	257.4	256.0	256.0	255.2	253.9	252.1
48°	254.6	252.9	252.9	252.4	251.2	249.3
48.5°	251.6	250.1	250.2	249.3	248.1	246.3
49°	248.7	247.3	247.1	246.5	245.2	243.5
49.5°	245.9	244.2	244.4	243.5	242.0	240.4
50°	242.9	241.1	241.2	240.7	239.1	237.5
50.5°	239.8	238.2	238.5	237.5	236.1	234.5
51°	237.0	235.3	235.2	234.6	233.1	231.4
51.5°	233.9	232.1	232.3	231.6	230.0	228.4
52°	231.0	229.2	229.2	228.7	227.3	225.3
52.5°	227.9	226.0	226.2	225.3	224.0	222.4
53°	224.7	223.0	223.0	222.6	220.9	219.2
53.5°	221.8	219.9	220.0	219.2	217.8	216.2
54°	218.7	216.7	216.8	216.2	214.7	213.0
54.5°	215.4	213.6	213.7	213.0	211.5	209.8
55°	212.6	210.6	210.7	210.0	208.5	206.7
55.5°	209.2	207.3	207.3	206.7	205.1	203.5
56°	206.4	204.3	204.3	203.6	202.1	200.3
56.5°	203.0	200.9	201.1	200.3	199.0	197.1
57°	200.0	197.8	197.9	197.2	195.7	193.9
57.5°	196.6	194.6	194.5	193.8	192.3	190.7
58°	193.5	191.4	191.4	190.7	189.2	187.4
58.5°	190.2	188.2	188.0	187.4	186.0	184.2
59°	187.0	184.8	185.0	184.2	182.5	180.9
59.5°	183.7	181.6	181.5	180.8	179.4	177.5
60°	180.5	178.3	178.3	177.6	176.1	174.2
60.5°	177.1	175.0	174.9	174.2	172.7	171.0
61°	174.0	171.6	171.6	170.9	169.4	167.5
61.5°	170.5	168.3	168.3	167.5	166.0	164.2
62°	167.3	165.1	165.1	164.4	162.7	161.0
62.5°	163.7	161.7	161.7	160.8	159.3	157.4
63°	160.6	158.3	158.2	157.5	155.9	154.2
63.5°	157.1	154.9	154.9	154.0	152.5	150.5
64°	153.8	151.6	151.4	150.8	149.1	147.2
64.5°	150.5	148.1	148.1	147.1	145.7	143.7
65°	147.0	144.8	144.6	143.8	142.3	140.4
65.5°	143.5	141.2	141.1	140.3	138.9	136.8
66°	140.1	137.8	137.6	137.0	135.4	133.4



TEST NUMBER: P938612

CATALOG NUMBER: SMX4RLSFSD2W-1000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	129.8	127.4	127.3	126.6	124.9	123.0
68°	126.5	123.9	123.7	123.1	121.4	119.5
68.5°	123.0	120.5	120.3	119.6	118.0	116.0
69°	119.5	117.0	116.7	116.1	114.5	112.6
69.5°	115.9	113.5	113.4	112.5	110.9	109.0
70°	112.5	110.0	109.8	109.1	107.4	105.5
70.5°	109.3	106.4	106.3	105.5	104.0	102.0
71°	105.6	103.0	102.8	102.0	100.5	98.5
71.5°	102.1	99.6	99.3	98.5	97.0	95.0
72°	98.7	96.0	95.8	95.0	93.5	91.4
72.5°	95.2	92.5	92.4	91.5	90.0	88.1
73°	91.6	89.1	88.8	88.1	86.5	84.5
73.5°	88.2	85.6	85.3	84.6	83.0	81.1
74°	84.9	82.1	81.8	81.1	79.4	77.5
74.5°	81.4	78.7	78.5	77.6	76.1	74.2
75°	78.0	75.3	75.0	74.2	72.6	70.7
75.5°	74.5	71.8	71.6	70.8	69.2	67.3
76°	71.1	68.5	68.1	67.3	65.7	63.9
76.5°	67.7	65.0	64.7	63.9	62.4	60.5
77°	64.4	61.7	61.3	60.5	59.1	57.2
77.5°	61.0	58.3	58.1	57.3	55.8	53.9
78°	57.6	55.0	54.7	54.0	52.5	50.7
78.5°	54.3	51.7	51.4	50.6	49.2	47.4
79°	51.1	48.6	48.2	47.5	46.0	44.2
79.5°	47.9	45.3	45.0	44.2	42.9	41.1
80°	44.7	42.1	41.9	41.2	39.7	38.0
80.5°	41.6	39.0	38.8	38.1	36.8	35.1
81°	38.5	36.1	35.8	35.1	33.8	32.3
81.5°	35.5	33.3	33.0	32.3	31.0	29.6
82°	32.6	30.5	30.3	29.6	28.2	26.8
82.5°	29.7	27.7	27.4	26.8	25.4	24.0
83°	26.9	24.9	24.6	24.0	22.6	21.2
83.5°	24.2	22.1	21.9	21.2	20.1	18.7
84°	21.6	19.7	19.4	18.8	17.6	16.5
84.5°	19.1	17.2	17.0	16.4	15.4	14.2
85°	16.7	14.8	14.6	14.2	13.2	12.0
85.5°	14.4	12.7	12.5	12.0	11.2	10.1
86°	12.3	10.8	10.6	10.1	9.3	8.3
86.5°	10.7	8.8	8.6	8.3	7.6	6.7
87°	9.0	7.2	7.1	6.7	6.0	5.3
87.5°	7.4	5.6	5.6	5.3	4.8	4.1
88°	5.7	4.4	4.3	4.1	3.6	3.5
88.5°	4.2	3.3	3.2	3.6	3.1	2.9



TEST NUMBER: P938612  
CATALOG NUMBER: SMX4RLSFSD2W-1000LM-3000K

**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



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— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°

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21.5°	371.9	370.8	369.7	368.2	371.2	370.8	370.5	371.1	372.1	373.2	373.8
22°	370.6	369.4	367.5	366.7	369.2	369.3	368.9	369.7	370.2	371.2	372.6



44°	272.1	270.0	267.6	265.9	269.2	269.2	269.4	270.3	271.8	273.8	275.6
44.5°	269.2	267.3	265.0	263.4	266.4	266.4	266.4	267.5	269.1	271.0	272.9



66.5°	129.8	127.3	124.9	123.4	126.6	126.8	127.6	129.0	130.9	133.1	135.3
67°	126.6	124.0	121.5	120.0	123.3	123.4	124.1	125.6	127.4	129.7	132.0



89°	2.3	1.6	1.1	1.1	1.0	1.1	1.4	1.6	1.9	2.4	2.8
89.5°	1.7	1.2	0.9	0.9	0.8	0.9	1.0	1.3	1.6	1.8	2.1



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21.5°	374.5	374.7	374.6	373.7	373.0	371.9
22°	373.3	373.1	373.0	372.4	371.5	370.6



44°	277.0	275.4	275.7	274.8	273.9	272.1
44.5°	274.1	272.9	272.9	272.2	270.6	269.2



66.5°	136.7	134.3	134.4	133.3	132.0	129.8
67°	133.2	130.9	130.6	130.0	128.4	126.6



89°	3.1	2.8	2.7	3.0	2.5	2.3
89.5°	2.3	2.2	2.2	2.4	1.9	1.7

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Scaled Data Report



(END OF REPORT)