

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: P869745

Luminaire Tested: **SMX18SLSFSD2W-1500LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869745  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18SLSFSD2W-1500LM-5000K  
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT  
 Ballast/Driver: -

**Summary**

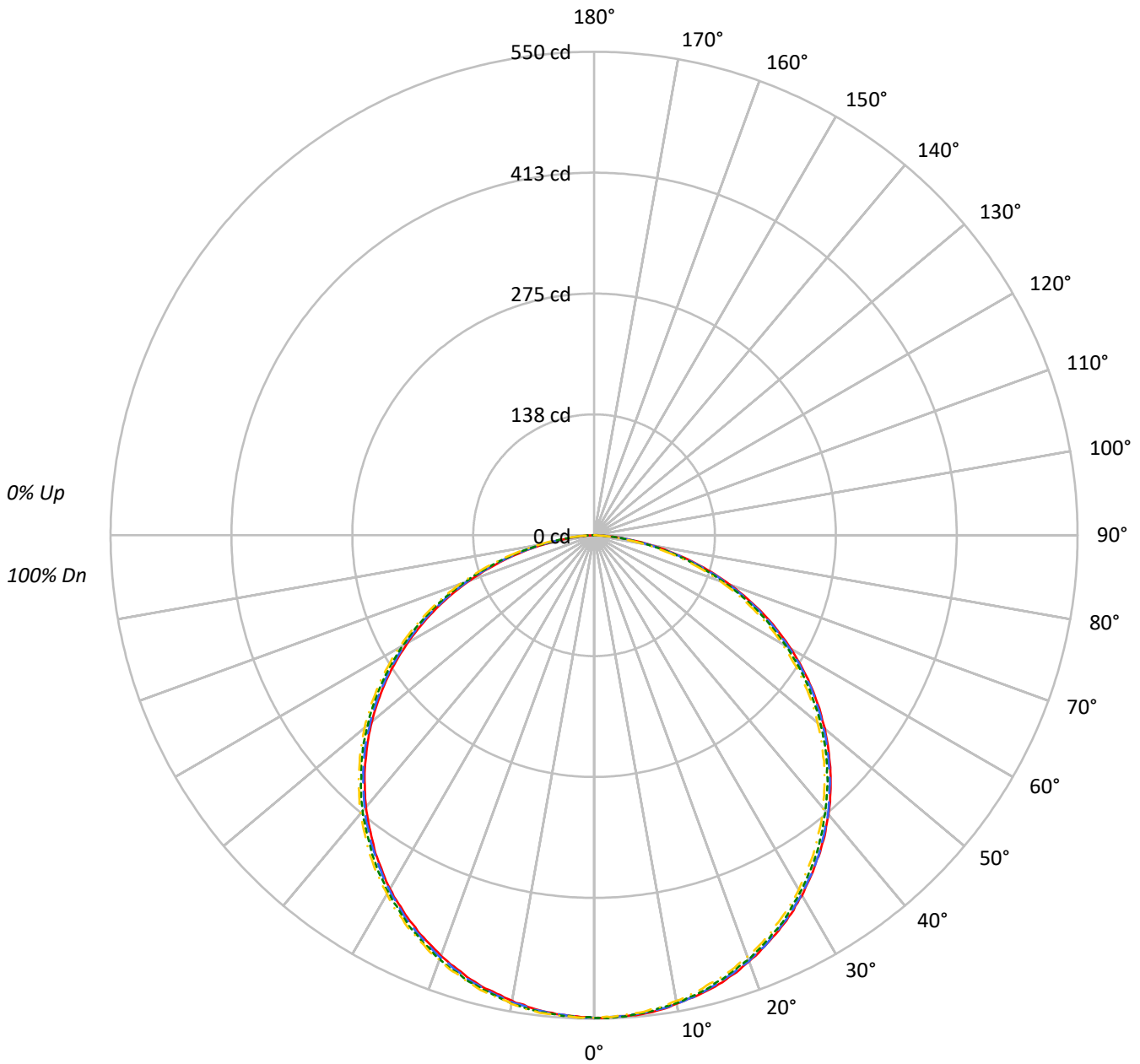
Lumens per Lamp: N/A  
 Luminaire Lumens: 1602.8 lumens  
 Efficiency: N/A  
 Efficacy: 97.1 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 16.5  
 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: 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	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	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	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	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	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	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	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	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	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	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	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	24	24	24		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	2627	2627	2627	2627
5°	2632	2626	2619	2625
10°	2629	2626	2612	2627
15°	2634	2616	2603	2618
20°	2625	2616	2592	2613
25°	2620	2606	2576	2603
30°	2615	2591	2566	2589
35°	2604	2578	2545	2576
40°	2591	2557	2522	2558
45°	2573	2536	2492	2537
50°	2551	2507	2456	2501
55°	2519	2472	2411	2465
60°	2474	2415	2344	2404
65°	2411	2335	2248	2326
70°	2298	2210	2104	2200
75°	2129	2020	1884	1996
80°	1868	1711	1532	1681
85°	1427	1208	944	1164

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.0	3.2
10°-20°	149.2	9.3
20°-30°	227.2	14.2
30°-40°	275.9	17.2
40°-50°	288.9	18.0
50°-60°	264.2	16.5
60°-70°	203.4	12.7
70°-80°	115.0	7.2
80°-90°	27.1	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
<b>0°-30°</b>	<b>428.5</b>	<b>26.7</b>
<b>0°-40°</b>	<b>704.3</b>	<b>43.9</b>
<b>0°-60°</b>	<b>1257.4</b>	<b>78.5</b>
<b>0°-90°</b>	<b>1602.8</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>1602.8</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	549	549	549	549	549	
5°	548	547	545	547	548	52
15°	532	528	526	529	532	150
25°	496	494	488	493	496	229
35°	446	442	436	441	446	279
45°	380	375	368	375	380	293
55°	302	296	289	296	302	270
65°	213	206	199	206	213	210
75°	115	109	102	108	115	122
85°	26	22	17	21	26	31
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°	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1
0.5°	548.9	548.8	549.1	548.7	549.2	549.7	548.7	549.1	548.7	548.9	548.4
1°	549.4	548.4	549.2	549.0	548.9	549.2	548.3	548.6	548.3	548.7	549.1
1.5°	548.9	548.9	548.6	549.0	549.6	549.1	547.9	548.5	548.5	548.3	548.9
2°	548.6	548.2	548.4	548.9	549.4	548.8	548.6	547.9	547.8	547.8	547.8
2.5°	548.5	548.7	548.3	548.9	548.9	548.8	548.0	547.8	547.6	547.6	547.7
3°	547.7	548.8	548.1	548.3	548.4	548.3	547.3	548.2	547.5	547.0	547.8
3.5°	548.1	548.9	547.9	548.3	548.6	547.8	547.3	547.8	546.9	546.9	546.9
4°	547.9	548.3	547.8	548.4	548.2	547.5	546.1	547.3	546.4	547.2	546.4
4.5°	547.8	548.3	547.0	548.2	547.6	547.4	546.1	546.2	546.4	546.6	546.3
5°	548.1	547.8	547.0	547.4	546.8	547.2	545.7	545.9	545.4	545.3	546.7
5.5°	547.7	547.4	546.6	546.4	546.4	546.4	545.5	545.1	545.3	544.6	545.9
6°	547.4	547.4	546.2	546.5	546.4	545.3	545.1	544.9	544.9	544.1	544.9
6.5°	546.9	547.2	545.8	545.6	545.7	545.5	544.2	544.1	544.1	543.7	544.5
7°	546.5	546.7	545.3	545.4	545.1	544.7	542.7	543.1	543.3	542.8	544.4
7.5°	545.6	545.4	544.5	544.3	543.7	544.3	542.7	542.6	542.3	542.1	543.3
8°	545.0	544.3	544.1	544.1	542.8	543.6	542.2	541.6	541.7	541.4	541.8
8.5°	544.4	543.6	543.9	542.8	542.5	542.9	541.3	541.0	540.1	540.9	541.2
9°	543.6	542.7	543.0	542.5	541.8	542.2	540.0	540.4	539.4	539.8	540.4
9.5°	542.3	542.3	541.8	541.2	541.2	541.4	538.6	539.0	539.3	539.0	540.2
10°	541.1	541.2	540.7	540.8	540.5	540.4	537.9	538.0	537.7	538.6	539.2
10.5°	540.4	540.4	540.4	539.4	539.5	538.9	537.2	537.0	536.6	537.4	538.1
11°	539.5	539.5	539.5	539.0	538.4	538.1	536.1	536.6	535.6	535.8	536.8
11.5°	538.3	539.0	538.1	537.5	536.6	537.3	535.1	535.2	533.9	535.2	535.8
12°	537.9	537.6	537.5	536.3	536.1	536.4	533.5	534.7	533.2	533.7	535.2
12.5°	536.9	536.5	537.0	535.4	535.3	535.3	532.3	533.6	531.7	532.6	533.8
13°	535.9	536.2	535.6	534.1	534.1	534.0	531.5	532.0	530.7	531.7	532.1
13.5°	534.8	535.2	533.8	533.1	533.0	532.6	530.0	531.1	530.2	530.6	530.5
14°	533.8	534.0	532.6	532.4	531.8	530.4	528.1	529.6	528.8	529.7	529.8
14.5°	532.6	532.4	531.1	530.6	530.4	529.6	526.7	527.9	527.2	528.0	528.5
15°	531.8	530.9	530.1	529.8	528.2	528.6	525.8	526.6	525.6	526.0	527.6
15.5°	530.0	529.7	528.8	528.1	527.0	527.0	524.8	525.0	524.5	524.5	526.3
16°	529.1	528.2	527.2	526.9	526.2	525.8	523.3	523.5	523.1	523.6	524.8
16.5°	527.4	526.8	525.8	525.1	524.3	524.4	521.7	522.1	520.8	522.1	523.2
17°	525.4	525.0	524.2	524.2	522.7	522.8	520.2	520.9	519.0	520.0	521.0
17.5°	524.2	523.7	522.9	522.0	520.8	521.2	518.8	519.3	517.5	518.3	519.5
18°	523.1	522.3	521.3	520.4	519.7	519.3	517.4	517.3	515.8	516.6	518.1
18.5°	521.3	520.8	519.8	518.7	517.6	517.8	514.9	515.2	514.6	515.0	515.8
19°	519.0	519.5	518.1	517.1	516.6	516.0	513.3	513.5	512.5	513.3	513.6
19.5°	517.4	518.0	516.9	515.4	514.7	514.4	511.8	511.6	511.0	511.5	512.3
20°	515.7	515.8	515.3	514.2	513.8	512.8	510.0	509.7	509.1	509.6	511.0
20.5°	513.8	513.7	512.8	512.0	511.8	510.8	508.4	508.0	506.7	507.7	509.7
21°	512.6	511.8	511.1	510.3	509.6	508.9	506.6	505.9	504.9	506.4	507.4
21.5°	510.8	510.3	509.6	509.1	507.6	506.9	504.6	503.8	502.9	504.6	505.1
22°	508.2	508.2	507.7	507.2	505.8	504.5	503.0	502.9	500.8	502.1	503.3

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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°	506.2	506.2	506.2	504.9	503.5	502.4	501.0	500.5	498.9	499.9	501.0
23°	504.4	504.1	504.0	502.6	501.5	501.1	498.6	498.7	496.9	498.3	499.2
23.5°	502.4	502.6	501.6	500.6	499.8	499.0	496.4	496.8	495.2	496.6	497.1
24°	500.4	500.7	499.4	499.0	497.4	496.8	494.5	494.1	493.1	493.9	495.1
24.5°	498.5	498.3	497.3	496.6	495.4	494.6	491.4	491.5	490.2	491.2	492.7
25°	496.3	495.7	495.4	494.3	493.7	492.4	489.3	489.8	488.1	489.0	490.3
25.5°	494.0	493.7	493.0	491.9	491.4	490.3	487.6	487.9	486.4	486.9	488.1
26°	492.1	491.8	490.8	489.8	489.6	488.0	485.2	485.5	484.0	484.9	486.6
26.5°	490.0	489.8	489.0	487.4	486.7	485.3	482.8	483.2	481.9	482.3	483.9
27°	487.5	487.5	486.8	485.3	484.7	482.7	480.7	480.8	479.0	479.7	481.1
27.5°	485.4	485.6	483.9	483.3	482.0	480.1	478.4	478.3	476.4	477.4	478.5
28°	483.3	482.4	481.6	481.1	478.8	477.8	475.9	475.4	474.5	475.8	476.2
28.5°	479.8	480.0	479.2	478.6	476.1	475.0	473.3	473.0	472.1	473.2	473.3
29°	477.8	477.8	476.5	476.0	474.0	473.1	470.9	470.5	469.9	470.8	471.2
29.5°	474.8	475.7	474.5	473.5	471.4	470.8	468.4	467.8	466.8	468.0	468.6
30°	473.3	473.1	471.7	470.5	469.0	467.5	465.6	465.1	464.5	465.1	465.9
30.5°	470.4	470.1	469.0	467.6	466.7	464.8	462.5	462.5	462.0	462.1	462.9
31°	467.3	467.1	466.4	465.2	463.7	462.0	459.8	459.5	459.2	459.6	460.7
31.5°	464.7	464.2	464.0	462.4	461.0	459.2	456.7	456.4	456.1	456.4	457.7
32°	462.1	461.9	460.9	460.1	458.1	457.1	454.0	454.0	453.2	453.7	454.9
32.5°	459.4	459.2	458.7	456.9	455.1	454.7	451.3	450.7	450.0	451.1	451.8
33°	456.8	456.6	456.3	454.5	452.8	451.7	448.7	447.9	447.2	448.2	449.4
33.5°	453.9	453.8	453.4	451.3	449.7	448.9	445.7	445.8	444.4	445.2	446.0
34°	450.7	451.4	450.4	448.6	447.4	445.6	443.1	443.1	441.4	442.5	443.2
34.5°	447.7	448.6	447.7	445.4	444.4	442.9	440.5	439.8	439.0	439.3	440.4
35°	445.8	445.6	444.9	442.3	441.5	440.0	437.1	436.6	435.8	436.5	437.7
35.5°	442.9	442.5	442.0	440.0	438.4	436.7	433.7	433.2	432.1	434.0	434.5
36°	439.4	439.3	439.0	437.1	435.4	433.0	430.8	431.0	429.1	430.9	432.0
36.5°	436.3	436.5	435.2	434.3	431.9	430.1	427.5	427.5	426.0	427.5	428.3
37°	433.8	433.7	432.3	430.8	428.8	427.1	424.3	424.7	422.7	423.9	425.0
37.5°	430.8	430.2	429.7	427.5	426.0	423.7	421.5	421.0	419.7	420.8	422.0
38°	427.6	427.2	426.2	424.9	422.7	420.6	418.7	417.3	416.8	418.0	419.1
38.5°	423.8	424.2	422.9	421.1	419.0	417.4	415.5	414.2	413.4	415.2	416.2
39°	420.9	420.6	420.3	418.0	415.6	414.7	411.9	411.2	410.1	412.0	412.8
39.5°	417.6	417.3	417.1	414.4	412.6	411.3	408.7	407.8	407.1	407.9	409.1
40°	414.9	414.0	413.9	411.2	409.4	407.8	405.6	404.6	403.8	404.7	405.6
40.5°	411.7	411.1	410.6	407.8	405.8	404.2	401.8	401.5	400.3	401.2	402.4
41°	408.3	407.8	406.8	405.1	402.7	400.8	398.1	397.8	397.1	397.3	399.1
41.5°	405.0	404.5	403.4	401.8	399.2	397.8	394.9	394.0	392.9	394.2	395.6
42°	401.4	400.7	400.0	398.2	396.0	393.9	391.4	390.8	389.5	390.7	392.1
42.5°	398.0	397.7	396.2	395.1	392.6	390.5	387.8	387.1	385.9	387.5	389.1
43°	394.5	394.6	392.7	391.2	389.1	387.7	384.3	383.8	382.6	383.6	385.1
43.5°	390.8	391.0	389.8	387.4	386.0	384.1	380.9	379.9	379.3	380.4	381.7
44°	387.4	387.2	386.2	383.8	382.3	380.0	377.4	376.4	375.8	377.0	378.0
44.5°	383.9	383.7	382.4	380.2	378.0	376.2	374.0	372.8	372.0	373.7	374.6

TEST NUMBER: P869745  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	380.3	379.6	378.7	376.7	374.8	372.7	370.2	369.3	368.3	369.5	371.0
45.5°	376.9	376.4	374.9	373.7	371.4	369.5	366.8	365.5	364.4	366.1	367.2
46°	373.0	373.0	371.3	369.7	367.8	365.8	362.3	361.7	360.5	362.3	363.9
46.5°	369.0	368.7	367.7	365.5	364.2	362.1	358.9	357.9	356.8	358.7	360.0
47°	365.4	365.0	363.7	362.1	360.6	358.3	355.0	354.2	353.2	354.8	356.5
47.5°	361.8	361.3	359.8	358.0	356.5	354.3	351.1	350.4	349.6	350.6	352.4
48°	358.1	357.9	355.8	354.4	352.5	350.6	347.7	346.8	345.7	346.8	348.2
48.5°	353.8	353.8	352.4	350.6	348.3	346.5	343.7	343.1	342.0	342.7	344.8
49°	350.1	350.1	348.7	346.8	344.6	342.5	340.1	339.2	337.9	339.0	340.6
49.5°	346.3	346.4	344.7	342.9	340.6	338.4	335.9	335.1	333.9	335.4	336.2
50°	342.7	342.5	340.4	338.8	336.9	334.8	331.7	331.4	330.0	331.6	332.6
50.5°	338.4	338.4	336.6	334.7	333.3	331.3	328.0	327.4	325.8	327.3	328.8
51°	334.2	334.3	332.5	330.9	329.4	326.9	323.7	323.0	321.9	322.9	324.7
51.5°	330.5	330.4	328.9	326.8	325.5	322.7	320.2	318.8	317.8	319.1	320.6
52°	326.8	326.1	324.9	322.9	320.9	319.2	316.3	315.2	313.6	315.1	316.5
52.5°	322.8	322.2	320.8	318.9	316.5	314.9	312.3	311.2	309.8	310.7	312.3
53°	318.7	318.3	316.6	314.7	312.5	310.3	308.0	306.8	305.4	307.2	308.4
53.5°	314.2	314.1	312.6	310.9	308.6	306.2	304.0	302.2	301.5	303.0	304.2
54°	310.4	310.3	308.8	306.4	304.3	302.4	299.5	298.2	297.1	298.4	300.2
54.5°	306.6	306.1	304.6	302.1	300.6	298.4	294.7	293.8	293.3	294.0	295.9
55°	302.0	301.7	300.7	297.8	296.4	294.1	290.7	290.0	289.1	289.9	291.5
55.5°	297.5	297.2	296.1	294.0	291.9	289.5	286.6	285.4	284.7	285.6	287.0
56°	293.7	293.0	291.5	289.6	287.4	285.1	282.5	281.2	280.5	281.4	283.1
56.5°	289.3	289.0	287.5	285.1	283.2	280.6	278.0	277.3	276.1	277.4	278.8
57°	284.8	284.8	282.9	280.6	279.0	276.5	273.7	272.8	271.4	273.1	274.7
57.5°	280.6	280.4	278.8	276.3	274.8	272.4	269.0	268.0	267.2	268.5	270.2
58°	276.3	275.6	274.5	271.8	270.3	267.8	264.6	263.6	262.8	263.9	265.5
58.5°	271.8	271.1	269.8	267.5	265.6	263.0	260.1	259.3	258.5	259.4	261.0
59°	267.5	267.1	265.2	263.1	261.4	258.8	256.0	254.8	253.8	255.0	256.4
59.5°	263.2	262.5	261.1	259.1	257.1	254.4	251.5	250.5	249.3	250.8	252.0
60°	258.6	258.1	256.3	254.6	252.4	249.9	247.3	246.1	245.0	246.4	247.9
60.5°	254.2	253.4	251.8	250.1	247.4	245.6	242.7	241.5	240.5	241.4	243.4
61°	249.7	248.7	247.3	245.3	243.1	241.0	238.3	236.8	236.0	237.2	238.9
61.5°	244.8	244.2	242.7	240.6	238.6	236.3	233.8	232.0	231.1	232.5	234.3
62°	240.5	239.6	238.2	235.9	234.0	231.7	229.2	227.7	226.5	227.9	229.6
62.5°	235.8	235.1	233.5	231.5	229.3	227.3	224.5	223.0	221.8	223.3	224.8
63°	231.4	230.5	228.9	226.9	224.9	222.6	219.7	218.6	217.3	218.5	220.0
63.5°	227.1	225.7	224.4	222.0	220.4	218.0	215.2	213.8	212.9	213.7	215.7
64°	222.1	221.3	219.7	217.5	215.9	213.3	210.2	209.1	208.2	209.2	211.1
64.5°	217.5	216.7	215.1	212.6	210.9	208.7	205.4	204.3	203.2	204.3	206.3
65°	213.0	212.2	210.4	207.9	206.3	203.9	200.7	199.6	198.6	199.7	201.5
65.5°	208.3	207.4	205.8	203.0	201.6	199.0	195.8	194.9	194.0	195.1	196.9
66°	203.1	202.6	200.7	198.3	196.8	194.3	191.1	190.0	189.3	190.2	192.1
66.5°	198.1	197.7	195.9	193.7	192.0	189.6	186.3	185.3	184.6	185.4	187.1
67°	193.7	192.7	191.1	188.8	187.3	184.8	182.0	180.4	179.8	180.6	182.4



TEST NUMBER: P869745  
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	188.7	187.9	186.2	183.7	182.5	180.0	177.1	175.5	175.0	175.7	177.4
68°	183.9	183.1	181.3	178.8	177.8	175.1	172.3	170.9	170.1	171.1	172.8
68.5°	179.0	178.3	176.6	174.3	172.8	170.3	167.3	166.2	165.2	166.1	168.1
69°	174.2	173.7	171.8	169.6	168.2	165.3	162.4	161.1	160.2	161.2	163.3
69.5°	169.5	168.9	166.9	164.3	163.1	160.2	157.5	156.0	155.4	156.1	158.5
70°	164.3	163.9	161.9	159.4	158.0	155.5	152.6	151.3	150.4	151.3	153.3
70.5°	159.4	159.0	156.9	154.6	153.3	150.8	148.0	146.6	145.8	146.7	148.6
71°	154.6	154.1	152.3	149.9	148.5	146.0	143.0	141.7	141.0	141.8	143.6
71.5°	149.8	149.4	147.3	144.6	143.5	141.0	138.0	136.6	136.0	136.9	138.7
72°	145.0	144.3	142.3	139.8	138.7	136.0	133.1	131.7	131.3	132.1	134.0
72.5°	140.1	139.1	137.3	135.0	133.8	131.2	128.4	127.1	126.3	127.2	129.1
73°	135.1	134.1	132.3	129.9	128.9	126.5	123.6	122.0	121.2	122.4	124.2
73.5°	130.0	129.3	127.6	125.1	123.9	121.4	118.7	117.1	116.4	117.8	119.3
74°	125.2	124.3	122.4	120.2	119.0	116.5	113.9	112.3	111.6	112.7	114.4
74.5°	120.2	119.4	117.7	115.0	114.2	111.7	109.0	107.6	106.9	107.9	109.5
75°	115.2	114.4	112.7	110.0	109.3	106.7	104.1	102.8	101.9	103.0	104.7
75.5°	110.4	109.7	107.9	105.3	104.4	101.9	99.5	97.8	97.2	98.5	100.0
76°	105.6	104.9	103.1	100.5	99.6	97.1	94.6	93.0	92.5	93.5	95.1
76.5°	100.7	100.0	98.2	95.7	94.9	92.3	89.8	88.4	87.6	88.7	90.3
77°	96.0	95.0	93.5	90.8	90.1	87.4	85.1	83.6	82.9	83.8	85.5
77.5°	91.3	90.2	88.8	86.1	85.2	82.7	80.4	78.9	78.2	79.2	80.9
78°	86.4	85.5	83.9	81.5	80.5	78.1	75.8	74.1	73.6	74.5	76.2
78.5°	81.7	80.8	79.2	76.8	75.9	73.4	71.0	69.6	69.0	69.9	71.5
79°	77.1	76.1	74.5	72.0	71.2	68.6	66.4	65.0	64.3	65.2	66.8
79.5°	72.4	71.5	69.9	67.5	66.6	64.2	61.9	60.7	60.0	61.0	62.4
80°	67.8	66.7	65.3	62.9	62.1	59.8	57.6	56.2	55.6	56.6	58.1
80.5°	63.3	62.3	60.9	58.5	57.8	55.4	53.3	51.9	51.2	52.3	53.9
81°	58.7	57.8	56.6	54.2	53.5	51.1	48.9	47.6	47.0	48.1	49.6
81.5°	54.3	53.5	52.1	49.8	49.1	46.8	44.7	43.5	43.0	43.7	45.3
82°	50.0	49.2	47.7	45.5	44.9	42.6	40.5	39.3	38.8	39.7	41.1
82.5°	45.6	45.0	43.3	41.2	40.7	38.5	36.7	35.3	34.8	35.7	37.1
83°	41.3	40.5	39.2	37.2	36.8	34.7	32.8	31.5	31.1	31.9	33.3
83.5°	37.4	36.5	35.2	33.4	32.9	30.8	28.9	27.8	27.4	28.1	29.4
84°	33.5	32.7	31.4	29.6	29.1	27.1	25.3	24.1	23.7	24.5	25.8
84.5°	29.7	29.0	27.8	26.0	25.5	23.6	21.8	20.7	20.4	21.2	22.3
85°	26.0	25.4	24.2	22.5	22.0	20.2	18.5	17.5	17.2	17.9	19.0
85.5°	22.5	21.9	20.8	19.2	18.6	16.9	15.3	14.6	14.3	14.8	15.9
86°	19.3	18.7	17.7	16.2	15.6	14.0	12.7	11.8	11.6	12.1	13.1
86.5°	16.2	15.8	14.9	13.5	12.8	11.5	10.3	9.6	9.4	10.0	10.7
87°	13.6	13.1	12.2	10.9	10.5	9.2	8.1	7.4	7.3	7.8	8.6
87.5°	11.0	10.6	9.8	8.6	8.2	7.1	6.0	5.4	5.4	5.9	6.6
88°	8.6	8.3	7.6	6.4	6.2	5.2	4.3	3.8	3.7	4.1	4.7
88.5°	6.4	6.1	5.5	4.6	4.5	3.5	2.7	2.2	2.1	2.5	3.1
89°	4.6	4.4	3.9	3.1	3.1	2.2	1.5	1.1	1.0	1.2	1.7
89.5°	3.2	3.0	2.6	2.0	1.7	1.1	0.5	1.0	0.8	1.1	0.6

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



TEST NUMBER: P869745  
CATALOG NUMBER: SMX18SLSFSD2W-1500LM-5000K

**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: P869745  
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	549.1	549.1	549.1	549.1	549.1	549.1
0.5°	549.5	548.4	549.8	548.7	548.7	548.9
1°	549.0	548.3	550.0	548.9	548.6	549.4
1.5°	548.8	548.9	549.6	548.9	548.7	548.9
2°	548.5	548.8	548.9	548.9	549.5	548.6
2.5°	548.2	547.9	549.6	548.5	548.6	548.5
3°	548.7	547.5	549.5	548.1	549.1	547.7
3.5°	548.3	548.1	548.8	547.8	548.6	548.1
4°	548.1	547.6	548.8	548.0	547.9	547.9
4.5°	548.1	547.0	548.4	547.7	547.8	547.8
5°	547.7	546.7	548.6	547.3	547.5	548.1
5.5°	546.4	546.1	548.3	547.0	547.8	547.7
6°	545.7	545.9	548.4	546.9	546.9	547.4
6.5°	545.1	546.1	547.7	546.8	546.7	546.9
7°	544.9	544.8	547.2	545.9	546.4	546.5
7.5°	544.2	544.7	546.5	545.5	546.3	545.6
8°	543.4	544.1	545.1	545.1	545.5	545.0
8.5°	542.5	543.0	544.4	544.2	544.1	544.4
9°	541.8	542.3	544.2	543.0	544.0	543.6
9.5°	540.4	541.7	543.3	542.3	542.8	542.3
10°	539.7	540.8	542.0	541.3	541.8	541.1
10.5°	538.5	539.6	541.1	539.5	541.6	540.4
11°	537.7	538.5	540.0	538.6	540.1	539.5
11.5°	536.2	537.1	538.9	538.1	538.8	538.3
12°	535.1	535.6	538.3	537.3	537.9	537.9
12.5°	534.0	534.8	536.5	535.8	537.1	536.9
13°	533.2	533.4	535.1	535.2	535.8	535.9
13.5°	531.9	532.6	534.1	534.2	534.7	534.8
14°	531.0	531.2	533.5	533.3	533.0	533.8
14.5°	530.0	530.2	531.6	531.8	532.2	532.6
15°	528.6	528.6	530.1	530.0	531.6	531.8
15.5°	526.3	527.7	529.0	528.2	530.6	530.0
16°	524.8	526.5	527.6	527.4	528.8	529.1
16.5°	523.4	524.6	526.3	525.9	527.8	527.4
17°	522.2	522.5	524.7	523.9	526.2	525.4
17.5°	520.6	521.3	523.9	522.3	524.7	524.2
18°	518.8	520.2	522.2	521.6	523.1	523.1
18.5°	517.2	518.7	520.1	520.2	521.0	521.3
19°	515.3	516.7	517.9	518.0	519.0	519.0
19.5°	513.3	515.1	516.2	515.9	517.4	517.4
20°	511.8	513.3	514.7	514.1	515.6	515.7
20.5°	510.7	511.8	512.4	512.6	514.0	513.8
21°	509.0	509.5	510.8	511.3	512.4	512.6
21.5°	506.9	506.9	508.9	509.7	511.0	510.8
22°	504.7	504.9	506.9	507.5	509.4	508.2

TEST NUMBER: P869745  
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	502.0	503.7	504.9	505.1	506.8	506.2
23°	500.3	501.7	503.3	503.2	504.4	504.4
23.5°	498.0	499.1	501.0	501.8	502.4	502.4
24°	496.0	497.0	499.4	499.0	500.3	500.4
24.5°	494.6	495.4	497.1	497.1	498.3	498.5
25°	492.2	493.2	494.8	495.6	496.8	496.3
25.5°	489.8	491.4	492.3	493.4	495.1	494.0
26°	487.6	488.3	490.2	490.9	492.3	492.1
26.5°	485.3	485.9	488.4	488.1	489.6	490.0
27°	482.6	483.4	486.4	486.0	487.6	487.5
27.5°	479.9	480.6	483.6	484.0	486.1	485.4
28°	477.6	478.1	480.9	482.2	483.5	483.3
28.5°	474.8	476.4	478.3	479.4	480.8	479.8
29°	472.8	474.0	476.4	476.9	477.7	477.8
29.5°	470.4	471.2	473.7	474.3	475.9	474.8
30°	468.3	468.6	470.9	471.3	473.6	473.3
30.5°	464.8	466.7	467.8	468.2	470.7	470.4
31°	462.1	462.9	465.5	466.1	467.9	467.3
31.5°	459.3	460.4	463.2	463.0	465.6	464.7
32°	457.2	457.9	460.6	460.5	463.2	462.1
32.5°	454.7	455.5	457.7	458.0	460.8	459.4
33°	451.7	452.7	455.1	455.9	457.7	456.8
33.5°	448.0	449.7	452.2	452.9	455.0	453.9
34°	445.5	446.8	449.0	449.6	451.8	450.7
34.5°	442.2	444.0	446.2	446.8	448.9	447.7
35°	439.4	441.0	443.3	444.2	446.1	445.8
35.5°	436.8	437.6	440.6	441.3	442.9	442.9
36°	433.8	434.3	437.3	438.3	439.7	439.4
36.5°	430.8	431.2	434.3	434.5	436.8	436.3
37°	427.7	428.1	431.6	431.6	433.6	433.8
37.5°	424.1	425.4	428.4	428.3	431.0	430.8
38°	420.8	422.1	425.3	425.5	428.0	427.6
38.5°	417.6	419.0	421.8	422.5	425.0	423.8
39°	414.2	416.2	418.9	419.3	420.9	420.9
39.5°	411.1	413.2	415.6	415.7	417.8	417.6
40°	407.7	409.6	412.4	413.1	414.4	414.9
40.5°	404.9	406.1	408.9	409.9	411.2	411.7
41°	401.8	403.0	405.5	406.6	407.6	408.3
41.5°	398.0	399.9	402.1	403.0	404.5	405.0
42°	394.7	396.2	399.0	399.3	401.7	401.4
42.5°	390.6	392.2	395.3	395.7	398.2	398.0
43°	387.0	389.1	391.3	392.6	394.9	394.5
43.5°	383.3	385.2	387.5	389.3	391.1	390.8
44°	380.0	381.3	383.8	385.5	387.5	387.4
44.5°	376.4	378.3	381.0	381.3	384.0	383.9

TEST NUMBER: P869745  
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	372.8	375.0	377.6	377.7	379.9	380.3
45.5°	368.9	371.4	373.8	374.2	376.1	376.9
46°	365.3	367.6	370.2	370.7	372.6	373.0
46.5°	361.6	363.7	366.5	367.6	369.0	369.0
47°	357.8	360.0	362.8	363.7	365.3	365.4
47.5°	353.9	356.4	359.0	359.8	361.3	361.8
48°	350.2	352.5	355.2	356.0	357.8	358.1
48.5°	346.4	348.2	351.3	352.3	354.1	353.8
49°	342.3	344.3	347.1	348.3	350.1	350.1
49.5°	338.5	340.5	343.0	344.5	346.4	346.3
50°	334.6	336.1	338.9	340.9	342.3	342.7
50.5°	330.5	332.3	334.9	337.0	338.1	338.4
51°	326.7	328.7	331.3	332.6	334.3	334.2
51.5°	322.8	324.4	327.5	328.5	330.6	330.5
52°	318.8	320.2	323.6	324.3	326.8	326.8
52.5°	314.6	316.4	319.6	320.8	322.7	322.8
53°	310.4	312.4	315.5	316.9	318.9	318.7
53.5°	306.7	308.4	311.2	312.1	314.6	314.2
54°	302.3	304.1	307.1	308.0	310.4	310.4
54.5°	298.1	299.7	302.9	304.2	305.9	306.6
55°	294.0	295.5	298.6	299.9	302.0	302.0
55.5°	289.8	291.2	294.2	295.9	298.0	297.5
56°	285.6	287.0	290.1	291.6	293.7	293.7
56.5°	281.2	282.6	285.8	287.0	289.5	289.3
57°	276.6	278.2	281.4	282.7	285.1	284.8
57.5°	272.1	273.7	276.9	277.8	280.5	280.6
58°	267.9	269.4	272.4	273.9	276.3	276.3
58.5°	263.8	264.9	267.7	269.8	271.8	271.8
59°	259.4	260.6	263.3	265.5	267.5	267.5
59.5°	254.6	256.1	258.7	260.9	263.0	263.2
60°	250.4	251.3	254.6	256.3	258.6	258.6
60.5°	245.4	246.8	249.8	251.7	254.1	254.2
61°	240.9	242.2	245.4	247.1	249.4	249.7
61.5°	236.4	238.0	241.2	242.4	244.7	244.8
62°	231.8	233.4	236.6	237.9	240.3	240.5
62.5°	227.3	228.8	232.1	233.5	235.7	235.8
63°	222.6	223.9	227.3	228.6	231.3	231.4
63.5°	218.0	219.3	222.7	224.1	226.5	227.1
64°	213.4	214.9	218.0	219.4	221.4	222.1
64.5°	208.7	210.3	213.5	215.0	216.7	217.5
65°	204.0	205.5	208.4	210.3	212.1	213.0
65.5°	199.5	200.8	203.7	205.4	207.4	208.3
66°	194.7	195.7	199.0	200.7	202.7	203.1
66.5°	189.8	191.2	194.2	196.2	198.0	198.1
67°	184.9	186.4	189.4	191.4	193.4	193.7

TEST NUMBER: P869745  
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	180.2	181.5	184.3	186.2	188.6	188.7
68°	175.3	176.5	179.5	181.6	183.7	183.9
68.5°	170.6	171.8	174.8	176.8	178.6	179.0
69°	166.1	167.1	169.7	171.8	173.8	174.2
69.5°	161.1	162.3	164.9	166.9	169.0	169.5
70°	156.1	157.3	159.9	162.3	164.1	164.3
70.5°	151.3	152.2	155.2	157.3	159.3	159.4
71°	146.3	147.3	150.3	152.2	154.4	154.6
71.5°	141.3	142.5	145.3	147.6	149.6	149.8
72°	136.3	137.7	140.5	142.6	144.4	145.0
72.5°	131.7	132.6	135.6	137.5	139.4	140.1
73°	126.8	127.5	130.5	132.5	134.5	135.1
73.5°	122.0	122.8	126.0	127.7	129.6	130.0
74°	117.1	117.8	120.8	122.6	124.8	125.2
74.5°	112.3	112.9	115.9	117.9	119.7	120.2
75°	107.3	108.0	110.9	113.1	114.7	115.2
75.5°	102.5	103.2	106.2	108.1	109.8	110.4
76°	97.7	98.3	101.2	103.2	105.0	105.6
76.5°	92.9	93.6	96.4	98.5	100.1	100.7
77°	88.0	88.7	91.6	93.5	95.4	96.0
77.5°	83.2	84.1	86.8	89.0	90.8	91.3
78°	78.6	79.4	82.2	84.2	86.0	86.4
78.5°	73.9	74.7	77.6	79.6	81.3	81.7
79°	69.4	70.1	72.9	74.8	76.4	77.1
79.5°	64.7	65.6	68.2	70.2	71.9	72.4
80°	60.3	61.0	63.6	65.5	67.3	67.8
80.5°	56.0	56.6	59.3	61.1	62.8	63.3
81°	51.7	52.3	54.9	56.8	58.4	58.7
81.5°	47.5	47.9	50.5	52.4	53.9	54.3
82°	43.2	43.6	46.2	48.1	49.6	50.0
82.5°	39.2	39.6	41.9	43.7	45.3	45.6
83°	35.4	35.6	37.7	39.5	41.1	41.3
83.5°	31.4	31.7	33.8	35.5	37.1	37.4
84°	27.7	28.0	30.1	31.6	33.0	33.5
84.5°	24.1	24.5	26.4	28.0	29.4	29.7
85°	20.8	21.2	23.0	24.5	25.6	26.0
85.5°	17.5	17.9	19.7	21.2	22.2	22.5
86°	14.6	15.1	16.5	17.9	19.1	19.3
86.5°	11.9	12.4	13.8	15.1	16.0	16.2
87°	9.7	10.0	11.3	12.3	13.2	13.6
87.5°	7.6	7.8	9.0	9.9	10.7	11.0
88°	5.7	5.6	6.7	7.8	8.5	8.6
88.5°	3.9	3.8	4.6	5.5	6.2	6.4
89°	2.5	2.5	3.1	3.8	4.3	4.6
89.5°	1.2	1.4	1.9	2.4	3.0	3.2

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869745  
CATALOG NUMBER: SMX18SLSFSD2W-1500LM-5000K

**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)