

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: P869741

Luminaire Tested: **SMX18SLSFSD2W-1500LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869741  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18SLSFSD2W-1500LM-2700K  
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT  
 Ballast/Driver: -

**Summary**

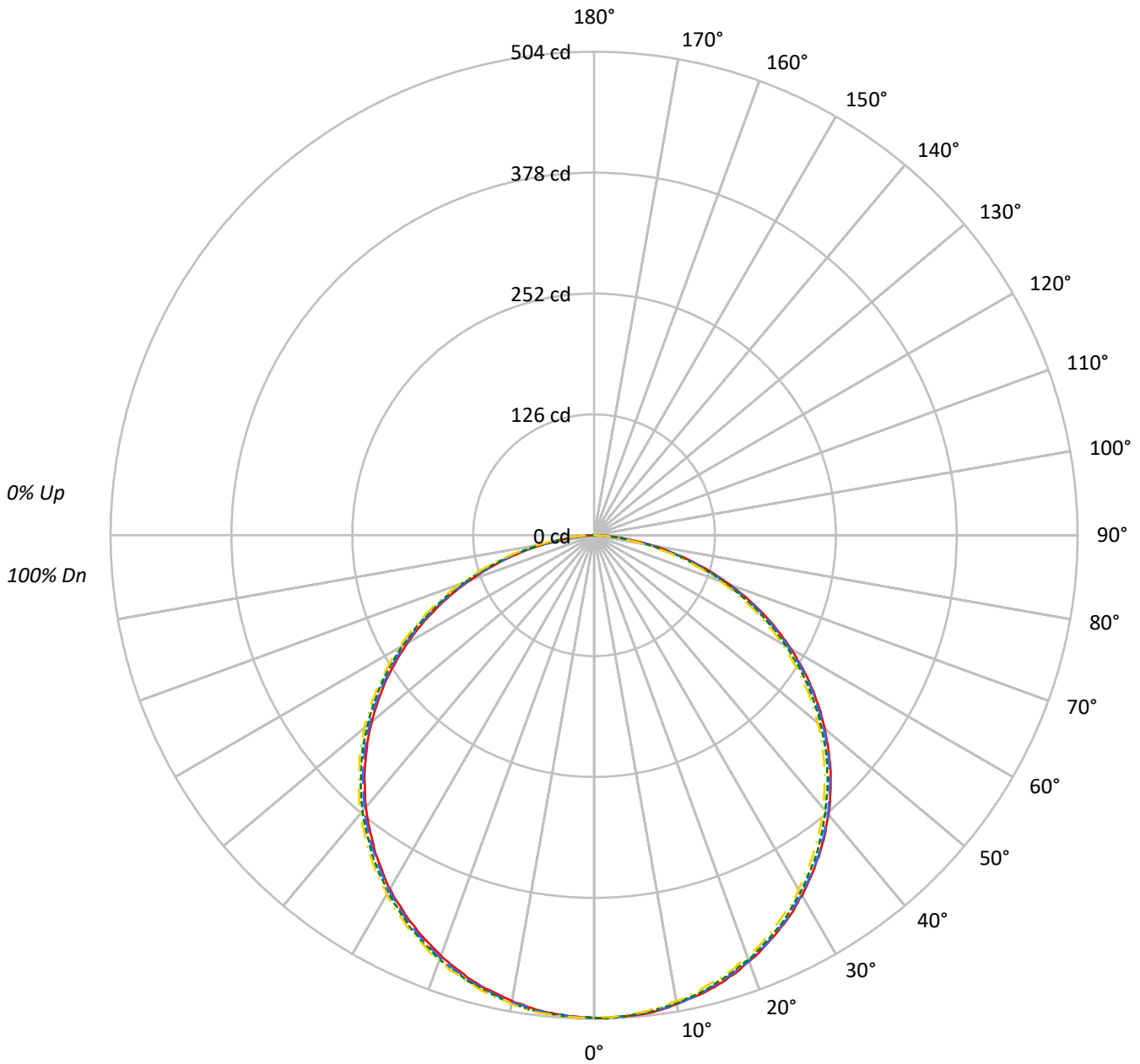
Lumens per Lamp: N/A  
 Luminaire Lumens: 1469.2 lumens  
 Efficiency: N/A  
 Efficacy: 89.0 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
 CIE Type: Direct

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	52	52	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

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

	0°	90°	180°	270°
0°	2408	2408	2408	2408
5°	2413	2407	2401	2406
10°	2409	2407	2394	2408
15°	2414	2398	2386	2400
20°	2407	2398	2376	2396
25°	2401	2389	2362	2386
30°	2397	2375	2352	2373
35°	2387	2364	2333	2361
40°	2375	2344	2312	2345
45°	2358	2324	2284	2325
50°	2338	2298	2251	2293
55°	2309	2266	2211	2259
60°	2269	2214	2148	2204
65°	2210	2141	2060	2133
70°	2106	2027	1929	2017
75°	1952	1852	1726	1830
80°	1711	1568	1405	1540
85°	1312	1103	867	1065

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	3.2
10°-20°	136.8	9.3
20°-30°	208.3	14.2
30°-40°	252.9	17.2
40°-50°	264.9	18.0
50°-60°	242.2	16.5
60°-70°	186.4	12.7
70°-80°	105.4	7.2
80°-90°	24.8	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>392.8</b>	<b>26.7</b>
<b>0°-40°</b>	<b>645.6</b>	<b>43.9</b>
<b>0°-60°</b>	<b>1152.6</b>	<b>78.5</b>
<b>0°-90°</b>	<b>1469.2</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>1469.2</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	503	503	503	503	503	
5°	502	501	500	501	502	48
15°	487	484	482	484	487	137
25°	455	453	447	452	455	210
35°	409	405	400	404	409	255
45°	349	344	338	344	349	269
55°	277	272	265	271	277	247
65°	195	189	182	188	195	193
75°	106	100	93	99	106	112
85°	24	20	16	19	24	29
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°	503.3	503.3	503.3	503.3	503.3	503.3	503.3	503.3	503.3	503.3	503.3
0.5°	503.2	503.0	503.4	502.9	503.5	503.9	502.9	503.3	502.9	503.2	502.7
1°	503.6	502.7	503.4	503.3	503.2	503.4	502.6	502.9	502.6	503.0	503.3
1.5°	503.1	503.1	502.9	503.3	503.8	503.3	502.2	502.8	502.8	502.6	503.1
2°	502.8	502.5	502.7	503.1	503.6	503.1	502.9	502.2	502.1	502.2	502.2
2.5°	502.8	503.0	502.6	503.1	503.2	503.1	502.3	502.2	502.0	502.0	502.0
3°	502.1	503.1	502.4	502.6	502.7	502.6	501.7	502.5	501.9	501.5	502.1
3.5°	502.4	503.2	502.3	502.6	502.8	502.2	501.7	502.1	501.3	501.4	501.4
4°	502.2	502.6	502.1	502.7	502.5	501.9	500.6	501.7	500.8	501.6	500.8
4.5°	502.2	502.6	501.5	502.5	502.0	501.8	500.6	500.7	500.8	501.0	500.7
5°	502.4	502.1	501.5	501.8	501.3	501.6	500.2	500.4	500.0	499.8	501.1
5.5°	502.0	501.8	501.0	500.9	500.8	500.9	500.0	499.7	499.9	499.2	500.4
6°	501.8	501.8	500.7	501.0	500.8	499.9	499.7	499.5	499.5	498.8	499.5
6.5°	501.3	501.6	500.3	500.1	500.2	500.0	498.9	498.8	498.7	498.4	499.1
7°	501.0	501.1	499.8	499.9	499.7	499.4	497.5	497.9	498.1	497.6	499.0
7.5°	500.1	500.0	499.1	498.9	498.4	498.9	497.5	497.3	497.1	496.9	498.1
8°	499.6	498.9	498.8	498.8	497.6	498.3	497.0	496.5	496.6	496.3	496.6
8.5°	499.0	498.3	498.6	497.6	497.3	497.7	496.2	496.0	495.1	495.8	496.1
9°	498.3	497.5	497.8	497.2	496.6	497.0	495.0	495.3	494.5	494.8	495.3
9.5°	497.1	497.1	496.6	496.1	496.1	496.3	493.7	494.1	494.3	494.1	495.1
10°	496.0	496.1	495.7	495.8	495.5	495.3	493.1	493.1	492.9	493.8	494.3
10.5°	495.4	495.4	495.3	494.5	494.6	494.0	492.5	492.2	491.9	492.6	493.2
11°	494.5	494.5	494.6	494.1	493.5	493.2	491.4	491.9	490.9	491.2	492.1
11.5°	493.4	494.1	493.3	492.7	491.9	492.5	490.5	490.6	489.4	490.6	491.2
12°	493.0	492.8	492.7	491.7	491.4	491.7	489.0	490.2	488.7	489.2	490.6
12.5°	492.2	491.8	492.3	490.8	490.7	490.7	488.0	489.1	487.4	488.2	489.3
13°	491.2	491.5	491.0	489.6	489.6	489.5	487.2	487.6	486.5	487.4	487.7
13.5°	490.3	490.6	489.3	488.7	488.6	488.3	485.8	486.8	486.0	486.4	486.3
14°	489.3	489.5	488.2	488.0	487.5	486.2	484.1	485.4	484.8	485.5	485.6
14.5°	488.2	488.0	486.9	486.4	486.2	485.4	482.8	483.9	483.3	484.0	484.5
15°	487.4	486.7	485.9	485.7	484.2	484.5	482.0	482.7	481.8	482.2	483.6
15.5°	485.8	485.6	484.8	484.1	483.1	483.1	481.1	481.2	480.8	480.8	482.4
16°	485.0	484.2	483.2	483.0	482.3	482.0	479.7	479.9	479.5	479.9	481.1
16.5°	483.4	482.9	481.9	481.4	480.6	480.7	478.3	478.6	477.4	478.6	479.6
17°	481.6	481.2	480.5	480.6	479.2	479.3	476.9	477.5	475.8	476.7	477.6
17.5°	480.6	480.0	479.3	478.5	477.4	477.8	475.6	476.0	474.4	475.1	476.2
18°	479.5	478.8	477.9	477.1	476.4	476.0	474.3	474.2	472.9	473.6	474.9
18.5°	477.8	477.4	476.5	475.5	474.5	474.7	472.0	472.2	471.7	472.0	472.8
19°	475.8	476.2	474.9	474.0	473.5	473.0	470.5	470.7	469.8	470.5	470.8
19.5°	474.2	474.9	473.8	472.5	471.8	471.5	469.2	469.0	468.4	468.9	469.6
20°	472.7	472.8	472.3	471.3	471.0	470.1	467.5	467.3	466.7	467.2	468.4
20.5°	471.0	470.9	470.1	469.3	469.2	468.2	466.0	465.6	464.5	465.4	467.3
21°	469.9	469.1	468.5	467.8	467.2	466.5	464.4	463.8	462.9	464.2	465.1
21.5°	468.2	467.8	467.2	466.6	465.3	464.7	462.5	461.8	461.0	462.6	463.0
22°	465.9	465.8	465.4	465.0	463.7	462.5	461.1	461.0	459.1	460.2	461.4

TEST NUMBER: P869741  
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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°	464.0	464.0	464.0	462.9	461.6	460.5	459.2	458.8	457.3	458.3	459.3
23°	462.4	462.1	462.0	460.7	459.7	459.4	457.0	457.2	455.5	456.7	457.6
23.5°	460.5	460.7	459.8	458.8	458.1	457.4	455.0	455.4	453.9	455.2	455.7
24°	458.7	458.9	457.8	457.5	455.9	455.4	453.3	452.9	452.0	452.7	453.8
24.5°	456.9	456.8	455.9	455.2	454.1	453.4	450.5	450.5	449.3	450.2	451.7
25°	454.9	454.4	454.1	453.1	452.6	451.4	448.5	449.0	447.4	448.3	449.4
25.5°	452.8	452.6	451.9	450.9	450.4	449.4	446.9	447.2	445.9	446.3	447.4
26°	451.1	450.8	449.9	448.9	448.8	447.3	444.7	445.0	443.7	444.5	446.0
26.5°	449.1	449.0	448.3	446.8	446.2	444.9	442.5	442.9	441.7	442.1	443.5
27°	446.9	446.8	446.2	444.8	444.3	442.5	440.6	440.7	439.1	439.7	441.0
27.5°	445.0	445.1	443.6	443.0	441.8	440.1	438.5	438.5	436.7	437.6	438.6
28°	443.0	442.2	441.5	441.0	438.9	438.0	436.3	435.7	434.9	436.2	436.5
28.5°	439.9	440.0	439.2	438.7	436.4	435.4	433.9	433.6	432.8	433.8	433.9
29°	438.0	438.0	436.8	436.3	434.5	433.7	431.6	431.3	430.8	431.5	431.9
29.5°	435.2	436.1	435.0	434.0	432.1	431.5	429.4	428.8	427.9	429.0	429.6
30°	433.9	433.6	432.4	431.3	429.9	428.6	426.8	426.3	425.8	426.3	427.1
30.5°	431.2	430.9	429.9	428.6	427.8	426.1	424.0	423.9	423.5	423.6	424.3
31°	428.4	428.1	427.5	426.4	425.1	423.5	421.5	421.2	420.9	421.3	422.3
31.5°	426.0	425.5	425.4	423.9	422.6	421.0	418.6	418.3	418.1	418.4	419.5
32°	423.6	423.4	422.4	421.7	419.9	419.0	416.2	416.2	415.5	415.9	417.0
32.5°	421.1	421.0	420.4	418.9	417.2	416.8	413.7	413.2	412.5	413.5	414.1
33°	418.8	418.5	418.2	416.6	415.1	414.1	411.3	410.6	409.9	410.8	411.9
33.5°	416.1	416.0	415.6	413.7	412.2	411.5	408.5	408.6	407.4	408.1	408.8
34°	413.1	413.8	412.8	411.2	410.1	408.5	406.2	406.2	404.6	405.6	406.3
34.5°	410.4	411.2	410.4	408.3	407.4	406.0	403.8	403.1	402.4	402.7	403.7
35°	408.7	408.4	407.8	405.4	404.7	403.3	400.7	400.2	399.5	400.1	401.2
35.5°	406.0	405.7	405.1	403.3	401.9	400.3	397.6	397.1	396.1	397.8	398.3
36°	402.8	402.7	402.4	400.6	399.1	396.9	394.9	395.1	393.3	395.0	396.0
36.5°	400.0	400.1	398.9	398.1	395.9	394.2	391.9	391.9	390.5	391.9	392.6
37°	397.7	397.6	396.3	394.9	393.0	391.5	389.0	389.3	387.5	388.6	389.5
37.5°	394.9	394.3	393.9	391.9	390.5	388.4	386.4	385.9	384.7	385.7	386.9
38°	392.0	391.6	390.7	389.5	387.4	385.5	383.8	382.6	382.0	383.2	384.2
38.5°	388.5	388.8	387.7	386.1	384.0	382.6	380.9	379.7	379.0	380.6	381.5
39°	385.8	385.6	385.2	383.2	381.0	380.1	377.6	377.0	375.9	377.6	378.4
39.5°	382.8	382.6	382.4	379.9	378.2	377.1	374.6	373.8	373.2	373.9	375.0
40°	380.3	379.5	379.4	376.9	375.3	373.8	371.8	370.9	370.2	371.0	371.8
40.5°	377.4	376.8	376.3	373.8	372.0	370.5	368.3	368.1	367.0	367.7	368.9
41°	374.3	373.8	372.9	371.4	369.1	367.4	365.0	364.6	364.0	364.2	365.8
41.5°	371.2	370.8	369.8	368.3	366.0	364.7	362.0	361.2	360.2	361.3	362.6
42°	367.9	367.3	366.7	365.1	363.0	361.0	358.8	358.2	357.0	358.1	359.4
42.5°	364.8	364.5	363.2	362.2	359.9	358.0	355.5	354.8	353.7	355.2	356.7
43°	361.6	361.7	360.0	358.6	356.7	355.4	352.3	351.9	350.7	351.7	353.0
43.5°	358.3	358.4	357.4	355.1	353.8	352.1	349.2	348.2	347.7	348.7	349.9
44°	355.1	354.9	354.0	351.9	350.5	348.3	346.0	345.0	344.5	345.5	346.5
44.5°	351.9	351.8	350.6	348.5	346.5	344.9	342.9	341.7	341.0	342.5	343.3

TEST NUMBER: P869741  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	348.6	348.0	347.1	345.3	343.5	341.6	339.4	338.6	337.6	338.7	340.1
45.5°	345.5	345.0	343.6	342.6	340.5	338.7	336.2	335.1	334.0	335.6	336.6
46°	341.9	342.0	340.4	338.9	337.2	335.3	332.1	331.5	330.5	332.1	333.5
46.5°	338.2	338.0	337.1	335.1	333.8	331.9	329.0	328.1	327.1	328.8	330.0
47°	335.0	334.6	333.4	331.9	330.5	328.4	325.4	324.7	323.7	325.3	326.8
47.5°	331.6	331.2	329.8	328.2	326.8	324.8	321.9	321.2	320.5	321.4	323.0
48°	328.2	328.0	326.2	324.9	323.1	321.4	318.7	317.9	316.9	317.9	319.2
48.5°	324.3	324.3	323.0	321.4	319.3	317.7	315.1	314.5	313.5	314.2	316.1
49°	320.9	321.0	319.6	317.9	315.9	314.0	311.7	310.9	309.8	310.8	312.2
49.5°	317.4	317.6	316.0	314.3	312.2	310.2	307.9	307.2	306.1	307.5	308.2
50°	314.1	313.9	312.1	310.5	308.8	306.9	304.1	303.8	302.5	304.0	304.9
50.5°	310.2	310.2	308.6	306.8	305.5	303.7	300.7	300.1	298.7	300.0	301.4
51°	306.4	306.4	304.8	303.3	301.9	299.7	296.7	296.1	295.0	296.0	297.6
51.5°	302.9	302.8	301.4	299.6	298.4	295.8	293.5	292.3	291.3	292.5	293.9
52°	299.6	298.9	297.8	296.0	294.2	292.6	289.9	288.9	287.5	288.8	290.1
52.5°	295.9	295.3	294.1	292.3	290.1	288.7	286.3	285.2	283.9	284.8	286.3
53°	292.1	291.8	290.2	288.5	286.5	284.4	282.3	281.3	280.0	281.6	282.7
53.5°	288.0	287.9	286.5	285.0	282.9	280.7	278.7	277.0	276.3	277.8	278.8
54°	284.6	284.4	283.1	280.9	278.9	277.2	274.5	273.4	272.3	273.6	275.2
54.5°	281.0	280.6	279.2	276.9	275.6	273.6	270.2	269.3	268.9	269.5	271.3
55°	276.8	276.6	275.6	273.0	271.7	269.6	266.4	265.8	265.1	265.7	267.2
55.5°	272.8	272.4	271.4	269.5	267.6	265.4	262.7	261.6	260.9	261.8	263.0
56°	269.2	268.5	267.2	265.5	263.4	261.3	258.9	257.8	257.1	257.9	259.5
56.5°	265.2	264.9	263.6	261.3	259.6	257.2	254.8	254.2	253.1	254.3	255.6
57°	261.1	261.0	259.4	257.2	255.7	253.5	250.9	250.1	248.8	250.4	251.8
57.5°	257.2	257.0	255.6	253.3	251.9	249.7	246.6	245.6	244.9	246.1	247.6
58°	253.3	252.7	251.6	249.2	247.8	245.4	242.5	241.6	240.9	241.9	243.3
58.5°	249.1	248.5	247.3	245.2	243.5	241.1	238.5	237.7	237.0	237.7	239.3
59°	245.2	244.9	243.1	241.2	239.6	237.2	234.7	233.6	232.6	233.8	235.1
59.5°	241.3	240.7	239.3	237.5	235.6	233.2	230.5	229.6	228.6	229.9	231.0
60°	237.1	236.6	235.0	233.4	231.4	229.1	226.7	225.6	224.5	225.8	227.3
60.5°	233.0	232.3	230.9	229.3	226.8	225.1	222.5	221.4	220.4	221.3	223.1
61°	228.9	228.0	226.7	224.9	222.9	220.9	218.4	217.1	216.3	217.4	219.0
61.5°	224.4	223.8	222.5	220.5	218.7	216.6	214.3	212.7	211.9	213.1	214.7
62°	220.5	219.7	218.3	216.3	214.5	212.4	210.1	208.7	207.7	208.9	210.5
62.5°	216.2	215.5	214.1	212.2	210.2	208.4	205.8	204.4	203.3	204.7	206.1
63°	212.1	211.2	209.8	208.0	206.1	204.1	201.4	200.4	199.2	200.3	201.7
63.5°	208.2	206.9	205.7	203.5	202.1	199.8	197.3	196.0	195.2	195.9	197.7
64°	203.5	202.9	201.4	199.4	198.0	195.5	192.7	191.6	190.8	191.7	193.5
64.5°	199.4	198.6	197.1	194.9	193.3	191.3	188.3	187.3	186.3	187.3	189.1
65°	195.2	194.5	192.9	190.6	189.1	186.9	183.9	183.0	182.0	183.1	184.7
65.5°	190.9	190.1	188.7	186.1	184.8	182.5	179.5	178.7	177.8	178.8	180.4
66°	186.1	185.7	184.0	181.7	180.4	178.1	175.2	174.1	173.6	174.4	176.1
66.5°	181.6	181.2	179.6	177.5	176.0	173.8	170.8	169.9	169.2	169.9	171.5
67°	177.5	176.6	175.2	173.1	171.7	169.4	166.8	165.4	164.8	165.5	167.2



TEST NUMBER: P869741  
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	173.0	172.2	170.7	168.4	167.3	165.0	162.4	160.8	160.4	161.0	162.6
68°	168.5	167.9	166.2	163.9	162.9	160.5	157.9	156.7	156.0	156.8	158.4
68.5°	164.1	163.5	161.9	159.8	158.4	156.1	153.4	152.3	151.4	152.3	154.1
69°	159.7	159.2	157.5	155.5	154.2	151.5	148.8	147.6	146.9	147.7	149.6
69.5°	155.4	154.8	153.0	150.6	149.5	146.9	144.4	143.0	142.4	143.1	145.3
70°	150.6	150.3	148.4	146.1	144.9	142.6	139.8	138.7	137.9	138.7	140.5
70.5°	146.2	145.8	143.8	141.7	140.6	138.2	135.6	134.3	133.6	134.5	136.2
71°	141.7	141.3	139.6	137.4	136.1	133.8	131.1	129.9	129.2	130.0	131.6
71.5°	137.3	136.9	135.1	132.6	131.5	129.3	126.5	125.3	124.6	125.5	127.1
72°	132.9	132.2	130.4	128.1	127.1	124.6	122.0	120.7	120.3	121.1	122.8
72.5°	128.4	127.5	125.8	123.8	122.6	120.3	117.7	116.5	115.8	116.6	118.3
73°	123.9	123.0	121.3	119.1	118.2	115.9	113.3	111.9	111.1	112.2	113.9
73.5°	119.2	118.5	117.0	114.6	113.6	111.2	108.8	107.3	106.7	108.0	109.3
74°	114.7	114.0	112.2	110.2	109.0	106.8	104.4	103.0	102.3	103.3	104.9
74.5°	110.2	109.4	107.9	105.4	104.7	102.4	100.0	98.6	98.0	98.9	100.4
75°	105.6	104.9	103.3	100.9	100.2	97.8	95.4	94.2	93.4	94.5	95.9
75.5°	101.2	100.6	98.9	96.6	95.7	93.4	91.2	89.6	89.1	90.2	91.6
76°	96.8	96.2	94.5	92.1	91.3	89.0	86.7	85.2	84.8	85.7	87.2
76.5°	92.3	91.7	90.0	87.7	87.0	84.6	82.3	81.1	80.3	81.3	82.8
77°	88.0	87.1	85.7	83.3	82.5	80.1	78.0	76.6	76.0	76.9	78.3
77.5°	83.7	82.7	81.4	79.0	78.1	75.8	73.7	72.3	71.7	72.6	74.1
78°	79.2	78.3	77.0	74.7	73.8	71.6	69.5	67.9	67.5	68.3	69.8
78.5°	74.8	74.0	72.6	70.4	69.6	67.3	65.1	63.8	63.2	64.1	65.5
79°	70.6	69.8	68.3	66.0	65.2	62.9	60.8	59.6	59.0	59.8	61.2
79.5°	66.4	65.6	64.1	61.9	61.0	58.8	56.8	55.6	55.0	55.9	57.2
80°	62.1	61.1	59.9	57.7	56.9	54.8	52.8	51.5	51.0	51.9	53.3
80.5°	58.0	57.1	55.9	53.6	53.0	50.8	48.8	47.6	46.9	47.9	49.4
81°	53.9	53.0	51.9	49.6	49.0	46.9	44.8	43.6	43.1	44.0	45.4
81.5°	49.8	49.1	47.8	45.7	45.0	42.9	41.0	39.8	39.4	40.1	41.5
82°	45.8	45.1	43.7	41.7	41.1	39.1	37.2	36.0	35.6	36.3	37.7
82.5°	41.8	41.3	39.7	37.7	37.3	35.3	33.6	32.4	31.9	32.7	34.0
83°	37.9	37.2	35.9	34.1	33.7	31.8	30.0	28.9	28.5	29.3	30.5
83.5°	34.3	33.5	32.2	30.6	30.1	28.2	26.5	25.5	25.1	25.8	27.0
84°	30.7	30.0	28.7	27.2	26.7	24.8	23.2	22.1	21.7	22.5	23.7
84.5°	27.3	26.6	25.5	23.8	23.4	21.6	20.0	19.0	18.7	19.4	20.4
85°	23.9	23.3	22.2	20.6	20.1	18.5	17.0	16.0	15.8	16.4	17.5
85.5°	20.6	20.1	19.1	17.6	17.1	15.5	14.1	13.3	13.1	13.6	14.6
86°	17.7	17.1	16.2	14.8	14.3	12.8	11.6	10.8	10.6	11.1	12.0
86.5°	14.9	14.5	13.7	12.4	11.8	10.5	9.4	8.8	8.6	9.2	9.8
87°	12.4	12.0	11.2	10.0	9.6	8.5	7.4	6.8	6.7	7.1	7.9
87.5°	10.1	9.7	9.0	7.9	7.5	6.5	5.5	5.0	5.0	5.4	6.0
88°	7.9	7.6	6.9	5.9	5.6	4.7	3.9	3.4	3.4	3.7	4.3
88.5°	5.9	5.6	5.1	4.2	4.1	3.2	2.5	2.1	2.0	2.3	2.8
89°	4.2	4.0	3.5	2.9	2.9	2.0	1.3	1.0	0.9	1.1	1.6
89.5°	2.9	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



TEST NUMBER: P869741  
CATALOG NUMBER: SMX18SLSFSD2W-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

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

TEST NUMBER: P869741  
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	503.3	503.3	503.3	503.3	503.3	503.3
0.5°	503.7	502.7	504.0	503.0	502.9	503.2
1°	503.3	502.6	504.2	503.1	502.8	503.6
1.5°	503.1	503.1	503.8	503.1	503.0	503.1
2°	502.8	503.0	503.2	503.1	503.7	502.8
2.5°	502.5	502.3	503.8	502.8	502.8	502.8
3°	503.0	501.9	503.7	502.4	503.3	502.1
3.5°	502.6	502.4	503.1	502.2	502.9	502.4
4°	502.4	502.0	503.0	502.3	502.3	502.2
4.5°	502.4	501.5	502.7	502.1	502.2	502.2
5°	502.0	501.1	502.8	501.7	501.9	502.4
5.5°	500.8	500.6	502.6	501.5	502.1	502.0
6°	500.2	500.4	502.7	501.3	501.3	501.8
6.5°	499.7	500.6	502.1	501.3	501.1	501.3
7°	499.5	499.4	501.6	500.4	500.9	501.0
7.5°	498.8	499.3	500.9	500.1	500.8	500.1
8°	498.1	498.7	499.7	499.7	500.1	499.6
8.5°	497.3	497.7	499.0	498.9	498.7	499.0
9°	496.6	497.1	498.9	497.7	498.6	498.3
9.5°	495.4	496.5	498.0	497.1	497.6	497.1
10°	494.7	495.8	496.8	496.2	496.6	496.0
10.5°	493.6	494.7	496.0	494.5	496.4	495.4
11°	492.9	493.6	495.0	493.8	495.1	494.5
11.5°	491.5	492.4	494.0	493.2	493.9	493.4
12°	490.5	490.9	493.4	492.5	493.1	493.0
12.5°	489.5	490.3	491.8	491.2	492.3	492.2
13°	488.8	489.0	490.5	490.6	491.2	491.2
13.5°	487.5	488.3	489.6	489.7	490.1	490.3
14°	486.7	487.0	489.0	488.8	488.6	489.3
14.5°	485.8	486.1	487.3	487.5	487.9	488.2
15°	484.5	484.5	485.9	485.8	487.3	487.4
15.5°	482.4	483.7	484.9	484.2	486.4	485.8
16°	481.1	482.6	483.6	483.4	484.7	485.0
16.5°	479.7	480.9	482.4	482.1	483.8	483.4
17°	478.7	478.9	481.0	480.2	482.4	481.6
17.5°	477.2	477.8	480.2	478.8	481.0	480.6
18°	475.5	476.8	478.7	478.1	479.5	479.5
18.5°	474.1	475.5	476.8	476.8	477.6	477.8
19°	472.4	473.7	474.8	474.8	475.7	475.8
19.5°	470.5	472.1	473.2	472.9	474.3	474.2
20°	469.2	470.6	471.8	471.3	472.6	472.7
20.5°	468.1	469.2	469.7	469.9	471.2	471.0
21°	466.5	467.0	468.2	468.7	469.7	469.9
21.5°	464.6	464.7	466.5	467.3	468.4	468.2
22°	462.6	462.9	464.6	465.2	466.9	465.9

TEST NUMBER: P869741  
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	460.2	461.7	462.8	463.0	464.5	464.0
23°	458.6	459.9	461.4	461.3	462.3	462.4
23.5°	456.5	457.5	459.3	460.0	460.5	460.5
24°	454.7	455.6	457.8	457.5	458.6	458.7
24.5°	453.4	454.1	455.7	455.7	456.8	456.9
25°	451.2	452.1	453.6	454.3	455.4	454.9
25.5°	448.9	450.5	451.3	452.3	453.8	452.8
26°	447.0	447.6	449.3	450.0	451.2	451.1
26.5°	444.9	445.4	447.7	447.4	448.8	449.1
27°	442.4	443.1	445.9	445.5	446.9	446.9
27.5°	439.9	440.5	443.3	443.7	445.5	445.0
28°	437.8	438.3	440.8	442.0	443.2	443.0
28.5°	435.2	436.7	438.4	439.5	440.8	439.9
29°	433.4	434.5	436.7	437.2	437.8	438.0
29.5°	431.2	431.9	434.3	434.8	436.2	435.2
30°	429.3	429.6	431.6	432.0	434.1	433.9
30.5°	426.1	427.8	428.8	429.2	431.4	431.2
31°	423.6	424.3	426.7	427.3	428.9	428.4
31.5°	421.0	422.0	424.6	424.5	426.8	426.0
32°	419.1	419.7	422.2	422.1	424.6	423.6
32.5°	416.9	417.5	419.5	419.8	422.4	421.1
33°	414.1	415.0	417.2	417.9	419.6	418.8
33.5°	410.7	412.2	414.5	415.2	417.1	416.1
34°	408.3	409.6	411.6	412.1	414.1	413.1
34.5°	405.4	407.0	409.0	409.6	411.5	410.4
35°	402.8	404.3	406.3	407.2	408.9	408.7
35.5°	400.4	401.1	403.9	404.5	406.0	406.0
36°	397.7	398.1	400.9	401.8	403.1	402.8
36.5°	394.9	395.2	398.1	398.3	400.4	400.0
37°	392.1	392.4	395.6	395.6	397.4	397.7
37.5°	388.8	390.0	392.7	392.6	395.1	394.9
38°	385.7	386.9	389.8	390.0	392.4	392.0
38.5°	382.8	384.1	386.7	387.3	389.5	388.5
39°	379.7	381.5	384.0	384.4	385.8	385.8
39.5°	376.9	378.8	381.0	381.1	383.0	382.8
40°	373.7	375.5	378.0	378.7	379.8	380.3
40.5°	371.2	372.2	374.9	375.7	377.0	377.4
41°	368.3	369.4	371.7	372.7	373.7	374.3
41.5°	364.8	366.5	368.6	369.4	370.8	371.2
42°	361.8	363.2	365.7	366.0	368.2	367.9
42.5°	358.1	359.5	362.4	362.7	365.0	364.8
43°	354.8	356.7	358.7	359.9	362.0	361.6
43.5°	351.3	353.1	355.2	356.9	358.5	358.3
44°	348.4	349.5	351.9	353.3	355.2	355.1
44.5°	345.0	346.8	349.2	349.6	352.0	351.9

TEST NUMBER: P869741  
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	341.7	343.7	346.1	346.2	348.3	348.6
45.5°	338.2	340.5	342.6	343.0	344.8	345.5
46°	334.9	337.0	339.4	339.8	341.6	341.9
46.5°	331.4	333.4	336.0	337.0	338.2	338.2
47°	327.9	330.0	332.6	333.4	334.8	335.0
47.5°	324.4	326.7	329.1	329.8	331.2	331.6
48°	321.0	323.1	325.6	326.3	328.0	328.2
48.5°	317.5	319.2	322.0	322.9	324.5	324.3
49°	313.8	315.6	318.2	319.3	321.0	320.9
49.5°	310.3	312.1	314.4	315.8	317.5	317.4
50°	306.7	308.1	310.6	312.5	313.8	314.1
50.5°	302.9	304.6	307.0	308.9	310.0	310.2
51°	299.5	301.3	303.7	304.9	306.5	306.4
51.5°	295.9	297.3	300.2	301.1	303.1	302.9
52°	292.3	293.5	296.6	297.3	299.6	299.6
52.5°	288.4	290.1	292.9	294.1	295.8	295.9
53°	284.6	286.4	289.2	290.5	292.4	292.1
53.5°	281.1	282.7	285.3	286.0	288.4	288.0
54°	277.1	278.8	281.5	282.3	284.6	284.6
54.5°	273.3	274.7	277.7	278.9	280.4	281.0
55°	269.5	270.9	273.7	274.9	276.9	276.8
55.5°	265.7	267.0	269.7	271.2	273.2	272.8
56°	261.8	263.1	265.9	267.3	269.2	269.2
56.5°	257.8	259.1	262.0	263.1	265.4	265.2
57°	253.6	255.0	257.9	259.1	261.4	261.1
57.5°	249.4	250.9	253.9	254.7	257.1	257.2
58°	245.6	246.9	249.7	251.0	253.3	253.3
58.5°	241.8	242.8	245.4	247.3	249.1	249.1
59°	237.8	238.9	241.4	243.3	245.2	245.2
59.5°	233.4	234.8	237.2	239.2	241.1	241.3
60°	229.6	230.4	233.4	234.9	237.1	237.1
60.5°	225.0	226.2	229.0	230.8	233.0	233.0
61°	220.8	222.0	225.0	226.5	228.7	228.9
61.5°	216.7	218.1	221.1	222.2	224.3	224.4
62°	212.5	214.0	216.9	218.1	220.2	220.5
62.5°	208.4	209.8	212.7	214.0	216.0	216.2
63°	204.0	205.2	208.3	209.6	212.0	212.1
63.5°	199.9	201.0	204.2	205.4	207.6	208.2
64°	195.6	197.0	199.9	201.1	202.9	203.5
64.5°	191.3	192.8	195.7	197.1	198.7	199.4
65°	187.0	188.4	191.1	192.8	194.5	195.2
65.5°	182.9	184.0	186.8	188.3	190.2	190.9
66°	178.4	179.4	182.4	184.0	185.8	186.1
66.5°	174.0	175.3	178.0	179.8	181.5	181.6
67°	169.5	170.9	173.6	175.5	177.3	177.5

TEST NUMBER: P869741  
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	165.2	166.3	168.9	170.7	172.9	173.0
68°	160.7	161.8	164.6	166.5	168.4	168.5
68.5°	156.4	157.4	160.2	162.1	163.7	164.1
69°	152.3	153.2	155.5	157.4	159.3	159.7
69.5°	147.7	148.8	151.1	153.0	154.9	155.4
70°	143.1	144.2	146.6	148.8	150.4	150.6
70.5°	138.7	139.5	142.3	144.2	146.1	146.2
71°	134.1	135.0	137.8	139.5	141.5	141.7
71.5°	129.5	130.6	133.2	135.3	137.1	137.3
72°	125.0	126.2	128.8	130.7	132.4	132.9
72.5°	120.7	121.5	124.3	126.0	127.8	128.4
73°	116.2	116.8	119.7	121.5	123.3	123.9
73.5°	111.8	112.6	115.5	117.0	118.8	119.2
74°	107.3	108.0	110.7	112.4	114.4	114.7
74.5°	103.0	103.5	106.2	108.1	109.8	110.2
75°	98.4	99.0	101.6	103.6	105.1	105.6
75.5°	94.0	94.6	97.3	99.1	100.7	101.2
76°	89.6	90.1	92.8	94.6	96.3	96.8
76.5°	85.1	85.8	88.4	90.2	91.8	92.3
77°	80.6	81.3	83.9	85.7	87.4	88.0
77.5°	76.3	77.1	79.6	81.6	83.2	83.7
78°	72.0	72.7	75.3	77.2	78.8	79.2
78.5°	67.7	68.5	71.2	73.0	74.5	74.8
79°	63.6	64.3	66.8	68.6	70.1	70.6
79.5°	59.3	60.1	62.5	64.4	65.9	66.4
80°	55.2	55.9	58.3	60.1	61.7	62.1
80.5°	51.3	51.9	54.4	56.0	57.5	58.0
81°	47.4	47.9	50.3	52.1	53.5	53.9
81.5°	43.5	43.9	46.3	48.0	49.4	49.8
82°	39.6	40.0	42.4	44.0	45.4	45.8
82.5°	35.9	36.3	38.5	40.0	41.5	41.8
83°	32.4	32.7	34.6	36.2	37.7	37.9
83.5°	28.8	29.1	31.0	32.5	34.0	34.3
84°	25.4	25.7	27.6	29.0	30.3	30.7
84.5°	22.1	22.4	24.2	25.7	27.0	27.3
85°	19.0	19.4	21.1	22.5	23.5	23.9
85.5°	16.0	16.4	18.1	19.4	20.4	20.6
86°	13.3	13.8	15.1	16.4	17.5	17.7
86.5°	10.9	11.3	12.7	13.8	14.7	14.9
87°	8.9	9.1	10.3	11.3	12.1	12.4
87.5°	7.0	7.1	8.3	9.1	9.8	10.1
88°	5.2	5.1	6.2	7.1	7.8	7.9
88.5°	3.6	3.5	4.2	5.1	5.7	5.9
89°	2.3	2.3	2.9	3.5	4.0	4.2
89.5°	1.1	1.3	1.7	2.2	2.8	2.9

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



TEST NUMBER: P869741  
CATALOG NUMBER: SMX18SLSFSD2W-1500LM-2700K

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)