

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: P869743

Luminaire Tested: **SMX18SLSFSD2W-1500LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869743
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFSD2W-1500LM-3500K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

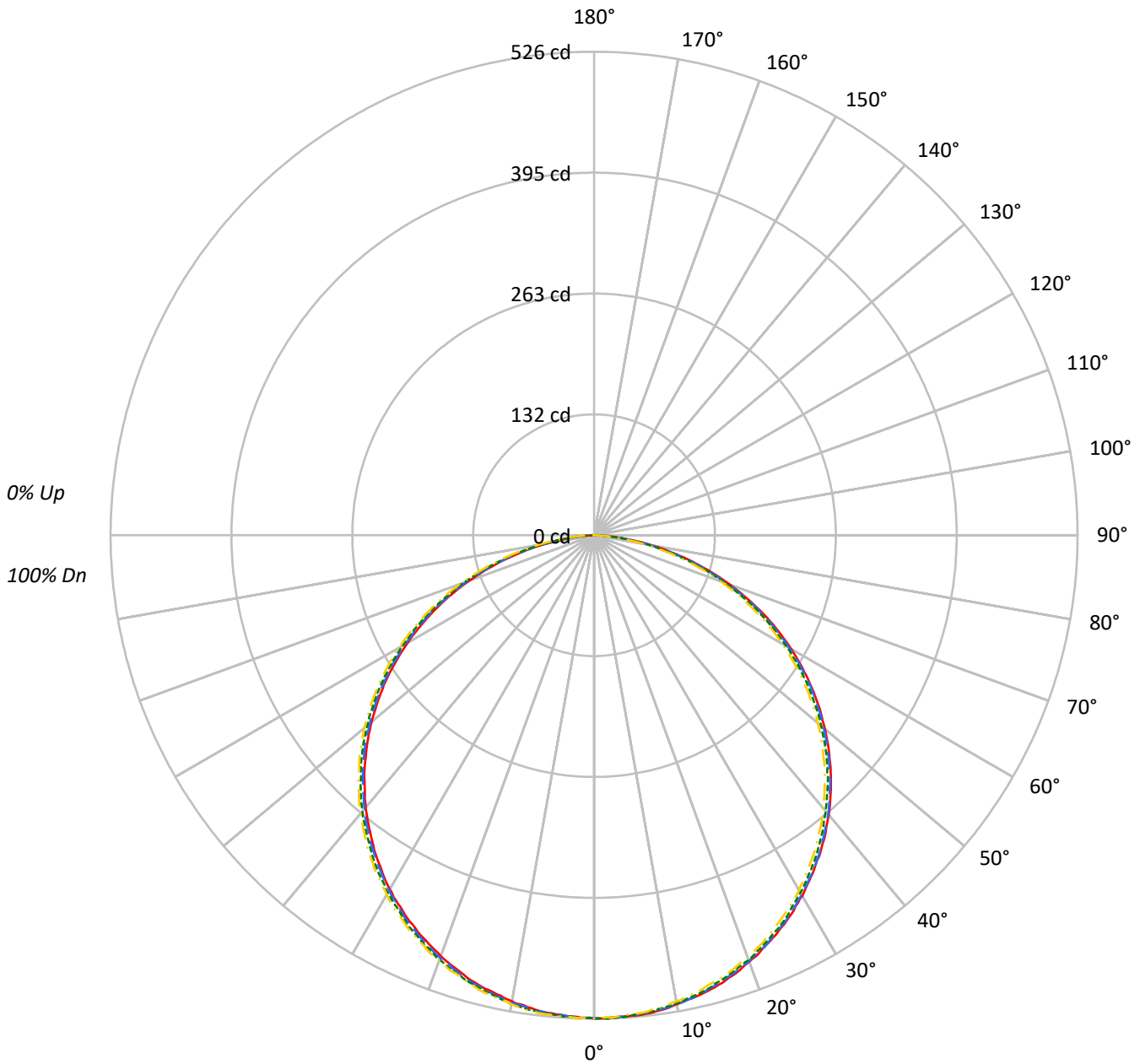
Lumens per Lamp: N/A
 Luminaire Lumens: 1534.5 lumens
 Efficiency: N/A
 Efficacy: 91.9 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2515	2515	2515	2515
5°	2520	2514	2508	2513
10°	2517	2514	2501	2515
15°	2521	2505	2493	2506
20°	2513	2504	2481	2502
25°	2508	2495	2467	2493
30°	2503	2480	2457	2479
35°	2493	2469	2437	2466
40°	2481	2448	2414	2449
45°	2463	2427	2386	2429
50°	2442	2400	2351	2395
55°	2411	2366	2309	2360
60°	2369	2313	2244	2302
65°	2308	2236	2152	2228
70°	2200	2116	2014	2106
75°	2039	1935	1804	1911
80°	1788	1639	1466	1609
85°	1367	1153	906	1114

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	3.2
10°-20°	142.9	9.3
20°-30°	217.6	14.2
30°-40°	264.1	17.2
40°-50°	276.6	18.0
50°-60°	252.9	16.5
60°-70°	194.7	12.7
70°-80°	110.1	7.2
80°-90°	25.9	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°	410.2	26.7
0°-40°	674.3	43.9
0°-60°	1203.9	78.5
0°-90°	1534.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1534.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	526	526	526	526	526	
5°	525	524	522	523	525	50
15°	509	506	503	506	509	144
25°	475	473	467	472	475	219
35°	427	423	417	422	427	267
45°	364	359	353	359	364	281
55°	289	284	277	283	289	258
65°	204	198	190	197	204	201
75°	110	105	98	103	110	117
85°	25	21	16	20	25	30
90°	0	0	0	0	0	

TEST NUMBER: P869743
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	525.7	525.7	525.7	525.7	525.7	525.7	525.7	525.7	525.7	525.7	525.7
0.5°	525.6	525.4	525.7	525.3	525.8	526.3	525.3	525.7	525.3	525.6	525.0
1°	526.0	525.1	525.8	525.6	525.6	525.8	524.9	525.2	525.0	525.4	525.7
1.5°	525.5	525.5	525.2	525.6	526.2	525.7	524.5	525.1	525.1	524.9	525.5
2°	525.2	524.9	525.1	525.5	526.0	525.5	525.2	524.5	524.4	524.5	524.5
2.5°	525.1	525.4	524.9	525.5	525.6	525.5	524.7	524.5	524.3	524.3	524.3
3°	524.4	525.5	524.8	525.0	525.1	525.0	524.0	524.8	524.2	523.7	524.4
3.5°	524.7	525.6	524.6	524.9	525.2	524.5	524.0	524.4	523.6	523.6	523.6
4°	524.5	525.0	524.4	525.0	524.9	524.2	522.9	524.0	523.1	523.8	523.1
4.5°	524.5	524.9	523.7	524.9	524.3	524.1	522.9	522.9	523.1	523.3	523.0
5°	524.7	524.4	523.7	524.1	523.5	523.8	522.5	522.7	522.2	522.0	523.4
5.5°	524.3	524.1	523.3	523.2	523.1	523.2	522.2	521.9	522.1	521.4	522.7
6°	524.1	524.1	522.9	523.3	523.1	522.1	521.9	521.7	521.7	521.0	521.7
6.5°	523.6	523.8	522.5	522.3	522.5	522.2	521.1	521.0	520.9	520.5	521.3
7°	523.3	523.4	522.0	522.1	521.9	521.5	519.6	520.0	520.2	519.7	521.2
7.5°	522.3	522.2	521.3	521.1	520.5	521.1	519.6	519.5	519.2	519.0	520.2
8°	521.8	521.1	521.0	521.0	519.7	520.5	519.1	518.5	518.6	518.4	518.7
8.5°	521.2	520.4	520.7	519.7	519.4	519.8	518.3	518.0	517.1	517.8	518.2
9°	520.4	519.6	519.9	519.3	518.7	519.1	517.0	517.4	516.5	516.8	517.4
9.5°	519.2	519.2	518.7	518.2	518.2	518.3	515.6	516.0	516.3	516.1	517.1
10°	518.1	518.1	517.7	517.8	517.5	517.4	515.0	515.1	514.8	515.7	516.2
10.5°	517.4	517.4	517.4	516.5	516.6	515.9	514.4	514.1	513.8	514.5	515.2
11°	516.5	516.5	516.6	516.0	515.4	515.2	513.2	513.8	512.8	513.0	514.0
11.5°	515.4	516.0	515.2	514.6	513.7	514.4	512.3	512.4	511.1	512.4	513.0
12°	514.9	514.7	514.6	513.5	513.2	513.6	510.8	511.9	510.4	510.9	512.4
12.5°	514.0	513.6	514.1	512.6	512.5	512.5	509.6	510.9	509.1	509.9	511.1
13°	513.1	513.4	512.8	511.4	511.4	511.3	508.8	509.3	508.1	509.1	509.4
13.5°	512.1	512.4	511.1	510.4	510.3	510.0	507.4	508.5	507.6	508.0	507.9
14°	511.1	511.3	509.9	509.7	509.2	507.8	505.6	507.0	506.3	507.1	507.2
14.5°	509.9	509.7	508.5	508.0	507.8	507.0	504.3	505.4	504.8	505.5	506.0
15°	509.1	508.3	507.5	507.3	505.7	506.0	503.4	504.2	503.3	503.6	505.1
15.5°	507.4	507.2	506.3	505.6	504.6	504.5	502.5	502.6	502.2	502.2	503.9
16°	506.5	505.7	504.7	504.5	503.7	503.4	501.0	501.2	500.8	501.3	502.5
16.5°	504.9	504.3	503.4	502.8	502.0	502.1	499.5	499.9	498.6	499.9	500.9
17°	503.0	502.6	501.9	501.9	500.5	500.6	498.1	498.7	496.9	497.9	498.8
17.5°	501.9	501.4	500.6	499.7	498.6	499.0	496.7	497.2	495.5	496.2	497.4
18°	500.8	500.1	499.1	498.3	497.5	497.2	495.4	495.3	493.9	494.6	496.0
18.5°	499.1	498.6	497.7	496.6	495.6	495.8	493.0	493.2	492.6	493.0	493.8
19°	496.9	497.4	496.0	495.1	494.6	494.0	491.4	491.6	490.7	491.4	491.7
19.5°	495.3	496.0	494.8	493.4	492.8	492.5	490.0	489.8	489.2	489.7	490.5
20°	493.7	493.8	493.3	492.3	491.9	491.0	488.3	488.0	487.4	487.9	489.3
20.5°	491.9	491.8	491.0	490.2	490.0	489.1	486.7	486.3	485.1	486.1	488.0
21°	490.8	490.0	489.4	488.6	487.9	487.2	485.0	484.4	483.4	484.9	485.8
21.5°	489.0	488.6	487.9	487.4	486.0	485.4	483.1	482.3	481.5	483.2	483.6
22°	486.6	486.5	486.1	485.6	484.3	483.0	481.6	481.4	479.5	480.7	481.9

TEST NUMBER: P869743
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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°	484.6	484.6	484.7	483.4	482.1	481.0	479.6	479.2	477.6	478.6	479.7
23°	482.9	482.7	482.6	481.2	480.2	479.8	477.4	477.5	475.8	477.0	478.0
23.5°	481.0	481.2	480.2	479.2	478.5	477.7	475.3	475.6	474.1	475.4	475.9
24°	479.1	479.3	478.2	477.8	476.2	475.6	473.4	473.0	472.1	472.9	474.0
24.5°	477.3	477.1	476.1	475.4	474.3	473.6	470.5	470.6	469.3	470.2	471.7
25°	475.2	474.6	474.3	473.2	472.7	471.4	468.5	468.9	467.3	468.2	469.4
25.5°	473.0	472.7	472.0	470.9	470.4	469.4	466.8	467.1	465.7	466.2	467.3
26°	471.1	470.8	469.9	468.9	468.7	467.2	464.5	464.8	463.4	464.3	465.8
26.5°	469.1	468.9	468.2	466.6	466.0	464.7	462.2	462.6	461.3	461.8	463.3
27°	466.7	466.7	466.0	464.6	464.0	462.1	460.2	460.3	458.6	459.2	460.6
27.5°	464.8	464.9	463.3	462.7	461.4	459.7	458.0	458.0	456.1	457.1	458.1
28°	462.7	461.8	461.1	460.6	458.4	457.5	455.6	455.1	454.3	455.5	455.9
28.5°	459.4	459.5	458.8	458.2	455.8	454.8	453.2	452.9	452.0	453.1	453.2
29°	457.5	457.4	456.2	455.7	453.8	453.0	450.8	450.5	449.9	450.7	451.1
29.5°	454.6	455.5	454.3	453.3	451.3	450.7	448.5	447.9	446.9	448.1	448.7
30°	453.2	452.9	451.6	450.5	449.0	447.6	445.8	445.2	444.8	445.2	446.1
30.5°	450.4	450.1	449.0	447.7	446.9	445.0	442.8	442.8	442.3	442.5	443.2
31°	447.4	447.2	446.5	445.4	444.0	442.3	440.3	439.9	439.6	440.0	441.1
31.5°	444.9	444.4	444.3	442.7	441.3	439.7	437.3	436.9	436.7	437.0	438.2
32°	442.4	442.2	441.2	440.5	438.5	437.6	434.7	434.7	433.9	434.4	435.5
32.5°	439.8	439.7	439.1	437.5	435.7	435.3	432.1	431.5	430.8	431.9	432.5
33°	437.4	437.1	436.8	435.1	433.5	432.5	429.6	428.8	428.1	429.1	430.2
33.5°	434.6	434.5	434.1	432.1	430.6	429.7	426.7	426.8	425.5	426.3	427.0
34°	431.5	432.2	431.2	429.5	428.4	426.6	424.2	424.2	422.6	423.6	424.3
34.5°	428.7	429.5	428.7	426.4	425.5	424.0	421.8	421.1	420.3	420.6	421.7
35°	426.9	426.6	425.9	423.4	422.7	421.2	418.5	418.0	417.3	417.9	419.1
35.5°	424.1	423.7	423.2	421.2	419.7	418.1	415.3	414.7	413.7	415.5	416.0
36°	420.7	420.6	420.3	418.4	416.8	414.6	412.5	412.6	410.8	412.5	413.6
36.5°	417.7	417.9	416.7	415.8	413.5	411.7	409.3	409.3	407.8	409.3	410.0
37°	415.3	415.3	413.9	412.4	410.5	408.9	406.3	406.6	404.7	405.8	406.9
37.5°	412.5	411.8	411.4	409.3	407.8	405.7	403.6	403.1	401.8	402.8	404.1
38°	409.4	409.0	408.1	406.8	404.7	402.7	400.9	399.6	399.0	400.2	401.3
38.5°	405.8	406.1	404.9	403.2	401.1	399.6	397.8	396.6	395.8	397.5	398.4
39°	402.9	402.7	402.4	400.2	397.9	397.0	394.4	393.7	392.6	394.4	395.2
39.5°	399.8	399.6	399.3	396.8	395.0	393.8	391.3	390.4	389.8	390.6	391.7
40°	397.2	396.3	396.3	393.7	392.0	390.4	388.3	387.3	386.6	387.4	388.4
40.5°	394.2	393.6	393.1	390.4	388.5	387.0	384.7	384.4	383.3	384.1	385.2
41°	390.9	390.4	389.5	387.9	385.5	383.7	381.2	380.8	380.2	380.4	382.1
41.5°	387.7	387.2	386.2	384.7	382.2	380.9	378.1	377.2	376.2	377.4	378.7
42°	384.3	383.6	383.0	381.3	379.1	377.1	374.7	374.1	372.9	374.0	375.4
42.5°	381.0	380.7	379.3	378.3	375.9	373.9	371.3	370.6	369.4	371.0	372.5
43°	377.7	377.8	376.0	374.5	372.5	371.1	367.9	367.5	366.3	367.3	368.7
43.5°	374.2	374.4	373.2	370.9	369.5	367.7	364.7	363.7	363.2	364.2	365.4
44°	370.9	370.7	369.8	367.5	366.1	363.8	361.3	360.4	359.8	360.9	361.9
44.5°	367.6	367.4	366.2	364.0	361.9	360.2	358.1	356.9	356.2	357.7	358.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	364.1	363.5	362.6	360.7	358.8	356.8	354.5	353.6	352.6	353.8	355.2
45.5°	360.9	360.4	358.9	357.8	355.6	353.8	351.1	350.0	348.9	350.5	351.6
46°	357.1	357.2	355.5	354.0	352.2	350.2	346.9	346.3	345.1	346.9	348.4
46.5°	353.2	353.0	352.1	350.0	348.7	346.6	343.6	342.7	341.6	343.4	344.7
47°	349.9	349.5	348.2	346.6	345.2	343.0	339.8	339.1	338.1	339.7	341.3
47.5°	346.4	345.9	344.4	342.8	341.3	339.2	336.2	335.4	334.7	335.7	337.4
48°	342.8	342.6	340.7	339.3	337.5	335.7	332.9	332.1	331.0	332.1	333.4
48.5°	338.8	338.8	337.4	335.7	333.5	331.8	329.1	328.5	327.4	328.1	330.1
49°	335.2	335.2	333.8	332.0	329.9	327.9	325.6	324.7	323.5	324.6	326.1
49.5°	331.5	331.7	330.0	328.3	326.1	324.0	321.5	320.9	319.7	321.1	321.9
50°	328.1	327.9	325.9	324.3	322.5	320.5	317.6	317.3	315.9	317.5	318.4
50.5°	324.0	324.0	322.3	320.4	319.1	317.2	314.0	313.5	312.0	313.3	314.8
51°	320.0	320.0	318.4	316.8	315.3	313.0	309.9	309.3	308.1	309.2	310.9
51.5°	316.4	316.3	314.8	312.9	311.6	308.9	306.6	305.2	304.2	305.5	306.9
52°	312.9	312.2	311.0	309.2	307.2	305.6	302.8	301.8	300.3	301.7	303.0
52.5°	309.1	308.5	307.1	305.3	303.0	301.5	299.0	297.9	296.6	297.4	299.0
53°	305.1	304.8	303.1	301.3	299.2	297.0	294.8	293.8	292.4	294.1	295.2
53.5°	300.9	300.7	299.2	297.7	295.4	293.1	291.0	289.3	288.6	290.1	291.2
54°	297.2	297.0	295.7	293.3	291.3	289.5	286.8	285.5	284.4	285.7	287.4
54.5°	293.5	293.0	291.6	289.2	287.8	285.7	282.2	281.3	280.9	281.5	283.3
55°	289.1	288.9	287.9	285.1	283.7	281.6	278.3	277.6	276.8	277.5	279.1
55.5°	284.9	284.6	283.5	281.4	279.5	277.2	274.4	273.2	272.5	273.5	274.7
56°	281.2	280.5	279.1	277.3	275.1	272.9	270.5	269.2	268.5	269.4	271.0
56.5°	276.9	276.7	275.3	272.9	271.1	268.7	266.2	265.5	264.3	265.6	267.0
57°	272.7	272.6	270.9	268.7	267.1	264.8	262.0	261.2	259.9	261.5	263.0
57.5°	268.6	268.5	267.0	264.6	263.1	260.8	257.6	256.6	255.8	257.0	258.7
58°	264.6	263.9	262.8	260.3	258.8	256.3	253.3	252.4	251.6	252.6	254.2
58.5°	260.2	259.6	258.3	256.1	254.3	251.8	249.1	248.3	247.5	248.3	249.9
59°	256.1	255.8	253.9	251.9	250.3	247.8	245.1	244.0	242.9	244.2	245.5
59.5°	252.0	251.4	250.0	248.0	246.1	243.5	240.7	239.8	238.7	240.2	241.2
60°	247.6	247.1	245.4	243.7	241.7	239.2	236.8	235.6	234.5	235.9	237.4
60.5°	243.4	242.6	241.1	239.5	236.9	235.1	232.4	231.3	230.2	231.1	233.0
61°	239.1	238.1	236.7	234.8	232.8	230.7	228.1	226.7	225.9	227.1	228.7
61.5°	234.4	233.8	232.4	230.3	228.4	226.3	223.9	222.1	221.3	222.6	224.3
62°	230.3	229.4	228.0	225.9	224.1	221.9	219.5	218.0	216.9	218.2	219.8
62.5°	225.8	225.1	223.6	221.6	219.5	217.6	214.9	213.5	212.4	213.8	215.2
63°	221.5	220.6	219.1	217.3	215.3	213.1	210.3	209.3	208.1	209.2	210.7
63.5°	217.4	216.1	214.8	212.5	211.0	208.7	206.1	204.7	203.9	204.6	206.5
64°	212.6	211.9	210.3	208.3	206.8	204.2	201.3	200.2	199.3	200.3	202.1
64.5°	208.3	207.4	205.9	203.6	201.9	199.8	196.6	195.6	194.6	195.6	197.5
65°	203.9	203.2	201.4	199.0	197.5	195.2	192.1	191.1	190.1	191.2	192.9
65.5°	199.4	198.5	197.0	194.4	193.0	190.6	187.5	186.6	185.7	186.8	188.5
66°	194.4	194.0	192.2	189.8	188.4	186.0	183.0	181.9	181.3	182.1	183.9
66.5°	189.7	189.3	187.6	185.4	183.8	181.5	178.4	177.4	176.7	177.5	179.1
67°	185.4	184.5	182.9	180.7	179.4	176.9	174.2	172.7	172.2	172.9	174.6

TEST NUMBER: P869743
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	180.7	179.9	178.3	175.9	174.7	172.3	169.6	168.0	167.6	168.2	169.9
68°	176.0	175.3	173.6	171.2	170.2	167.7	164.9	163.6	162.9	163.8	165.5
68.5°	171.4	170.7	169.1	166.9	165.5	163.1	160.2	159.1	158.1	159.0	161.0
69°	166.8	166.3	164.5	162.4	161.1	158.3	155.4	154.2	153.4	154.3	156.3
69.5°	162.3	161.7	159.8	157.3	156.1	153.4	150.8	149.4	148.7	149.5	151.7
70°	157.3	156.9	155.0	152.6	151.3	148.9	146.1	144.9	144.0	144.9	146.8
70.5°	152.7	152.3	150.2	148.0	146.8	144.4	141.7	140.3	139.6	140.4	142.2
71°	148.0	147.6	145.8	143.5	142.2	139.8	136.9	135.7	135.0	135.8	137.5
71.5°	143.4	143.0	141.1	138.4	137.4	135.0	132.2	130.8	130.2	131.1	132.8
72°	138.8	138.1	136.2	133.8	132.8	130.2	127.5	126.1	125.7	126.4	128.3
72.5°	134.2	133.2	131.4	129.3	128.1	125.6	122.9	121.7	120.9	121.8	123.6
73°	129.4	128.4	126.7	124.4	123.4	121.1	118.3	116.8	116.1	117.2	118.9
73.5°	124.5	123.8	122.2	119.7	118.6	116.2	113.7	112.1	111.4	112.8	114.2
74°	119.8	119.0	117.2	115.1	113.9	111.5	109.1	107.6	106.8	107.9	109.5
74.5°	115.1	114.3	112.7	110.1	109.4	107.0	104.4	103.0	102.3	103.3	104.8
75°	110.3	109.5	107.9	105.4	104.7	102.1	99.7	98.4	97.6	98.7	100.2
75.5°	105.7	105.0	103.3	100.9	100.0	97.6	95.3	93.6	93.1	94.3	95.7
76°	101.1	100.4	98.7	96.2	95.3	92.9	90.6	89.0	88.5	89.5	91.1
76.5°	96.4	95.8	94.0	91.6	90.8	88.4	85.9	84.7	83.9	84.9	86.4
77°	92.0	91.0	89.5	87.0	86.2	83.7	81.4	80.0	79.4	80.3	81.8
77.5°	87.4	86.4	85.0	82.5	81.6	79.1	76.9	75.5	74.9	75.9	77.4
78°	82.7	81.8	80.4	78.0	77.1	74.7	72.6	70.9	70.5	71.3	72.9
78.5°	78.2	77.3	75.9	73.5	72.7	70.2	68.0	66.6	66.1	66.9	68.4
79°	73.8	72.9	71.3	69.0	68.1	65.7	63.5	62.3	61.6	62.5	64.0
79.5°	69.3	68.5	67.0	64.6	63.8	61.4	59.3	58.1	57.4	58.4	59.7
80°	64.9	63.9	62.5	60.3	59.5	57.3	55.1	53.8	53.2	54.2	55.7
80.5°	60.6	59.6	58.3	56.0	55.3	53.0	51.0	49.7	49.0	50.1	51.6
81°	56.2	55.3	54.2	51.8	51.2	49.0	46.8	45.6	45.0	46.0	47.5
81.5°	52.0	51.3	49.9	47.7	47.0	44.8	42.8	41.6	41.2	41.9	43.3
82°	47.8	47.1	45.6	43.5	42.9	40.8	38.8	37.6	37.2	38.0	39.4
82.5°	43.6	43.1	41.5	39.4	39.0	36.9	35.1	33.8	33.4	34.2	35.5
83°	39.6	38.8	37.5	35.6	35.2	33.2	31.4	30.2	29.8	30.6	31.9
83.5°	35.8	35.0	33.7	32.0	31.5	29.5	27.7	26.6	26.2	26.9	28.1
84°	32.1	31.3	30.0	28.4	27.9	26.0	24.2	23.1	22.7	23.5	24.7
84.5°	28.5	27.8	26.6	24.9	24.4	22.6	20.9	19.8	19.6	20.3	21.3
85°	24.9	24.3	23.2	21.5	21.0	19.4	17.7	16.7	16.5	17.1	18.2
85.5°	21.6	21.0	19.9	18.4	17.9	16.2	14.7	13.9	13.7	14.2	15.2
86°	18.5	17.9	16.9	15.5	15.0	13.4	12.1	11.3	11.1	11.6	12.5
86.5°	15.5	15.1	14.3	12.9	12.3	11.0	9.9	9.2	9.0	9.6	10.2
87°	13.0	12.5	11.7	10.5	10.0	8.8	7.8	7.1	7.0	7.5	8.3
87.5°	10.5	10.1	9.4	8.3	7.9	6.8	5.8	5.2	5.2	5.6	6.3
88°	8.3	7.9	7.2	6.2	5.9	4.9	4.1	3.6	3.5	3.9	4.5
88.5°	6.2	5.8	5.3	4.4	4.3	3.3	2.6	2.1	2.0	2.4	2.9
89°	4.4	4.2	3.7	3.0	3.0	2.1	1.4	1.1	1.0	1.2	1.7
89.5°	3.1	2.9	2.5	1.9	1.7	1.0	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: P869743
CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3500K

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: P869743
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	525.7	525.7	525.7	525.7	525.7	525.7
0.5°	526.1	525.0	526.4	525.4	525.3	525.6
1°	525.6	524.9	526.6	525.5	525.2	526.0
1.5°	525.5	525.5	526.2	525.5	525.4	525.5
2°	525.1	525.4	525.6	525.5	526.1	525.2
2.5°	524.8	524.6	526.2	525.1	525.2	525.1
3°	525.4	524.2	526.1	524.8	525.7	524.4
3.5°	524.9	524.8	525.5	524.5	525.2	524.7
4°	524.8	524.3	525.4	524.7	524.6	524.5
4.5°	524.7	523.7	525.1	524.4	524.5	524.5
5°	524.3	523.4	525.2	524.0	524.2	524.7
5.5°	523.1	522.9	525.0	523.7	524.4	524.3
6°	522.5	522.7	525.0	523.6	523.6	524.1
6.5°	521.9	522.8	524.4	523.5	523.4	523.6
7°	521.7	521.6	523.8	522.6	523.2	523.3
7.5°	521.0	521.5	523.2	522.3	523.0	522.3
8°	520.3	520.9	521.9	521.9	522.3	521.8
8.5°	519.4	519.8	521.2	521.1	520.9	521.2
9°	518.7	519.2	521.1	519.8	520.8	520.4
9.5°	517.4	518.6	520.1	519.2	519.7	519.2
10°	516.7	517.8	518.9	518.2	518.7	518.1
10.5°	515.5	516.7	518.1	516.5	518.5	517.4
11°	514.8	515.5	517.0	515.7	517.1	516.5
11.5°	513.4	514.3	516.0	515.2	515.9	515.4
12°	512.3	512.8	515.4	514.4	515.0	514.9
12.5°	511.3	512.1	513.7	513.0	514.2	514.0
13°	510.5	510.7	512.3	512.4	513.0	513.1
13.5°	509.2	510.0	511.4	511.5	511.9	512.1
14°	508.4	508.6	510.8	510.6	510.3	511.1
14.5°	507.4	507.7	508.9	509.2	509.5	509.9
15°	506.0	506.0	507.5	507.4	508.9	509.1
15.5°	503.9	505.2	506.5	505.7	508.0	507.4
16°	502.5	504.1	505.1	504.9	506.3	506.5
16.5°	501.1	502.3	503.9	503.5	505.4	504.9
17°	500.0	500.2	502.3	501.5	503.8	503.0
17.5°	498.4	499.1	501.5	500.0	502.3	501.9
18°	496.7	498.0	500.0	499.4	500.8	500.8
18.5°	495.2	496.6	498.0	498.0	498.8	499.1
19°	493.4	494.7	495.9	495.9	496.9	496.9
19.5°	491.4	493.1	494.2	493.9	495.4	495.3
20°	490.0	491.5	492.8	492.2	493.6	493.7
20.5°	488.9	490.0	490.6	490.8	492.1	491.9
21°	487.3	487.8	489.0	489.5	490.6	490.8
21.5°	485.3	485.4	487.2	488.0	489.2	489.0
22°	483.2	483.4	485.3	485.9	487.7	486.6

TEST NUMBER: P869743

CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	480.6	482.2	483.4	483.6	485.2	484.6
23°	479.0	480.4	481.9	481.8	482.9	482.9
23.5°	476.8	477.8	479.7	480.5	481.0	481.0
24°	474.9	475.9	478.2	477.8	479.0	479.1
24.5°	473.5	474.3	476.0	475.9	477.1	477.3
25°	471.3	472.2	473.8	474.5	475.6	475.2
25.5°	468.9	470.5	471.4	472.4	474.0	473.0
26°	466.9	467.5	469.3	470.0	471.3	471.1
26.5°	464.7	465.2	467.6	467.3	468.7	469.1
27°	462.0	462.8	465.7	465.3	466.8	466.7
27.5°	459.5	460.1	463.0	463.4	465.4	464.8
28°	457.3	457.7	460.4	461.7	462.9	462.7
28.5°	454.6	456.1	457.9	459.0	460.4	459.4
29°	452.7	453.8	456.1	456.6	457.3	457.5
29.5°	450.4	451.1	453.6	454.1	455.6	454.6
30°	448.4	448.7	450.8	451.2	453.4	453.2
30.5°	445.0	446.8	447.9	448.3	450.6	450.4
31°	442.4	443.2	445.7	446.3	447.9	447.4
31.5°	439.7	440.8	443.5	443.3	445.7	444.9
32°	437.7	438.4	441.0	440.8	443.5	442.4
32.5°	435.4	436.1	438.2	438.5	441.2	439.8
33°	432.5	433.4	435.8	436.5	438.2	437.4
33.5°	428.9	430.6	432.9	433.6	435.6	434.6
34°	426.5	427.8	429.9	430.4	432.5	431.5
34.5°	423.4	425.1	427.2	427.8	429.8	428.7
35°	420.7	422.2	424.4	425.2	427.1	426.9
35.5°	418.2	419.0	421.8	422.5	424.1	424.1
36°	415.3	415.8	418.7	419.6	421.0	420.7
36.5°	412.5	412.8	415.8	416.0	418.2	417.7
37°	409.5	409.9	413.2	413.2	415.1	415.3
37.5°	406.1	407.3	410.1	410.0	412.6	412.5
38°	402.8	404.1	407.2	407.3	409.8	409.4
38.5°	399.8	401.2	403.9	404.5	406.9	405.8
39°	396.6	398.4	401.1	401.4	403.0	402.9
39.5°	393.6	395.6	397.9	398.0	400.0	399.8
40°	390.3	392.2	394.8	395.5	396.7	397.2
40.5°	387.7	388.8	391.5	392.4	393.7	394.2
41°	384.7	385.8	388.2	389.3	390.3	390.9
41.5°	381.1	382.8	385.0	385.8	387.3	387.7
42°	377.8	379.3	382.0	382.3	384.5	384.3
42.5°	374.0	375.5	378.5	378.9	381.2	381.0
43°	370.6	372.5	374.6	375.9	378.1	377.7
43.5°	367.0	368.8	371.0	372.8	374.4	374.2
44°	363.9	365.0	367.5	369.1	371.0	370.9
44.5°	360.4	362.2	364.8	365.1	367.6	367.6

TEST NUMBER: P869743
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	356.9	359.0	361.5	361.6	363.7	364.1
45.5°	353.2	355.6	357.8	358.3	360.1	360.9
46°	349.8	351.9	354.5	354.9	356.8	357.1
46.5°	346.2	348.2	350.9	351.9	353.2	353.2
47°	342.5	344.7	347.4	348.2	349.7	349.9
47.5°	338.8	341.2	343.7	344.5	345.9	346.4
48°	335.3	337.5	340.1	340.9	342.6	342.8
48.5°	331.6	333.4	336.3	337.3	339.0	338.8
49°	327.8	329.6	332.3	333.5	335.2	335.2
49.5°	324.1	326.0	328.4	329.9	331.6	331.5
50°	320.3	321.8	324.4	326.4	327.8	328.1
50.5°	316.4	318.1	320.6	322.6	323.7	324.0
51°	312.8	314.7	317.2	318.4	320.1	320.0
51.5°	309.1	310.6	313.6	314.5	316.6	316.4
52°	305.2	306.5	309.8	310.5	312.9	312.9
52.5°	301.2	302.9	305.9	307.1	308.9	309.1
53°	297.2	299.1	302.1	303.4	305.4	305.1
53.5°	293.6	295.2	298.0	298.8	301.2	300.9
54°	289.4	291.1	294.0	294.8	297.2	297.2
54.5°	285.4	286.9	290.0	291.3	292.9	293.5
55°	281.4	282.9	285.8	287.1	289.2	289.1
55.5°	277.5	278.8	281.7	283.3	285.3	284.9
56°	273.4	274.8	277.7	279.1	281.2	281.2
56.5°	269.2	270.6	273.7	274.8	277.2	276.9
57°	264.8	266.3	269.4	270.7	273.0	272.7
57.5°	260.5	262.0	265.1	266.0	268.5	268.6
58°	256.5	257.9	260.8	262.2	264.6	264.6
58.5°	252.5	253.6	256.3	258.3	260.2	260.2
59°	248.4	249.5	252.1	254.2	256.1	256.1
59.5°	243.8	245.2	247.7	249.8	251.8	252.0
60°	239.8	240.6	243.7	245.4	247.6	247.6
60.5°	235.0	236.3	239.1	241.0	243.3	243.4
61°	230.6	231.8	235.0	236.6	238.8	239.1
61.5°	226.4	227.8	230.9	232.1	234.3	234.4
62°	221.9	223.5	226.5	227.8	230.0	230.3
62.5°	217.6	219.1	222.2	223.5	225.6	225.8
63°	213.1	214.4	217.6	218.9	221.4	221.5
63.5°	208.7	210.0	213.2	214.6	216.8	217.4
64°	204.3	205.7	208.7	210.0	212.0	212.6
64.5°	199.8	201.4	204.4	205.8	207.5	208.3
65°	195.3	196.8	199.6	201.4	203.1	203.9
65.5°	191.0	192.2	195.1	196.7	198.6	199.4
66°	186.4	187.3	190.5	192.2	194.0	194.4
66.5°	181.7	183.1	185.9	187.8	189.5	189.7
67°	177.0	178.5	181.3	183.3	185.2	185.4

TEST NUMBER: P869743
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	172.5	173.7	176.4	178.3	180.5	180.7
68°	167.8	169.0	171.9	173.9	175.9	176.0
68.5°	163.4	164.4	167.3	169.3	171.0	171.4
69°	159.0	160.0	162.5	164.4	166.4	166.8
69.5°	154.3	155.4	157.9	159.8	161.8	162.3
70°	149.5	150.6	153.1	155.4	157.1	157.3
70.5°	144.8	145.7	148.6	150.6	152.5	152.7
71°	140.1	141.0	143.9	145.7	147.8	148.0
71.5°	135.3	136.4	139.1	141.3	143.2	143.4
72°	130.5	131.8	134.5	136.5	138.3	138.8
72.5°	126.1	126.9	129.8	131.6	133.5	134.2
73°	121.4	122.0	125.0	126.9	128.8	129.4
73.5°	116.8	117.6	120.6	122.2	124.1	124.5
74°	112.1	112.8	115.7	117.4	119.5	119.8
74.5°	107.6	108.1	110.9	112.9	114.6	115.1
75°	102.7	103.4	106.2	108.3	109.8	110.3
75.5°	98.2	98.8	101.7	103.5	105.1	105.7
76°	93.6	94.2	96.9	98.8	100.5	101.1
76.5°	88.9	89.6	92.3	94.3	95.9	96.4
77°	84.2	84.9	87.7	89.5	91.3	92.0
77.5°	79.7	80.5	83.1	85.2	86.9	87.4
78°	75.2	76.0	78.7	80.6	82.3	82.7
78.5°	70.7	71.5	74.3	76.2	77.8	78.2
79°	66.4	67.1	69.8	71.6	73.2	73.8
79.5°	61.9	62.8	65.3	67.2	68.8	69.3
80°	57.7	58.4	60.9	62.7	64.4	64.9
80.5°	53.6	54.2	56.8	58.5	60.1	60.6
81°	49.5	50.1	52.5	54.4	55.9	56.2
81.5°	45.5	45.9	48.4	50.1	51.6	52.0
82°	41.4	41.8	44.2	46.0	47.5	47.8
82.5°	37.5	37.9	40.2	41.8	43.4	43.6
83°	33.9	34.1	36.1	37.8	39.4	39.6
83.5°	30.1	30.3	32.4	34.0	35.5	35.8
84°	26.5	26.8	28.8	30.3	31.6	32.1
84.5°	23.1	23.4	25.3	26.8	28.1	28.5
85°	19.9	20.3	22.0	23.5	24.6	24.9
85.5°	16.7	17.1	18.9	20.3	21.3	21.6
86°	13.9	14.4	15.8	17.2	18.3	18.5
86.5°	11.4	11.8	13.2	14.4	15.3	15.5
87°	9.3	9.5	10.8	11.8	12.7	13.0
87.5°	7.3	7.5	8.6	9.5	10.2	10.5
88°	5.5	5.4	6.4	7.5	8.1	8.3
88.5°	3.8	3.6	4.4	5.3	6.0	6.2
89°	2.4	2.4	3.0	3.6	4.1	4.4
89.5°	1.1	1.3	1.8	2.3	2.9	3.1

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869743
CATALOG NUMBER: SMX18SLSFSD2W-1500LM-3500K

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)