

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: P869729

Luminaire Tested: **SMX18SLSFS010-1500LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869729
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFS010-1500LM-4000K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

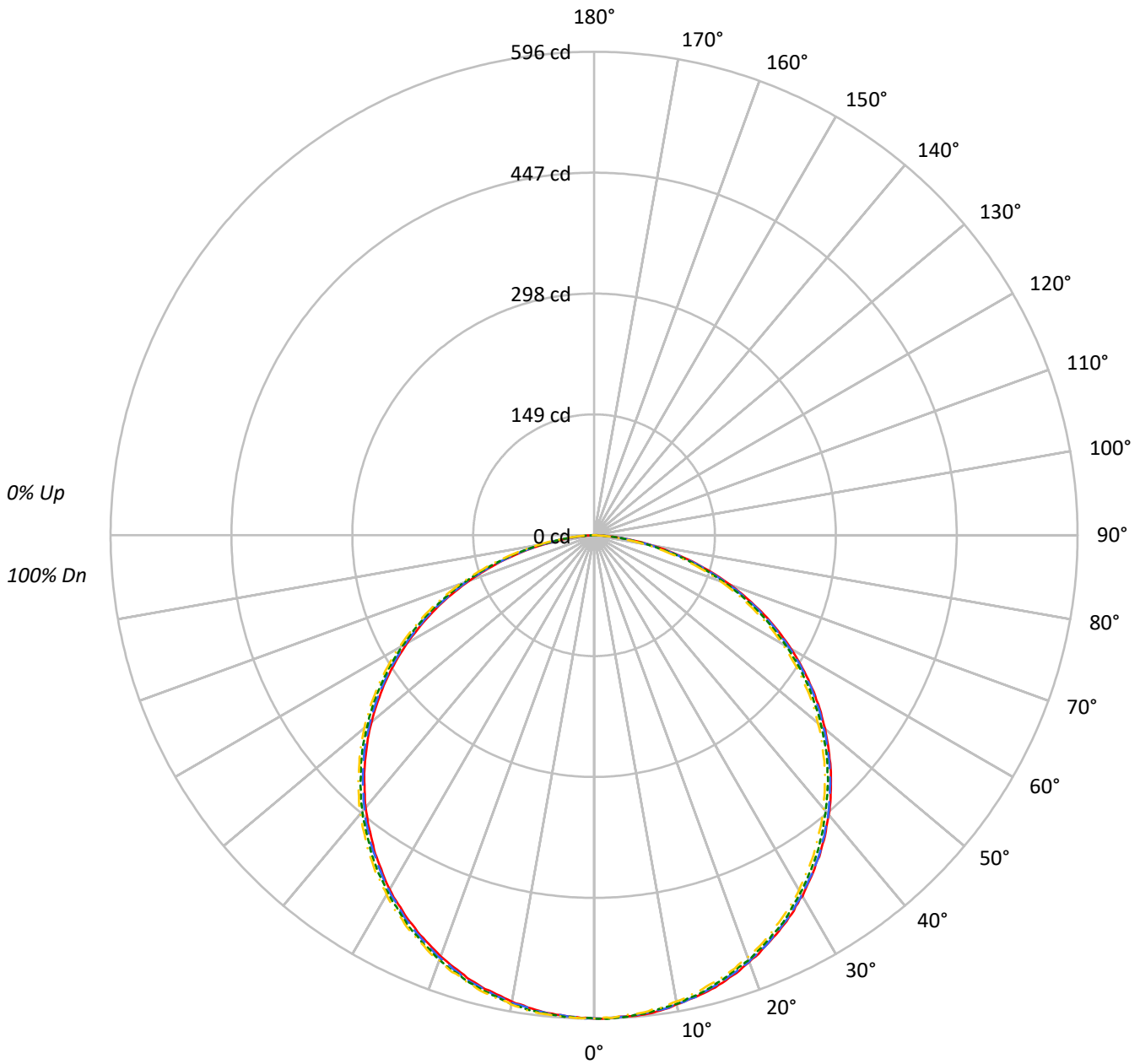
Lumens per Lamp: N/A
 Luminaire Lumens: 1739.3 lumens
 Efficiency: N/A
 Efficacy: 104.2 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2850	2850	2850	2850
5°	2856	2850	2842	2849
10°	2852	2850	2835	2851
15°	2858	2839	2825	2841
20°	2849	2839	2813	2836
25°	2843	2828	2796	2825
30°	2838	2811	2785	2810
35°	2825	2798	2762	2795
40°	2812	2775	2737	2776
45°	2792	2752	2704	2753
50°	2768	2721	2665	2714
55°	2733	2682	2617	2675
60°	2686	2621	2543	2610
65°	2616	2533	2439	2524
70°	2494	2399	2283	2388
75°	2310	2192	2044	2166
80°	2025	1857	1661	1824
85°	1553	1306	1026	1262

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	3.2
10°-20°	162.0	9.3
20°-30°	246.6	14.2
30°-40°	299.4	17.2
40°-50°	313.6	18.0
50°-60°	286.7	16.5
60°-70°	220.7	12.7
70°-80°	124.7	7.2
80°-90°	29.4	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°	465.0	26.7
0°-40°	764.3	43.9
0°-60°	1364.5	78.5
0°-90°	1739.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1739.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	596	596	596	596	596	
5°	595	593	592	593	595	57
15°	577	573	570	574	577	163
25°	539	536	530	535	539	248
35°	484	479	473	479	484	302
45°	413	407	400	407	413	318
55°	328	322	314	321	328	293
65°	231	224	216	223	231	228
75°	125	119	111	117	125	132
85°	28	24	19	23	28	34
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°	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8
0.5°	595.7	595.5	595.9	595.4	596.0	596.5	595.4	595.8	595.4	595.7	595.1
1°	596.2	595.2	596.0	595.8	595.7	596.0	595.0	595.3	595.0	595.5	595.8
1.5°	595.6	595.6	595.3	595.8	596.4	595.8	594.6	595.2	595.2	595.0	595.6
2°	595.3	594.9	595.2	595.6	596.2	595.6	595.3	594.6	594.4	594.5	594.5
2.5°	595.2	595.5	595.0	595.6	595.7	595.6	594.7	594.5	594.2	594.2	594.3
3°	594.4	595.6	594.8	595.0	595.2	595.0	593.9	594.9	594.1	593.6	594.4
3.5°	594.7	595.7	594.6	595.0	595.3	594.5	593.9	594.4	593.5	593.5	593.5
4°	594.6	595.0	594.4	595.1	594.9	594.1	592.7	593.9	592.9	593.8	592.9
4.5°	594.5	595.0	593.6	594.9	594.2	594.0	592.7	592.7	592.9	593.2	592.8
5°	594.7	594.4	593.6	594.0	593.4	593.8	592.2	592.4	591.9	591.7	593.3
5.5°	594.3	594.0	593.2	593.0	592.9	593.0	591.9	591.5	591.8	591.0	592.4
6°	594.0	594.0	592.7	593.1	592.9	591.8	591.5	591.3	591.3	590.5	591.3
6.5°	593.5	593.8	592.2	592.1	592.2	591.9	590.6	590.5	590.4	590.0	590.8
7°	593.1	593.3	591.7	591.8	591.5	591.2	589.0	589.4	589.6	589.0	590.8
7.5°	592.1	591.9	590.8	590.7	590.0	590.7	588.9	588.8	588.5	588.3	589.6
8°	591.4	590.7	590.5	590.5	589.1	589.9	588.4	587.7	587.9	587.6	587.9
8.5°	590.7	589.9	590.2	589.0	588.7	589.1	587.4	587.1	586.1	587.0	587.3
9°	589.9	588.9	589.3	588.7	587.9	588.4	586.0	586.4	585.4	585.7	586.4
9.5°	588.5	588.5	587.9	587.3	587.3	587.5	584.5	584.9	585.2	585.0	586.2
10°	587.2	587.3	586.8	586.9	586.6	586.4	583.7	583.8	583.6	584.5	585.1
10.5°	586.5	586.5	586.4	585.4	585.5	584.8	583.0	582.7	582.3	583.2	583.9
11°	585.4	585.4	585.5	584.9	584.2	583.9	581.7	582.3	581.2	581.5	582.6
11.5°	584.2	584.9	584.0	583.2	582.3	583.1	580.6	580.8	579.4	580.8	581.5
12°	583.7	583.4	583.2	582.0	581.7	582.1	578.9	580.3	578.6	579.1	580.8
12.5°	582.6	582.2	582.8	581.0	580.9	580.9	577.7	579.1	577.0	578.0	579.3
13°	581.5	581.9	581.2	579.6	579.6	579.5	576.7	577.3	575.9	577.0	577.4
13.5°	580.4	580.8	579.3	578.5	578.4	578.0	575.2	576.3	575.3	575.8	575.7
14°	579.3	579.5	578.0	577.7	577.1	575.5	573.1	574.7	573.9	574.8	574.9
14.5°	578.0	577.7	576.4	575.8	575.5	574.7	571.6	572.9	572.1	573.0	573.5
15°	577.1	576.1	575.2	575.0	573.2	573.6	570.6	571.5	570.4	570.8	572.5
15.5°	575.2	574.9	573.9	573.1	571.9	571.9	569.5	569.7	569.2	569.2	571.1
16°	574.1	573.2	572.1	571.8	571.0	570.6	567.9	568.1	567.7	568.2	569.5
16.5°	572.3	571.6	570.5	569.9	569.0	569.1	566.2	566.6	565.2	566.6	567.8
17°	570.1	569.7	568.8	568.9	567.3	567.4	564.5	565.3	563.3	564.3	565.4
17.5°	568.9	568.3	567.4	566.4	565.1	565.6	563.0	563.6	561.6	562.4	563.8
18°	567.7	566.8	565.7	564.8	563.9	563.6	561.5	561.4	559.8	560.6	562.2
18.5°	565.7	565.2	564.1	562.9	561.7	561.9	558.8	559.1	558.4	558.8	559.7
19°	563.3	563.7	562.2	561.2	560.6	560.0	557.0	557.2	556.1	557.0	557.4
19.5°	561.4	562.2	560.9	559.3	558.6	558.2	555.4	555.2	554.5	555.1	556.0
20°	559.6	559.7	559.2	558.0	557.6	556.5	553.5	553.2	552.5	553.0	554.6
20.5°	557.5	557.5	556.5	555.6	555.4	554.3	551.7	551.2	549.9	551.0	553.2
21°	556.3	555.4	554.7	553.8	553.0	552.3	549.8	549.0	547.9	549.6	550.6
21.5°	554.3	553.8	553.0	552.4	550.9	550.1	547.6	546.7	545.8	547.6	548.1
22°	551.5	551.5	551.0	550.4	548.9	547.5	545.9	545.7	543.5	544.8	546.2

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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°	549.3	549.3	549.3	547.9	546.4	545.2	543.6	543.1	541.4	542.5	543.7
23°	547.4	547.1	547.0	545.4	544.2	543.8	541.1	541.2	539.2	540.7	541.7
23.5°	545.1	545.4	544.3	543.2	542.3	541.5	538.7	539.1	537.4	538.9	539.4
24°	543.0	543.3	542.0	541.6	539.7	539.1	536.6	536.1	535.1	536.0	537.2
24.5°	541.0	540.8	539.7	538.9	537.5	536.8	533.3	533.4	532.0	533.0	534.7
25°	538.6	538.0	537.5	536.4	535.8	534.3	531.0	531.5	529.7	530.7	532.0
25.5°	536.1	535.8	535.0	533.8	533.2	532.0	529.1	529.5	527.8	528.4	529.6
26°	534.0	533.7	532.6	531.5	531.3	529.6	526.5	526.9	525.3	526.2	528.0
26.5°	531.7	531.5	530.7	528.9	528.2	526.7	523.9	524.4	522.9	523.4	525.1
27°	529.0	529.0	528.2	526.6	525.9	523.8	521.6	521.7	519.8	520.5	522.1
27.5°	526.8	527.0	525.1	524.4	523.0	521.0	519.1	519.1	516.9	518.1	519.3
28°	524.5	523.4	522.7	522.1	519.6	518.5	516.5	515.9	514.9	516.3	516.8
28.5°	520.7	520.8	520.0	519.4	516.6	515.5	513.7	513.3	512.3	513.5	513.7
29°	518.5	518.5	517.1	516.5	514.4	513.4	511.0	510.6	510.0	510.9	511.3
29.5°	515.2	516.3	514.9	513.8	511.5	510.9	508.3	507.6	506.6	507.9	508.6
30°	513.7	513.4	511.8	510.6	508.9	507.3	505.3	504.7	504.1	504.7	505.6
30.5°	510.5	510.1	508.9	507.4	506.5	504.4	501.9	501.9	501.3	501.5	502.3
31°	507.2	506.9	506.1	504.8	503.2	501.3	499.0	498.6	498.3	498.7	499.9
31.5°	504.3	503.7	503.6	501.8	500.2	498.3	495.6	495.2	494.9	495.3	496.6
32°	501.4	501.2	500.1	499.3	497.1	496.0	492.7	492.7	491.8	492.3	493.7
32.5°	498.5	498.3	497.7	495.9	493.9	493.4	489.8	489.1	488.3	489.5	490.3
33°	495.7	495.5	495.1	493.2	491.4	490.2	486.9	486.1	485.3	486.4	487.7
33.5°	492.6	492.5	492.0	489.8	488.0	487.1	483.6	483.8	482.2	483.2	483.9
34°	489.0	489.8	488.7	486.8	485.5	483.6	480.8	480.8	479.0	480.2	481.0
34.5°	485.9	486.8	485.9	483.3	482.2	480.6	478.0	477.3	476.3	476.7	477.9
35°	483.8	483.5	482.8	479.9	479.1	477.4	474.3	473.8	472.9	473.7	475.0
35.5°	480.7	480.2	479.6	477.4	475.7	473.9	470.7	470.1	468.9	470.9	471.5
36°	476.8	476.8	476.3	474.3	472.5	469.9	467.5	467.7	465.7	467.6	468.8
36.5°	473.5	473.7	472.3	471.3	468.7	466.7	463.9	464.0	462.2	463.9	464.7
37°	470.8	470.7	469.1	467.5	465.3	463.5	460.5	460.9	458.7	460.0	461.2
37.5°	467.5	466.8	466.3	464.0	462.2	459.8	457.4	456.9	455.4	456.6	458.0
38°	464.0	463.6	462.6	461.1	458.7	456.4	454.4	452.9	452.3	453.6	454.8
38.5°	459.9	460.3	459.0	457.0	454.7	452.9	450.9	449.5	448.6	450.6	451.6
39°	456.7	456.5	456.0	453.6	451.0	450.0	447.0	446.3	445.0	447.1	448.0
39.5°	453.1	452.9	452.6	449.7	447.7	446.4	443.5	442.6	441.8	442.7	444.0
40°	450.2	449.2	449.2	446.2	444.3	442.6	440.1	439.0	438.2	439.2	440.2
40.5°	446.8	446.1	445.5	442.6	440.4	438.7	436.1	435.8	434.4	435.3	436.7
41°	443.1	442.6	441.5	439.6	437.0	435.0	432.0	431.7	430.9	431.2	433.1
41.5°	439.5	438.9	437.8	436.0	433.3	431.7	428.5	427.5	426.4	427.7	429.2
42°	435.6	434.8	434.1	432.2	429.7	427.4	424.8	424.1	422.7	424.0	425.5
42.5°	431.9	431.6	430.0	428.8	426.0	423.8	420.9	420.1	418.7	420.6	422.3
43°	428.1	428.2	426.1	424.5	422.3	420.7	417.0	416.5	415.2	416.3	417.9
43.5°	424.1	424.3	423.0	420.4	418.9	416.8	413.4	412.2	411.6	412.8	414.2
44°	420.4	420.1	419.1	416.5	414.9	412.4	409.6	408.5	407.9	409.1	410.2
44.5°	416.6	416.4	415.0	412.6	410.2	408.3	405.9	404.6	403.7	405.5	406.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	412.7	412.0	411.0	408.8	406.7	404.5	401.8	400.8	399.7	401.0	402.6
45.5°	409.0	408.5	406.8	405.5	403.1	401.0	398.0	396.7	395.5	397.3	398.5
46°	404.8	404.8	402.9	401.2	399.2	397.0	393.2	392.5	391.2	393.2	394.8
46.5°	400.4	400.1	399.0	396.7	395.2	392.9	389.4	388.4	387.2	389.3	390.7
47°	396.6	396.1	394.7	392.9	391.3	388.8	385.2	384.3	383.2	385.1	386.8
47.5°	392.6	392.1	390.4	388.5	386.9	384.5	381.1	380.2	379.4	380.5	382.4
48°	388.6	388.3	386.2	384.6	382.5	380.5	377.3	376.4	375.2	376.4	377.9
48.5°	384.0	384.0	382.4	380.5	378.0	376.1	373.0	372.3	371.1	371.9	374.2
49°	379.9	380.0	378.4	376.3	373.9	371.7	369.0	368.0	366.7	367.9	369.6
49.5°	375.8	375.9	374.1	372.1	369.6	367.2	364.5	363.7	362.4	364.0	364.9
50°	371.9	371.6	369.4	367.6	365.6	363.3	360.0	359.7	358.1	359.8	360.9
50.5°	367.2	367.2	365.3	363.2	361.7	359.5	356.0	355.3	353.6	355.2	356.8
51°	362.7	362.8	360.9	359.1	357.4	354.7	351.3	350.5	349.3	350.4	352.4
51.5°	358.6	358.5	356.9	354.7	353.2	350.2	347.5	346.0	344.8	346.2	347.9
52°	354.7	353.8	352.6	350.4	348.2	346.4	343.3	342.0	340.3	341.9	343.4
52.5°	350.3	349.6	348.1	346.0	343.4	341.7	338.9	337.7	336.1	337.1	338.9
53°	345.8	345.4	343.6	341.5	339.1	336.7	334.2	333.0	331.5	333.3	334.6
53.5°	341.0	340.8	339.2	337.4	334.9	332.3	329.9	327.9	327.1	328.8	330.1
54°	336.9	336.7	335.1	332.5	330.2	328.2	325.0	323.6	322.4	323.9	325.8
54.5°	332.7	332.1	330.6	327.8	326.2	323.9	319.9	318.8	318.3	319.1	321.1
55°	327.7	327.5	326.3	323.2	321.6	319.2	315.4	314.7	313.8	314.6	316.3
55.5°	322.9	322.5	321.3	319.0	316.8	314.1	311.0	309.7	308.9	309.9	311.4
56°	318.7	317.9	316.3	314.3	311.8	309.3	306.5	305.1	304.4	305.3	307.2
56.5°	313.9	313.6	312.0	309.3	307.3	304.5	301.7	301.0	299.6	301.0	302.6
57°	309.1	309.0	307.0	304.5	302.7	300.1	297.0	296.1	294.6	296.4	298.1
57.5°	304.5	304.3	302.6	299.9	298.2	295.6	292.0	290.8	290.0	291.4	293.2
58°	299.9	299.1	297.9	295.0	293.3	290.6	287.1	286.1	285.2	286.4	288.1
58.5°	294.9	294.2	292.8	290.3	288.3	285.4	282.3	281.4	280.5	281.4	283.3
59°	290.3	289.9	287.8	285.5	283.7	280.8	277.8	276.5	275.4	276.8	278.3
59.5°	285.6	284.9	283.3	281.1	279.0	276.0	272.9	271.8	270.6	272.2	273.4
60°	280.7	280.0	278.2	276.3	273.9	271.2	268.4	267.0	265.8	267.3	269.0
60.5°	275.9	275.0	273.3	271.4	268.5	266.5	263.4	262.1	261.0	262.0	264.1
61°	271.0	269.9	268.3	266.2	263.8	261.5	258.6	257.0	256.1	257.4	259.3
61.5°	265.6	265.0	263.4	261.1	258.9	256.5	253.7	251.8	250.8	252.3	254.2
62°	261.0	260.1	258.5	256.0	254.0	251.5	248.7	247.0	245.8	247.4	249.2
62.5°	255.9	255.1	253.4	251.2	248.8	246.7	243.6	242.0	240.7	242.3	243.9
63°	251.1	250.1	248.4	246.3	244.0	241.6	238.4	237.2	235.9	237.1	238.8
63.5°	246.4	244.9	243.5	240.9	239.2	236.5	233.6	232.0	231.1	231.9	234.1
64°	241.0	240.2	238.4	236.0	234.3	231.4	228.1	226.9	225.9	227.0	229.1
64.5°	236.0	235.1	233.4	230.8	228.9	226.4	222.9	221.7	220.5	221.7	223.9
65°	231.1	230.3	228.3	225.6	223.8	221.3	217.8	216.6	215.5	216.7	218.7
65.5°	226.0	225.0	223.3	220.3	218.8	216.0	212.5	211.6	210.5	211.7	213.6
66°	220.4	219.9	217.8	215.1	213.6	210.8	207.4	206.1	205.5	206.4	208.5
66.5°	215.0	214.5	212.6	210.2	208.3	205.7	202.2	201.1	200.3	201.2	203.0
67°	210.2	209.1	207.4	204.9	203.3	200.5	197.5	195.8	195.1	195.9	197.9

TEST NUMBER: P869729
 CATALOG NUMBER: SMX18SLSFS010-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	204.8	203.9	202.1	199.4	198.1	195.3	192.2	190.4	189.9	190.6	192.5
68°	199.5	198.7	196.8	194.1	192.9	190.0	186.9	185.5	184.6	185.7	187.5
68.5°	194.2	193.5	191.7	189.1	187.5	184.8	181.6	180.3	179.2	180.3	182.4
69°	189.1	188.5	186.5	184.1	182.6	179.4	176.2	174.8	173.9	174.9	177.2
69.5°	184.0	183.2	181.1	178.3	177.0	173.9	170.9	169.3	168.6	169.4	172.0
70°	178.3	177.9	175.7	173.0	171.5	168.8	165.5	164.2	163.2	164.2	166.3
70.5°	173.0	172.6	170.3	167.7	166.4	163.7	160.6	159.0	158.2	159.2	161.2
71°	167.7	167.3	165.3	162.6	161.2	158.4	155.2	153.8	153.0	153.9	155.8
71.5°	162.6	162.1	159.9	156.9	155.7	153.0	149.8	148.3	147.6	148.6	150.5
72°	157.3	156.6	154.4	151.7	150.5	147.6	144.5	142.9	142.5	143.3	145.4
72.5°	152.1	151.0	149.0	146.5	145.2	142.4	139.3	137.9	137.0	138.1	140.1
73°	146.6	145.6	143.6	141.0	139.9	137.2	134.1	132.4	131.6	132.8	134.8
73.5°	141.1	140.3	138.5	135.7	134.4	131.7	128.8	127.1	126.3	127.8	129.4
74°	135.8	134.9	132.9	130.4	129.1	126.4	123.6	121.9	121.1	122.3	124.2
74.5°	130.5	129.6	127.7	124.8	124.0	121.2	118.3	116.7	116.0	117.1	118.8
75°	125.0	124.2	122.3	119.4	118.6	115.8	113.0	111.5	110.6	111.8	113.6
75.5°	119.8	119.1	117.1	114.3	113.3	110.6	108.0	106.1	105.5	106.8	108.5
76°	114.6	113.8	111.9	109.0	108.1	105.3	102.6	100.9	100.3	101.5	103.3
76.5°	109.3	108.5	106.6	103.8	103.0	100.2	97.4	96.0	95.1	96.2	98.0
77°	104.2	103.1	101.4	98.6	97.7	94.9	92.3	90.7	90.0	91.0	92.7
77.5°	99.1	97.9	96.3	93.5	92.4	89.7	87.2	85.6	84.9	86.0	87.8
78°	93.8	92.7	91.1	88.4	87.4	84.7	82.3	80.4	79.9	80.8	82.7
78.5°	88.6	87.6	86.0	83.3	82.4	79.6	77.1	75.5	74.9	75.8	77.5
79°	83.6	82.6	80.8	78.2	77.2	74.4	72.0	70.6	69.8	70.8	72.5
79.5°	78.6	77.6	75.9	73.2	72.3	69.6	67.2	65.8	65.1	66.2	67.7
80°	73.5	72.4	70.9	68.3	67.4	64.9	62.5	61.0	60.3	61.4	63.1
80.5°	68.7	67.6	66.1	63.5	62.7	60.1	57.8	56.3	55.5	56.8	58.5
81°	63.8	62.7	61.4	58.8	58.0	55.5	53.1	51.7	51.1	52.1	53.8
81.5°	59.0	58.1	56.6	54.1	53.3	50.8	48.5	47.2	46.7	47.5	49.1
82°	54.2	53.4	51.7	49.3	48.7	46.2	44.0	42.6	42.1	43.0	44.6
82.5°	49.5	48.9	47.0	44.7	44.2	41.8	39.8	38.3	37.8	38.7	40.2
83°	44.9	44.0	42.5	40.4	39.9	37.6	35.6	34.2	33.7	34.6	36.2
83.5°	40.6	39.6	38.2	36.2	35.7	33.4	31.4	30.1	29.7	30.5	31.9
84°	36.3	35.5	34.0	32.1	31.6	29.4	27.4	26.2	25.7	26.6	28.0
84.5°	32.3	31.5	30.1	28.2	27.7	25.6	23.7	22.5	22.2	23.0	24.2
85°	28.3	27.5	26.3	24.4	23.8	21.9	20.1	19.0	18.7	19.4	20.7
85.5°	24.4	23.8	22.6	20.8	20.2	18.4	16.7	15.8	15.6	16.1	17.3
86°	21.0	20.3	19.2	17.6	17.0	15.2	13.7	12.8	12.6	13.1	14.2
86.5°	17.6	17.1	16.2	14.6	13.9	12.5	11.2	10.4	10.1	10.9	11.6
87°	14.7	14.2	13.2	11.9	11.4	10.0	8.8	8.1	8.0	8.4	9.4
87.5°	11.9	11.5	10.6	9.4	8.9	7.7	6.6	5.9	5.9	6.4	7.1
88°	9.4	9.0	8.2	7.0	6.7	5.6	4.6	4.1	4.0	4.4	5.1
88.5°	7.0	6.6	6.0	5.0	4.9	3.8	3.0	2.4	2.3	2.7	3.3
89°	5.0	4.7	4.2	3.4	3.4	2.4	1.6	1.2	1.1	1.3	1.9
89.5°	3.5	3.3	2.8	2.1	1.9	1.2	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: P869729
CATALOG NUMBER: SMX18SLSFS010-1500LM-4000K

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: P869729
 CATALOG NUMBER: SMX18SLSFS010-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	595.8	595.8	595.8	595.8	595.8	595.8
0.5°	596.3	595.1	596.6	595.5	595.4	595.7
1°	595.8	595.0	596.9	595.6	595.3	596.2
1.5°	595.6	595.6	596.4	595.6	595.5	595.6
2°	595.2	595.5	595.7	595.6	596.3	595.3
2.5°	594.9	594.6	596.4	595.2	595.3	595.2
3°	595.5	594.2	596.3	594.8	595.8	594.4
3.5°	595.0	594.8	595.6	594.5	595.3	594.7
4°	594.8	594.2	595.5	594.7	594.6	594.6
4.5°	594.7	593.6	595.2	594.4	594.5	594.5
5°	594.3	593.2	595.3	593.9	594.1	594.7
5.5°	592.9	592.7	595.0	593.6	594.4	594.3
6°	592.2	592.4	595.1	593.5	593.5	594.0
6.5°	591.6	592.6	594.4	593.4	593.2	593.5
7°	591.3	591.2	593.8	592.4	593.0	593.1
7.5°	590.5	591.1	593.0	592.0	592.9	592.1
8°	589.7	590.4	591.6	591.5	592.0	591.4
8.5°	588.7	589.2	590.8	590.6	590.4	590.7
9°	587.9	588.5	590.6	589.2	590.3	589.9
9.5°	586.5	587.8	589.6	588.5	589.1	588.5
10°	585.7	586.9	588.2	587.4	587.9	587.2
10.5°	584.3	585.6	587.2	585.4	587.7	586.5
11°	583.5	584.3	586.0	584.5	586.1	585.4
11.5°	581.9	582.9	584.8	583.9	584.7	584.2
12°	580.7	581.2	584.2	583.1	583.7	583.7
12.5°	579.5	580.4	582.2	581.5	582.8	582.6
13°	578.6	578.9	580.6	580.8	581.5	581.5
13.5°	577.2	578.0	579.6	579.7	580.2	580.4
14°	576.2	576.5	578.9	578.7	578.4	579.3
14.5°	575.2	575.4	576.9	577.1	577.5	578.0
15°	573.6	573.6	575.2	575.1	576.9	577.1
15.5°	571.1	572.7	574.1	573.2	575.8	575.2
16°	569.5	571.3	572.6	572.3	573.8	574.1
16.5°	567.9	569.3	571.1	570.7	572.8	572.3
17°	566.7	567.0	569.4	568.5	571.0	570.1
17.5°	564.9	565.7	568.5	566.8	569.4	568.9
18°	563.0	564.5	566.7	566.1	567.7	567.7
18.5°	561.2	562.9	564.4	564.5	565.4	565.7
19°	559.2	560.8	562.0	562.1	563.2	563.3
19.5°	557.0	558.9	560.2	559.9	561.5	561.4
20°	555.4	557.1	558.6	557.9	559.5	559.6
20.5°	554.2	555.4	556.1	556.3	557.8	557.5
21°	552.3	552.9	554.3	554.9	556.0	556.3
21.5°	550.1	550.1	552.3	553.2	554.5	554.3
22°	547.7	547.9	550.1	550.7	552.7	551.5

TEST NUMBER: P869729
 CATALOG NUMBER: SMX18SLSFS010-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	544.8	546.6	547.9	548.1	549.9	549.3
23°	542.9	544.5	546.2	546.1	547.3	547.4
23.5°	540.4	541.6	543.7	544.6	545.2	545.1
24°	538.3	539.4	542.0	541.6	543.0	543.0
24.5°	536.7	537.6	539.5	539.4	540.8	541.0
25°	534.1	535.2	537.0	537.8	539.1	538.6
25.5°	531.5	533.3	534.3	535.4	537.2	536.1
26°	529.2	529.9	532.0	532.7	534.2	534.0
26.5°	526.7	527.3	530.0	529.6	531.3	531.7
27°	523.7	524.6	527.8	527.4	529.1	529.0
27.5°	520.8	521.5	524.8	525.3	527.5	526.8
28°	518.3	518.8	521.9	523.3	524.7	524.5
28.5°	515.2	516.9	519.0	520.3	521.8	520.7
29°	513.1	514.3	517.0	517.6	518.3	518.5
29.5°	510.5	511.4	514.1	514.7	516.4	515.2
30°	508.2	508.6	511.0	511.4	513.9	513.7
30.5°	504.4	506.4	507.6	508.1	510.7	510.5
31°	501.4	502.4	505.2	505.8	507.7	507.2
31.5°	498.4	499.6	502.7	502.5	505.2	504.3
32°	496.1	496.9	499.9	499.7	502.7	501.4
32.5°	493.5	494.3	496.6	497.0	500.0	498.5
33°	490.2	491.2	493.9	494.8	496.7	495.7
33.5°	486.2	488.0	490.7	491.5	493.7	492.6
34°	483.4	484.9	487.3	487.9	490.3	489.0
34.5°	479.9	481.8	484.2	484.9	487.2	485.9
35°	476.8	478.6	481.0	482.0	484.1	483.8
35.5°	474.0	474.9	478.1	478.9	480.7	480.7
36°	470.8	471.2	474.6	475.6	477.2	476.8
36.5°	467.5	467.9	471.2	471.5	474.0	473.5
37°	464.1	464.6	468.3	468.3	470.5	470.8
37.5°	460.2	461.6	464.9	464.7	467.7	467.5
38°	456.6	458.1	461.5	461.7	464.5	464.0
38.5°	453.1	454.7	457.8	458.5	461.2	459.9
39°	449.5	451.6	454.6	455.0	456.8	456.7
39.5°	446.1	448.5	451.0	451.1	453.4	453.1
40°	442.4	444.5	447.5	448.3	449.7	450.2
40.5°	439.4	440.7	443.8	444.8	446.3	446.8
41°	436.0	437.3	440.0	441.2	442.4	443.1
41.5°	431.9	433.9	436.4	437.3	439.0	439.5
42°	428.3	429.9	433.0	433.3	435.9	435.6
42.5°	423.9	425.6	429.0	429.4	432.1	431.9
43°	420.0	422.3	424.6	426.0	428.5	428.1
43.5°	415.9	418.0	420.5	422.5	424.4	424.1
44°	412.4	413.8	416.5	418.3	420.6	420.4
44.5°	408.5	410.5	413.4	413.8	416.7	416.6

TEST NUMBER: P869729
 CATALOG NUMBER: SMX18SLSFS010-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	404.5	406.9	409.7	409.9	412.3	412.7
45.5°	400.3	403.1	405.6	406.1	408.2	409.0
46°	396.4	398.9	401.8	402.3	404.4	404.8
46.5°	392.4	394.7	397.8	398.9	400.4	400.4
47°	388.2	390.7	393.8	394.7	396.4	396.6
47.5°	384.0	386.8	389.6	390.5	392.1	392.6
48°	380.0	382.5	385.5	386.3	388.3	388.6
48.5°	375.9	377.9	381.2	382.3	384.2	384.0
49°	371.5	373.6	376.7	378.0	380.0	379.9
49.5°	367.4	369.5	372.2	373.9	375.9	375.8
50°	363.1	364.7	367.7	369.9	371.5	371.9
50.5°	358.6	360.6	363.4	365.7	367.0	367.2
51°	354.6	356.7	359.5	360.9	362.8	362.7
51.5°	350.3	352.0	355.4	356.4	358.8	358.6
52°	346.0	347.4	351.2	351.9	354.7	354.7
52.5°	341.4	343.4	346.8	348.1	350.2	350.3
53°	336.9	339.1	342.4	343.9	346.1	345.8
53.5°	332.8	334.6	337.7	338.6	341.4	341.0
54°	328.0	330.0	333.3	334.2	336.9	336.9
54.5°	323.5	325.2	328.7	330.1	331.9	332.7
55°	319.0	320.7	324.0	325.4	327.8	327.7
55.5°	314.5	316.0	319.3	321.1	323.4	322.9
56°	309.9	311.5	314.8	316.4	318.7	318.7
56.5°	305.1	306.7	310.2	311.5	314.2	313.9
57°	300.2	301.9	305.3	306.8	309.4	309.1
57.5°	295.2	297.0	300.5	301.5	304.4	304.5
58°	290.7	292.3	295.6	297.2	299.9	299.9
58.5°	286.2	287.5	290.5	292.7	294.9	294.9
59°	281.5	282.8	285.8	288.1	290.3	290.3
59.5°	276.3	277.9	280.8	283.1	285.4	285.6
60°	271.8	272.8	276.3	278.1	280.7	280.7
60.5°	266.3	267.8	271.1	273.2	275.8	275.9
61°	261.4	262.8	266.3	268.1	270.7	271.0
61.5°	256.6	258.2	261.7	263.1	265.6	265.6
62°	251.5	253.3	256.8	258.2	260.7	261.0
62.5°	246.7	248.3	251.8	253.4	255.7	255.9
63°	241.5	243.0	246.6	248.1	251.0	251.1
63.5°	236.6	238.0	241.7	243.2	245.8	246.4
64°	231.5	233.2	236.6	238.1	240.2	241.0
64.5°	226.4	228.3	231.7	233.3	235.2	236.0
65°	221.3	223.0	226.2	228.3	230.2	231.1
65.5°	216.5	217.9	221.1	222.9	225.1	226.0
66°	211.3	212.3	215.9	217.8	219.9	220.4
66.5°	206.0	207.5	210.8	212.9	214.8	215.0
67°	200.7	202.3	205.5	207.7	209.9	210.2

TEST NUMBER: P869729
 CATALOG NUMBER: SMX18SLSFS010-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	195.6	196.9	199.9	202.1	204.6	204.8
68°	190.2	191.5	194.8	197.1	199.4	199.5
68.5°	185.2	186.4	189.7	191.9	193.8	194.2
69°	180.3	181.4	184.1	186.4	188.6	189.1
69.5°	174.8	176.1	178.9	181.2	183.4	184.0
70°	169.4	170.7	173.6	176.1	178.1	178.3
70.5°	164.2	165.1	168.5	170.7	172.9	173.0
71°	158.7	159.8	163.1	165.2	167.6	167.7
71.5°	153.3	154.6	157.6	160.1	162.3	162.6
72°	147.9	149.4	152.5	154.7	156.7	157.3
72.5°	142.9	143.9	147.1	149.2	151.3	152.1
73°	137.6	138.3	141.7	143.8	146.0	146.6
73.5°	132.4	133.3	136.7	138.6	140.7	141.1
74°	127.1	127.8	131.1	133.1	135.4	135.8
74.5°	121.9	122.5	125.7	128.0	129.9	130.5
75°	116.4	117.2	120.3	122.7	124.5	125.0
75.5°	111.3	112.0	115.2	117.4	119.2	119.8
76°	106.1	106.7	109.8	112.0	114.0	114.6
76.5°	100.8	101.6	104.7	106.8	108.7	109.3
77°	95.5	96.2	99.4	101.5	103.5	104.2
77.5°	90.3	91.2	94.2	96.6	98.5	99.1
78°	85.3	86.1	89.2	91.4	93.3	93.8
78.5°	80.2	81.1	84.2	86.4	88.2	88.6
79°	75.3	76.1	79.1	81.2	83.0	83.6
79.5°	70.2	71.2	74.0	76.2	78.0	78.6
80°	65.4	66.2	69.0	71.1	73.1	73.5
80.5°	60.8	61.4	64.4	66.3	68.1	68.7
81°	56.2	56.8	59.6	61.6	63.3	63.8
81.5°	51.5	52.0	54.8	56.8	58.5	59.0
82°	46.9	47.3	50.1	52.1	53.8	54.2
82.5°	42.5	43.0	45.5	47.4	49.2	49.5
83°	38.4	38.7	41.0	42.8	44.6	44.9
83.5°	34.1	34.4	36.7	38.5	40.2	40.6
84°	30.1	30.4	32.7	34.3	35.9	36.3
84.5°	26.2	26.6	28.7	30.4	31.9	32.3
85°	22.5	23.0	25.0	26.6	27.8	28.3
85.5°	19.0	19.4	21.4	23.0	24.1	24.4
86°	15.8	16.3	17.9	19.4	20.7	21.0
86.5°	12.9	13.4	15.0	16.3	17.4	17.6
87°	10.6	10.8	12.2	13.4	14.3	14.7
87.5°	8.3	8.4	9.8	10.8	11.6	11.9
88°	6.2	6.1	7.3	8.4	9.2	9.4
88.5°	4.3	4.1	5.0	6.0	6.7	7.0
89°	2.7	2.7	3.4	4.1	4.7	5.0
89.5°	1.3	1.5	2.1	2.6	3.3	3.5

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869729
CATALOG NUMBER: SMX18SLSFS010-1500LM-4000K

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)