

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: P869728

Luminaire Tested: **SMX18SLSFS010-1500LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869728
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFS010-1500LM-3500K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

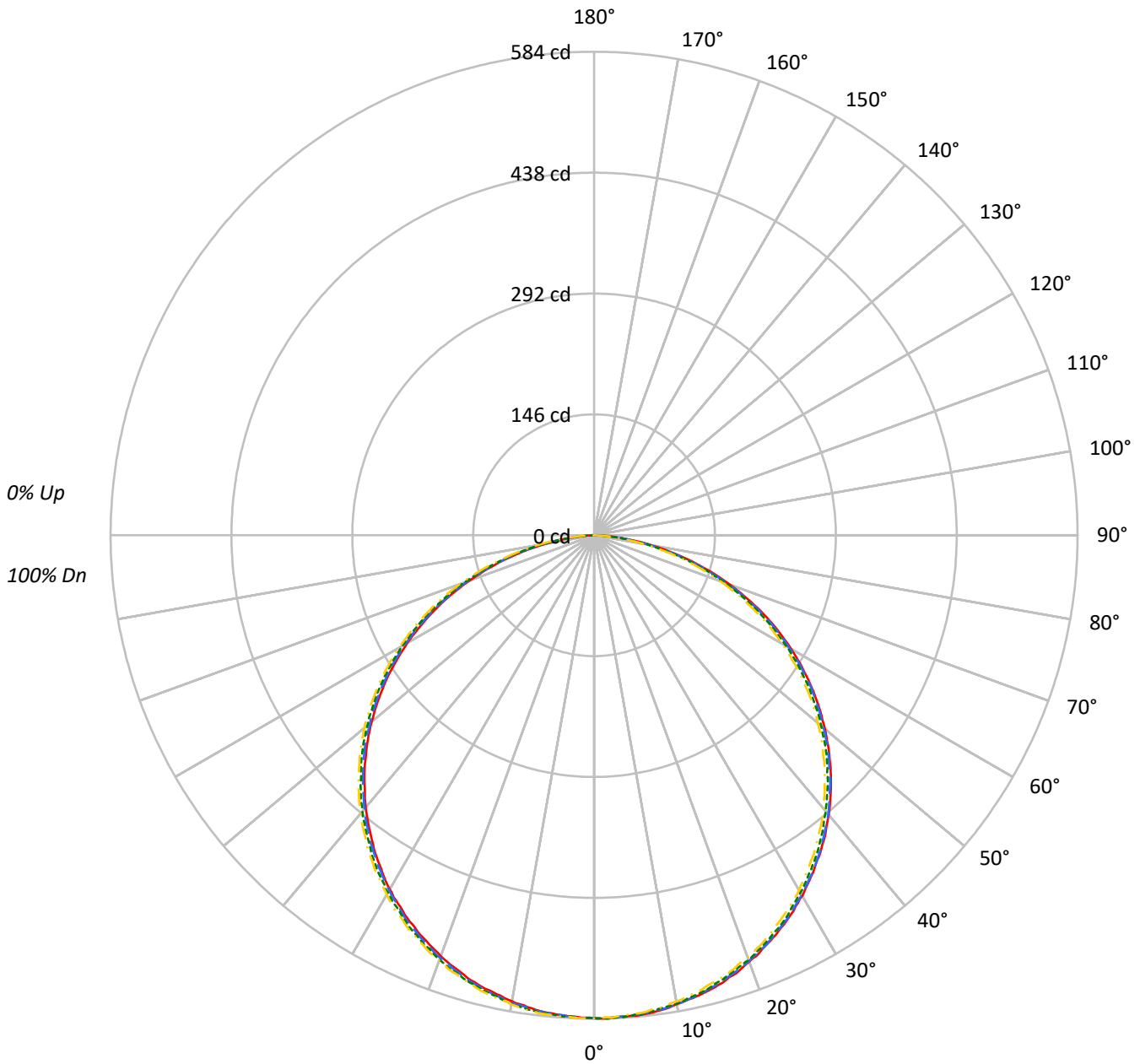
Lumens per Lamp: N/A
 Luminaire Lumens: 1703.7 lumens
 Efficiency: N/A
 Efficacy: 102.0 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 16.7
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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

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Luminous Intensity Polar Plot



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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	2792	2792	2792	2792
5°	2798	2791	2784	2791
10°	2794	2791	2777	2793
15°	2799	2781	2767	2782
20°	2790	2781	2755	2778
25°	2785	2770	2739	2768
30°	2779	2754	2728	2752
35°	2768	2741	2706	2738
40°	2754	2718	2681	2719
45°	2735	2695	2649	2697
50°	2711	2665	2610	2658
55°	2677	2627	2564	2620
60°	2630	2567	2491	2557
65°	2563	2481	2390	2473
70°	2444	2350	2237	2339
75°	2264	2148	2002	2122
80°	1984	1818	1628	1785
85°	1520	1279	1004	1235

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.2
10°-20°	158.6	9.3
20°-30°	241.5	14.2
30°-40°	293.2	17.2
40°-50°	307.1	18.0
50°-60°	280.8	16.5
60°-70°	216.2	12.7
70°-80°	122.2	7.2
80°-90°	28.8	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
0°-30°	455.4	26.7
0°-40°	748.7	43.9
0°-60°	1336.6	78.5
0°-90°	1703.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1703.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	584	584	584	584	584	
5°	583	581	580	581	583	55
15°	565	562	559	562	565	159
25°	528	525	519	524	528	243
35°	474	469	463	469	474	296
45°	404	398	392	399	404	312
55°	321	315	307	314	321	287
65°	226	219	211	218	226	223
75°	122	116	108	115	122	130
85°	28	23	18	22	28	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°	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6
0.5°	583.5	583.3	583.7	583.2	583.8	584.3	583.2	583.6	583.2	583.5	582.9
1°	584.0	583.0	583.7	583.6	583.5	583.7	582.8	583.2	582.9	583.3	583.6
1.5°	583.5	583.5	583.2	583.6	584.2	583.6	582.4	583.0	583.0	582.8	583.5
2°	583.1	582.7	583.0	583.5	584.0	583.4	583.2	582.4	582.3	582.3	582.3
2.5°	583.0	583.3	582.8	583.5	583.5	583.4	582.5	582.3	582.1	582.1	582.1
3°	582.2	583.4	582.6	582.9	583.0	582.9	581.7	582.7	582.0	581.5	582.3
3.5°	582.6	583.5	582.4	582.8	583.1	582.3	581.7	582.3	581.3	581.4	581.4
4°	582.4	582.9	582.3	582.9	582.7	582.0	580.5	581.7	580.8	581.6	580.8
4.5°	582.3	582.8	581.5	582.7	582.1	581.8	580.5	580.6	580.8	581.0	580.7
5°	582.6	582.3	581.5	581.8	581.2	581.6	580.1	580.3	579.8	579.6	581.1
5.5°	582.1	581.8	581.0	580.8	580.8	580.8	579.8	579.4	579.6	578.9	580.3
6°	581.8	581.8	580.6	580.9	580.8	579.6	579.4	579.2	579.2	578.4	579.2
6.5°	581.3	581.6	580.1	579.9	580.1	579.8	578.5	578.4	578.3	577.9	578.7
7°	580.9	581.1	579.6	579.7	579.4	579.0	576.9	577.3	577.6	577.0	578.7
7.5°	579.9	579.8	578.7	578.6	577.9	578.6	576.8	576.7	576.4	576.2	577.6
8°	579.3	578.6	578.4	578.4	577.0	577.9	576.4	575.7	575.8	575.5	575.9
8.5°	578.6	577.8	578.2	577.0	576.7	577.1	575.4	575.1	574.1	574.9	575.3
9°	577.8	576.8	577.2	576.6	575.9	576.3	574.0	574.4	573.4	573.7	574.4
9.5°	576.4	576.5	575.9	575.3	575.3	575.5	572.5	572.9	573.2	573.0	574.2
10°	575.2	575.2	574.8	574.9	574.6	574.4	571.8	571.8	571.6	572.6	573.2
10.5°	574.5	574.5	574.4	573.4	573.5	572.8	571.1	570.8	570.4	571.2	572.0
11°	573.4	573.4	573.5	572.9	572.3	572.0	569.8	570.4	569.3	569.6	570.7
11.5°	572.2	572.9	572.0	571.3	570.4	571.1	568.7	568.9	567.5	568.9	569.6
12°	571.7	571.4	571.3	570.1	569.8	570.2	567.1	568.4	566.7	567.3	568.9
12.5°	570.7	570.2	570.8	569.1	569.0	569.0	565.8	567.2	565.2	566.1	567.4
13°	569.6	570.0	569.3	567.7	567.7	567.7	564.9	565.5	564.1	565.2	565.6
13.5°	568.5	568.9	567.4	566.7	566.5	566.2	563.4	564.5	563.6	564.0	563.9
14°	567.4	567.7	566.1	565.9	565.3	563.7	561.4	562.9	562.1	563.0	563.2
14.5°	566.1	565.9	564.6	564.0	563.7	562.9	559.9	561.1	560.4	561.2	561.8
15°	565.2	564.3	563.4	563.2	561.5	561.8	558.9	559.8	558.7	559.1	560.8
15.5°	563.4	563.1	562.1	561.4	560.2	560.2	557.9	558.0	557.6	557.6	559.4
16°	562.4	561.5	560.4	560.1	559.3	558.9	556.2	556.5	556.1	556.5	557.9
16.5°	560.6	559.9	558.9	558.2	557.3	557.4	554.6	555.0	553.6	555.0	556.1
17°	558.4	558.0	557.2	557.3	555.6	555.8	553.0	553.7	551.7	552.8	553.8
17.5°	557.3	556.7	555.8	554.8	553.6	554.0	551.5	552.0	550.1	550.9	552.3
18°	556.1	555.2	554.2	553.2	552.4	552.0	550.0	549.9	548.3	549.2	550.7
18.5°	554.1	553.6	552.6	551.4	550.2	550.4	547.3	547.6	547.0	547.4	548.3
19°	551.7	552.2	550.7	549.7	549.1	548.5	545.6	545.8	544.8	545.6	545.9
19.5°	549.9	550.6	549.4	547.9	547.1	546.8	544.0	543.8	543.1	543.7	544.6
20°	548.1	548.3	547.7	546.5	546.2	545.1	542.1	541.8	541.2	541.7	543.2
20.5°	546.1	546.1	545.1	544.2	544.0	543.0	540.4	539.9	538.6	539.7	541.8
21°	544.9	544.0	543.3	542.4	541.7	540.9	538.5	537.8	536.7	538.3	539.3
21.5°	542.9	542.4	541.7	541.1	539.6	538.9	536.4	535.5	534.6	536.4	536.9
22°	540.2	540.2	539.7	539.2	537.7	536.3	534.7	534.5	532.4	533.7	535.0

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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°	538.0	538.0	538.1	536.7	535.2	534.0	532.5	532.0	530.3	531.4	532.6
23°	536.2	535.9	535.8	534.3	533.1	532.7	530.0	530.1	528.2	529.6	530.6
23.5°	534.0	534.2	533.1	532.1	531.2	530.4	527.7	528.0	526.4	527.8	528.4
24°	531.9	532.2	530.9	530.5	528.7	528.0	525.6	525.2	524.1	525.0	526.2
24.5°	529.9	529.7	528.6	527.8	526.5	525.8	522.4	522.4	521.1	522.1	523.7
25°	527.6	527.0	526.5	525.4	524.8	523.4	520.1	520.6	518.9	519.8	521.1
25.5°	525.1	524.8	524.0	522.8	522.3	521.1	518.3	518.6	517.0	517.6	518.8
26°	523.1	522.7	521.7	520.6	520.4	518.7	515.7	516.1	514.5	515.5	517.2
26.5°	520.8	520.6	519.8	518.1	517.4	515.9	513.1	513.6	512.2	512.7	514.3
27°	518.2	518.1	517.4	515.8	515.2	513.1	510.9	511.1	509.2	509.9	511.4
27.5°	516.0	516.2	514.4	513.7	512.3	510.3	508.5	508.4	506.4	507.5	508.6
28°	513.7	512.7	512.0	511.4	508.9	507.9	505.9	505.3	504.3	505.8	506.2
28.5°	510.1	510.2	509.3	508.7	506.1	504.9	503.1	502.8	501.8	503.0	503.1
29°	507.9	507.8	506.5	505.9	503.9	502.9	500.5	500.2	499.5	500.4	500.8
29.5°	504.7	505.7	504.4	503.3	501.1	500.4	497.9	497.3	496.2	497.5	498.1
30°	503.1	502.8	501.4	500.2	498.5	497.0	494.9	494.3	493.8	494.3	495.3
30.5°	500.0	499.7	498.5	497.0	496.1	494.1	491.7	491.6	491.1	491.2	492.0
31°	496.8	496.5	495.8	494.5	492.9	491.1	488.8	488.4	488.1	488.5	489.7
31.5°	494.0	493.4	493.3	491.5	490.0	488.1	485.5	485.1	484.8	485.2	486.5
32°	491.2	490.9	489.9	489.0	486.9	485.9	482.6	482.6	481.8	482.2	483.6
32.5°	488.3	488.1	487.5	485.7	483.7	483.3	479.7	479.1	478.3	479.5	480.2
33°	485.6	485.3	485.0	483.1	481.3	480.2	477.0	476.1	475.3	476.4	477.7
33.5°	482.5	482.4	482.0	479.7	478.0	477.1	473.7	473.9	472.4	473.3	474.0
34°	479.0	479.8	478.7	476.8	475.6	473.7	471.0	471.0	469.2	470.3	471.1
34.5°	475.9	476.8	475.9	473.4	472.4	470.8	468.3	467.5	466.6	467.0	468.1
35°	473.9	473.6	472.9	470.1	469.3	467.7	464.6	464.1	463.3	464.0	465.3
35.5°	470.8	470.4	469.8	467.7	466.0	464.2	461.1	460.5	459.3	461.3	461.9
36°	467.1	467.0	466.6	464.6	462.8	460.3	458.0	458.1	456.1	458.0	459.2
36.5°	463.8	464.0	462.6	461.7	459.1	457.1	454.4	454.4	452.8	454.4	455.2
37°	461.1	461.1	459.5	457.9	455.8	454.0	451.1	451.5	449.3	450.6	451.7
37.5°	458.0	457.2	456.7	454.4	452.8	450.4	448.1	447.5	446.1	447.2	448.6
38°	454.5	454.1	453.1	451.7	449.3	447.1	445.1	443.6	443.0	444.3	445.5
38.5°	450.5	450.9	449.6	447.7	445.3	443.7	441.7	440.3	439.4	441.4	442.4
39°	447.4	447.1	446.7	444.3	441.8	440.8	437.8	437.1	435.9	437.9	438.8
39.5°	443.9	443.6	443.4	440.5	438.6	437.2	434.4	433.5	432.8	433.6	434.9
40°	441.0	440.0	440.0	437.1	435.2	433.5	431.1	430.0	429.3	430.2	431.2
40.5°	437.7	436.9	436.4	433.5	431.4	429.7	427.1	426.8	425.5	426.4	427.7
41°	434.0	433.5	432.4	430.6	428.0	426.1	423.2	422.8	422.1	422.4	424.2
41.5°	430.5	429.9	428.8	427.1	424.4	422.9	419.7	418.8	417.7	419.0	420.5
42°	426.6	425.9	425.2	423.3	420.9	418.7	416.1	415.4	414.0	415.3	416.8
42.5°	423.0	422.7	421.2	420.0	417.3	415.1	412.2	411.5	410.2	411.9	413.6
43°	419.3	419.4	417.4	415.8	413.6	412.1	408.5	408.0	406.7	407.8	409.3
43.5°	415.5	415.6	414.4	411.8	410.3	408.3	404.9	403.8	403.2	404.4	405.7
44°	411.8	411.5	410.5	408.0	406.4	403.9	401.2	400.1	399.5	400.7	401.8
44.5°	408.1	407.9	406.5	404.1	401.8	399.9	397.6	396.3	395.5	397.2	398.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	404.2	403.6	402.5	400.5	398.4	396.2	393.6	392.6	391.5	392.8	394.3
45.5°	400.6	400.1	398.5	397.2	394.8	392.8	389.9	388.6	387.4	389.1	390.3
46°	396.5	396.5	394.7	393.0	391.0	388.8	385.2	384.4	383.2	385.2	386.8
46.5°	392.2	391.9	390.9	388.6	387.1	384.9	381.5	380.5	379.3	381.3	382.7
47°	388.4	388.0	386.6	384.9	383.3	380.8	377.3	376.5	375.4	377.2	378.9
47.5°	384.6	384.0	382.4	380.6	379.0	376.6	373.3	372.4	371.6	372.7	374.6
48°	380.6	380.4	378.3	376.8	374.7	372.7	369.6	368.7	367.5	368.7	370.2
48.5°	376.1	376.1	374.6	372.7	370.2	368.4	365.3	364.7	363.5	364.3	366.5
49°	372.1	372.2	370.6	368.6	366.3	364.1	361.5	360.5	359.2	360.4	362.0
49.5°	368.1	368.3	366.4	364.4	362.0	359.7	357.0	356.2	355.0	356.5	357.4
50°	364.3	364.0	361.9	360.1	358.1	355.9	352.6	352.3	350.7	352.5	353.5
50.5°	359.7	359.7	357.8	355.7	354.3	352.1	348.7	348.0	346.3	347.9	349.5
51°	355.3	355.3	353.5	351.7	350.1	347.5	344.1	343.4	342.1	343.2	345.2
51.5°	351.3	351.2	349.6	347.4	346.0	343.0	340.4	338.9	337.8	339.1	340.7
52°	347.4	346.6	345.3	343.2	341.1	339.3	336.2	335.0	333.4	334.9	336.4
52.5°	343.1	342.5	341.0	339.0	336.4	334.7	332.0	330.7	329.3	330.2	332.0
53°	338.7	338.4	336.5	334.5	332.2	329.8	327.4	326.2	324.7	326.5	327.8
53.5°	334.0	333.8	332.2	330.5	328.0	325.4	323.1	321.2	320.4	322.1	323.3
54°	330.0	329.8	328.2	325.7	323.4	321.5	318.4	317.0	315.8	317.2	319.1
54.5°	325.9	325.3	323.8	321.1	319.6	317.2	313.3	312.3	311.8	312.5	314.6
55°	321.0	320.7	319.6	316.6	315.0	312.6	309.0	308.2	307.4	308.1	309.9
55.5°	316.3	315.9	314.7	312.5	310.3	307.7	304.7	303.4	302.6	303.6	305.0
56°	312.2	311.4	309.9	307.8	305.4	303.0	300.3	298.9	298.1	299.1	300.9
56.5°	307.5	307.2	305.6	303.0	301.0	298.3	295.5	294.8	293.5	294.9	296.4
57°	302.8	302.7	300.7	298.3	296.5	294.0	290.9	290.0	288.5	290.3	292.0
57.5°	298.2	298.1	296.4	293.7	292.1	289.6	286.0	284.8	284.0	285.4	287.2
58°	293.7	293.0	291.8	289.0	287.3	284.6	281.2	280.2	279.3	280.5	282.2
58.5°	288.9	288.2	286.8	284.3	282.3	279.6	276.5	275.6	274.8	275.7	277.5
59°	284.3	284.0	281.9	279.7	277.9	275.1	272.1	270.9	269.7	271.1	272.6
59.5°	279.8	279.1	277.5	275.4	273.2	270.4	267.3	266.3	265.0	266.6	267.8
60°	274.9	274.3	272.5	270.6	268.3	265.6	262.9	261.6	260.4	261.9	263.5
60.5°	270.2	269.4	267.7	265.9	263.0	261.0	258.0	256.8	255.6	256.6	258.7
61°	265.4	264.4	262.8	260.7	258.4	256.2	253.3	251.7	250.9	252.1	254.0
61.5°	260.2	259.5	258.0	255.7	253.6	251.2	248.5	246.6	245.7	247.1	249.0
62°	255.7	254.7	253.2	250.8	248.8	246.3	243.7	242.0	240.8	242.3	244.1
62.5°	250.7	249.9	248.2	246.0	243.7	241.6	238.6	237.0	235.8	237.3	239.0
63°	245.9	245.0	243.3	241.2	239.0	236.6	233.5	232.3	231.0	232.3	233.9
63.5°	241.4	239.9	238.5	236.0	234.3	231.7	228.8	227.2	226.3	227.2	229.3
64°	236.0	235.3	233.5	231.2	229.5	226.7	223.5	222.2	221.3	222.3	224.4
64.5°	231.2	230.3	228.6	226.0	224.2	221.8	218.3	217.2	216.0	217.2	219.3
65°	226.4	225.6	223.7	221.0	219.2	216.7	213.3	212.2	211.1	212.3	214.2
65.5°	221.4	220.4	218.8	215.8	214.3	211.6	208.2	207.2	206.2	207.3	209.2
66°	215.9	215.4	213.4	210.7	209.2	206.5	203.2	201.9	201.3	202.2	204.2
66.5°	210.6	210.1	208.2	205.9	204.1	201.5	198.1	197.0	196.2	197.0	198.9
67°	205.9	204.8	203.1	200.7	199.1	196.4	193.4	191.7	191.1	191.9	193.9

TEST NUMBER: P869728
 CATALOG NUMBER: SMX18SLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	200.6	199.7	197.9	195.3	194.0	191.3	188.3	186.5	186.0	186.7	188.6
68°	195.4	194.7	192.8	190.1	188.9	186.1	183.1	181.7	180.9	181.9	183.7
68.5°	190.3	189.5	187.8	185.3	183.7	181.0	177.9	176.6	175.6	176.6	178.7
69°	185.2	184.7	182.6	180.3	178.8	175.7	172.6	171.2	170.3	171.3	173.5
69.5°	180.2	179.5	177.4	174.6	173.4	170.3	167.4	165.8	165.1	166.0	168.5
70°	174.7	174.2	172.1	169.4	168.0	165.3	162.2	160.8	159.9	160.8	162.9
70.5°	169.5	169.1	166.8	164.3	163.0	160.3	157.3	155.8	155.0	155.9	157.9
71°	164.3	163.8	161.9	159.3	157.9	155.2	152.0	150.7	149.8	150.7	152.6
71.5°	159.2	158.8	156.6	153.7	152.5	149.9	146.7	145.3	144.5	145.6	147.4
72°	154.1	153.3	151.3	148.6	147.4	144.5	141.5	140.0	139.5	140.4	142.4
72.5°	148.9	147.9	145.9	143.5	142.2	139.5	136.4	135.1	134.2	135.3	137.2
73°	143.6	142.6	140.7	138.1	137.0	134.4	131.4	129.7	128.9	130.1	132.0
73.5°	138.2	137.4	135.7	132.9	131.7	129.0	126.2	124.5	123.7	125.2	126.8
74°	133.0	132.2	130.1	127.8	126.4	123.8	121.1	119.4	118.6	119.8	121.6
74.5°	127.8	126.9	125.1	122.3	121.4	118.8	115.9	114.4	113.6	114.7	116.4
75°	122.5	121.6	119.8	117.0	116.2	113.4	110.7	109.2	108.3	109.5	111.3
75.5°	117.3	116.6	114.7	112.0	111.0	108.3	105.8	103.9	103.3	104.7	106.3
76°	112.3	111.5	109.6	106.8	105.8	103.2	100.5	98.8	98.3	99.4	101.1
76.5°	107.0	106.3	104.4	101.7	100.8	98.1	95.4	94.0	93.2	94.2	96.0
77°	102.1	101.0	99.4	96.6	95.7	92.9	90.4	88.8	88.2	89.1	90.8
77.5°	97.0	95.9	94.4	91.6	90.5	87.9	85.4	83.8	83.2	84.2	86.0
78°	91.9	90.8	89.2	86.6	85.6	83.0	80.6	78.8	78.2	79.2	81.0
78.5°	86.8	85.8	84.2	81.6	80.7	78.0	75.5	74.0	73.3	74.3	76.0
79°	81.9	80.9	79.2	76.6	75.7	72.9	70.5	69.1	68.4	69.4	71.0
79.5°	77.0	76.0	74.4	71.7	70.8	68.2	65.8	64.5	63.8	64.8	66.3
80°	72.0	70.9	69.4	66.9	66.0	63.6	61.2	59.8	59.1	60.2	61.8
80.5°	67.3	66.2	64.8	62.2	61.4	58.9	56.6	55.2	54.4	55.6	57.3
81°	62.4	61.4	60.2	57.6	56.9	54.4	52.0	50.6	50.0	51.1	52.7
81.5°	57.7	56.9	55.4	53.0	52.2	49.8	47.5	46.2	45.7	46.5	48.1
82°	53.1	52.3	50.7	48.3	47.7	45.3	43.1	41.7	41.3	42.1	43.7
82.5°	48.5	47.9	46.1	43.8	43.3	41.0	39.0	37.6	37.0	37.9	39.4
83°	43.9	43.1	41.7	39.5	39.1	36.8	34.8	33.5	33.0	33.9	35.4
83.5°	39.8	38.8	37.4	35.5	34.9	32.7	30.7	29.5	29.1	29.9	31.3
84°	35.6	34.8	33.3	31.5	31.0	28.8	26.8	25.7	25.2	26.1	27.4
84.5°	31.6	30.8	29.5	27.6	27.1	25.1	23.2	22.0	21.7	22.5	23.7
85°	27.7	27.0	25.7	23.9	23.3	21.5	19.7	18.6	18.3	19.0	20.2
85.5°	23.9	23.3	22.1	20.4	19.8	18.0	16.3	15.5	15.2	15.8	16.9
86°	20.5	19.9	18.8	17.2	16.6	14.9	13.5	12.5	12.3	12.9	13.9
86.5°	17.3	16.8	15.8	14.3	13.6	12.2	11.0	10.2	9.9	10.7	11.4
87°	14.4	13.9	13.0	11.6	11.1	9.8	8.6	7.9	7.8	8.3	9.2
87.5°	11.7	11.3	10.4	9.2	8.8	7.6	6.4	5.8	5.8	6.3	7.0
88°	9.2	8.8	8.0	6.8	6.5	5.5	4.5	4.0	3.9	4.3	5.0
88.5°	6.8	6.5	5.9	4.9	4.8	3.7	2.9	2.4	2.3	2.7	3.3
89°	4.9	4.6	4.1	3.3	3.3	2.3	1.5	1.2	1.1	1.3	1.8
89.5°	3.4	3.2	2.7	2.1	1.8	1.1	0.5	1.1	0.9	1.2	0.7

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



TEST NUMBER: P869728
CATALOG NUMBER: SMX18SLSFS010-1500LM-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: P869728
 CATALOG NUMBER: SMX18SLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	583.6	583.6	583.6	583.6	583.6	583.6
0.5°	584.1	582.9	584.4	583.3	583.2	583.5
1°	583.6	582.8	584.6	583.5	583.1	584.0
1.5°	583.4	583.5	584.2	583.5	583.3	583.5
2°	583.0	583.3	583.5	583.5	584.1	583.1
2.5°	582.7	582.4	584.2	583.0	583.1	583.0
3°	583.3	582.0	584.1	582.6	583.6	582.2
3.5°	582.8	582.6	583.4	582.3	583.2	582.6
4°	582.6	582.1	583.3	582.5	582.4	582.4
4.5°	582.6	581.5	583.0	582.2	582.3	582.3
5°	582.1	581.1	583.1	581.7	582.0	582.6
5.5°	580.8	580.5	582.9	581.5	582.3	582.1
6°	580.1	580.3	582.9	581.3	581.3	581.8
6.5°	579.5	580.5	582.2	581.2	581.1	581.3
7°	579.2	579.1	581.6	580.2	580.8	580.9
7.5°	578.4	579.0	580.9	579.9	580.7	579.9
8°	577.6	578.3	579.5	579.4	579.9	579.3
8.5°	576.7	577.1	578.7	578.5	578.3	578.6
9°	575.9	576.5	578.5	577.1	578.2	577.8
9.5°	574.5	575.8	577.5	576.4	577.0	576.4
10°	573.7	574.9	576.1	575.4	575.9	575.2
10.5°	572.4	573.6	575.2	573.4	575.7	574.5
11°	571.5	572.4	574.0	572.6	574.1	573.4
11.5°	570.0	570.9	572.9	572.0	572.7	572.2
12°	568.8	569.3	572.2	571.1	571.8	571.7
12.5°	567.7	568.5	570.3	569.6	570.9	570.7
13°	566.8	567.0	568.7	568.9	569.6	569.6
13.5°	565.4	566.2	567.7	567.9	568.3	568.5
14°	564.4	564.7	567.1	566.8	566.6	567.4
14.5°	563.4	563.6	565.1	565.3	565.7	566.1
15°	561.8	561.8	563.4	563.3	565.1	565.2
15.5°	559.4	560.9	562.3	561.4	564.0	563.4
16°	557.9	559.6	560.8	560.6	562.1	562.4
16.5°	556.3	557.7	559.4	559.0	561.1	560.6
17°	555.1	555.4	557.7	556.8	559.3	558.4
17.5°	553.3	554.1	556.8	555.2	557.7	557.3
18°	551.4	552.9	555.1	554.5	556.1	556.1
18.5°	549.8	551.4	552.9	552.9	553.8	554.1
19°	547.8	549.3	550.5	550.6	551.7	551.7
19.5°	545.6	547.5	548.7	548.4	550.0	549.9
20°	544.0	545.6	547.1	546.5	548.0	548.1
20.5°	542.9	544.0	544.7	544.9	546.4	546.1
21°	541.0	541.5	542.9	543.5	544.6	544.9
21.5°	538.8	538.9	540.9	541.8	543.1	542.9
22°	536.5	536.7	538.8	539.5	541.4	540.2

TEST NUMBER: P869728
 CATALOG NUMBER: SMX18SLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	533.6	535.4	536.7	536.9	538.7	538.0
23°	531.8	533.3	535.0	534.9	536.1	536.2
23.5°	529.3	530.5	532.6	533.4	534.0	534.0
24°	527.3	528.3	530.9	530.5	531.8	531.9
24.5°	525.7	526.6	528.4	528.4	529.7	529.9
25°	523.2	524.3	526.0	526.8	528.1	527.6
25.5°	520.6	522.4	523.3	524.5	526.2	525.1
26°	518.3	519.0	521.1	521.8	523.3	523.1
26.5°	515.9	516.5	519.1	518.8	520.4	520.8
27°	513.0	513.9	517.0	516.6	518.3	518.2
27.5°	510.1	510.8	514.1	514.5	516.7	516.0
28°	507.7	508.2	511.2	512.6	514.0	513.7
28.5°	504.7	506.4	508.4	509.6	511.1	510.1
29°	502.6	503.8	506.4	507.0	507.7	507.9
29.5°	500.0	500.9	503.6	504.2	505.8	504.7
30°	497.8	498.1	500.5	500.9	503.4	503.1
30.5°	494.1	496.1	497.3	497.7	500.3	500.0
31°	491.2	492.1	494.8	495.5	497.3	496.8
31.5°	488.2	489.4	492.4	492.2	494.9	494.0
32°	485.9	486.7	489.6	489.5	492.4	491.2
32.5°	483.4	484.2	486.5	486.8	489.8	488.3
33°	480.2	481.2	483.8	484.6	486.5	485.6
33.5°	476.2	478.0	480.6	481.4	483.6	482.5
34°	473.5	474.9	477.3	477.9	480.2	479.0
34.5°	470.0	472.0	474.3	474.9	477.2	475.9
35°	467.1	468.8	471.2	472.1	474.2	473.9
35.5°	464.3	465.2	468.3	469.1	470.8	470.8
36°	461.1	461.6	464.9	465.9	467.4	467.1
36.5°	458.0	458.3	461.6	461.8	464.3	463.8
37°	454.6	455.0	458.7	458.7	460.9	461.1
37.5°	450.8	452.2	455.3	455.2	458.1	458.0
38°	447.2	448.7	452.1	452.2	455.0	454.5
38.5°	443.9	445.4	448.4	449.1	451.7	450.5
39°	440.3	442.4	445.3	445.7	447.4	447.4
39.5°	437.0	439.3	441.8	441.9	444.2	443.9
40°	433.4	435.4	438.3	439.1	440.5	441.0
40.5°	430.4	431.6	434.7	435.7	437.1	437.7
41°	427.1	428.4	431.0	432.2	433.3	434.0
41.5°	423.1	425.0	427.4	428.4	430.0	430.5
42°	419.5	421.1	424.1	424.4	426.9	426.6
42.5°	415.2	416.9	420.2	420.6	423.3	423.0
43°	411.4	413.6	415.9	417.3	419.7	419.3
43.5°	407.4	409.4	411.9	413.9	415.7	415.5
44°	404.0	405.3	408.0	409.7	411.9	411.8
44.5°	400.1	402.1	405.0	405.3	408.1	408.1

TEST NUMBER: P869728
 CATALOG NUMBER: SMX18SLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	396.2	398.6	401.3	401.5	403.8	404.2
45.5°	392.1	394.8	397.3	397.8	399.8	400.6
46°	388.3	390.8	393.6	394.0	396.1	396.5
46.5°	384.3	386.6	389.6	390.8	392.2	392.2
47°	380.3	382.7	385.7	386.6	388.3	388.4
47.5°	376.2	378.8	381.6	382.5	384.1	384.6
48°	372.2	374.7	377.6	378.4	380.3	380.6
48.5°	368.2	370.2	373.4	374.4	376.3	376.1
49°	363.9	366.0	369.0	370.3	372.2	372.1
49.5°	359.9	361.9	364.6	366.2	368.2	368.1
50°	355.6	357.2	360.2	362.4	363.9	364.3
50.5°	351.3	353.2	356.0	358.2	359.4	359.7
51°	347.3	349.4	352.2	353.5	355.4	355.3
51.5°	343.1	344.8	348.1	349.1	351.5	351.3
52°	338.9	340.3	344.0	344.7	347.4	347.4
52.5°	334.4	336.3	339.7	341.0	343.0	343.1
53°	330.0	332.1	335.4	336.8	339.0	338.7
53.5°	326.0	327.8	330.8	331.7	334.4	334.0
54°	321.3	323.2	326.5	327.4	330.0	330.0
54.5°	316.9	318.5	322.0	323.4	325.2	325.9
55°	312.5	314.1	317.4	318.8	321.0	321.0
55.5°	308.1	309.6	312.8	314.5	316.8	316.3
56°	303.5	305.1	308.4	309.9	312.2	312.2
56.5°	298.9	300.4	303.8	305.1	307.8	307.5
57°	294.0	295.7	299.1	300.5	303.1	302.8
57.5°	289.2	290.9	294.4	295.3	298.1	298.2
58°	284.8	286.3	289.6	291.1	293.7	293.7
58.5°	280.4	281.6	284.6	286.8	288.9	288.9
59°	275.7	277.0	279.9	282.2	284.3	284.3
59.5°	270.7	272.2	275.0	277.3	279.6	279.8
60°	266.2	267.2	270.6	272.4	274.9	274.9
60.5°	260.9	262.3	265.5	267.6	270.1	270.2
61°	256.0	257.4	260.9	262.6	265.1	265.4
61.5°	251.3	252.9	256.3	257.7	260.1	260.2
62°	246.4	248.1	251.5	252.9	255.4	255.7
62.5°	241.6	243.2	246.7	248.2	250.5	250.7
63°	236.6	238.0	241.6	243.0	245.9	245.9
63.5°	231.7	233.1	236.7	238.2	240.7	241.4
64°	226.8	228.4	231.7	233.2	235.3	236.0
64.5°	221.8	223.6	226.9	228.5	230.4	231.2
65°	216.8	218.5	221.6	223.6	225.5	226.4
65.5°	212.0	213.4	216.6	218.4	220.5	221.4
66°	206.9	208.0	211.5	213.4	215.4	215.9
66.5°	201.7	203.2	206.4	208.5	210.4	210.6
67°	196.6	198.2	201.3	203.5	205.6	205.9

TEST NUMBER: P869728
 CATALOG NUMBER: SMX18SLSFS010-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	191.6	192.9	195.9	197.9	200.4	200.6
68°	186.3	187.6	190.9	193.1	195.3	195.4
68.5°	181.4	182.6	185.8	187.9	189.8	190.3
69°	176.6	177.6	180.4	182.6	184.7	185.2
69.5°	171.3	172.5	175.3	177.5	179.6	180.2
70°	166.0	167.2	170.0	172.5	174.4	174.7
70.5°	160.8	161.7	165.0	167.2	169.4	169.5
71°	155.5	156.6	159.8	161.8	164.1	164.3
71.5°	150.2	151.4	154.4	156.9	159.0	159.2
72°	144.9	146.3	149.4	151.6	153.5	154.1
72.5°	140.0	140.9	144.1	146.1	148.2	148.9
73°	134.8	135.5	138.8	140.8	143.0	143.6
73.5°	129.7	130.5	133.9	135.7	137.8	138.2
74°	124.5	125.2	128.4	130.4	132.6	133.0
74.5°	119.4	120.0	123.2	125.4	127.3	127.8
75°	114.1	114.8	117.9	120.2	121.9	122.5
75.5°	109.0	109.7	112.9	115.0	116.7	117.3
76°	103.9	104.5	107.6	109.7	111.6	112.3
76.5°	98.7	99.5	102.5	104.7	106.4	107.0
77°	93.5	94.2	97.3	99.4	101.4	102.1
77.5°	88.5	89.4	92.3	94.6	96.5	97.0
78°	83.5	84.4	87.3	89.5	91.4	91.9
78.5°	78.5	79.4	82.5	84.7	86.4	86.8
79°	73.8	74.5	77.4	79.5	81.3	81.9
79.5°	68.8	69.7	72.5	74.7	76.4	77.0
80°	64.1	64.8	67.6	69.6	71.6	72.0
80.5°	59.5	60.2	63.0	64.9	66.7	67.3
81°	55.0	55.6	58.3	60.4	62.0	62.4
81.5°	50.5	51.0	53.7	55.7	57.3	57.7
82°	46.0	46.4	49.1	51.1	52.7	53.1
82.5°	41.7	42.1	44.6	46.4	48.2	48.5
83°	37.6	37.9	40.1	42.0	43.7	43.9
83.5°	33.4	33.7	36.0	37.7	39.4	39.8
84°	29.5	29.8	32.0	33.6	35.1	35.6
84.5°	25.7	26.0	28.1	29.8	31.3	31.6
85°	22.1	22.5	24.5	26.1	27.3	27.7
85.5°	18.6	19.0	21.0	22.5	23.6	23.9
86°	15.5	16.0	17.6	19.0	20.3	20.5
86.5°	12.7	13.2	14.7	16.0	17.0	17.3
87°	10.4	10.6	12.0	13.1	14.0	14.4
87.5°	8.1	8.3	9.6	10.5	11.4	11.7
88°	6.1	6.0	7.1	8.3	9.0	9.2
88.5°	4.2	4.0	4.9	5.9	6.6	6.8
89°	2.6	2.7	3.3	4.0	4.6	4.9
89.5°	1.3	1.5	2.0	2.6	3.2	3.4

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869728
CATALOG NUMBER: SMX18SLSFS010-1500LM-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)