

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: P869727

Luminaire Tested: **SMX18SLSFS010-1500LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869727
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFS010-1500LM-3000K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

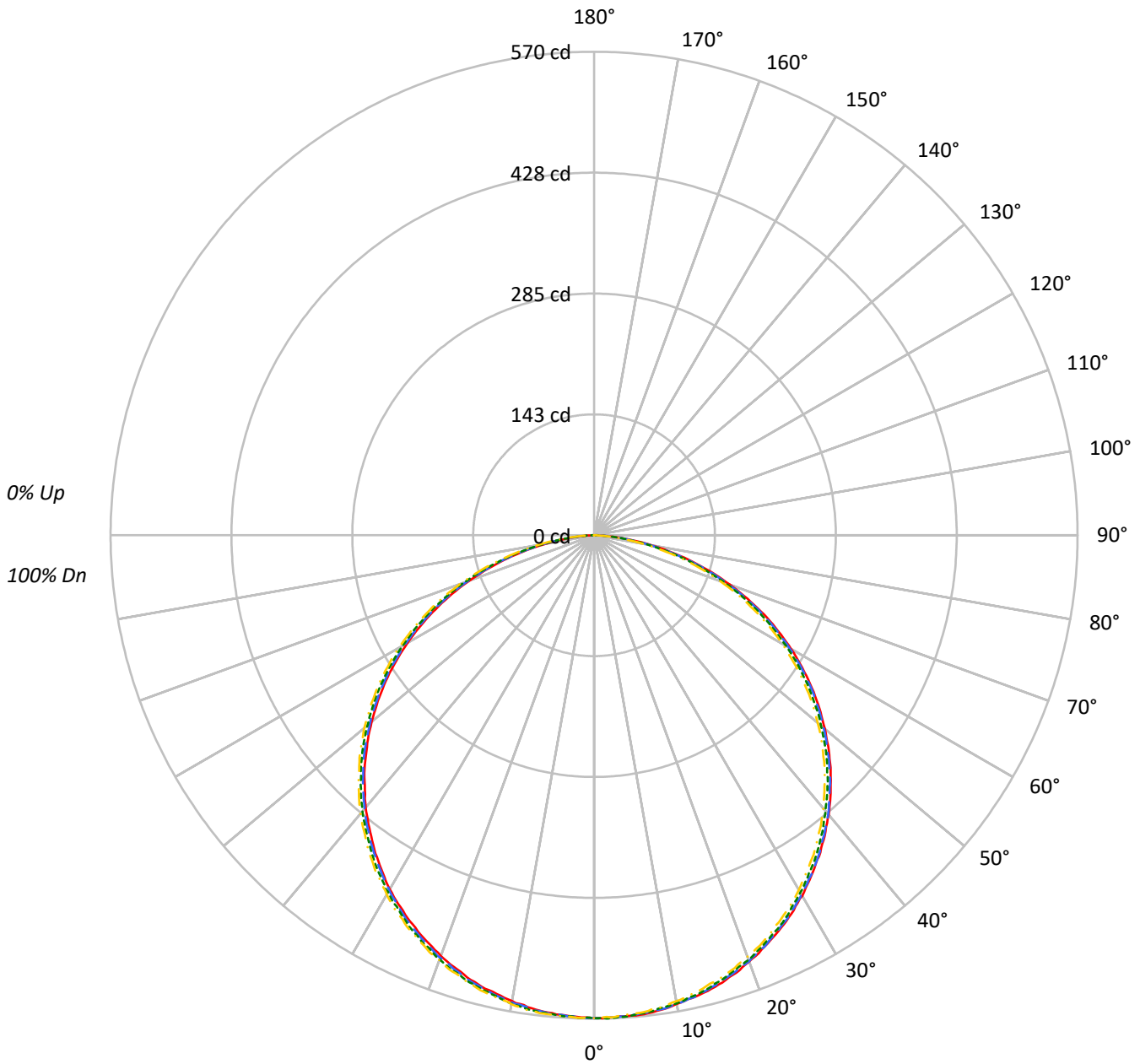
Lumens per Lamp: N/A
 Luminaire Lumens: 1662.2 lumens
 Efficiency: N/A
 Efficacy: 99.5 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

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			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°	2724	2724	2724	2724
5°	2729	2723	2716	2722
10°	2726	2723	2709	2725
15°	2731	2713	2700	2715
20°	2723	2713	2688	2710
25°	2717	2703	2672	2700
30°	2712	2686	2661	2685
35°	2700	2674	2640	2671
40°	2687	2652	2615	2653
45°	2668	2630	2584	2631
50°	2645	2600	2547	2594
55°	2612	2563	2501	2556
60°	2566	2505	2430	2494
65°	2501	2421	2331	2412
70°	2383	2293	2182	2281
75°	2209	2096	1954	2070
80°	1937	1774	1590	1741
85°	1482	1251	983	1208

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	3.2
10°-20°	154.8	9.3
20°-30°	235.6	14.2
30°-40°	286.1	17.2
40°-50°	299.6	18.0
50°-60°	274.0	16.5
60°-70°	210.9	12.7
70°-80°	119.2	7.2
80°-90°	28.1	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
0°-30°	444.3	26.7
0°-40°	730.4	43.9
0°-60°	1304.0	78.5
0°-90°	1662.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1662.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	569	569	569	569	569	
5°	568	567	566	567	568	54
15°	551	548	545	548	551	156
25°	515	512	506	512	515	237
35°	462	458	452	457	462	289
45°	394	389	382	389	394	304
55°	313	307	300	306	313	280
65°	221	214	206	213	221	218
75°	120	113	106	112	120	126
85°	27	23	18	22	27	33
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°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4
0.5°	569.3	569.1	569.5	569.0	569.6	570.0	569.0	569.4	569.0	569.3	568.7
1°	569.7	568.8	569.5	569.3	569.3	569.5	568.6	568.9	568.6	569.0	569.4
1.5°	569.2	569.2	568.9	569.3	570.0	569.4	568.2	568.8	568.8	568.6	569.2
2°	568.9	568.5	568.8	569.2	569.7	569.2	568.9	568.2	568.1	568.1	568.1
2.5°	568.8	569.0	568.6	569.2	569.3	569.2	568.3	568.1	567.9	567.9	567.9
3°	568.0	569.2	568.4	568.6	568.8	568.6	567.5	568.5	567.8	567.3	568.1
3.5°	568.3	569.3	568.2	568.6	568.9	568.1	567.5	568.1	567.1	567.2	567.2
4°	568.2	568.6	568.1	568.7	568.5	567.8	566.4	567.5	566.6	567.4	566.6
4.5°	568.1	568.6	567.3	568.5	567.9	567.7	566.4	566.4	566.6	566.8	566.5
5°	568.3	568.1	567.3	567.7	567.1	567.4	565.9	566.1	565.6	565.4	567.0
5.5°	567.9	567.7	566.8	566.7	566.6	566.7	565.7	565.3	565.5	564.8	566.1
6°	567.7	567.7	566.4	566.8	566.6	565.5	565.3	565.1	565.0	564.3	565.1
6.5°	567.1	567.4	566.0	565.8	565.9	565.7	564.4	564.3	564.2	563.8	564.6
7°	566.8	567.0	565.4	565.6	565.3	564.9	562.8	563.2	563.5	562.9	564.6
7.5°	565.8	565.6	564.6	564.5	563.8	564.5	562.8	562.7	562.4	562.2	563.5
8°	565.2	564.5	564.3	564.3	562.9	563.8	562.3	561.7	561.8	561.5	561.8
8.5°	564.5	563.7	564.1	562.9	562.6	563.0	561.4	561.1	560.1	560.9	561.3
9°	563.7	562.8	563.1	562.5	561.8	562.3	560.0	560.4	559.4	559.8	560.4
9.5°	562.4	562.4	561.8	561.3	561.3	561.4	558.5	558.9	559.2	559.0	560.2
10°	561.1	561.2	560.7	560.9	560.6	560.4	557.8	557.9	557.7	558.6	559.2
10.5°	560.4	560.4	560.4	559.4	559.5	558.8	557.1	556.8	556.5	557.3	558.0
11°	559.5	559.5	559.5	558.9	558.3	558.0	555.9	556.5	555.4	555.7	556.7
11.5°	558.2	558.9	558.1	557.4	556.4	557.2	554.9	555.0	553.7	555.0	555.7
12°	557.8	557.5	557.4	556.2	555.9	556.3	553.2	554.5	552.9	553.4	555.0
12.5°	556.8	556.3	556.9	555.2	555.2	555.2	552.0	553.4	551.4	552.3	553.6
13°	555.7	556.1	555.5	553.9	553.9	553.8	551.2	551.7	550.3	551.4	551.8
13.5°	554.6	555.0	553.6	552.8	552.7	552.4	549.6	550.8	549.8	550.3	550.2
14°	553.6	553.8	552.3	552.1	551.5	550.0	547.7	549.2	548.4	549.3	549.4
14.5°	552.3	552.1	550.8	550.2	550.0	549.2	546.2	547.4	546.7	547.6	548.1
15°	551.4	550.6	549.7	549.5	547.8	548.1	545.3	546.1	545.1	545.5	547.1
15.5°	549.6	549.4	548.4	547.7	546.6	546.5	544.2	544.4	544.0	544.0	545.8
16°	548.7	547.8	546.7	546.5	545.6	545.3	542.7	542.9	542.5	543.0	544.2
16.5°	546.9	546.3	545.2	544.6	543.7	543.8	541.1	541.5	540.1	541.5	542.6
17°	544.8	544.4	543.6	543.7	542.1	542.2	539.5	540.2	538.3	539.3	540.3
17.5°	543.7	543.1	542.3	541.3	540.1	540.5	538.0	538.6	536.7	537.5	538.8
18°	542.5	541.7	540.6	539.7	538.9	538.6	536.6	536.5	535.0	535.8	537.3
18.5°	540.6	540.1	539.1	537.9	536.8	537.0	534.0	534.3	533.6	534.0	534.9
19°	538.3	538.7	537.3	536.3	535.7	535.1	532.3	532.5	531.5	532.3	532.6
19.5°	536.5	537.2	536.0	534.5	533.8	533.4	530.8	530.5	529.9	530.5	531.3
20°	534.8	534.9	534.4	533.2	532.9	531.8	528.9	528.6	528.0	528.5	530.0
20.5°	532.8	532.7	531.8	530.9	530.8	529.7	527.2	526.8	525.5	526.5	528.6
21°	531.6	530.7	530.1	529.2	528.5	527.8	525.4	524.7	523.6	525.2	526.2
21.5°	529.7	529.2	528.5	527.9	526.4	525.7	523.3	522.5	521.5	523.3	523.8
22°	527.1	527.0	526.5	526.0	524.6	523.2	521.7	521.5	519.4	520.7	521.9

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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°	524.9	524.9	525.0	523.6	522.2	521.0	519.5	519.0	517.4	518.5	519.6
23°	523.1	522.8	522.7	521.2	520.1	519.7	517.1	517.2	515.3	516.7	517.7
23.5°	521.0	521.2	520.1	519.1	518.3	517.5	514.8	515.1	513.5	515.0	515.5
24°	518.9	519.2	517.9	517.5	515.8	515.1	512.8	512.4	511.3	512.2	513.4
24.5°	516.9	516.8	515.7	515.0	513.7	512.9	509.6	509.7	508.4	509.3	511.0
25°	514.7	514.1	513.7	512.6	512.0	510.6	507.4	507.9	506.2	507.1	508.4
25.5°	512.3	512.0	511.3	510.1	509.6	508.4	505.6	506.0	504.4	504.9	506.1
26°	510.3	510.0	509.0	507.9	507.7	506.1	503.1	503.5	502.0	502.9	504.6
26.5°	508.1	507.9	507.1	505.5	504.8	503.3	500.6	501.1	499.7	500.2	501.8
27°	505.6	505.5	504.8	503.2	502.6	500.6	498.5	498.6	496.7	497.4	498.9
27.5°	503.4	503.6	501.8	501.2	499.8	497.9	496.1	496.0	494.0	495.1	496.2
28°	501.2	500.2	499.5	498.9	496.5	495.5	493.5	493.0	492.0	493.4	493.8
28.5°	497.6	497.7	496.9	496.3	493.7	492.6	490.9	490.5	489.6	490.8	490.9
29°	495.5	495.5	494.2	493.6	491.6	490.6	488.3	488.0	487.3	488.2	488.6
29.5°	492.4	493.4	492.1	491.0	488.8	488.2	485.8	485.1	484.1	485.4	486.0
30°	490.9	490.6	489.1	488.0	486.3	484.8	482.9	482.3	481.8	482.3	483.2
30.5°	487.9	487.5	486.3	484.9	484.0	482.0	479.7	479.6	479.1	479.3	480.0
31°	484.7	484.4	483.7	482.4	480.9	479.1	476.9	476.5	476.2	476.6	477.7
31.5°	481.9	481.3	481.2	479.5	478.0	476.2	473.6	473.3	473.0	473.3	474.6
32°	479.2	479.0	477.9	477.1	475.0	474.0	470.8	470.8	470.0	470.5	471.8
32.5°	476.4	476.2	475.7	473.9	471.9	471.5	468.0	467.4	466.7	467.8	468.5
33°	473.7	473.5	473.2	471.3	469.6	468.5	465.3	464.5	463.8	464.8	466.0
33.5°	470.7	470.6	470.2	468.0	466.4	465.5	462.2	462.3	460.8	461.7	462.5
34°	467.4	468.1	467.1	465.2	464.0	462.1	459.5	459.5	457.8	458.9	459.6
34.5°	464.3	465.2	464.3	461.9	460.8	459.3	456.8	456.1	455.2	455.6	456.7
35°	462.4	462.1	461.4	458.6	457.8	456.3	453.3	452.8	452.0	452.7	453.9
35.5°	459.3	458.9	458.3	456.3	454.6	452.8	449.8	449.2	448.1	450.0	450.6
36°	455.7	455.6	455.2	453.2	451.5	449.1	446.8	447.0	445.0	446.8	448.0
36.5°	452.5	452.7	451.3	450.4	447.9	446.0	443.3	443.4	441.7	443.3	444.1
37°	449.9	449.8	448.3	446.7	444.6	442.9	440.1	440.5	438.4	439.6	440.7
37.5°	446.8	446.1	445.6	443.4	441.7	439.4	437.2	436.6	435.2	436.3	437.7
38°	443.4	443.0	442.0	440.6	438.3	436.2	434.2	432.8	432.2	433.5	434.7
38.5°	439.5	439.9	438.6	436.7	434.5	432.9	430.9	429.5	428.7	430.6	431.6
39°	436.5	436.2	435.8	433.5	431.0	430.0	427.2	426.5	425.3	427.2	428.1
39.5°	433.0	432.8	432.6	429.8	427.9	426.6	423.8	422.9	422.2	423.0	424.3
40°	430.2	429.3	429.3	426.4	424.6	422.9	420.6	419.6	418.8	419.7	420.7
40.5°	427.0	426.3	425.8	422.9	420.8	419.2	416.7	416.4	415.1	416.0	417.3
41°	423.4	422.9	421.9	420.1	417.6	415.7	412.9	412.5	411.8	412.1	413.9
41.5°	420.0	419.4	418.3	416.6	414.0	412.6	409.5	408.6	407.5	408.8	410.2
42°	416.2	415.5	414.8	413.0	410.7	408.5	405.9	405.3	403.9	405.2	406.6
42.5°	412.7	412.4	410.9	409.7	407.1	405.0	402.2	401.4	400.2	401.9	403.5
43°	409.1	409.2	407.2	405.7	403.5	402.0	398.5	398.1	396.8	397.8	399.3
43.5°	405.3	405.5	404.3	401.8	400.3	398.3	395.0	393.9	393.4	394.5	395.8
44°	401.8	401.5	400.5	398.1	396.5	394.1	391.4	390.3	389.8	390.9	392.0
44.5°	398.1	397.9	396.6	394.3	392.0	390.2	387.9	386.6	385.8	387.5	388.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	394.3	393.7	392.7	390.7	388.7	386.5	384.0	383.0	382.0	383.2	384.7
45.5°	390.9	390.3	388.8	387.6	385.2	383.2	380.4	379.1	377.9	379.7	380.8
46°	386.8	386.9	385.1	383.4	381.5	379.4	375.8	375.1	373.8	375.8	377.3
46.5°	382.6	382.4	381.3	379.1	377.7	375.5	372.2	371.2	370.0	372.0	373.4
47°	379.0	378.6	377.2	375.5	373.9	371.5	368.1	367.3	366.2	368.0	369.7
47.5°	375.2	374.7	373.1	371.3	369.7	367.5	364.1	363.3	362.6	363.6	365.4
48°	371.3	371.1	369.0	367.6	365.5	363.6	360.6	359.7	358.5	359.7	361.1
48.5°	366.9	366.9	365.4	363.6	361.2	359.4	356.4	355.8	354.7	355.4	357.6
49°	363.0	363.1	361.6	359.6	357.4	355.2	352.6	351.7	350.4	351.6	353.2
49.5°	359.1	359.3	357.5	355.6	353.2	350.9	348.3	347.5	346.3	347.8	348.7
50°	355.4	355.1	353.1	351.3	349.3	347.2	344.0	343.7	342.2	343.9	344.9
50.5°	350.9	350.9	349.1	347.1	345.6	343.5	340.2	339.5	337.9	339.4	341.0
51°	346.6	346.7	344.9	343.1	341.6	339.0	335.7	335.0	333.8	334.9	336.7
51.5°	342.7	342.6	341.0	338.9	337.5	334.6	332.1	330.6	329.5	330.9	332.4
52°	338.9	338.1	336.9	334.9	332.8	331.0	328.0	326.9	325.2	326.7	328.2
52.5°	334.8	334.1	332.7	330.7	328.2	326.6	323.9	322.7	321.2	322.2	323.9
53°	330.5	330.1	328.3	326.3	324.1	321.8	319.4	318.2	316.8	318.6	319.8
53.5°	325.9	325.7	324.1	322.4	320.0	317.5	315.2	313.4	312.6	314.3	315.4
54°	321.9	321.8	320.2	317.7	315.5	313.6	310.6	309.3	308.1	309.5	311.4
54.5°	317.9	317.4	315.9	313.3	311.8	309.5	305.7	304.7	304.2	304.9	306.9
55°	313.2	312.9	311.8	308.9	307.3	305.0	301.4	300.7	299.9	300.6	302.3
55.5°	308.6	308.2	307.1	304.8	302.8	300.2	297.2	296.0	295.2	296.2	297.6
56°	304.6	303.8	302.3	300.3	298.0	295.6	292.9	291.6	290.9	291.8	293.6
56.5°	300.0	299.7	298.2	295.6	293.6	291.0	288.3	287.6	286.3	287.7	289.2
57°	295.4	295.3	293.4	291.0	289.3	286.8	283.8	283.0	281.5	283.2	284.9
57.5°	291.0	290.8	289.2	286.6	284.9	282.5	279.0	277.9	277.1	278.4	280.2
58°	286.6	285.9	284.6	281.9	280.3	277.7	274.4	273.4	272.5	273.7	275.3
58.5°	281.9	281.2	279.8	277.4	275.5	272.7	269.8	268.9	268.1	269.0	270.7
59°	277.4	277.0	275.1	272.8	271.1	268.4	265.5	264.3	263.2	264.5	265.9
59.5°	273.0	272.3	270.8	268.7	266.6	263.8	260.8	259.8	258.6	260.1	261.3
60°	268.2	267.6	265.8	264.0	261.8	259.1	256.5	255.2	254.0	255.5	257.1
60.5°	263.6	262.8	261.2	259.4	256.6	254.7	251.7	250.5	249.4	250.4	252.4
61°	259.0	257.9	256.4	254.4	252.1	249.9	247.1	245.6	244.7	246.0	247.8
61.5°	253.9	253.2	251.7	249.5	247.4	245.1	242.5	240.6	239.7	241.1	242.9
62°	249.4	248.5	247.0	244.7	242.7	240.3	237.7	236.1	234.9	236.4	238.1
62.5°	244.6	243.8	242.2	240.0	237.8	235.7	232.8	231.3	230.0	231.6	233.1
63°	239.9	239.0	237.4	235.3	233.2	230.9	227.8	226.7	225.4	226.6	228.2
63.5°	235.5	234.1	232.7	230.2	228.6	226.0	223.2	221.7	220.8	221.6	223.7
64°	230.3	229.5	227.8	225.6	223.9	221.2	218.0	216.8	215.9	216.9	219.0
64.5°	225.6	224.7	223.0	220.5	218.7	216.4	213.0	211.9	210.8	211.9	214.0
65°	220.9	220.1	218.2	215.6	213.9	211.5	208.1	207.0	205.9	207.1	209.0
65.5°	216.0	215.1	213.4	210.5	209.1	206.4	203.1	202.2	201.2	202.3	204.1
66°	210.6	210.1	208.2	205.6	204.1	201.5	198.2	197.0	196.4	197.3	199.2
66.5°	205.5	205.0	203.2	200.8	199.1	196.6	193.2	192.2	191.4	192.2	194.0
67°	200.8	199.8	198.2	195.8	194.3	191.6	188.7	187.1	186.5	187.2	189.2

TEST NUMBER: P869727
 CATALOG NUMBER: SMX18SLSFS010-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	195.7	194.9	193.1	190.6	189.3	186.7	183.7	182.0	181.5	182.2	184.0
68°	190.7	189.9	188.1	185.4	184.3	181.6	178.6	177.3	176.4	177.4	179.2
68.5°	185.6	184.9	183.2	180.7	179.2	176.6	173.5	172.3	171.3	172.3	174.3
69°	180.7	180.2	178.2	175.9	174.5	171.4	168.4	167.0	166.2	167.1	169.3
69.5°	175.8	175.1	173.1	170.3	169.1	166.2	163.3	161.8	161.1	161.9	164.4
70°	170.4	170.0	167.9	165.3	163.9	161.3	158.2	156.9	156.0	156.9	159.0
70.5°	165.3	164.9	162.7	160.3	159.0	156.4	153.4	152.0	151.2	152.1	154.1
71°	160.3	159.8	158.0	155.4	154.0	151.4	148.3	147.0	146.2	147.1	148.9
71.5°	155.4	154.9	152.8	150.0	148.8	146.2	143.2	141.7	141.0	142.0	143.8
72°	150.4	149.6	147.6	145.0	143.8	141.0	138.1	136.6	136.1	136.9	138.9
72.5°	145.3	144.3	142.3	140.0	138.7	136.1	133.1	131.8	131.0	132.0	133.9
73°	140.1	139.1	137.2	134.7	133.7	131.1	128.2	126.6	125.7	126.9	128.8
73.5°	134.9	134.0	132.4	129.7	128.5	125.9	123.1	121.4	120.7	122.1	123.7
74°	129.8	128.9	127.0	124.6	123.4	120.8	118.1	116.5	115.7	116.9	118.7
74.5°	124.7	123.8	122.0	119.3	118.5	115.9	113.1	111.6	110.8	111.9	113.5
75°	119.5	118.7	116.9	114.1	113.4	110.6	108.0	106.6	105.7	106.9	108.5
75.5°	114.5	113.8	111.9	109.2	108.3	105.7	103.2	101.4	100.8	102.1	103.7
76°	109.5	108.8	106.9	104.2	103.3	100.6	98.1	96.4	95.9	97.0	98.7
76.5°	104.4	103.7	101.9	99.2	98.4	95.7	93.1	91.7	90.9	91.9	93.6
77°	99.6	98.6	96.9	94.2	93.4	90.7	88.2	86.7	86.0	86.9	88.6
77.5°	94.7	93.6	92.1	89.3	88.3	85.7	83.3	81.8	81.1	82.2	83.9
78°	89.6	88.6	87.1	84.5	83.5	81.0	78.6	76.8	76.3	77.2	79.0
78.5°	84.7	83.7	82.2	79.6	78.8	76.1	73.6	72.2	71.6	72.5	74.1
79°	79.9	78.9	77.2	74.7	73.8	71.1	68.8	67.4	66.7	67.7	69.3
79.5°	75.1	74.2	72.5	70.0	69.1	66.6	64.2	62.9	62.2	63.2	64.7
80°	70.3	69.2	67.7	65.3	64.4	62.0	59.7	58.3	57.7	58.7	60.3
80.5°	65.6	64.6	63.2	60.7	59.9	57.4	55.2	53.8	53.1	54.2	55.9
81°	60.9	59.9	58.7	56.2	55.5	53.0	50.7	49.4	48.8	49.8	51.4
81.5°	56.3	55.5	54.1	51.7	50.9	48.6	46.3	45.1	44.6	45.4	46.9
82°	51.8	51.1	49.4	47.2	46.5	44.2	42.0	40.7	40.2	41.1	42.6
82.5°	47.3	46.7	45.0	42.7	42.2	40.0	38.0	36.6	36.1	37.0	38.4
83°	42.9	42.0	40.7	38.6	38.2	36.0	34.0	32.7	32.2	33.1	34.6
83.5°	38.8	37.9	36.5	34.6	34.1	31.9	30.0	28.8	28.4	29.2	30.5
84°	34.7	33.9	32.5	30.7	30.2	28.1	26.2	25.0	24.6	25.4	26.8
84.5°	30.8	30.1	28.8	26.9	26.4	24.5	22.7	21.5	21.2	22.0	23.1
85°	27.0	26.3	25.1	23.3	22.8	21.0	19.2	18.1	17.9	18.5	19.7
85.5°	23.3	22.7	21.6	19.9	19.3	17.5	15.9	15.1	14.9	15.4	16.5
86°	20.0	19.4	18.4	16.8	16.2	14.5	13.1	12.2	12.0	12.5	13.6
86.5°	16.8	16.4	15.4	14.0	13.3	11.9	10.7	9.9	9.7	10.4	11.1
87°	14.1	13.6	12.7	11.3	10.9	9.6	8.4	7.7	7.6	8.1	8.9
87.5°	11.4	11.0	10.2	8.9	8.5	7.4	6.3	5.6	5.6	6.1	6.8
88°	8.9	8.6	7.8	6.7	6.4	5.3	4.4	3.9	3.8	4.2	4.9
88.5°	6.7	6.3	5.7	4.8	4.6	3.6	2.8	2.3	2.2	2.6	3.2
89°	4.8	4.5	4.0	3.3	3.3	2.3	1.5	1.2	1.0	1.3	1.8
89.5°	3.3	3.1	2.7	2.0	1.8	1.1	0.5	1.0	0.9	1.2	0.6

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



TEST NUMBER: P869727
CATALOG NUMBER: SMX18SLSFS010-1500LM-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: P869727
 CATALOG NUMBER: SMX18SLSFS010-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	569.4	569.4	569.4	569.4	569.4	569.4
0.5°	569.9	568.7	570.1	569.0	569.0	569.3
1°	569.3	568.6	570.4	569.2	568.9	569.7
1.5°	569.2	569.2	569.9	569.2	569.0	569.2
2°	568.8	569.1	569.3	569.2	569.9	568.9
2.5°	568.5	568.2	569.9	568.8	568.9	568.8
3°	569.0	567.8	569.9	568.4	569.4	568.0
3.5°	568.6	568.4	569.2	568.1	568.9	568.3
4°	568.4	567.9	569.1	568.3	568.2	568.2
4.5°	568.3	567.3	568.8	568.0	568.1	568.1
5°	567.9	566.9	568.9	567.5	567.8	568.3
5.5°	566.6	566.4	568.6	567.3	568.1	567.9
6°	565.9	566.1	568.7	567.1	567.1	567.7
6.5°	565.3	566.3	568.0	567.1	566.9	567.1
7°	565.0	565.0	567.4	566.1	566.7	566.8
7.5°	564.3	564.9	566.7	565.7	566.5	565.8
8°	563.5	564.2	565.3	565.3	565.7	565.2
8.5°	562.6	563.1	564.6	564.4	564.2	564.5
9°	561.8	562.4	564.4	563.1	564.1	563.7
9.5°	560.4	561.7	563.4	562.4	562.9	562.4
10°	559.7	560.9	562.1	561.3	561.8	561.1
10.5°	558.4	559.6	561.1	559.5	561.6	560.4
11°	557.6	558.4	560.0	558.6	560.1	559.5
11.5°	556.1	557.0	558.9	558.0	558.8	558.2
12°	554.9	555.4	558.2	557.2	557.8	557.8
12.5°	553.8	554.6	556.4	555.7	557.0	556.8
13°	553.0	553.2	554.9	555.0	555.7	555.7
13.5°	551.6	552.4	553.9	554.0	554.5	554.6
14°	550.6	550.9	553.2	553.0	552.8	553.6
14.5°	549.6	549.9	551.3	551.5	551.9	552.3
15°	548.1	548.1	549.7	549.6	551.3	551.4
15.5°	545.8	547.3	548.6	547.7	550.2	549.6
16°	544.2	546.0	547.2	546.9	548.4	548.7
16.5°	542.7	544.1	545.8	545.4	547.4	546.9
17°	541.6	541.8	544.1	543.3	545.7	544.8
17.5°	539.8	540.6	543.3	541.6	544.1	543.7
18°	538.0	539.4	541.6	540.9	542.5	542.5
18.5°	536.3	537.9	539.4	539.4	540.3	540.6
19°	534.4	535.9	537.1	537.2	538.2	538.3
19.5°	532.3	534.1	535.3	535.0	536.6	536.5
20°	530.8	532.3	533.8	533.2	534.7	534.8
20.5°	529.6	530.8	531.4	531.6	533.0	532.8
21°	527.8	528.3	529.7	530.2	531.4	531.6
21.5°	525.7	525.7	527.8	528.6	529.9	529.7
22°	523.4	523.6	525.7	526.3	528.2	527.1

TEST NUMBER: P869727
 CATALOG NUMBER: SMX18SLSFS010-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	520.6	522.4	523.6	523.8	525.5	524.9
23°	518.8	520.3	521.9	521.9	523.0	523.1
23.5°	516.4	517.6	519.6	520.4	521.0	521.0
24°	514.4	515.4	517.9	517.5	518.9	518.9
24.5°	512.9	513.8	515.6	515.5	516.8	516.9
25°	510.4	511.5	513.2	513.9	515.2	514.7
25.5°	507.9	509.6	510.6	511.7	513.4	512.3
26°	505.7	506.4	508.4	509.1	510.5	510.3
26.5°	503.3	503.9	506.4	506.1	507.7	508.1
27°	500.5	501.3	504.4	504.0	505.6	505.6
27.5°	497.7	498.4	501.6	502.0	504.1	503.4
28°	495.3	495.8	498.7	500.0	501.4	501.2
28.5°	492.4	494.0	496.0	497.2	498.7	497.6
29°	490.4	491.5	494.1	494.6	495.3	495.5
29.5°	487.9	488.7	491.3	491.9	493.5	492.4
30°	485.6	486.0	488.3	488.7	491.1	490.9
30.5°	482.0	484.0	485.1	485.6	488.1	487.9
31°	479.2	480.1	482.7	483.4	485.2	484.7
31.5°	476.3	477.5	480.4	480.2	482.8	481.9
32°	474.1	474.8	477.7	477.5	480.4	479.2
32.5°	471.6	472.3	474.6	475.0	477.9	476.4
33°	468.5	469.4	472.0	472.8	474.7	473.7
33.5°	464.6	466.4	468.9	469.7	471.8	470.7
34°	462.0	463.3	465.7	466.2	468.5	467.4
34.5°	458.6	460.4	462.7	463.3	465.6	464.3
35°	455.7	457.4	459.7	460.6	462.6	462.4
35.5°	453.0	453.8	456.9	457.7	459.3	459.3
36°	449.9	450.3	453.5	454.5	456.0	455.7
36.5°	446.8	447.1	450.3	450.6	452.9	452.5
37°	443.5	443.9	447.5	447.5	449.6	449.9
37.5°	439.8	441.2	444.2	444.1	447.0	446.8
38°	436.3	437.7	441.0	441.2	443.9	443.4
38.5°	433.0	434.5	437.4	438.1	440.7	439.5
39°	429.5	431.6	434.4	434.8	436.5	436.5
39.5°	426.3	428.6	431.0	431.1	433.3	433.0
40°	422.8	424.8	427.6	428.4	429.7	430.2
40.5°	419.9	421.1	424.1	425.1	426.5	427.0
41°	416.6	417.9	420.5	421.6	422.7	423.4
41.5°	412.8	414.7	417.0	417.9	419.5	420.0
42°	409.3	410.8	413.7	414.1	416.5	416.2
42.5°	405.1	406.7	410.0	410.4	412.9	412.7
43°	401.4	403.5	405.8	407.1	409.5	409.1
43.5°	397.5	399.5	401.8	403.8	405.6	405.3
44°	394.1	395.4	398.1	399.7	401.9	401.8
44.5°	390.3	392.3	395.1	395.5	398.2	398.1

TEST NUMBER: P869727
 CATALOG NUMBER: SMX18SLSFS010-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	386.6	388.9	391.6	391.7	394.0	394.3
45.5°	382.6	385.2	387.6	388.1	390.0	390.9
46°	378.8	381.2	384.0	384.4	386.4	386.8
46.5°	374.9	377.2	380.1	381.2	382.6	382.6
47°	371.0	373.3	376.3	377.2	378.8	379.0
47.5°	367.0	369.6	372.3	373.1	374.7	375.2
48°	363.2	365.5	368.4	369.2	371.1	371.3
48.5°	359.2	361.1	364.3	365.3	367.2	366.9
49°	355.0	357.1	360.0	361.2	363.1	363.0
49.5°	351.1	353.1	355.7	357.3	359.2	359.1
50°	347.0	348.5	351.4	353.5	355.0	355.4
50.5°	342.7	344.6	347.3	349.5	350.7	350.9
51°	338.8	340.9	343.6	344.9	346.7	346.6
51.5°	334.8	336.4	339.6	340.6	342.9	342.7
52°	330.6	332.0	335.6	336.3	338.9	338.9
52.5°	326.2	328.1	331.4	332.7	334.6	334.8
53°	321.9	324.0	327.2	328.6	330.8	330.5
53.5°	318.0	319.8	322.7	323.6	326.3	325.9
54°	313.4	315.4	318.5	319.4	321.9	321.9
54.5°	309.1	310.8	314.1	315.5	317.2	317.9
55°	304.8	306.5	309.6	311.0	313.2	313.2
55.5°	300.6	302.0	305.1	306.8	309.0	308.6
56°	296.1	297.6	300.8	302.4	304.6	304.6
56.5°	291.6	293.1	296.4	297.6	300.3	300.0
57°	286.8	288.5	291.8	293.2	295.7	295.4
57.5°	282.1	283.8	287.2	288.1	290.9	291.0
58°	277.8	279.4	282.5	284.0	286.6	286.6
58.5°	273.5	274.7	277.6	279.8	281.9	281.9
59°	269.0	270.2	273.1	275.3	277.4	277.4
59.5°	264.1	265.6	268.3	270.6	272.7	273.0
60°	259.7	260.7	264.0	265.8	268.2	268.2
60.5°	254.5	255.9	259.0	261.1	263.6	263.6
61°	249.8	251.1	254.5	256.2	258.7	259.0
61.5°	245.2	246.8	250.1	251.4	253.8	253.9
62°	240.4	242.1	245.4	246.7	249.2	249.4
62.5°	235.7	237.3	240.7	242.1	244.4	244.6
63°	230.8	232.2	235.7	237.1	239.9	239.9
63.5°	226.1	227.4	231.0	232.4	234.9	235.5
64°	221.3	222.8	226.1	227.5	229.6	230.3
64.5°	216.4	218.1	221.4	223.0	224.8	225.6
65°	211.5	213.1	216.2	218.1	220.0	220.9
65.5°	206.9	208.2	211.3	213.0	215.1	216.0
66°	201.9	202.9	206.4	208.2	210.2	210.6
66.5°	196.8	198.3	201.4	203.4	205.3	205.5
67°	191.8	193.3	196.4	198.5	200.6	200.8

TEST NUMBER: P869727
 CATALOG NUMBER: SMX18SLSFS010-1500LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	186.9	188.2	191.1	193.1	195.5	195.7
68°	181.8	183.0	186.2	188.3	190.6	190.7
68.5°	177.0	178.1	181.3	183.4	185.2	185.6
69°	172.3	173.3	176.0	178.1	180.2	180.7
69.5°	167.1	168.3	171.0	173.1	175.2	175.8
70°	161.9	163.1	165.9	168.3	170.2	170.4
70.5°	156.9	157.8	161.0	163.1	165.2	165.3
71°	151.7	152.7	155.9	157.9	160.1	160.3
71.5°	146.5	147.7	150.7	153.0	155.1	155.4
72°	141.4	142.8	145.7	147.9	149.8	150.4
72.5°	136.6	137.5	140.6	142.6	144.6	145.3
73°	131.5	132.2	135.4	137.4	139.5	140.1
73.5°	126.5	127.4	130.6	132.4	134.4	134.9
74°	121.4	122.1	125.3	127.2	129.4	129.8
74.5°	116.5	117.1	120.2	122.3	124.2	124.7
75°	111.3	112.0	115.0	117.3	118.9	119.5
75.5°	106.3	107.0	110.1	112.1	113.9	114.5
76°	101.3	102.0	104.9	107.0	108.9	109.5
76.5°	96.3	97.0	100.0	102.1	103.8	104.4
77°	91.2	91.9	95.0	97.0	98.9	99.6
77.5°	86.3	87.2	90.0	92.3	94.1	94.7
78°	81.5	82.3	85.2	87.3	89.1	89.6
78.5°	76.6	77.5	80.5	82.6	84.3	84.7
79°	72.0	72.7	75.6	77.6	79.3	79.9
79.5°	67.1	68.0	70.7	72.8	74.6	75.1
80°	62.5	63.2	65.9	68.0	69.8	70.3
80.5°	58.1	58.7	61.5	63.4	65.1	65.6
81°	53.7	54.2	56.9	58.9	60.5	60.9
81.5°	49.2	49.7	52.4	54.3	55.9	56.3
82°	44.8	45.2	47.9	49.8	51.4	51.8
82.5°	40.7	41.1	43.5	45.3	47.0	47.3
83°	36.7	36.9	39.1	40.9	42.6	42.9
83.5°	32.6	32.9	35.1	36.8	38.4	38.8
84°	28.7	29.0	31.2	32.8	34.3	34.7
84.5°	25.0	25.4	27.4	29.0	30.5	30.8
85°	21.5	22.0	23.9	25.4	26.6	27.0
85.5°	18.1	18.5	20.4	22.0	23.1	23.3
86°	15.1	15.6	17.1	18.6	19.8	20.0
86.5°	12.4	12.8	14.3	15.6	16.6	16.8
87°	10.1	10.3	11.7	12.8	13.7	14.1
87.5°	7.9	8.1	9.4	10.3	11.1	11.4
88°	5.9	5.8	7.0	8.1	8.8	8.9
88.5°	4.1	3.9	4.8	5.7	6.4	6.7
89°	2.6	2.6	3.3	3.9	4.5	4.8
89.5°	1.2	1.5	2.0	2.5	3.1	3.3

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869727
CATALOG NUMBER: SMX18SLSFS010-1500LM-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)