

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: P869730

Luminaire Tested: **SMX18SLSFS010-1500LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869730  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18SLSFS010-1500LM-5000K  
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT  
 Ballast/Driver: -

**Summary**

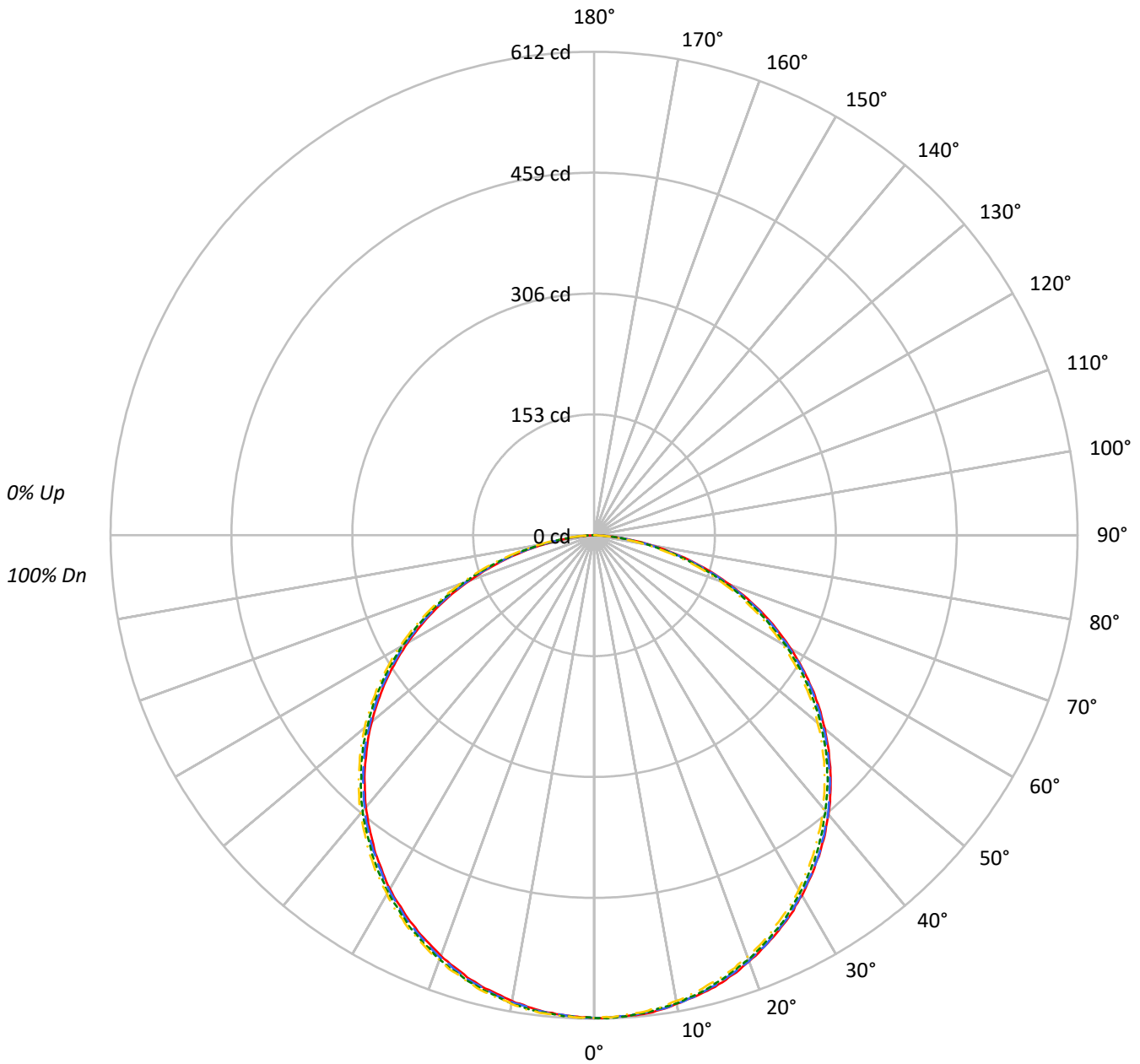
Lumens per Lamp: N/A  
 Luminaire Lumens: 1783.9 lumens  
 Efficiency: N/A  
 Efficacy: 106.8 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
 CIE Type: Direct

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

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

	0°	90°	180°	270°
0°	2923	2923	2923	2923
5°	2929	2923	2915	2922
10°	2925	2922	2907	2924
15°	2931	2912	2897	2914
20°	2922	2912	2885	2908
25°	2916	2901	2868	2897
30°	2910	2884	2856	2881
35°	2898	2869	2833	2866
40°	2883	2846	2807	2847
45°	2863	2822	2773	2824
50°	2839	2790	2733	2784
55°	2803	2751	2684	2743
60°	2754	2688	2608	2676
65°	2683	2599	2502	2590
70°	2558	2460	2341	2449
75°	2370	2249	2096	2222
80°	2077	1904	1705	1871
85°	1592	1339	1054	1295

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.9	3.2
10°-20°	166.1	9.3
20°-30°	252.9	14.2
30°-40°	307.0	17.2
40°-50°	321.6	18.0
50°-60°	294.0	16.5
60°-70°	226.3	12.7
70°-80°	127.9	7.2
80°-90°	30.1	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
<b>0°-30°</b>	<b>476.9</b>	<b>26.7</b>
<b>0°-40°</b>	<b>783.9</b>	<b>43.9</b>
<b>0°-60°</b>	<b>1399.5</b>	<b>78.5</b>
<b>0°-90°</b>	<b>1783.9</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>1783.9</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	611	611	611	611	611	
5°	610	609	607	608	610	58
15°	592	588	585	588	592	167
25°	552	550	543	549	552	255
35°	496	491	485	491	496	310
45°	423	417	410	417	423	326
55°	336	330	322	329	336	300
65°	237	230	221	229	237	234
75°	128	122	113	120	128	136
85°	29	24	19	24	29	35
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°	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1
0.5°	611.0	610.8	611.1	610.6	611.3	611.8	610.6	611.1	610.6	611.0	610.3
1°	611.5	610.4	611.2	611.0	611.0	611.2	610.2	610.6	610.3	610.7	611.1
1.5°	610.9	610.9	610.6	611.0	611.7	611.1	609.8	610.5	610.5	610.2	610.9
2°	610.5	610.1	610.4	610.9	611.5	610.8	610.6	609.8	609.6	609.7	609.7
2.5°	610.5	610.7	610.2	610.9	611.0	610.8	609.9	609.7	609.5	609.5	609.5
3°	609.6	610.8	610.0	610.3	610.4	610.3	609.1	610.1	609.3	608.8	609.6
3.5°	610.0	611.0	609.8	610.2	610.5	609.7	609.1	609.6	608.7	608.7	608.7
4°	609.8	610.3	609.6	610.3	610.1	609.3	607.8	609.1	608.1	609.0	608.1
4.5°	609.7	610.2	608.8	610.1	609.5	609.2	607.8	607.9	608.1	608.3	608.0
5°	610.0	609.6	608.8	609.2	608.6	609.0	607.3	607.6	607.0	606.8	608.5
5.5°	609.5	609.2	608.3	608.2	608.1	608.2	607.1	606.7	606.9	606.2	607.6
6°	609.2	609.2	607.9	608.3	608.1	606.9	606.7	606.5	606.4	605.6	606.5
6.5°	608.7	609.0	607.4	607.2	607.3	607.1	605.7	605.6	605.5	605.1	606.0
7°	608.3	608.5	606.8	607.0	606.7	606.3	604.0	604.5	604.7	604.1	605.9
7.5°	607.2	607.0	606.0	605.8	605.1	605.8	604.0	603.9	603.5	603.4	604.7
8°	606.5	605.8	605.6	605.6	604.2	605.0	603.5	602.8	602.9	602.6	603.0
8.5°	605.8	605.0	605.3	604.1	603.8	604.2	602.5	602.2	601.1	602.0	602.4
9°	605.0	604.0	604.4	603.7	603.0	603.4	601.0	601.4	600.4	600.7	601.4
9.5°	603.5	603.6	603.0	602.4	602.4	602.5	599.4	599.9	600.2	599.9	601.2
10°	602.2	602.3	601.8	601.9	601.6	601.4	598.7	598.7	598.5	599.5	600.1
10.5°	601.5	601.5	601.4	600.4	600.5	599.7	597.9	597.6	597.2	598.1	598.9
11°	600.4	600.4	600.5	599.9	599.2	598.9	596.6	597.2	596.1	596.4	597.5
11.5°	599.1	599.9	598.9	598.2	597.2	598.0	595.5	595.7	594.2	595.6	596.4
12°	598.6	598.3	598.2	596.9	596.6	597.0	593.8	595.1	593.4	593.9	595.7
12.5°	597.6	597.1	597.7	595.9	595.8	595.8	592.4	593.9	591.8	592.8	594.1
13°	596.4	596.8	596.1	594.4	594.4	594.4	591.5	592.1	590.6	591.8	592.2
13.5°	595.2	595.7	594.1	593.3	593.2	592.8	589.9	591.1	590.1	590.6	590.5
14°	594.1	594.4	592.8	592.5	591.9	590.3	587.8	589.4	588.6	589.5	589.6
14.5°	592.8	592.5	591.1	590.5	590.3	589.4	586.2	587.5	586.8	587.6	588.2
15°	591.8	590.9	590.0	589.7	587.9	588.3	585.2	586.1	585.0	585.4	587.1
15.5°	589.9	589.6	588.6	587.8	586.6	586.5	584.1	584.3	583.8	583.8	585.7
16°	588.8	587.9	586.7	586.5	585.6	585.2	582.4	582.7	582.2	582.7	584.1
16.5°	587.0	586.3	585.2	584.5	583.5	583.7	580.7	581.1	579.7	581.1	582.3
17°	584.7	584.3	583.4	583.5	581.8	581.9	579.0	579.7	577.7	578.8	579.9
17.5°	583.5	582.8	582.0	580.9	579.6	580.1	577.4	578.0	576.0	576.8	578.2
18°	582.2	581.4	580.2	579.2	578.4	578.0	575.9	575.7	574.1	575.0	576.6
18.5°	580.2	579.7	578.5	577.3	576.1	576.3	573.1	573.4	572.7	573.1	574.1
19°	577.7	578.2	576.6	575.6	574.9	574.3	571.3	571.5	570.4	571.3	571.6
19.5°	575.8	576.6	575.2	573.6	572.9	572.5	569.6	569.4	568.7	569.3	570.2
20°	573.9	574.1	573.5	572.3	571.9	570.8	567.6	567.3	566.6	567.2	568.8
20.5°	571.8	571.8	570.8	569.8	569.6	568.5	565.8	565.3	564.0	565.1	567.3
21°	570.5	569.6	568.9	567.9	567.2	566.4	563.8	563.1	562.0	563.6	564.7
21.5°	568.4	567.9	567.2	566.6	565.0	564.2	561.6	560.7	559.7	561.7	562.2
22°	565.6	565.6	565.1	564.5	563.0	561.5	559.8	559.7	557.4	558.8	560.2

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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°	563.3	563.3	563.4	562.0	560.4	559.2	557.5	557.0	555.2	556.4	557.6
23°	561.4	561.1	561.0	559.4	558.2	557.7	554.9	555.0	553.1	554.5	555.6
23.5°	559.1	559.3	558.2	557.1	556.2	555.4	552.5	552.9	551.1	552.7	553.2
24°	556.9	557.2	555.9	555.4	553.6	552.9	550.3	549.9	548.8	549.7	551.0
24.5°	554.8	554.6	553.5	552.7	551.3	550.5	546.9	547.0	545.6	546.6	548.4
25°	552.4	551.7	551.3	550.1	549.5	548.0	544.6	545.1	543.3	544.3	545.6
25.5°	549.8	549.5	548.7	547.4	546.9	545.6	542.6	543.0	541.3	541.9	543.2
26°	547.7	547.3	546.3	545.1	544.9	543.1	540.0	540.3	538.7	539.7	541.5
26.5°	545.3	545.1	544.3	542.5	541.7	540.2	537.3	537.8	536.3	536.8	538.5
27°	542.6	542.5	541.8	540.1	539.4	537.2	535.0	535.1	533.1	533.9	535.4
27.5°	540.3	540.5	538.6	537.8	536.4	534.4	532.4	532.4	530.2	531.4	532.5
28°	537.9	536.8	536.0	535.4	532.9	531.8	529.7	529.1	528.1	529.6	530.0
28.5°	534.0	534.2	533.3	532.7	529.9	528.7	526.8	526.4	525.4	526.7	526.8
29°	531.8	531.7	530.4	529.7	527.6	526.6	524.1	523.7	523.0	523.9	524.4
29.5°	528.4	529.5	528.1	526.9	524.6	523.9	521.3	520.6	519.5	520.9	521.6
30°	526.8	526.5	524.9	523.7	522.0	520.3	518.2	517.6	517.0	517.6	518.6
30.5°	523.6	523.2	522.0	520.4	519.5	517.3	514.8	514.7	514.2	514.3	515.2
31°	520.1	519.8	519.1	517.7	516.1	514.2	511.8	511.4	511.0	511.5	512.7
31.5°	517.2	516.6	516.5	514.7	513.0	511.1	508.3	507.9	507.6	508.0	509.4
32°	514.3	514.0	512.9	512.0	509.8	508.7	505.3	505.3	504.4	504.9	506.3
32.5°	511.3	511.1	510.5	508.5	506.5	506.1	502.3	501.6	500.8	502.1	502.8
33°	508.4	508.2	507.8	505.8	503.9	502.8	499.4	498.5	497.7	498.8	500.1
33.5°	505.2	505.1	504.6	502.3	500.5	499.6	496.0	496.1	494.6	495.5	496.3
34°	501.6	502.4	501.3	499.3	498.0	496.0	493.2	493.2	491.3	492.5	493.3
34.5°	498.3	499.3	498.3	495.7	494.6	492.9	490.3	489.5	488.5	488.9	490.2
35°	496.2	495.9	495.1	492.2	491.3	489.7	486.5	485.9	485.1	485.8	487.2
35.5°	493.0	492.5	491.9	489.7	487.9	486.0	482.7	482.1	480.9	483.0	483.6
36°	489.0	489.0	488.5	486.4	484.6	481.9	479.5	479.7	477.6	479.6	480.8
36.5°	485.6	485.8	484.4	483.4	480.7	478.6	475.8	475.8	474.1	475.8	476.6
37°	482.8	482.7	481.1	479.4	477.2	475.3	472.3	472.7	470.5	471.8	473.0
37.5°	479.5	478.8	478.2	475.8	474.1	471.6	469.2	468.6	467.1	468.3	469.7
38°	475.9	475.5	474.4	472.9	470.4	468.1	466.0	464.5	463.9	465.2	466.5
38.5°	471.7	472.1	470.7	468.7	466.3	464.5	462.4	461.0	460.1	462.1	463.2
39°	468.4	468.2	467.7	465.2	462.5	461.5	458.4	457.7	456.4	458.5	459.4
39.5°	464.7	464.5	464.2	461.2	459.2	457.8	454.8	453.9	453.1	454.0	455.3
40°	461.7	460.7	460.7	457.6	455.7	453.9	451.4	450.3	449.5	450.4	451.5
40.5°	458.2	457.5	456.9	453.9	451.6	449.9	447.2	446.9	445.5	446.5	447.8
41°	454.4	453.9	452.8	450.9	448.2	446.1	443.1	442.7	441.9	442.2	444.2
41.5°	450.7	450.1	449.0	447.2	444.3	442.8	439.5	438.5	437.3	438.7	440.2
42°	446.7	446.0	445.2	443.2	440.7	438.4	435.6	434.9	433.5	434.8	436.4
42.5°	442.9	442.6	441.0	439.7	436.9	434.6	431.6	430.8	429.5	431.3	433.1
43°	439.1	439.2	437.1	435.4	433.1	431.4	427.7	427.2	425.8	427.0	428.6
43.5°	435.0	435.2	433.9	431.2	429.6	427.5	424.0	422.8	422.2	423.4	424.8
44°	431.2	430.9	429.8	427.2	425.5	422.9	420.0	418.9	418.3	419.5	420.7
44.5°	427.3	427.1	425.7	423.2	420.7	418.7	416.3	414.9	414.1	415.9	416.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	423.2	422.5	421.5	419.3	417.1	414.8	412.1	411.1	409.9	411.3	412.9
45.5°	419.5	418.9	417.2	415.9	413.4	411.3	408.2	406.8	405.6	407.5	408.7
46°	415.1	415.2	413.2	411.5	409.4	407.1	403.3	402.5	401.2	403.3	405.0
46.5°	410.6	410.4	409.3	406.8	405.3	403.0	399.4	398.3	397.1	399.2	400.7
47°	406.7	406.3	404.8	403.0	401.3	398.7	395.0	394.2	393.1	394.9	396.7
47.5°	402.7	402.1	400.4	398.5	396.8	394.4	390.8	389.9	389.1	390.2	392.2
48°	398.5	398.3	396.0	394.5	392.3	390.2	387.0	386.0	384.8	386.0	387.6
48.5°	393.8	393.8	392.2	390.2	387.6	385.7	382.5	381.8	380.6	381.5	383.8
49°	389.6	389.7	388.1	385.9	383.5	381.2	378.5	377.5	376.1	377.3	379.0
49.5°	385.4	385.6	383.6	381.6	379.0	376.6	373.8	373.0	371.7	373.3	374.2
50°	381.4	381.1	378.9	377.0	374.9	372.6	369.2	368.9	367.2	369.1	370.2
50.5°	376.6	376.6	374.7	372.5	370.9	368.7	365.1	364.4	362.6	364.3	365.9
51°	372.0	372.0	370.1	368.2	366.6	363.8	360.3	359.5	358.2	359.4	361.4
51.5°	367.8	367.7	366.0	363.8	362.3	359.1	356.4	354.8	353.7	355.1	356.8
52°	363.8	362.9	361.6	359.4	357.1	355.2	352.0	350.8	349.0	350.7	352.2
52.5°	359.3	358.6	357.0	354.9	352.2	350.5	347.6	346.3	344.7	345.7	347.6
53°	354.7	354.3	352.4	350.2	347.8	345.3	342.8	341.5	339.9	341.9	343.2
53.5°	349.7	349.5	347.9	346.1	343.4	340.8	338.3	336.3	335.5	337.3	338.5
54°	345.5	345.3	343.7	341.0	338.6	336.6	333.3	331.9	330.7	332.2	334.2
54.5°	341.2	340.6	339.0	336.2	334.6	332.2	328.0	327.0	326.5	327.2	329.4
55°	336.1	335.8	334.6	331.5	329.8	327.4	323.5	322.7	321.8	322.6	324.4
55.5°	331.2	330.8	329.5	327.2	324.9	322.2	319.0	317.6	316.8	317.9	319.4
56°	326.9	326.0	324.4	322.3	319.8	317.3	314.4	313.0	312.1	313.1	315.1
56.5°	321.9	321.6	320.0	317.3	315.1	312.3	309.4	308.7	307.3	308.7	310.3
57°	317.0	316.9	314.9	312.3	310.5	307.8	304.6	303.7	302.1	304.0	305.7
57.5°	312.3	312.1	310.3	307.5	305.8	303.2	299.4	298.2	297.4	298.8	300.7
58°	307.5	306.8	305.5	302.5	300.8	298.0	294.4	293.4	292.5	293.7	295.4
58.5°	302.5	301.7	300.3	297.7	295.6	292.7	289.5	288.6	287.7	288.6	290.5
59°	297.7	297.3	295.2	292.8	291.0	288.0	284.9	283.6	282.4	283.9	285.4
59.5°	293.0	292.2	290.6	288.3	286.1	283.1	279.9	278.8	277.5	279.2	280.4
60°	287.8	287.2	285.3	283.4	280.9	278.1	275.2	273.9	272.6	274.2	275.9
60.5°	282.9	282.0	280.3	278.4	275.4	273.3	270.1	268.8	267.6	268.7	270.9
61°	277.9	276.8	275.2	273.0	270.6	268.2	265.2	263.5	262.7	264.0	265.9
61.5°	272.4	271.8	270.1	267.8	265.5	263.0	260.2	258.2	257.2	258.7	260.7
62°	267.7	266.7	265.1	262.6	260.5	257.9	255.1	253.4	252.1	253.7	255.6
62.5°	262.5	261.7	259.9	257.6	255.2	253.0	249.8	248.2	246.9	248.5	250.2
63°	257.5	256.5	254.7	252.6	250.3	247.8	244.5	243.3	241.9	243.2	244.9
63.5°	252.7	251.2	249.7	247.1	245.3	242.6	239.5	237.9	237.0	237.9	240.1
64°	247.1	246.3	244.5	242.1	240.3	237.4	234.0	232.7	231.7	232.8	235.0
64.5°	242.1	241.2	239.3	236.7	234.7	232.2	228.6	227.4	226.2	227.4	229.6
65°	237.0	236.2	234.2	231.4	229.6	226.9	223.3	222.1	221.0	222.3	224.3
65.5°	231.8	230.8	229.1	225.9	224.4	221.5	218.0	217.0	215.9	217.1	219.1
66°	226.0	225.5	223.4	220.6	219.0	216.2	212.7	211.4	210.7	211.7	213.8
66.5°	220.5	220.0	218.0	215.5	213.7	211.0	207.4	206.2	205.4	206.3	208.2
67°	215.5	214.5	212.7	210.1	208.5	205.6	202.5	200.8	200.1	201.0	203.0



TEST NUMBER: P869730  
 CATALOG NUMBER: SMX18SLSFS010-1500LM-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	210.1	209.1	207.2	204.5	203.1	200.3	197.1	195.3	194.8	195.5	197.5
68°	204.6	203.8	201.8	199.0	197.8	194.9	191.7	190.2	189.4	190.4	192.3
68.5°	199.2	198.5	196.6	194.0	192.3	189.5	186.2	184.9	183.8	184.9	187.1
69°	193.9	193.3	191.2	188.8	187.2	184.0	180.7	179.3	178.3	179.4	181.7
69.5°	188.7	187.9	185.7	182.8	181.5	178.3	175.3	173.7	172.9	173.8	176.4
70°	182.9	182.4	180.2	177.4	175.9	173.1	169.8	168.4	167.4	168.4	170.6
70.5°	177.5	177.0	174.6	172.0	170.7	167.9	164.7	163.1	162.2	163.2	165.4
71°	172.0	171.5	169.5	166.8	165.3	162.5	159.2	157.8	156.9	157.8	159.8
71.5°	166.7	166.2	164.0	160.9	159.7	156.9	153.6	152.1	151.3	152.4	154.3
72°	161.4	160.6	158.4	155.6	154.3	151.3	148.2	146.6	146.1	147.0	149.1
72.5°	155.9	154.8	152.8	150.3	148.9	146.0	142.9	141.4	140.6	141.6	143.7
73°	150.4	149.3	147.3	144.6	143.5	140.7	137.6	135.8	134.9	136.2	138.2
73.5°	144.7	143.9	142.0	139.2	137.9	135.1	132.1	130.3	129.5	131.1	132.8
74°	139.3	138.4	136.3	133.8	132.4	129.6	126.8	125.0	124.2	125.5	127.3
74.5°	133.8	132.9	131.0	128.0	127.2	124.3	121.4	119.7	118.9	120.0	121.9
75°	128.2	127.3	125.5	122.5	121.7	118.7	115.9	114.4	113.4	114.7	116.5
75.5°	122.9	122.1	120.0	117.2	116.2	113.4	110.8	108.8	108.2	109.6	111.3
76°	117.6	116.7	114.7	111.8	110.8	108.0	105.3	103.5	102.9	104.1	105.9
76.5°	112.1	111.3	109.3	106.5	105.6	102.7	99.9	98.4	97.5	98.7	100.5
77°	106.9	105.8	104.0	101.1	100.2	97.3	94.7	93.0	92.3	93.3	95.1
77.5°	101.6	100.4	98.8	95.9	94.8	92.0	89.4	87.8	87.1	88.2	90.0
78°	96.2	95.1	93.4	90.7	89.6	86.9	84.4	82.5	81.9	82.9	84.8
78.5°	90.9	89.9	88.2	85.5	84.5	81.7	79.0	77.5	76.8	77.8	79.5
79°	85.8	84.7	82.9	80.2	79.2	76.4	73.9	72.4	71.6	72.6	74.4
79.5°	80.6	79.6	77.8	75.1	74.1	71.4	68.9	67.5	66.8	67.9	69.4
80°	75.4	74.2	72.7	70.1	69.1	66.6	64.1	62.6	61.9	63.0	64.7
80.5°	70.4	69.3	67.8	65.1	64.3	61.6	59.3	57.8	57.0	58.2	60.0
81°	65.4	64.3	63.0	60.3	59.5	56.9	54.4	53.0	52.4	53.5	55.2
81.5°	60.5	59.6	58.0	55.5	54.7	52.1	49.7	48.4	47.9	48.7	50.4
82°	55.6	54.8	53.0	50.6	49.9	47.4	45.1	43.7	43.2	44.1	45.8
82.5°	50.7	50.1	48.2	45.8	45.3	42.9	40.8	39.3	38.8	39.7	41.3
83°	46.0	45.1	43.6	41.4	41.0	38.6	36.5	35.1	34.6	35.5	37.1
83.5°	41.6	40.6	39.1	37.1	36.6	34.3	32.2	30.9	30.5	31.3	32.7
84°	37.3	36.4	34.9	33.0	32.4	30.2	28.1	26.9	26.4	27.3	28.7
84.5°	33.1	32.3	30.9	28.9	28.4	26.2	24.3	23.1	22.8	23.6	24.8
85°	29.0	28.2	26.9	25.0	24.4	22.5	20.6	19.4	19.2	19.9	21.2
85.5°	25.1	24.4	23.2	21.4	20.8	18.8	17.1	16.2	16.0	16.5	17.7
86°	21.5	20.8	19.7	18.0	17.4	15.6	14.1	13.1	12.9	13.5	14.6
86.5°	18.1	17.6	16.6	15.0	14.3	12.8	11.5	10.7	10.4	11.2	11.9
87°	15.1	14.6	13.6	12.2	11.7	10.3	9.0	8.3	8.2	8.7	9.6
87.5°	12.2	11.8	10.9	9.6	9.2	7.9	6.7	6.0	6.0	6.5	7.3
88°	9.6	9.2	8.4	7.2	6.9	5.7	4.7	4.2	4.1	4.6	5.2
88.5°	7.2	6.8	6.2	5.1	5.0	3.9	3.1	2.5	2.4	2.8	3.4
89°	5.1	4.9	4.3	3.5	3.5	2.4	1.6	1.2	1.1	1.4	1.9
89.5°	3.6	3.4	2.9	2.2	1.9	1.2	0.6	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: P869730  
CATALOG NUMBER: SMX18SLSFS010-1500LM-5000K

**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: P869730  
 CATALOG NUMBER: SMX18SLSFS010-1500LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	611.1	611.1	611.1	611.1	611.1	611.1
0.5°	611.6	610.3	611.9	610.7	610.6	611.0
1°	611.0	610.2	612.1	610.9	610.5	611.5
1.5°	610.8	610.9	611.6	610.9	610.7	610.9
2°	610.5	610.8	611.0	610.9	611.6	610.5
2.5°	610.1	609.8	611.6	610.5	610.5	610.5
3°	610.7	609.4	611.6	610.0	611.1	609.6
3.5°	610.2	610.0	610.8	609.7	610.6	610.0
4°	610.0	609.5	610.8	609.9	609.8	609.8
4.5°	610.0	608.8	610.4	609.6	609.7	609.7
5°	609.5	608.4	610.5	609.1	609.3	610.0
5.5°	608.1	607.8	610.3	608.8	609.6	609.5
6°	607.3	607.6	610.3	608.7	608.7	609.2
6.5°	606.7	607.8	609.6	608.6	608.4	608.7
7°	606.4	606.3	609.0	607.5	608.2	608.3
7.5°	605.7	606.2	608.2	607.2	608.0	607.2
8°	604.8	605.5	606.7	606.7	607.2	606.5
8.5°	603.8	604.3	605.9	605.7	605.5	605.8
9°	603.0	603.6	605.7	604.3	605.4	605.0
9.5°	601.5	602.9	604.7	603.5	604.2	603.5
10°	600.7	601.9	603.2	602.4	603.0	602.2
10.5°	599.3	600.6	602.2	600.4	602.7	601.5
11°	598.4	599.3	601.0	599.5	601.1	600.4
11.5°	596.8	597.8	599.8	598.9	599.7	599.1
12°	595.6	596.1	599.1	598.0	598.7	598.6
12.5°	594.4	595.2	597.1	596.4	597.7	597.6
13°	593.4	593.7	595.5	595.6	596.4	596.4
13.5°	591.9	592.8	594.4	594.6	595.1	595.2
14°	590.9	591.3	593.8	593.5	593.3	594.1
14.5°	589.9	590.1	591.6	591.9	592.3	592.8
15°	588.3	588.3	590.0	589.8	591.6	591.8
15.5°	585.7	587.3	588.8	587.8	590.5	589.9
16°	584.1	586.0	587.2	587.0	588.5	588.8
16.5°	582.5	583.9	585.7	585.3	587.5	587.0
17°	581.2	581.5	584.0	583.0	585.7	584.7
17.5°	579.4	580.2	583.0	581.3	584.0	583.5
18°	577.4	578.9	581.2	580.5	582.2	582.2
18.5°	575.6	577.3	578.9	578.9	579.9	580.2
19°	573.6	575.1	576.4	576.5	577.6	577.7
19.5°	571.3	573.2	574.5	574.2	575.9	575.8
20°	569.6	571.3	572.9	572.2	573.8	573.9
20.5°	568.4	569.6	570.3	570.5	572.1	571.8
21°	566.5	567.0	568.4	569.1	570.3	570.5
21.5°	564.1	564.2	566.4	567.3	568.7	568.4
22°	561.7	562.0	564.1	564.8	566.9	565.6

TEST NUMBER: P869730  
 CATALOG NUMBER: SMX18SLSFS010-1500LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	558.7	560.6	561.9	562.2	564.0	563.3
23°	556.8	558.4	560.2	560.1	561.3	561.4
23.5°	554.2	555.5	557.6	558.5	559.2	559.1
24°	552.1	553.2	555.9	555.4	556.9	556.9
24.5°	550.4	551.4	553.3	553.2	554.6	554.8
25°	547.8	548.9	550.7	551.6	552.9	552.4
25.5°	545.1	546.9	547.9	549.1	551.0	549.8
26°	542.7	543.5	545.6	546.4	547.9	547.7
26.5°	540.2	540.8	543.5	543.2	544.9	545.3
27°	537.1	538.0	541.3	540.9	542.6	542.6
27.5°	534.1	534.9	538.3	538.7	541.0	540.3
28°	531.5	532.1	535.2	536.7	538.2	537.9
28.5°	528.4	530.2	532.3	533.6	535.2	534.0
29°	526.3	527.5	530.2	530.8	531.6	531.8
29.5°	523.6	524.4	527.2	527.9	529.6	528.4
30°	521.2	521.6	524.1	524.5	527.1	526.8
30.5°	517.3	519.4	520.6	521.1	523.8	523.6
31°	514.3	515.2	518.1	518.8	520.7	520.1
31.5°	511.2	512.4	515.5	515.3	518.1	517.2
32°	508.8	509.6	512.7	512.5	515.5	514.3
32.5°	506.1	506.9	509.4	509.7	512.8	511.3
33°	502.8	503.8	506.6	507.4	509.4	508.4
33.5°	498.6	500.5	503.3	504.1	506.4	505.2
34°	495.8	497.3	499.8	500.4	502.8	501.6
34.5°	492.2	494.2	496.6	497.3	499.6	498.3
35°	489.0	490.8	493.3	494.3	496.5	496.2
35.5°	486.2	487.0	490.3	491.2	493.0	493.0
36°	482.8	483.3	486.7	487.8	489.4	489.0
36.5°	479.5	479.9	483.3	483.6	486.1	485.6
37°	476.0	476.4	480.3	480.3	482.6	482.8
37.5°	472.0	473.5	476.8	476.6	479.7	479.5
38°	468.3	469.8	473.3	473.5	476.4	475.9
38.5°	464.7	466.4	469.5	470.2	473.0	471.7
39°	461.0	463.2	466.2	466.7	468.5	468.4
39.5°	457.6	459.9	462.5	462.7	465.0	464.7
40°	453.8	455.9	458.9	459.7	461.2	461.7
40.5°	450.6	452.0	455.1	456.2	457.7	458.2
41°	447.2	448.5	451.3	452.5	453.7	454.4
41.5°	443.0	445.0	447.5	448.5	450.2	450.7
42°	439.2	440.9	444.0	444.4	447.0	446.7
42.5°	434.8	436.5	440.0	440.4	443.2	442.9
43°	430.8	433.1	435.5	436.9	439.5	439.1
43.5°	426.6	428.7	431.3	433.3	435.2	435.0
44°	423.0	424.3	427.2	429.0	431.3	431.2
44.5°	418.9	421.0	424.0	424.4	427.3	427.3

TEST NUMBER: P869730  
 CATALOG NUMBER: SMX18SLSFS010-1500LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	414.9	417.4	420.2	420.4	422.8	423.2
45.5°	410.6	413.4	416.0	416.5	418.6	419.5
46°	406.6	409.1	412.1	412.6	414.7	415.1
46.5°	402.4	404.8	407.9	409.1	410.6	410.6
47°	398.2	400.7	403.8	404.8	406.5	406.7
47.5°	393.9	396.7	399.6	400.5	402.2	402.7
48°	389.7	392.3	395.4	396.2	398.2	398.5
48.5°	385.5	387.6	390.9	392.1	394.0	393.8
49°	381.0	383.2	386.3	387.7	389.7	389.6
49.5°	376.8	379.0	381.7	383.5	385.5	385.4
50°	372.4	374.0	377.2	379.4	381.0	381.4
50.5°	367.8	369.8	372.7	375.0	376.3	376.6
51°	363.6	365.9	368.7	370.2	372.1	372.0
51.5°	359.3	361.0	364.5	365.6	368.0	367.8
52°	354.8	356.3	360.1	361.0	363.8	363.8
52.5°	350.1	352.2	355.7	357.0	359.1	359.3
53°	345.5	347.7	351.2	352.7	355.0	354.7
53.5°	341.3	343.2	346.4	347.3	350.2	349.7
54°	336.4	338.5	341.8	342.8	345.5	345.5
54.5°	331.8	333.5	337.1	338.6	340.4	341.2
55°	327.2	328.9	332.3	333.8	336.1	336.1
55.5°	322.6	324.1	327.5	329.3	331.7	331.2
56°	317.8	319.4	322.9	324.5	326.9	326.9
56.5°	313.0	314.6	318.1	319.4	322.2	321.9
57°	307.8	309.6	313.1	314.6	317.3	317.0
57.5°	302.8	304.6	308.2	309.2	312.1	312.3
58°	298.2	299.8	303.2	304.8	307.5	307.5
58.5°	293.6	294.8	297.9	300.2	302.5	302.5
59°	288.7	290.0	293.1	295.4	297.7	297.7
59.5°	283.4	285.0	288.0	290.4	292.7	293.0
60°	278.7	279.7	283.4	285.2	287.8	287.8
60.5°	273.1	274.7	278.0	280.2	282.9	282.9
61°	268.1	269.5	273.1	275.0	277.6	277.9
61.5°	263.2	264.8	268.4	269.8	272.4	272.4
62°	258.0	259.8	263.3	264.8	267.4	267.7
62.5°	253.0	254.7	258.3	259.9	262.3	262.5
63°	247.7	249.2	252.9	254.4	257.4	257.5
63.5°	242.7	244.1	247.9	249.4	252.1	252.7
64°	237.5	239.2	242.7	244.1	246.4	247.1
64.5°	232.2	234.1	237.6	239.3	241.2	242.1
65°	227.0	228.8	232.0	234.1	236.1	237.0
65.5°	222.0	223.5	226.8	228.6	230.9	231.8
66°	216.7	217.8	221.5	223.4	225.6	226.0
66.5°	211.2	212.8	216.2	218.3	220.3	220.5
67°	205.8	207.5	210.8	213.0	215.3	215.5

TEST NUMBER: P869730  
 CATALOG NUMBER: SMX18SLSFS010-1500LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	200.6	201.9	205.1	207.2	209.9	210.1
68°	195.1	196.4	199.8	202.1	204.5	204.6
68.5°	189.9	191.2	194.5	196.8	198.8	199.2
69°	184.9	186.0	188.9	191.2	193.4	193.9
69.5°	179.3	180.6	183.5	185.8	188.0	188.7
70°	173.8	175.1	178.0	180.6	182.6	182.9
70.5°	168.4	169.4	172.8	175.1	177.3	177.5
71°	162.8	163.9	167.3	169.4	171.8	172.0
71.5°	157.3	158.6	161.7	164.2	166.5	166.7
72°	151.7	153.2	156.4	158.7	160.7	161.4
72.5°	146.6	147.5	150.9	153.0	155.2	155.9
73°	141.1	141.9	145.3	147.5	149.7	150.4
73.5°	135.8	136.7	140.2	142.1	144.3	144.7
74°	130.3	131.1	134.4	136.5	138.9	139.3
74.5°	125.0	125.7	129.0	131.3	133.3	133.8
75°	119.4	120.2	123.4	125.8	127.7	128.2
75.5°	114.1	114.9	118.2	120.4	122.2	122.9
76°	108.8	109.5	112.6	114.9	116.9	117.6
76.5°	103.3	104.2	107.3	109.6	111.4	112.1
77°	97.9	98.7	101.9	104.1	106.1	106.9
77.5°	92.6	93.6	96.6	99.0	101.0	101.6
78°	87.4	88.3	91.4	93.7	95.7	96.2
78.5°	82.2	83.1	86.4	88.6	90.4	90.9
79°	77.2	78.0	81.1	83.3	85.1	85.8
79.5°	72.0	73.0	75.9	78.2	80.0	80.6
80°	67.1	67.9	70.7	72.9	74.9	75.4
80.5°	62.3	63.0	66.0	68.0	69.9	70.4
81°	57.6	58.2	61.1	63.2	64.9	65.4
81.5°	52.9	53.4	56.2	58.3	60.0	60.5
82°	48.1	48.6	51.4	53.5	55.2	55.6
82.5°	43.6	44.1	46.7	48.6	50.4	50.7
83°	39.4	39.6	42.0	43.9	45.8	46.0
83.5°	35.0	35.3	37.6	39.5	41.3	41.6
84°	30.9	31.2	33.5	35.2	36.8	37.3
84.5°	26.9	27.2	29.4	31.2	32.7	33.1
85°	23.1	23.6	25.6	27.3	28.5	29.0
85.5°	19.4	19.9	21.9	23.6	24.7	25.1
86°	16.2	16.8	18.4	19.9	21.3	21.5
86.5°	13.3	13.8	15.4	16.8	17.8	18.1
87°	10.8	11.1	12.5	13.7	14.7	15.1
87.5°	8.5	8.7	10.0	11.0	11.9	12.2
88°	6.4	6.2	7.5	8.7	9.4	9.6
88.5°	4.4	4.2	5.1	6.2	6.9	7.2
89°	2.7	2.8	3.5	4.2	4.8	5.1
89.5°	1.3	1.6	2.1	2.7	3.4	3.6

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869730  
CATALOG NUMBER: SMX18SLSFS010-1500LM-5000K

**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)