

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P869742

Luminaire Tested: **SMX18SLSFSD2W-1500LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869742
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFSD2W-1500LM-3000K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

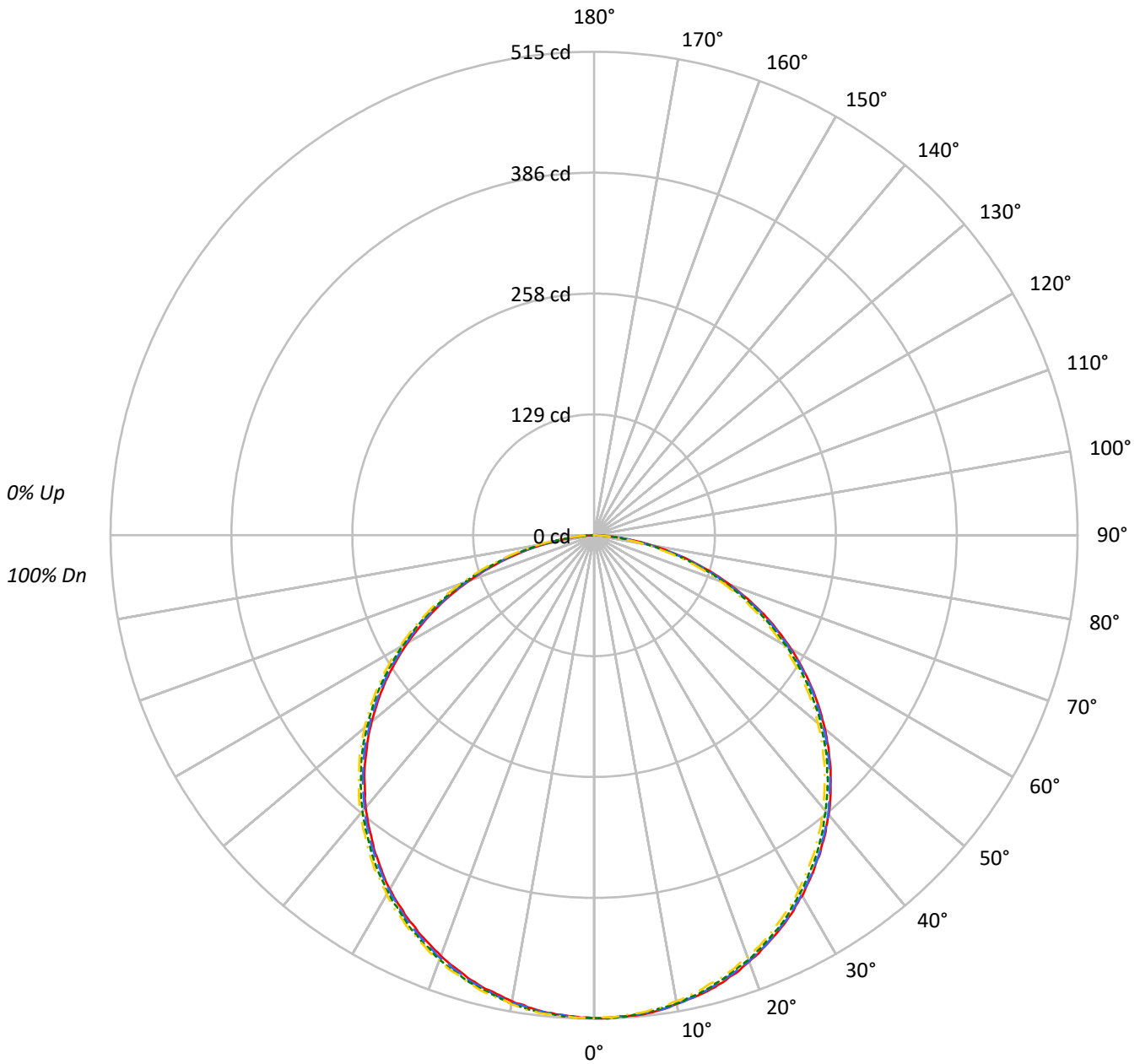
Lumens per Lamp: N/A
 Luminaire Lumens: 1501.9 lumens
 Efficiency: N/A
 Efficacy: 89.9 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 16.7
 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: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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Luminous Intensity Polar Plot



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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	100	100	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69	69	69	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50	50	50	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2461	2461	2461	2461
5°	2466	2461	2454	2460
10°	2463	2460	2448	2462
15°	2468	2452	2440	2453
20°	2460	2451	2429	2449
25°	2455	2442	2414	2440
30°	2450	2427	2405	2426
35°	2440	2416	2385	2414
40°	2428	2396	2363	2397
45°	2411	2376	2335	2377
50°	2390	2350	2301	2344
55°	2360	2316	2259	2310
60°	2318	2263	2196	2253
65°	2259	2188	2107	2180
70°	2154	2072	1972	2062
75°	1994	1893	1765	1871
80°	1749	1603	1435	1573
85°	1339	1131	889	1087

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	3.2
10°-20°	139.8	9.3
20°-30°	212.9	14.2
30°-40°	258.5	17.2
40°-50°	270.7	18.0
50°-60°	247.5	16.5
60°-70°	190.6	12.7
70°-80°	107.7	7.2
80°-90°	25.4	1.7
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°	401.5	26.7
0°-40°	660.0	43.9
0°-60°	1178.3	78.5
0°-90°	1501.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	514	514	514	514	514	
5°	514	512	511	512	514	49
15°	498	495	493	495	498	141
25°	465	463	457	462	465	214
35°	418	414	408	413	418	261
45°	356	351	345	351	356	275
55°	283	278	271	277	283	253
65°	200	193	186	193	200	197
75°	108	102	96	101	108	114
85°	24	21	16	20	24	30
90°	0	0	0	0	0	

TEST NUMBER: P869742
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5
0.5°	514.4	514.2	514.5	514.1	514.6	515.1	514.1	514.5	514.1	514.4	513.9
1°	514.8	513.9	514.6	514.4	514.4	514.6	513.8	514.1	513.8	514.2	514.5
1.5°	514.3	514.3	514.1	514.4	515.0	514.5	513.4	514.0	514.0	513.8	514.3
2°	514.0	513.7	513.9	514.3	514.8	514.3	514.1	513.4	513.3	513.3	513.3
2.5°	514.0	514.2	513.8	514.3	514.4	514.3	513.5	513.3	513.1	513.1	513.2
3°	513.2	514.3	513.6	513.8	513.9	513.8	512.8	513.6	513.0	512.6	513.3
3.5°	513.5	514.4	513.4	513.8	514.0	513.3	512.8	513.3	512.4	512.5	512.5
4°	513.4	513.8	513.3	513.9	513.7	513.0	511.8	512.8	512.0	512.7	512.0
4.5°	513.3	513.8	512.6	513.7	513.1	512.9	511.8	511.8	512.0	512.2	511.9
5°	513.5	513.3	512.6	512.9	512.4	512.7	511.3	511.5	511.1	510.9	512.3
5.5°	513.2	512.9	512.2	512.0	512.0	512.0	511.1	510.8	511.0	510.3	511.5
6°	512.9	512.9	511.8	512.1	512.0	511.0	510.8	510.6	510.6	509.9	510.6
6.5°	512.4	512.7	511.4	511.2	511.3	511.1	510.0	509.9	509.8	509.5	510.2
7°	512.1	512.3	510.9	511.0	510.8	510.4	508.6	508.9	509.1	508.6	510.1
7.5°	511.2	511.1	510.2	510.0	509.5	510.0	508.5	508.4	508.1	508.0	509.1
8°	510.7	510.0	509.9	509.9	508.7	509.4	508.1	507.5	507.6	507.4	507.7
8.5°	510.1	509.3	509.7	508.6	508.3	508.7	507.2	507.0	506.1	506.8	507.1
9°	509.3	508.5	508.8	508.3	507.7	508.0	506.0	506.4	505.5	505.8	506.4
9.5°	508.1	508.2	507.7	507.1	507.1	507.3	504.7	505.0	505.3	505.1	506.1
10°	507.0	507.1	506.7	506.8	506.5	506.4	504.0	504.1	503.9	504.7	505.3
10.5°	506.4	506.4	506.4	505.5	505.6	504.9	503.4	503.2	502.8	503.6	504.2
11°	505.5	505.5	505.6	505.0	504.5	504.2	502.3	502.8	501.8	502.1	503.0
11.5°	504.4	505.0	504.3	503.6	502.8	503.5	501.4	501.5	500.3	501.5	502.1
12°	504.0	503.7	503.6	502.6	502.3	502.6	499.9	501.1	499.6	500.1	501.5
12.5°	503.1	502.7	503.2	501.7	501.6	501.6	498.8	500.0	498.2	499.1	500.2
13°	502.2	502.5	501.9	500.5	500.5	500.4	498.0	498.5	497.3	498.2	498.6
13.5°	501.2	501.5	500.2	499.5	499.4	499.1	496.6	497.6	496.8	497.2	497.1
14°	500.2	500.4	499.1	498.8	498.3	497.0	494.9	496.2	495.5	496.3	496.4
14.5°	499.1	498.8	497.7	497.2	497.0	496.2	493.5	494.7	494.0	494.8	495.2
15°	498.3	497.5	496.7	496.5	495.0	495.3	492.7	493.4	492.6	492.9	494.3
15.5°	496.6	496.4	495.5	494.9	493.9	493.8	491.8	491.9	491.5	491.5	493.1
16°	495.8	495.0	494.0	493.8	493.0	492.7	490.3	490.6	490.2	490.6	491.8
16.5°	494.2	493.6	492.7	492.1	491.3	491.4	488.9	489.2	488.0	489.2	490.2
17°	492.3	491.9	491.2	491.2	489.8	489.9	487.5	488.1	486.4	487.3	488.2
17.5°	491.2	490.7	490.0	489.1	488.0	488.4	486.2	486.6	484.9	485.6	486.8
18°	490.2	489.5	488.5	487.7	486.9	486.6	484.8	484.7	483.4	484.1	485.5
18.5°	488.5	488.0	487.1	486.0	485.0	485.2	482.5	482.7	482.2	482.5	483.3
19°	486.4	486.8	485.5	484.6	484.1	483.5	481.0	481.2	480.2	481.0	481.3
19.5°	484.8	485.4	484.3	482.9	482.3	482.0	479.6	479.4	478.8	479.3	480.1
20°	483.2	483.3	482.8	481.8	481.5	480.5	477.9	477.6	477.1	477.5	478.9
20.5°	481.4	481.4	480.5	479.7	479.6	478.6	476.4	476.0	474.8	475.8	477.6
21°	480.3	479.5	479.0	478.2	477.5	476.9	474.7	474.1	473.1	474.6	475.4
21.5°	478.6	478.2	477.5	477.0	475.7	475.0	472.8	472.1	471.2	472.9	473.3
22°	476.2	476.2	475.8	475.3	474.0	472.8	471.4	471.2	469.3	470.5	471.6

TEST NUMBER: P869742
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	474.3	474.3	474.3	473.1	471.8	470.8	469.4	469.0	467.5	468.5	469.5
23°	472.7	472.4	472.3	471.0	469.9	469.6	467.2	467.3	465.6	466.9	467.8
23.5°	470.7	470.9	470.0	469.0	468.3	467.6	465.2	465.5	464.0	465.3	465.8
24°	468.9	469.1	468.0	467.6	466.1	465.5	463.3	463.0	462.0	462.8	463.9
24.5°	467.1	466.9	466.0	465.3	464.2	463.5	460.5	460.5	459.3	460.2	461.7
25°	465.1	464.5	464.2	463.2	462.6	461.4	458.5	459.0	457.4	458.2	459.4
25.5°	462.9	462.6	462.0	460.9	460.4	459.4	456.9	457.2	455.8	456.2	457.3
26°	461.1	460.8	459.9	458.9	458.8	457.3	454.6	454.9	453.6	454.4	455.9
26.5°	459.1	459.0	458.2	456.7	456.1	454.8	452.4	452.8	451.5	451.9	453.4
27°	456.8	456.8	456.1	454.7	454.1	452.3	450.4	450.5	448.8	449.5	450.8
27.5°	454.9	455.0	453.5	452.8	451.6	449.9	448.3	448.2	446.4	447.4	448.4
28°	452.9	452.0	451.3	450.8	448.6	447.7	446.0	445.4	444.6	445.8	446.2
28.5°	449.6	449.7	449.0	448.5	446.1	445.1	443.5	443.2	442.4	443.4	443.5
29°	447.7	447.7	446.5	446.0	444.2	443.3	441.2	440.9	440.3	441.1	441.5
29.5°	444.9	445.8	444.6	443.6	441.7	441.1	438.9	438.3	437.4	438.6	439.1
30°	443.5	443.3	442.0	440.9	439.4	438.1	436.3	435.8	435.3	435.8	436.6
30.5°	440.8	440.5	439.4	438.1	437.3	435.6	433.4	433.4	432.9	433.0	433.7
31°	437.9	437.7	437.0	435.9	434.5	432.9	430.9	430.5	430.3	430.6	431.7
31.5°	435.5	434.9	434.8	433.3	431.9	430.3	428.0	427.6	427.4	427.7	428.8
32°	433.0	432.8	431.8	431.1	429.2	428.3	425.4	425.4	424.7	425.1	426.3
32.5°	430.5	430.3	429.8	428.2	426.4	426.1	422.9	422.3	421.7	422.7	423.3
33°	428.1	427.8	427.5	425.9	424.3	423.3	420.4	419.7	419.0	420.0	421.1
33.5°	425.3	425.2	424.9	422.9	421.4	420.6	417.6	417.7	416.4	417.2	417.9
34°	422.3	423.0	422.0	420.3	419.2	417.6	415.2	415.2	413.6	414.6	415.3
34.5°	419.6	420.3	419.6	417.4	416.4	415.0	412.8	412.1	411.3	411.6	412.7
35°	417.8	417.5	416.9	414.4	413.7	412.3	409.6	409.1	408.4	409.0	410.2
35.5°	415.0	414.7	414.2	412.3	410.8	409.2	406.4	405.9	404.9	406.6	407.2
36°	411.7	411.7	411.3	409.5	408.0	405.8	403.7	403.9	402.1	403.8	404.8
36.5°	408.9	409.0	407.8	407.0	404.7	403.0	400.6	400.6	399.1	400.6	401.3
37°	406.5	406.4	405.1	403.7	401.8	400.2	397.6	398.0	396.1	397.2	398.2
37.5°	403.7	403.1	402.6	400.6	399.1	397.0	395.0	394.5	393.3	394.3	395.5
38°	400.7	400.3	399.4	398.1	396.0	394.1	392.4	391.1	390.5	391.7	392.7
38.5°	397.1	397.5	396.3	394.6	392.6	391.1	389.3	388.1	387.4	389.1	390.0
39°	394.4	394.2	393.8	391.7	389.4	388.5	386.0	385.3	384.3	386.0	386.8
39.5°	391.3	391.1	390.9	388.3	386.6	385.4	382.9	382.1	381.5	382.2	383.3
40°	388.8	387.9	387.9	385.3	383.7	382.1	380.0	379.1	378.4	379.2	380.1
40.5°	385.8	385.2	384.7	382.1	380.3	378.8	376.5	376.3	375.1	375.9	377.0
41°	382.6	382.1	381.2	379.6	377.3	375.6	373.1	372.7	372.1	372.3	374.0
41.5°	379.5	379.0	378.0	376.5	374.1	372.8	370.0	369.2	368.2	369.3	370.6
42°	376.1	375.5	374.8	373.2	371.1	369.1	366.8	366.2	365.0	366.1	367.4
42.5°	372.9	372.6	371.3	370.2	367.9	365.9	363.4	362.7	361.6	363.1	364.6
43°	369.7	369.8	368.0	366.6	364.6	363.2	360.1	359.7	358.5	359.5	360.8
43.5°	366.2	366.4	365.3	363.0	361.7	359.9	357.0	356.0	355.4	356.5	357.6
44°	363.0	362.8	361.9	359.7	358.3	356.1	353.6	352.7	352.2	353.2	354.2
44.5°	359.7	359.6	358.4	356.3	354.2	352.5	350.5	349.3	348.6	350.1	351.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	356.3	355.7	354.9	353.0	351.2	349.2	346.9	346.1	345.1	346.2	347.6
45.5°	353.2	352.7	351.3	350.2	348.0	346.2	343.7	342.5	341.5	343.0	344.1
46°	349.5	349.6	347.9	346.5	344.7	342.8	339.5	338.9	337.8	339.5	340.9
46.5°	345.7	345.5	344.6	342.5	341.3	339.3	336.3	335.4	334.3	336.1	337.4
47°	342.4	342.0	340.8	339.3	337.8	335.7	332.6	331.9	330.9	332.5	334.0
47.5°	339.0	338.5	337.1	335.5	334.1	332.0	329.0	328.3	327.6	328.6	330.2
48°	335.5	335.3	333.4	332.1	330.3	328.6	325.8	325.0	323.9	325.0	326.3
48.5°	331.6	331.6	330.2	328.6	326.4	324.7	322.1	321.5	320.5	321.2	323.1
49°	328.0	328.1	326.7	324.9	322.9	321.0	318.6	317.8	316.6	317.7	319.1
49.5°	324.5	324.6	323.0	321.3	319.1	317.1	314.7	314.0	312.9	314.3	315.1
50°	321.1	320.9	319.0	317.4	315.7	313.7	310.8	310.6	309.2	310.7	311.7
50.5°	317.1	317.1	315.4	313.6	312.3	310.4	307.4	306.8	305.3	306.7	308.1
51°	313.2	313.2	311.6	310.0	308.6	306.3	303.3	302.7	301.6	302.6	304.3
51.5°	309.7	309.6	308.1	306.3	305.0	302.4	300.1	298.8	297.8	299.0	300.4
52°	306.3	305.5	304.4	302.6	300.7	299.1	296.4	295.3	293.9	295.2	296.5
52.5°	302.5	301.9	300.6	298.8	296.5	295.1	292.7	291.6	290.3	291.1	292.7
53°	298.6	298.3	296.7	294.9	292.8	290.7	288.6	287.5	286.2	287.8	288.9
53.5°	294.5	294.3	292.9	291.4	289.2	286.9	284.8	283.2	282.5	284.0	285.0
54°	290.9	290.7	289.4	287.1	285.1	283.4	280.6	279.4	278.4	279.7	281.3
54.5°	287.3	286.8	285.4	283.1	281.7	279.7	276.2	275.3	274.9	275.5	277.3
55°	283.0	282.7	281.8	279.1	277.7	275.6	272.4	271.7	270.9	271.6	273.1
55.5°	278.8	278.5	277.4	275.5	273.6	271.3	268.6	267.4	266.7	267.6	268.9
56°	275.2	274.5	273.1	271.4	269.3	267.1	264.7	263.5	262.8	263.6	265.3
56.5°	271.0	270.8	269.4	267.1	265.3	263.0	260.5	259.9	258.7	259.9	261.3
57°	266.9	266.8	265.1	263.0	261.4	259.1	256.5	255.7	254.4	255.9	257.4
57.5°	262.9	262.8	261.3	258.9	257.5	255.2	252.1	251.1	250.4	251.6	253.2
58°	258.9	258.3	257.2	254.7	253.3	250.9	247.9	247.0	246.2	247.3	248.7
58.5°	254.7	254.0	252.8	250.6	248.9	246.4	243.8	243.0	242.2	243.0	244.6
59°	250.6	250.3	248.5	246.5	245.0	242.5	239.9	238.8	237.8	239.0	240.3
59.5°	246.6	246.0	244.6	242.8	240.9	238.4	235.6	234.7	233.6	235.0	236.1
60°	242.3	241.8	240.2	238.6	236.5	234.2	231.7	230.6	229.5	230.8	232.3
60.5°	238.2	237.5	236.0	234.4	231.8	230.1	227.4	226.3	225.3	226.2	228.1
61°	234.0	233.1	231.7	229.9	227.8	225.8	223.3	221.9	221.1	222.2	223.9
61.5°	229.4	228.8	227.4	225.4	223.6	221.5	219.1	217.4	216.6	217.8	219.5
62°	225.4	224.6	223.2	221.1	219.3	217.2	214.8	213.3	212.3	213.6	215.2
62.5°	221.0	220.3	218.8	216.9	214.8	213.0	210.3	209.0	207.9	209.2	210.6
63°	216.8	215.9	214.5	212.6	210.7	208.6	205.9	204.8	203.7	204.8	206.2
63.5°	212.8	211.5	210.2	208.0	206.6	204.2	201.7	200.3	199.5	200.3	202.1
64°	208.1	207.4	205.9	203.8	202.4	199.8	197.0	195.9	195.1	196.0	197.8
64.5°	203.8	203.0	201.5	199.3	197.6	195.5	192.4	191.4	190.4	191.4	193.3
65°	199.6	198.8	197.2	194.8	193.3	191.1	188.0	187.0	186.1	187.1	188.8
65.5°	195.2	194.3	192.9	190.2	188.9	186.5	183.5	182.7	181.8	182.8	184.5
66°	190.3	189.9	188.1	185.8	184.4	182.0	179.1	178.0	177.4	178.3	180.0
66.5°	185.7	185.2	183.6	181.5	179.9	177.6	174.6	173.6	173.0	173.7	175.3
67°	181.5	180.6	179.1	176.9	175.5	173.1	170.5	169.0	168.5	169.2	170.9

TEST NUMBER: P869742
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	176.8	176.1	174.5	172.2	171.0	168.7	166.0	164.4	164.0	164.6	166.2
68°	172.3	171.6	169.9	167.6	166.6	164.1	161.4	160.2	159.4	160.3	161.9
68.5°	167.7	167.1	165.5	163.3	161.9	159.6	156.8	155.7	154.8	155.6	157.5
69°	163.3	162.8	161.0	159.0	157.6	154.9	152.1	150.9	150.1	151.0	153.0
69.5°	158.8	158.2	156.4	153.9	152.8	150.1	147.6	146.2	145.6	146.3	148.5
70°	154.0	153.6	151.7	149.4	148.1	145.7	142.9	141.8	141.0	141.8	143.6
70.5°	149.4	149.0	147.0	144.8	143.7	141.3	138.6	137.3	136.6	137.4	139.2
71°	144.8	144.4	142.7	140.4	139.2	136.8	134.0	132.8	132.1	132.9	134.6
71.5°	140.4	140.0	138.1	135.5	134.4	132.1	129.4	128.0	127.4	128.3	129.9
72°	135.9	135.2	133.3	131.0	129.9	127.4	124.7	123.4	123.0	123.7	125.5
72.5°	131.3	130.4	128.6	126.5	125.4	123.0	120.3	119.1	118.3	119.2	121.0
73°	126.6	125.7	124.0	121.7	120.8	118.5	115.8	114.3	113.6	114.7	116.4
73.5°	121.9	121.1	119.6	117.2	116.1	113.7	111.3	109.7	109.0	110.4	111.8
74°	117.3	116.5	114.7	112.6	111.5	109.2	106.7	105.3	104.5	105.6	107.2
74.5°	112.7	111.9	110.3	107.8	107.1	104.7	102.2	100.8	100.1	101.1	102.6
75°	107.9	107.2	105.6	103.1	102.4	100.0	97.6	96.3	95.5	96.6	98.1
75.5°	103.4	102.8	101.1	98.7	97.9	95.5	93.3	91.6	91.1	92.3	93.7
76°	99.0	98.3	96.6	94.1	93.3	90.9	88.6	87.1	86.6	87.6	89.2
76.5°	94.4	93.7	92.0	89.6	88.9	86.5	84.1	82.9	82.1	83.1	84.6
77°	90.0	89.1	87.6	85.1	84.4	81.9	79.7	78.3	77.7	78.6	80.1
77.5°	85.5	84.5	83.2	80.7	79.8	77.5	75.3	73.9	73.3	74.3	75.8
78°	81.0	80.1	78.7	76.4	75.5	73.2	71.1	69.4	69.0	69.8	71.4
78.5°	76.5	75.7	74.3	71.9	71.2	68.7	66.5	65.2	64.7	65.5	67.0
79°	72.2	71.3	69.8	67.5	66.7	64.3	62.2	60.9	60.3	61.1	62.6
79.5°	67.9	67.0	65.5	63.2	62.4	60.1	58.0	56.8	56.2	57.1	58.5
80°	63.5	62.5	61.2	59.0	58.2	56.0	53.9	52.7	52.1	53.1	54.5
80.5°	59.3	58.4	57.1	54.8	54.2	51.9	49.9	48.6	48.0	49.0	50.5
81°	55.0	54.2	53.1	50.7	50.1	47.9	45.8	44.6	44.1	45.0	46.4
81.5°	50.9	50.2	48.9	46.7	46.0	43.9	41.9	40.7	40.3	41.0	42.4
82°	46.8	46.1	44.7	42.6	42.0	39.9	38.0	36.8	36.4	37.2	38.5
82.5°	42.7	42.2	40.6	38.6	38.2	36.1	34.4	33.1	32.6	33.4	34.7
83°	38.7	38.0	36.7	34.8	34.5	32.5	30.7	29.5	29.1	29.9	31.2
83.5°	35.1	34.2	33.0	31.3	30.8	28.9	27.1	26.0	25.7	26.3	27.6
84°	31.4	30.6	29.4	27.8	27.3	25.4	23.7	22.6	22.2	23.0	24.2
84.5°	27.9	27.2	26.0	24.3	23.9	22.1	20.5	19.4	19.2	19.8	20.9
85°	24.4	23.8	22.7	21.0	20.6	18.9	17.4	16.4	16.2	16.7	17.8
85.5°	21.1	20.5	19.5	18.0	17.5	15.8	14.4	13.6	13.4	13.9	14.9
86°	18.1	17.5	16.6	15.2	14.6	13.1	11.9	11.0	10.9	11.3	12.3
86.5°	15.2	14.8	14.0	12.6	12.0	10.8	9.7	9.0	8.8	9.4	10.0
87°	12.7	12.3	11.4	10.2	9.8	8.7	7.6	7.0	6.9	7.3	8.1
87.5°	10.3	9.9	9.2	8.1	7.7	6.7	5.7	5.1	5.1	5.5	6.1
88°	8.1	7.8	7.1	6.0	5.8	4.8	4.0	3.5	3.5	3.8	4.4
88.5°	6.0	5.7	5.2	4.3	4.2	3.3	2.6	2.1	2.0	2.4	2.9
89°	4.3	4.1	3.6	2.9	2.9	2.0	1.4	1.0	0.9	1.2	1.6
89.5°	3.0	2.8	2.4	1.8	1.6	1.0	0.5	0.9	0.8	1.0	0.6

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869742
CATALOG NUMBER: SMX18SLSFSD2W-1500LM-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: P869742
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	514.5	514.5	514.5	514.5	514.5	514.5
0.5°	514.9	513.9	515.2	514.2	514.1	514.4
1°	514.4	513.8	515.4	514.3	514.0	514.8
1.5°	514.3	514.3	515.0	514.3	514.2	514.3
2°	514.0	514.2	514.4	514.3	514.9	514.0
2.5°	513.6	513.4	515.0	514.0	514.0	514.0
3°	514.2	513.1	514.9	513.6	514.5	513.2
3.5°	513.8	513.6	514.3	513.3	514.1	513.5
4°	513.6	513.1	514.2	513.5	513.4	513.4
4.5°	513.5	512.6	513.9	513.2	513.3	513.3
5°	513.2	512.2	514.0	512.8	513.0	513.5
5.5°	512.0	511.8	513.8	512.6	513.3	513.2
6°	511.3	511.5	513.9	512.4	512.4	512.9
6.5°	510.8	511.7	513.2	512.4	512.2	512.4
7°	510.6	510.5	512.7	511.5	512.0	512.1
7.5°	509.9	510.4	512.1	511.2	511.9	511.2
8°	509.2	509.8	510.8	510.8	511.2	510.7
8.5°	508.3	508.8	510.1	510.0	509.8	510.1
9°	507.7	508.2	510.0	508.8	509.7	509.3
9.5°	506.4	507.6	509.1	508.1	508.7	508.1
10°	505.7	506.8	507.9	507.2	507.7	507.0
10.5°	504.6	505.7	507.0	505.5	507.5	506.4
11°	503.8	504.6	506.0	504.7	506.1	505.5
11.5°	502.5	503.3	505.0	504.2	504.9	504.4
12°	501.4	501.8	504.4	503.5	504.0	504.0
12.5°	500.4	501.2	502.7	502.1	503.3	503.1
13°	499.6	499.8	501.4	501.5	502.1	502.2
13.5°	498.4	499.1	500.5	500.6	501.0	501.2
14°	497.5	497.8	499.9	499.7	499.5	500.2
14.5°	496.6	496.9	498.1	498.3	498.7	499.1
15°	495.3	495.3	496.7	496.6	498.1	498.3
15.5°	493.1	494.5	495.7	494.9	497.2	496.6
16°	491.8	493.3	494.4	494.2	495.5	495.8
16.5°	490.4	491.6	493.1	492.8	494.6	494.2
17°	489.4	489.6	491.7	490.9	493.1	492.3
17.5°	487.8	488.5	490.9	489.4	491.7	491.2
18°	486.1	487.4	489.4	488.8	490.2	490.2
18.5°	484.6	486.0	487.4	487.4	488.2	488.5
19°	482.9	484.2	485.3	485.4	486.3	486.4
19.5°	481.0	482.6	483.7	483.4	484.8	484.8
20°	479.6	481.0	482.3	481.7	483.1	483.2
20.5°	478.5	479.6	480.2	480.3	481.6	481.4
21°	476.9	477.4	478.6	479.1	480.1	480.3
21.5°	475.0	475.0	476.9	477.6	478.8	478.6
22°	472.9	473.1	475.0	475.5	477.3	476.2

TEST NUMBER: P869742
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	470.4	472.0	473.1	473.3	474.9	474.3
23°	468.8	470.1	471.6	471.6	472.6	472.7
23.5°	466.6	467.7	469.5	470.2	470.8	470.7
24°	464.8	465.7	468.0	467.6	468.8	468.9
24.5°	463.4	464.2	465.8	465.8	466.9	467.1
25°	461.2	462.2	463.7	464.4	465.5	465.1
25.5°	458.9	460.5	461.3	462.3	463.9	462.9
26°	456.9	457.6	459.3	460.0	461.3	461.1
26.5°	454.8	455.3	457.6	457.3	458.8	459.1
27°	452.2	453.0	455.8	455.4	456.9	456.8
27.5°	449.7	450.3	453.2	453.6	455.5	454.9
28°	447.5	448.0	450.6	451.8	453.1	452.9
28.5°	444.9	446.4	448.2	449.3	450.6	449.6
29°	443.1	444.1	446.4	446.9	447.6	447.7
29.5°	440.8	441.5	443.9	444.4	445.9	444.9
30°	438.8	439.1	441.2	441.6	443.7	443.5
30.5°	435.6	437.3	438.3	438.8	441.0	440.8
31°	433.0	433.8	436.2	436.8	438.4	437.9
31.5°	430.4	431.4	434.0	433.9	436.2	435.5
32°	428.4	429.1	431.6	431.5	434.0	433.0
32.5°	426.1	426.8	428.8	429.2	431.8	430.5
33°	423.3	424.2	426.5	427.2	428.9	428.1
33.5°	419.8	421.4	423.7	424.4	426.3	425.3
34°	417.4	418.7	420.8	421.3	423.3	422.3
34.5°	414.4	416.0	418.1	418.7	420.7	419.6
35°	411.7	413.3	415.4	416.2	418.0	417.8
35.5°	409.3	410.1	412.8	413.5	415.0	415.0
36°	406.5	406.9	409.8	410.7	412.1	411.7
36.5°	403.7	404.0	406.9	407.1	409.3	408.9
37°	400.8	401.1	404.4	404.4	406.3	406.5
37.5°	397.4	398.6	401.4	401.3	403.9	403.7
38°	394.3	395.5	398.5	398.7	401.1	400.7
38.5°	391.3	392.6	395.3	395.9	398.2	397.1
39°	388.1	390.0	392.5	392.9	394.4	394.4
39.5°	385.2	387.2	389.4	389.5	391.5	391.3
40°	382.0	383.8	386.4	387.1	388.3	388.8
40.5°	379.4	380.5	383.2	384.1	385.3	385.8
41°	376.5	377.6	379.9	381.0	382.0	382.6
41.5°	373.0	374.7	376.8	377.6	379.0	379.5
42°	369.8	371.2	373.8	374.2	376.4	376.1
42.5°	366.0	367.5	370.4	370.8	373.1	372.9
43°	362.7	364.6	366.7	367.9	370.0	369.7
43.5°	359.2	360.9	363.1	364.8	366.4	366.2
44°	356.1	357.3	359.7	361.2	363.1	363.0
44.5°	352.7	354.5	357.0	357.3	359.8	359.7

TEST NUMBER: P869742
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	349.3	351.4	353.8	353.9	356.0	356.3
45.5°	345.7	348.0	350.2	350.7	352.4	353.2
46°	342.3	344.5	346.9	347.3	349.2	349.5
46.5°	338.8	340.8	343.5	344.5	345.7	345.7
47°	335.2	337.3	340.0	340.8	342.3	342.4
47.5°	331.6	334.0	336.4	337.2	338.6	339.0
48°	328.1	330.3	332.9	333.6	335.3	335.5
48.5°	324.6	326.3	329.1	330.1	331.8	331.6
49°	320.8	322.6	325.3	326.4	328.1	328.0
49.5°	317.2	319.1	321.4	322.8	324.6	324.5
50°	313.5	314.9	317.5	319.4	320.8	321.1
50.5°	309.7	311.3	313.8	315.8	316.9	317.1
51°	306.2	308.0	310.5	311.7	313.3	313.2
51.5°	302.5	303.9	306.9	307.8	309.8	309.7
52°	298.8	300.0	303.2	303.9	306.3	306.3
52.5°	294.8	296.5	299.4	300.6	302.4	302.5
53°	290.9	292.8	295.7	296.9	298.9	298.6
53.5°	287.4	288.9	291.6	292.4	294.8	294.5
54°	283.2	285.0	287.8	288.6	290.9	290.9
54.5°	279.3	280.8	283.9	285.1	286.6	287.3
55°	275.5	276.9	279.8	281.0	283.0	283.0
55.5°	271.6	272.9	275.7	277.2	279.2	278.8
56°	267.6	268.9	271.8	273.2	275.2	275.2
56.5°	263.5	264.9	267.8	268.9	271.3	271.0
57°	259.2	260.7	263.6	264.9	267.2	266.9
57.5°	254.9	256.5	259.5	260.3	262.8	262.9
58°	251.1	252.4	255.2	256.6	258.9	258.9
58.5°	247.2	248.2	250.8	252.8	254.7	254.7
59°	243.1	244.2	246.7	248.7	250.6	250.6
59.5°	238.6	240.0	242.4	244.5	246.4	246.6
60°	234.7	235.5	238.6	240.1	242.3	242.3
60.5°	230.0	231.3	234.0	235.9	238.1	238.2
61°	225.7	226.9	230.0	231.5	233.7	234.0
61.5°	221.6	223.0	226.0	227.2	229.3	229.4
62°	217.2	218.7	221.7	222.9	225.1	225.4
62.5°	213.0	214.4	217.5	218.8	220.8	221.0
63°	208.5	209.8	213.0	214.2	216.7	216.8
63.5°	204.3	205.5	208.7	210.0	212.2	212.8
64°	199.9	201.4	204.3	205.6	207.4	208.1
64.5°	195.5	197.1	200.0	201.5	203.1	203.8
65°	191.1	192.6	195.3	197.1	198.8	199.6
65.5°	186.9	188.1	190.9	192.5	194.4	195.2
66°	182.4	183.4	186.5	188.1	189.9	190.3
66.5°	177.8	179.2	182.0	183.8	185.5	185.7
67°	173.3	174.7	177.5	179.4	181.3	181.5

TEST NUMBER: P869742
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	168.9	170.0	172.7	174.5	176.7	176.8
68°	164.3	165.4	168.2	170.2	172.2	172.3
68.5°	159.9	160.9	163.8	165.7	167.4	167.7
69°	155.6	156.6	159.0	160.9	162.8	163.3
69.5°	151.0	152.1	154.5	156.4	158.3	158.8
70°	146.3	147.4	149.9	152.1	153.8	154.0
70.5°	141.7	142.6	145.5	147.4	149.3	149.4
71°	137.1	138.0	140.8	142.6	144.7	144.8
71.5°	132.4	133.5	136.1	138.3	140.2	140.4
72°	127.7	129.0	131.7	133.6	135.3	135.9
72.5°	123.4	124.2	127.0	128.8	130.7	131.3
73°	118.8	119.4	122.3	124.2	126.1	126.6
73.5°	114.3	115.1	118.0	119.6	121.5	121.9
74°	109.7	110.4	113.2	114.9	116.9	117.3
74.5°	105.3	105.8	108.6	110.5	112.2	112.7
75°	100.5	101.2	103.9	106.0	107.5	107.9
75.5°	96.1	96.7	99.5	101.3	102.9	103.4
76°	91.6	92.2	94.8	96.7	98.4	99.0
76.5°	87.0	87.7	90.4	92.3	93.8	94.4
77°	82.4	83.1	85.8	87.6	89.4	90.0
77.5°	78.0	78.8	81.3	83.4	85.1	85.5
78°	73.6	74.4	77.0	78.9	80.6	81.0
78.5°	69.2	70.0	72.7	74.6	76.1	76.5
79°	65.0	65.7	68.3	70.1	71.6	72.2
79.5°	60.6	61.5	63.9	65.8	67.4	67.9
80°	56.5	57.1	59.6	61.4	63.1	63.5
80.5°	52.5	53.1	55.6	57.3	58.8	59.3
81°	48.5	49.0	51.4	53.2	54.7	55.0
81.5°	44.5	44.9	47.3	49.1	50.5	50.9
82°	40.5	40.9	43.3	45.0	46.4	46.8
82.5°	36.7	37.1	39.3	40.9	42.5	42.7
83°	33.2	33.4	35.4	37.0	38.5	38.7
83.5°	29.4	29.7	31.7	33.3	34.7	35.1
84°	26.0	26.2	28.2	29.6	31.0	31.4
84.5°	22.6	22.9	24.8	26.2	27.6	27.9
85°	19.5	19.8	21.6	23.0	24.0	24.4
85.5°	16.4	16.7	18.5	19.8	20.8	21.1
86°	13.6	14.1	15.5	16.8	17.9	18.1
86.5°	11.2	11.6	13.0	14.1	15.0	15.2
87°	9.1	9.3	10.5	11.5	12.4	12.7
87.5°	7.1	7.3	8.4	9.3	10.0	10.3
88°	5.4	5.2	6.3	7.3	7.9	8.1
88.5°	3.7	3.6	4.3	5.2	5.8	6.0
89°	2.3	2.4	2.9	3.6	4.0	4.3
89.5°	1.1	1.3	1.8	2.3	2.8	3.0

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869742
CATALOG NUMBER: SMX18SLSFSD2W-1500LM-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

(END OF REPORT)