

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: P938614

Luminaire Tested: SMX4RLSFSD2W-1000LM-4000K

Issue Date: 1/9/2025



Test Information

Test Method: LM-79-2019

Report Number: P938614

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-4000K

Description: 4IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION

Light Source: SELECTABLE CCT 90CRI / 4000K CCT

Ballast/Driver: -

Summary

Lumens per Lamp: N/A

Luminaire Lumens: 1130.0 lumens

Efficiency: N/A

Efficacy: 98.3 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

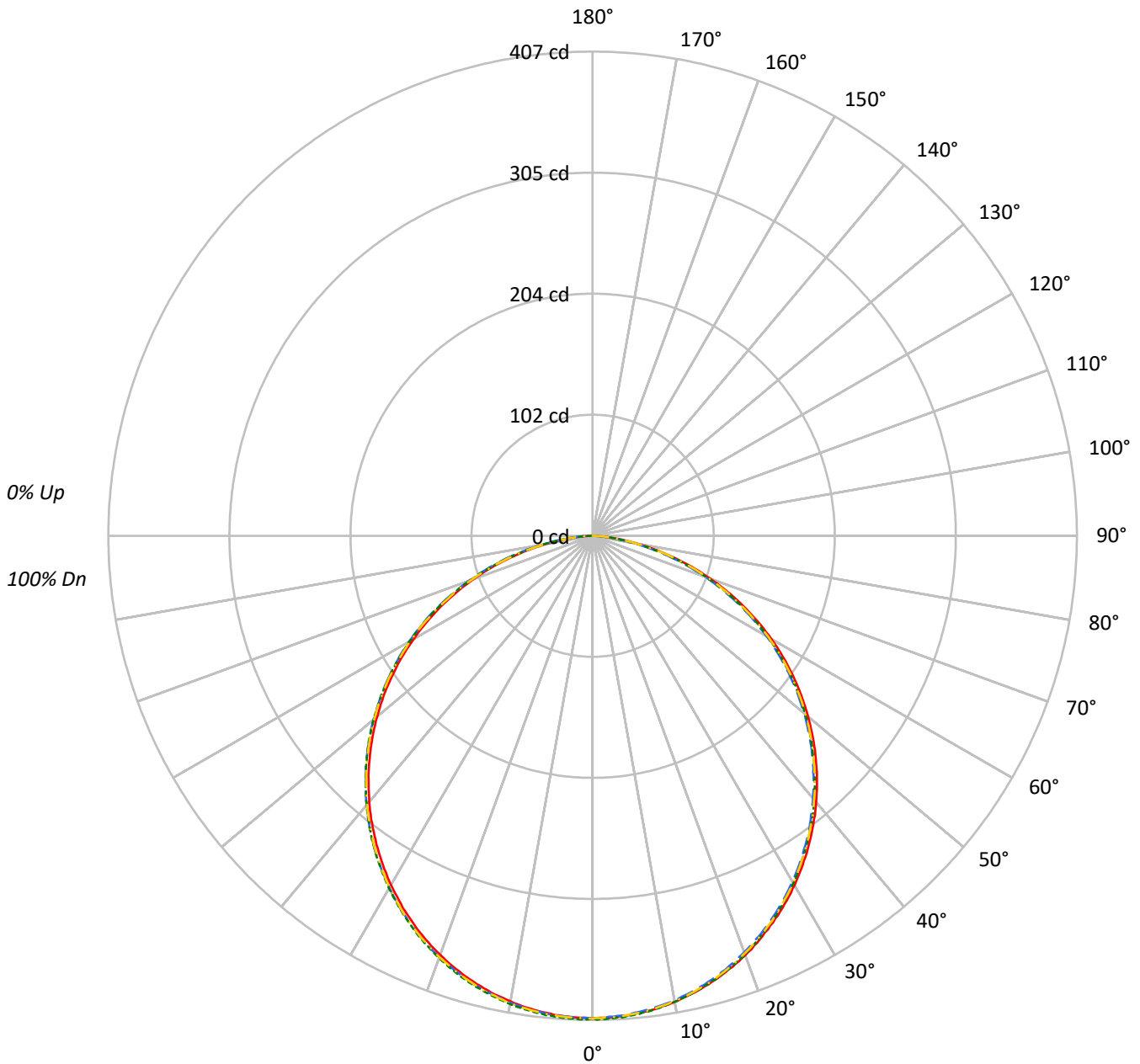
Operation Time: NR

Ambient Temperature (°C): NR

Test Distance: 24 FT

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CATALOG NUMBER: SMX4RLSFS2W-1000LM-4000K

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	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°	51070	51070	51070	51070
5°	50987	51050	50962	51151
10°	50835	50848	50784	51065
15°	50565	50461	50539	50865
20°	50249	50115	50196	50557
25°	49823	49573	49753	50184
30°	49307	49016	49263	49714
35°	48687	48333	48687	49178
40°	47988	47577	47988	48530
45°	47235	46684	47182	47805
50°	46284	45658	46284	46989
55°	45133	44409	45155	46011
60°	43645	42789	43745	44702
65°	41630	40618	41898	42911
70°	38636	37495	39114	40292
75°	34232	32919	35010	36420
80°	27395	25728	28845	30367
85°	17328	15162	19060	21371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 247.5°
 Vertical Angle: 45°
 Luminance: 48125 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	3.4
10°-20°	109.5	9.7
20°-30°	165.2	14.6
30°-40°	198.2	17.5
40°-50°	204.5	18.1
50°-60°	183.8	16.3
60°-70°	138.4	12.2
70°-80°	75.4	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°	313.1	27.7
0°-40°	511.3	45.2
0°-60°	899.7	79.6
0°-90°	1130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1130.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	406	406	406	406	406	
5°	404	404	403	405	404	38
15°	388	387	388	390	388	110
25°	359	357	358	361	359	165
35°	317	315	317	320	317	198
45°	265	262	265	269	265	205
55°	206	202	206	210	206	184
65°	140	136	141	144	140	138
75°	70	68	72	75	70	75
85°	12	10	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°	405.8	405.8	405.8	405.8	405.8	405.8	405.8	405.8	405.8	405.8	405.8
0.5°	405.5	405.4	405.5	404.8	406.7	406.4	405.5	405.4	405.4	405.3	405.4
1°	405.3	405.3	404.9	405.0	406.3	406.1	405.6	405.6	405.3	405.8	405.2
1.5°	405.2	405.1	405.1	404.5	406.4	406.1	405.1	405.1	405.4	405.3	405.2
2°	405.2	405.1	404.5	404.5	406.1	405.9	405.2	405.4	405.1	405.1	405.3
2.5°	405.1	404.8	404.6	404.1	405.9	405.4	405.0	405.0	404.9	405.0	405.0
3°	404.7	404.6	404.1	404.0	405.3	405.4	404.8	405.1	404.8	404.8	404.8
3.5°	404.5	404.2	404.0	403.4	405.6	405.2	404.5	404.3	404.5	404.6	404.6
4°	404.3	404.1	403.4	403.3	404.9	404.6	404.0	404.4	404.1	404.5	404.5
4.5°	404.1	403.5	403.2	402.8	404.5	404.5	403.6	403.7	404.1	404.3	404.2
5°	403.6	403.3	402.7	402.4	404.1	403.8	403.4	403.7	403.4	404.0	403.8
5.5°	403.0	402.8	402.3	401.7	404.0	403.7	403.0	402.7	403.0	403.7	403.9
6°	402.7	402.2	401.8	401.4	403.1	402.8	402.4	402.7	402.7	402.8	403.1
6.5°	402.3	401.8	401.2	400.8	402.7	402.5	402.0	401.6	402.1	402.6	402.6
7°	401.8	401.3	400.9	400.1	402.3	401.7	401.3	401.8	401.6	401.8	402.4
7.5°	401.3	400.7	400.0	399.4	401.3	401.4	401.0	400.7	401.0	401.6	401.9
8°	400.5	400.1	399.4	398.8	400.9	400.5	400.1	400.5	400.4	400.6	401.1
8.5°	399.8	399.3	398.6	397.9	400.2	400.0	399.4	399.3	399.7	400.2	400.8
9°	399.4	398.6	398.0	397.3	399.2	399.1	398.7	399.0	399.0	399.4	400.0
9.5°	398.6	397.8	397.4	396.4	398.5	398.5	398.0	397.9	398.4	398.8	399.3
10°	397.8	397.1	396.3	395.8	397.9	397.6	397.4	397.6	397.4	398.1	398.6
10.5°	397.0	396.5	395.6	394.7	397.2	396.6	396.3	396.6	396.7	397.4	397.7
11°	396.0	395.4	394.6	394.4	396.0	395.8	395.6	395.8	395.7	396.6	396.9
11.5°	395.3	394.8	393.9	392.9	395.1	394.8	394.7	394.8	395.0	395.7	396.0
12°	394.3	393.6	392.8	392.0	394.2	394.0	393.5	394.0	394.3	394.8	395.6
12.5°	393.5	392.6	391.9	390.9	393.2	393.1	392.8	392.6	393.4	393.9	394.3
13°	392.6	391.9	390.5	390.0	392.2	392.1	391.6	392.1	392.2	392.9	393.5
13.5°	391.5	390.6	389.7	388.8	391.4	390.7	390.6	390.8	391.4	391.8	392.7
14°	390.3	389.6	388.9	387.7	389.9	390.1	389.5	390.0	390.1	390.8	391.6
14.5°	389.5	388.4	387.3	386.4	389.1	388.5	388.5	388.6	389.2	390.0	390.6
15°	388.1	387.3	386.3	385.3	387.3	387.7	387.2	387.7	387.9	388.6	389.4
15.5°	387.0	386.0	385.0	384.2	387.1	386.3	386.1	386.1	386.8	387.5	388.4
16°	385.8	384.9	384.0	382.7	385.1	385.1	384.8	385.2	385.6	386.5	387.1
16.5°	384.5	383.7	382.4	381.6	384.3	383.7	383.5	383.8	384.5	385.3	386.1
17°	383.4	382.6	381.6	380.0	382.7	382.7	382.2	382.7	383.0	383.9	384.6
17.5°	381.8	381.0	379.8	378.7	381.7	381.2	380.9	381.2	381.9	382.8	383.6
18°	381.0	379.9	378.5	377.5	380.0	379.9	379.5	380.2	380.5	381.2	382.3
18.5°	379.2	378.4	377.3	375.9	378.8	378.4	378.2	378.4	379.2	380.4	381.0
19°	378.1	377.0	375.4	374.4	377.2	376.8	376.8	377.1	377.8	378.8	379.5
19.5°	376.4	375.3	374.2	373.0	375.9	375.7	375.1	375.5	376.2	377.4	378.3
20°	375.2	373.9	372.6	371.5	374.2	373.9	373.6	374.4	374.8	376.0	376.9
20.5°	373.5	372.3	371.1	370.0	372.8	372.6	372.1	372.6	373.3	374.5	375.2
21°	372.3	371.0	369.4	368.3	370.7	370.9	370.6	371.2	371.9	372.9	374.1



TEST NUMBER: P938614

CATALOG NUMBER: SMX4RLSFSD2W-1000LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	367.2	365.9	364.6	363.4	366.2	366.1	365.6	366.2	367.3	368.2	369.2
23°	365.6	364.4	363.0	361.7	364.3	364.1	364.0	364.8	365.3	366.3	367.7
23.5°	363.5	362.5	361.0	360.1	362.6	362.6	362.2	362.7	363.8	364.9	366.0
24°	362.4	360.9	359.3	358.1	360.9	360.7	360.3	361.1	362.1	363.1	364.3
24.5°	360.0	359.1	357.3	356.3	359.2	358.8	358.7	359.2	360.3	361.3	362.4
25°	358.8	357.4	355.7	354.3	357.0	357.1	357.0	357.6	358.3	359.4	360.7
25.5°	356.6	355.4	353.8	352.6	355.3	355.1	354.9	355.4	356.5	357.8	359.2
26°	355.3	353.5	352.0	350.6	353.6	353.2	353.2	353.7	354.8	356.1	357.2
26.5°	353.0	351.5	350.0	348.7	351.3	351.4	351.1	351.9	352.8	354.0	355.4
27°	351.4	349.8	348.0	346.8	349.7	349.6	349.4	350.1	351.2	352.3	353.7
27.5°	349.2	347.7	346.2	344.8	347.7	347.5	347.1	348.0	348.9	350.1	351.6
28°	347.4	345.8	344.1	342.7	345.6	345.4	345.3	346.0	346.9	348.4	349.8
28.5°	345.3	343.6	342.0	340.6	343.5	343.3	343.2	343.8	344.9	346.3	347.8
29°	343.5	341.6	339.9	338.6	341.4	341.4	341.1	342.1	343.2	344.3	345.9
29.5°	341.1	339.7	337.8	336.4	339.5	339.2	339.2	339.8	340.9	342.5	343.6
30°	339.3	337.6	335.9	334.4	337.3	337.1	336.9	338.0	339.0	340.2	342.0
30.5°	337.0	335.4	333.5	332.1	335.2	335.1	334.9	335.5	336.8	338.1	339.6
31°	335.0	333.4	331.5	330.2	332.9	332.9	332.5	333.6	334.8	336.3	337.5
31.5°	332.8	331.0	329.3	327.9	331.0	330.7	330.5	331.4	332.2	333.9	335.3
32°	330.7	328.8	327.0	325.7	328.5	328.5	328.3	329.2	330.3	331.9	333.3
32.5°	328.4	326.6	324.7	323.4	326.1	326.1	326.0	326.7	328.0	329.5	331.2
33°	326.0	324.5	322.7	321.0	323.9	323.8	323.8	324.8	325.9	327.3	328.9
33.5°	323.9	321.9	320.2	318.6	321.7	321.6	321.7	322.2	323.4	325.2	326.9
34°	321.7	319.9	317.8	316.3	319.3	319.3	319.3	320.1	321.4	322.8	324.4
34.5°	319.3	317.3	315.7	314.1	317.1	317.1	316.9	317.5	318.8	320.7	322.4
35°	316.9	315.2	313.2	311.6	314.6	314.5	314.4	315.5	316.9	318.2	319.8
35.5°	314.6	312.7	310.9	309.3	312.3	312.1	312.1	312.9	314.0	315.8	317.7
36°	312.1	310.4	308.4	306.7	309.9	309.5	309.7	310.9	312.0	313.6	314.9
36.5°	309.8	307.9	306.2	304.3	307.5	307.3	307.3	308.0	309.4	311.4	313.0
37°	307.3	305.6	303.4	301.9	304.8	304.6	304.8	305.8	307.1	308.5	310.3
37.5°	304.9	302.8	301.0	299.4	302.7	302.3	302.4	303.2	304.4	306.4	308.2
38°	302.3	300.5	298.2	296.9	299.8	299.7	299.9	300.8	302.3	303.7	305.4
38.5°	300.2	297.8	296.0	294.2	297.6	297.2	297.4	298.1	299.5	301.4	303.3
39°	297.4	295.4	293.2	292.0	294.8	294.7	294.9	295.8	297.3	298.8	300.6
39.5°	295.0	292.7	290.8	289.1	292.2	292.2	292.2	292.9	294.6	296.4	298.0
40°	292.1	290.1	288.1	286.5	289.6	289.4	289.5	290.6	292.1	293.8	295.5
40.5°	289.7	287.5	285.4	283.8	287.0	286.8	287.0	288.0	289.3	291.2	293.0
41°	287.0	285.1	282.9	281.2	284.3	284.2	284.5	285.4	286.6	288.6	290.4
41.5°	284.5	282.2	280.3	278.5	281.7	281.5	281.8	282.7	284.1	286.0	287.6
42°	281.8	279.9	277.5	276.0	279.0	278.8	279.0	279.8	281.4	283.3	285.0
42.5°	279.1	276.9	274.9	273.1	276.3	276.1	276.4	277.3	278.7	280.7	282.6
43°	276.4	274.2	271.9	270.4	273.5	273.4	273.6	274.8	276.3	277.9	279.8
43.5°	273.8	271.5	269.7	267.7	270.6	270.7	271.0	271.9	273.5	275.2	277.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	265.4	263.2	260.9	259.2	262.3	262.4	262.7	263.5	265.1	267.2	268.9
45.5°	262.4	260.3	258.3	256.6	259.4	259.5	259.9	260.9	262.5	264.3	266.2
46°	259.9	257.6	255.4	253.6	256.6	256.7	256.8	257.9	259.5	261.5	263.3
46.5°	256.8	254.7	252.4	250.8	253.7	253.7	254.1	255.1	256.7	258.7	260.7
47°	254.0	251.8	249.5	247.8	250.9	250.8	251.1	252.2	253.8	256.0	257.8
47.5°	251.0	248.9	246.7	244.8	247.9	247.9	248.4	249.4	251.2	253.1	254.9
48°	248.2	246.1	243.8	241.9	245.1	245.1	245.4	246.6	248.2	250.0	252.2
48.5°	245.2	243.1	240.8	239.0	242.2	242.2	242.6	243.5	245.3	247.4	249.1
49°	242.4	240.2	237.7	236.0	239.1	239.1	239.5	240.6	242.3	244.4	246.4
49.5°	239.3	237.1	235.0	233.3	236.3	236.3	236.6	237.7	239.4	241.4	243.3
50°	236.4	234.3	231.9	229.9	233.2	233.1	233.5	234.7	236.4	238.4	240.5
50.5°	233.5	231.0	228.9	227.1	230.3	230.3	230.7	231.8	233.5	235.5	237.4
51°	230.4	228.2	225.8	224.1	227.3	227.2	227.7	228.7	230.4	232.6	234.5
51.5°	227.4	225.1	222.8	221.1	224.2	224.2	224.7	225.7	227.6	229.6	231.4
52°	224.3	222.2	219.6	217.7	221.2	221.0	221.6	222.6	224.3	226.6	228.4
52.5°	221.4	219.0	216.7	215.0	218.0	218.2	218.6	219.6	221.5	223.4	225.4
53°	218.2	216.0	213.6	211.8	214.9	215.0	215.5	216.6	218.3	220.3	222.4
53.5°	215.2	212.7	210.5	208.7	211.9	212.0	212.3	213.5	215.3	217.4	219.4
54°	212.0	209.7	207.3	205.5	208.6	208.5	209.3	210.3	212.1	214.2	216.4
54.5°	208.8	206.5	204.1	202.6	205.6	205.6	206.0	207.2	209.1	211.1	213.2
55°	205.7	203.5	201.1	199.3	202.4	202.5	203.0	204.1	205.8	208.1	210.0
55.5°	202.7	200.1	197.7	196.1	199.3	199.3	199.9	201.0	202.7	205.2	207.0
56°	199.4	197.1	194.8	192.9	196.0	196.0	196.7	197.7	199.6	201.7	203.9
56.5°	196.2	193.8	191.4	189.6	192.9	192.9	193.4	194.6	196.6	198.8	200.8
57°	193.1	190.6	188.3	186.5	189.7	189.6	190.3	191.4	193.3	195.4	197.4
57.5°	189.8	187.4	184.9	183.2	186.3	186.6	187.0	188.2	190.2	192.4	194.3
58°	186.5	184.2	181.8	180.0	183.1	183.2	183.8	185.0	186.7	189.0	191.2
58.5°	183.3	180.8	178.3	176.8	180.0	180.0	180.5	181.8	183.6	186.0	188.0
59°	180.1	177.6	175.2	173.3	176.6	176.8	177.3	178.4	180.4	182.6	184.8
59.5°	176.7	174.3	172.0	170.2	173.3	173.4	174.0	175.2	177.1	179.5	181.3
60°	173.4	171.0	168.6	166.8	170.0	170.0	170.8	172.0	173.8	176.1	178.2
60.5°	170.2	167.7	165.3	163.6	166.7	166.7	167.5	168.8	170.6	172.8	174.8
61°	166.7	164.3	161.8	160.2	163.4	163.5	164.1	165.4	167.3	169.5	171.7
61.5°	163.5	161.0	158.6	156.9	160.1	160.3	160.9	162.2	163.9	166.4	168.3
62°	160.3	157.7	155.2	153.5	156.6	156.9	157.5	158.8	160.7	163.0	165.0
62.5°	156.7	154.3	151.8	150.1	153.4	153.4	154.2	155.4	157.4	159.7	161.7
63°	153.5	150.8	148.5	146.8	149.9	150.0	150.7	152.0	154.1	156.2	158.3
63.5°	149.8	147.4	145.0	143.4	146.5	146.7	147.4	148.7	150.6	152.9	155.1
64°	146.6	144.0	141.7	140.0	143.1	143.3	144.0	145.3	147.3	149.6	151.7
64.5°	143.1	140.6	138.3	136.5	139.8	140.0	140.6	141.9	144.0	146.3	148.3
65°	139.8	137.3	135.0	133.1	136.4	136.5	137.3	138.6	140.7	142.9	145.0
65.5°	136.2	133.8	131.4	129.7	132.8	133.0	133.9	135.2	137.1	139.4	141.5
66°	132.8	130.2	128.0	126.3	129.5	129.7	130.3	131.8	133.8	136.0	138.2



TEST NUMBER: P938614
 CATALOG NUMBER: SMX4RLSFS2W-1000LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	122.4	119.9	117.6	116.0	119.2	119.4	120.2	121.6	123.5	125.8	127.8
68°	118.9	116.4	114.2	112.5	115.9	115.9	116.6	118.2	120.1	122.4	124.5
68.5°	115.5	113.0	110.7	109.1	112.2	112.5	113.3	114.7	116.6	118.9	121.0
69°	112.1	109.5	107.2	105.6	108.8	109.1	109.9	111.2	113.2	115.5	117.6
69.5°	108.5	106.0	103.8	102.1	105.3	105.5	106.4	107.8	109.7	112.0	114.0
70°	105.0	102.5	100.2	98.7	101.9	102.1	102.9	104.4	106.3	108.5	110.7
70.5°	101.6	99.1	96.8	95.2	98.4	98.7	99.5	101.0	102.9	105.2	107.2
71°	98.1	95.7	93.4	91.8	94.9	95.3	96.2	97.5	99.4	101.8	103.8
71.5°	94.6	92.0	90.0	88.3	91.5	91.8	92.7	94.0	96.0	98.3	100.3
72°	91.0	88.7	86.5	85.0	88.1	88.3	89.2	90.8	92.6	94.8	96.8
72.5°	87.7	85.2	83.0	81.4	84.8	85.0	85.8	87.3	89.1	91.3	93.5
73°	84.1	81.7	79.6	78.1	81.3	81.6	82.4	83.9	85.7	88.0	90.0
73.5°	80.7	78.2	76.2	74.6	77.9	78.2	79.0	80.4	82.3	84.6	86.6
74°	77.1	74.9	72.7	71.3	74.5	74.8	75.5	77.0	78.9	81.2	83.2
74.5°	73.9	71.4	69.3	68.0	71.2	71.3	72.1	73.7	75.5	77.8	79.8
75°	70.4	68.2	66.0	64.6	67.7	68.1	68.8	70.3	72.0	74.4	76.4
75.5°	67.0	64.6	62.7	61.2	64.3	64.7	65.6	67.0	68.7	71.1	73.0
76°	63.6	61.4	59.2	57.8	61.0	61.3	62.2	63.6	65.5	67.6	69.6
76.5°	60.2	58.0	55.9	54.5	57.6	58.0	58.8	60.2	62.1	64.3	66.2
77°	57.0	54.7	52.7	51.4	54.4	54.7	55.6	57.0	58.8	61.0	62.9
77.5°	53.7	51.6	49.5	48.2	51.2	51.6	52.4	53.8	55.5	57.6	59.7
78°	50.5	48.3	46.3	45.0	48.0	48.3	49.1	50.5	52.3	54.4	56.3
78.5°	47.2	45.1	43.3	41.9	44.7	45.1	45.9	47.3	49.1	51.2	53.0
79°	44.0	42.0	40.1	38.8	41.7	42.0	42.8	44.2	46.0	48.0	49.7
79.5°	40.9	38.9	37.0	35.8	38.6	38.9	39.9	41.1	42.8	44.8	46.6
80°	37.8	35.8	33.9	33.0	35.5	35.8	36.7	38.1	39.8	41.7	43.4
80.5°	35.0	33.0	31.2	30.2	32.6	32.9	33.8	35.1	36.8	38.7	40.5
81°	32.2	30.3	28.5	27.5	29.7	30.1	30.9	32.2	33.8	35.7	37.4
81.5°	29.4	27.5	25.9	24.7	26.9	27.3	28.1	29.4	30.9	32.7	34.4
82°	26.6	24.8	23.2	21.9	24.2	24.5	25.3	26.6	28.1	29.8	31.4
82.5°	23.8	22.1	20.5	19.5	21.6	21.9	22.7	23.9	25.4	27.1	28.6
83°	21.1	19.5	18.0	17.0	19.1	19.4	20.1	21.3	22.7	24.3	25.9
83.5°	18.6	17.1	15.6	14.7	16.7	17.0	17.8	18.8	20.2	21.8	23.3
84°	16.4	14.8	13.4	12.6	14.4	14.7	15.4	16.5	17.8	19.3	20.7
84.5°	14.1	12.6	11.4	10.6	12.3	12.6	13.2	14.3	15.4	16.9	18.2
85°	12.0	10.6	9.5	8.7	10.5	10.8	11.5	12.1	13.2	14.6	15.8
85.5°	10.0	8.8	7.7	7.0	8.9	9.2	9.8	10.5	11.6	12.6	13.6
86°	8.3	7.1	6.2	5.5	7.2	7.5	8.0	8.9	10.0	10.8	11.6
86.5°	6.7	5.6	4.7	4.2	5.6	5.8	6.3	7.2	8.4	9.2	10.0
87°	5.3	4.3	3.6	3.1	4.0	4.2	4.5	5.6	6.8	7.5	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	1.5	2.0	2.1	2.5	3.0	3.6	4.2	5.3
88.5°	2.9	2.2	1.6	1.4	1.4	1.5	1.8	2.2	2.6	3.2	3.8



TEST NUMBER: P938614
CATALOG NUMBER: SMX4RLSFS2W-1000LM-4000K

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: P938614

CATALOG NUMBER: SMX4RLSFS2W-1000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	405.8	405.8	405.8	405.8	405.8	405.8
0.5°	404.9	406.5	406.5	405.9	405.3	405.5
1°	405.3	406.8	406.5	405.8	406.0	405.3
1.5°	404.9	406.6	406.3	405.5	405.2	405.2
2°	404.9	406.3	406.2	405.9	405.8	405.2
2.5°	405.1	406.3	406.4	405.4	405.0	405.1
3°	404.7	406.2	405.9	405.3	405.3	404.7
3.5°	404.4	406.0	406.0	405.0	404.6	404.5
4°	404.4	405.7	405.2	404.8	404.9	404.3
4.5°	404.1	405.6	405.2	404.3	404.0	404.1
5°	403.8	404.9	404.7	404.1	404.1	403.6
5.5°	403.4	404.9	404.6	403.9	403.2	403.0
6°	403.4	404.3	403.9	403.5	403.3	402.7
6.5°	402.6	403.8	403.7	402.9	402.4	402.3
7°	402.5	403.4	402.7	402.5	402.0	401.8
7.5°	401.4	402.8	402.7	402.1	401.3	401.3
8°	401.4	402.3	402.1	401.4	401.1	400.5
8.5°	400.6	401.7	401.4	401.0	400.1	399.8
9°	400.6	401.0	400.7	400.1	399.8	399.4
9.5°	399.0	400.6	400.4	399.7	398.9	398.6
10°	399.0	399.6	399.1	398.6	398.5	397.8
10.5°	397.8	398.9	398.8	398.2	397.4	397.0
11°	397.5	398.0	397.7	397.2	396.8	396.0
11.5°	396.6	397.3	397.0	396.5	395.7	395.3
12°	396.0	396.3	396.0	395.3	395.3	394.3
12.5°	394.9	395.6	395.3	394.9	393.8	393.5
13°	394.3	394.5	394.3	393.6	393.2	392.6
13.5°	392.9	393.7	393.1	392.9	392.0	391.5
14°	392.2	392.4	392.2	391.6	391.5	390.3
14.5°	391.0	391.6	391.3	390.6	390.0	389.5
15°	390.1	390.4	390.1	389.5	389.0	388.1
15.5°	388.5	389.4	389.4	388.3	387.6	387.0
16°	388.2	388.1	387.7	387.3	386.6	385.8
16.5°	386.3	387.1	387.0	385.9	385.3	384.5
17°	385.6	385.7	385.3	384.9	384.2	383.4
17.5°	384.0	384.5	384.5	383.4	382.7	381.8
18°	383.0	383.1	382.8	382.4	381.7	381.0
18.5°	381.5	381.9	381.9	380.9	379.9	379.2
19°	380.4	380.3	380.2	379.5	379.0	378.1
19.5°	378.6	379.1	379.2	378.1	377.1	376.4
20°	377.5	377.5	377.4	376.9	376.1	375.2
20.5°	376.0	376.2	376.3	375.3	374.2	373.5
21°	374.8	374.5	374.4	374.0	373.2	372.3

TEST NUMBER: P938614

CATALOG NUMBER: SMX4RLSFS2W-1000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	370.1	370.2	369.9	369.1	368.0	367.2
23°	368.2	368.1	368.0	367.6	367.0	365.6
23.5°	366.7	366.8	366.5	365.7	364.7	363.5
24°	365.1	364.9	364.8	364.2	363.2	362.4
24.5°	363.1	363.2	363.1	362.4	361.1	360.0
25°	361.6	361.4	361.2	360.7	359.9	358.8
25.5°	359.8	359.5	359.7	358.8	357.5	356.6
26°	358.0	357.8	357.7	357.0	356.0	355.3
26.5°	356.3	356.1	355.9	355.2	353.9	353.0
27°	354.3	353.9	353.9	353.4	352.3	351.4
27.5°	352.6	352.2	352.3	351.2	349.9	349.2
28°	350.6	350.1	350.3	349.4	348.7	347.4
28.5°	348.5	348.1	348.2	347.3	346.1	345.3
29°	346.8	346.2	346.0	345.5	344.7	343.5
29.5°	344.6	344.3	344.3	343.4	342.3	341.1
30°	342.7	342.1	342.2	341.5	340.4	339.3
30.5°	340.4	340.0	340.2	339.2	338.0	337.0
31°	338.7	338.0	337.9	337.3	336.3	335.0
31.5°	336.4	335.9	335.9	334.8	333.9	332.8
32°	334.2	333.6	333.5	333.1	332.0	330.7
32.5°	332.1	331.5	331.6	330.8	329.5	328.4
33°	330.0	329.1	329.3	328.8	327.6	326.0
33.5°	327.7	327.1	327.0	326.1	325.2	323.9
34°	325.5	324.9	324.7	324.2	323.0	321.7
34.5°	323.2	322.5	322.7	321.6	320.4	319.3
35°	320.9	320.1	320.1	319.7	318.5	316.9
35.5°	318.4	317.7	318.0	317.1	315.5	314.6
36°	316.3	315.5	315.3	314.7	313.7	312.1
36.5°	313.8	312.9	313.2	312.2	311.0	309.8
37°	311.8	310.6	310.5	310.1	308.8	307.3
37.5°	309.0	308.2	308.4	307.4	306.2	304.9
38°	306.6	305.6	305.9	305.1	303.7	302.3
38.5°	304.2	303.2	303.3	302.5	301.1	300.2
39°	302.0	300.6	300.7	300.1	299.0	297.4
39.5°	299.2	298.1	298.2	297.5	295.9	295.0
40°	296.6	295.4	295.6	295.0	293.7	292.1
40.5°	294.3	293.0	293.0	292.4	290.9	289.7
41°	291.6	290.4	290.5	289.7	288.6	287.0
41.5°	289.1	287.7	287.9	287.1	285.9	284.5
42°	286.5	285.2	285.2	284.6	283.3	281.8
42.5°	283.8	282.4	282.6	281.8	280.4	279.1
43°	281.1	279.8	280.0	279.1	277.9	276.4
43.5°	278.4	277.1	277.1	276.5	275.2	273.8

TEST NUMBER: P938614

CATALOG NUMBER: SMX4RLSFSD2W-1000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	270.4	268.6	268.9	268.2	267.1	265.4
45.5°	267.3	266.2	266.1	265.3	264.1	262.4
46°	264.8	263.3	263.4	262.8	261.5	259.9
46.5°	261.7	260.5	260.6	259.7	258.4	256.8
47°	259.2	257.6	257.7	256.7	255.6	254.0
47.5°	256.2	254.9	254.9	254.1	252.8	251.0
48°	253.4	251.8	251.8	251.3	250.1	248.2
48.5°	250.5	249.0	249.1	248.2	247.0	245.2
49°	247.6	246.2	246.0	245.4	244.1	242.4
49.5°	244.8	243.1	243.3	242.4	241.0	239.3
50°	241.9	240.0	240.1	239.6	238.1	236.4
50.5°	238.8	237.1	237.4	236.4	235.1	233.5
51°	236.0	234.2	234.1	233.5	232.1	230.4
51.5°	232.9	231.0	231.2	230.6	229.0	227.4
52°	230.0	228.1	228.2	227.7	226.3	224.3
52.5°	226.9	225.1	225.2	224.3	223.0	221.4
53°	223.7	222.1	222.1	221.6	219.9	218.2
53.5°	220.8	219.0	219.1	218.2	216.8	215.2
54°	217.7	215.8	215.9	215.2	213.8	212.0
54.5°	214.4	212.7	212.8	212.0	210.6	208.8
55°	211.6	209.7	209.8	209.1	207.6	205.7
55.5°	208.3	206.4	206.4	205.7	204.2	202.7
56°	205.5	203.4	203.4	202.7	201.2	199.4
56.5°	202.1	200.0	200.2	199.5	198.1	196.2
57°	199.1	197.0	197.1	196.4	194.8	193.1
57.5°	195.7	193.8	193.7	192.9	191.5	189.8
58°	192.6	190.6	190.6	189.8	188.4	186.5
58.5°	189.3	187.4	187.2	186.5	185.2	183.3
59°	186.1	184.0	184.2	183.3	181.7	180.1
59.5°	182.9	180.8	180.7	180.0	178.6	176.7
60°	179.7	177.6	177.6	176.8	175.3	173.4
60.5°	176.3	174.3	174.2	173.4	172.0	170.2
61°	173.2	170.9	170.9	170.1	168.7	166.7
61.5°	169.7	167.6	167.6	166.7	165.3	163.5
62°	166.5	164.3	164.3	163.6	162.0	160.3
62.5°	163.0	160.9	160.9	160.1	158.6	156.7
63°	159.9	157.6	157.5	156.8	155.2	153.5
63.5°	156.4	154.2	154.2	153.3	151.9	149.8
64°	153.1	150.9	150.7	150.1	148.5	146.6
64.5°	149.8	147.4	147.4	146.5	145.0	143.1
65°	146.4	144.1	144.0	143.2	141.6	139.8
65.5°	142.9	140.6	140.5	139.7	138.3	136.2
66°	139.5	137.2	137.0	136.4	134.8	132.8



TEST NUMBER: P938614

CATALOG NUMBER: SMX4RLSFS2W-1000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	129.2	126.9	126.8	126.0	124.4	122.4
68°	125.9	123.4	123.2	122.5	120.9	118.9
68.5°	122.4	120.0	119.8	119.0	117.5	115.5
69°	118.9	116.5	116.1	115.6	114.0	112.1
69.5°	115.4	113.0	112.9	112.0	110.5	108.5
70°	112.0	109.5	109.3	108.6	107.0	105.0
70.5°	108.8	105.9	105.8	105.0	103.5	101.6
71°	105.1	102.5	102.3	101.6	100.0	98.1
71.5°	101.7	99.2	98.9	98.1	96.5	94.6
72°	98.3	95.6	95.4	94.6	93.1	91.0
72.5°	94.8	92.1	92.0	91.1	89.6	87.7
73°	91.2	88.7	88.4	87.7	86.1	84.1
73.5°	87.9	85.3	85.0	84.2	82.6	80.7
74°	84.5	81.8	81.5	80.7	79.1	77.1
74.5°	81.0	78.4	78.1	77.2	75.8	73.9
75°	77.6	74.9	74.6	73.9	72.3	70.4
75.5°	74.1	71.4	71.3	70.5	68.9	67.0
76°	70.8	68.2	67.8	67.0	65.5	63.6
76.5°	67.4	64.7	64.4	63.6	62.1	60.2
77°	64.1	61.4	61.0	60.2	58.8	57.0
77.5°	60.7	58.0	57.8	57.1	55.5	53.7
78°	57.3	54.7	54.5	53.8	52.2	50.5
78.5°	54.1	51.5	51.2	50.4	48.9	47.2
79°	50.9	48.4	48.0	47.3	45.8	44.0
79.5°	47.7	45.1	44.8	44.0	42.7	40.9
80°	44.5	41.9	41.7	41.0	39.5	37.8
80.5°	41.4	38.8	38.6	37.9	36.6	35.0
81°	38.3	35.9	35.6	35.0	33.7	32.2
81.5°	35.3	33.1	32.8	32.2	30.9	29.4
82°	32.4	30.4	30.1	29.4	28.1	26.6
82.5°	29.5	27.6	27.3	26.6	25.3	23.8
83°	26.7	24.8	24.5	23.9	22.5	21.1
83.5°	24.1	22.0	21.8	21.1	20.0	18.6
84°	21.5	19.6	19.3	18.7	17.6	16.4
84.5°	19.0	17.1	16.9	16.3	15.4	14.1
85°	16.6	14.8	14.6	14.1	13.1	12.0
85.5°	14.4	12.6	12.5	12.0	11.1	10.0
86°	12.3	10.7	10.5	10.0	9.3	8.3
86.5°	10.6	8.8	8.6	8.3	7.5	6.7
87°	9.0	7.1	7.0	6.7	6.0	5.3
87.5°	7.3	5.6	5.6	5.3	4.7	4.1
88°	5.7	4.3	4.2	4.1	3.6	3.5
88.5°	4.2	3.3	3.2	3.6	3.1	2.9



TEST NUMBER: P938614
CATALOG NUMBER: SMX4RLSFSD2W-1000LM-4000K

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

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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°	370.3	369.2	368.0	366.6	369.6	369.2	368.9	369.5	370.5	371.5	372.2
22°	369.0	367.7	365.9	365.0	367.6	367.7	367.3	368.0	368.5	369.6	370.9



44°	270.9	268.8	266.5	264.7	268.0	268.0	268.2	269.1	270.6	272.6	274.4
44.5°	268.0	266.1	263.9	262.2	265.2	265.2	265.2	266.3	267.9	269.8	271.7



66.5°	129.3	126.8	124.4	122.9	126.1	126.3	127.1	128.4	130.3	132.6	134.7
67°	126.0	123.5	121.0	119.4	122.7	122.8	123.6	125.0	126.9	129.1	131.4



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	1.5	1.8	2.1

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21.5°	372.9	373.1	373.0	372.1	371.3	370.3
22°	371.6	371.4	371.3	370.7	369.9	369.0



44°	275.7	274.2	274.5	273.6	272.6	270.9
44.5°	272.9	271.7	271.7	271.0	269.4	268.0



66.5°	136.1	133.7	133.8	132.8	131.4	129.3
67°	132.7	130.3	130.0	129.5	127.8	126.0



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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(END OF REPORT)