

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: P869744

Luminaire Tested: **SMX18SLSFSD2W-1500LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869744
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFSD2W-1500LM-4000K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

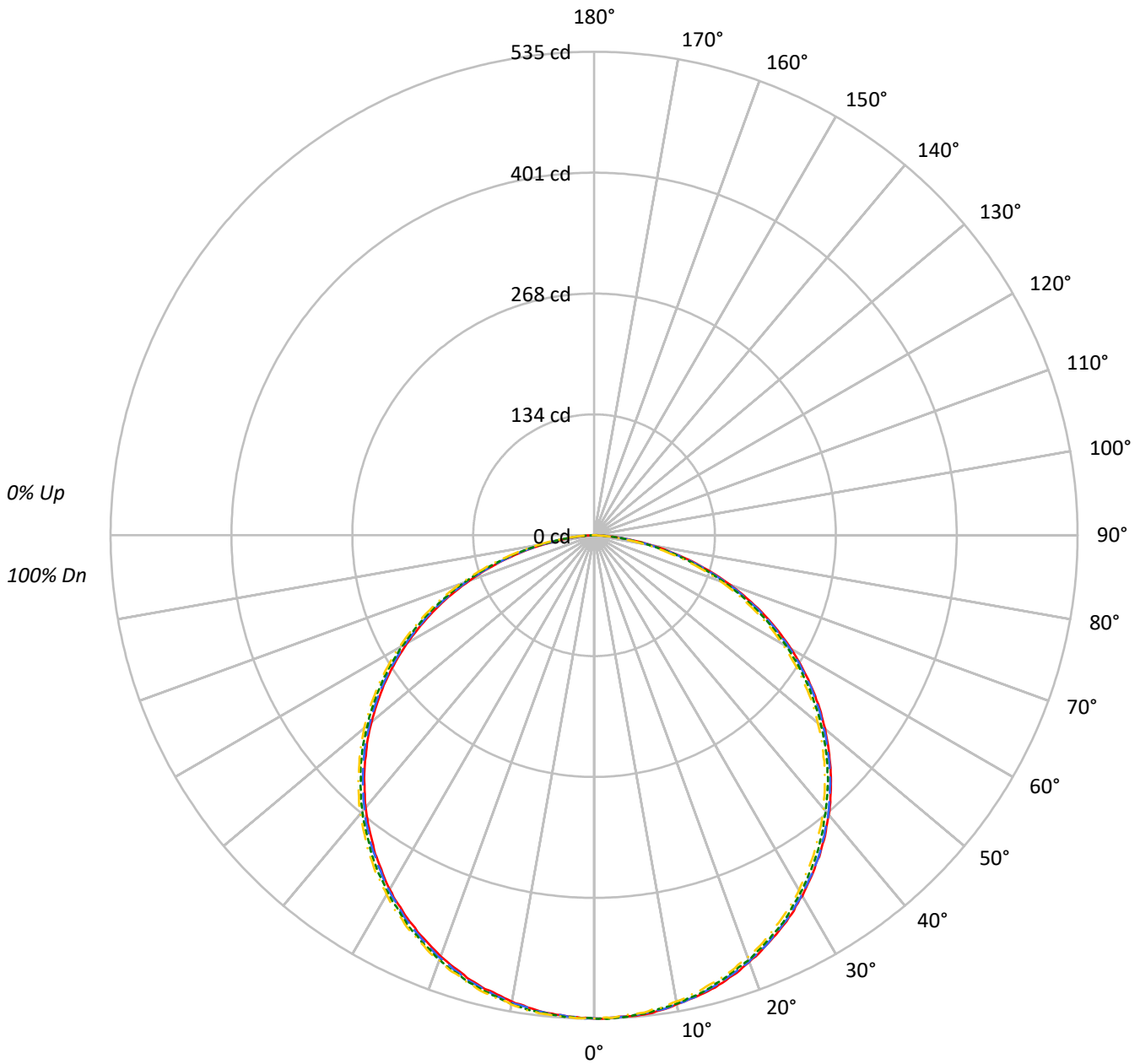
Lumens per Lamp: N/A
 Luminaire Lumens: 1561.3 lumens
 Efficiency: N/A
 Efficacy: 93.5 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2558	2558	2558	2558
5°	2563	2558	2551	2557
10°	2561	2558	2544	2559
15°	2566	2548	2536	2550
20°	2557	2548	2525	2545
25°	2552	2538	2510	2536
30°	2547	2523	2500	2522
35°	2536	2511	2479	2509
40°	2524	2491	2457	2492
45°	2506	2470	2427	2471
50°	2484	2442	2392	2437
55°	2453	2408	2349	2401
60°	2410	2353	2283	2342
65°	2349	2274	2189	2266
70°	2239	2153	2049	2143
75°	2074	1969	1835	1944
80°	1818	1667	1493	1636
85°	1394	1175	922	1131

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	3.2
10°-20°	145.4	9.3
20°-30°	221.3	14.2
30°-40°	268.7	17.2
40°-50°	281.4	18.0
50°-60°	257.3	16.5
60°-70°	198.1	12.7
70°-80°	112.0	7.2
80°-90°	26.4	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°	417.4	26.7
0°-40°	686.1	43.9
0°-60°	1224.8	78.5
0°-90°	1561.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1561.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	535	535	535	535	535	
5°	534	533	531	532	534	51
15°	518	514	512	515	518	146
25°	483	481	476	480	483	223
35°	434	430	424	430	434	271
45°	370	365	359	365	370	286
55°	294	289	282	288	294	263
65°	208	201	193	200	208	205
75°	112	106	99	105	112	119
85°	25	21	17	21	25	31
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°	534.8	534.8	534.8	534.8	534.8	534.8	534.8	534.8	534.8	534.8	534.8
0.5°	534.7	534.6	534.9	534.4	535.0	535.4	534.4	534.8	534.4	534.7	534.2
1°	535.2	534.2	534.9	534.8	534.7	534.9	534.1	534.4	534.1	534.5	534.8
1.5°	534.7	534.7	534.4	534.8	535.4	534.8	533.7	534.3	534.3	534.1	534.7
2°	534.3	534.0	534.2	534.7	535.2	534.6	534.4	533.7	533.6	533.6	533.6
2.5°	534.3	534.5	534.1	534.7	534.7	534.6	533.8	533.6	533.4	533.4	533.5
3°	533.5	534.6	533.9	534.1	534.2	534.1	533.1	534.0	533.3	532.9	533.6
3.5°	533.8	534.7	533.7	534.1	534.3	533.6	533.1	533.6	532.7	532.8	532.8
4°	533.7	534.1	533.6	534.2	534.0	533.3	532.0	533.1	532.2	533.0	532.2
4.5°	533.6	534.1	532.9	534.0	533.4	533.2	532.0	532.0	532.2	532.4	532.1
5°	533.8	533.6	532.9	533.2	532.6	533.0	531.6	531.8	531.3	531.1	532.5
5.5°	533.5	533.2	532.4	532.3	532.2	532.3	531.3	531.0	531.2	530.5	531.8
6°	533.2	533.2	532.0	532.4	532.2	531.2	531.0	530.8	530.7	530.0	530.8
6.5°	532.7	533.0	531.6	531.4	531.6	531.3	530.1	530.0	530.0	529.6	530.4
7°	532.4	532.5	531.1	531.2	531.0	530.6	528.7	529.0	529.3	528.7	530.3
7.5°	531.4	531.3	530.4	530.2	529.6	530.2	528.6	528.5	528.2	528.1	529.3
8°	530.8	530.2	530.0	530.0	528.8	529.5	528.2	527.6	527.7	527.4	527.7
8.5°	530.2	529.5	529.8	528.7	528.4	528.8	527.3	527.0	526.1	526.9	527.2
9°	529.5	528.6	528.9	528.4	527.7	528.1	526.0	526.4	525.4	525.8	526.4
9.5°	528.2	528.3	527.7	527.2	527.2	527.4	524.6	525.0	525.3	525.1	526.1
10°	527.1	527.1	526.7	526.8	526.5	526.4	524.0	524.0	523.8	524.7	525.2
10.5°	526.4	526.4	526.4	525.4	525.5	524.9	523.3	523.0	522.7	523.5	524.1
11°	525.5	525.5	525.5	525.0	524.4	524.1	522.2	522.7	521.7	521.9	522.9
11.5°	524.3	525.0	524.2	523.5	522.7	523.4	521.2	521.3	520.0	521.3	521.9
12°	523.9	523.6	523.5	522.4	522.2	522.5	519.7	520.9	519.3	519.8	521.3
12.5°	523.0	522.5	523.1	521.5	521.5	521.5	518.5	519.8	517.9	518.8	520.0
13°	522.0	522.3	521.7	520.3	520.3	520.2	517.7	518.2	516.9	517.9	518.3
13.5°	521.0	521.3	520.0	519.3	519.2	518.8	516.3	517.3	516.4	516.9	516.8
14°	520.0	520.2	518.8	518.6	518.0	516.6	514.4	515.8	515.1	515.9	516.1
14.5°	518.8	518.6	517.4	516.8	516.6	515.8	513.1	514.2	513.5	514.3	514.8
15°	518.0	517.1	516.3	516.1	514.5	514.9	512.2	512.9	512.0	512.3	513.9
15.5°	516.3	516.0	515.1	514.4	513.4	513.3	511.2	511.4	510.9	510.9	512.6
16°	515.3	514.5	513.5	513.3	512.5	512.2	509.7	509.9	509.6	510.0	511.2
16.5°	513.7	513.1	512.1	511.5	510.7	510.8	508.2	508.6	507.3	508.6	509.6
17°	511.7	511.4	510.6	510.7	509.2	509.3	506.7	507.4	505.6	506.6	507.5
17.5°	510.7	510.1	509.3	508.4	507.3	507.7	505.4	505.9	504.1	504.8	506.1
18°	509.6	508.8	507.8	506.9	506.2	505.9	504.0	503.9	502.5	503.2	504.7
18.5°	507.8	507.3	506.3	505.3	504.2	504.4	501.5	501.8	501.2	501.6	502.4
19°	505.6	506.0	504.7	503.7	503.2	502.6	500.0	500.2	499.2	500.0	500.3
19.5°	503.9	504.6	503.5	502.0	501.4	501.1	498.5	498.3	497.7	498.3	499.0
20°	502.3	502.4	501.9	500.8	500.5	499.5	496.8	496.5	495.9	496.4	497.8
20.5°	500.5	500.4	499.5	498.7	498.5	497.6	495.2	494.8	493.6	494.6	496.5
21°	499.3	498.5	497.9	497.1	496.4	495.7	493.5	492.8	491.8	493.3	494.2
21.5°	497.5	497.1	496.4	495.9	494.5	493.8	491.5	490.7	489.9	491.6	492.0
22°	495.1	495.0	494.6	494.1	492.7	491.5	490.0	489.8	487.9	489.1	490.3

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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°	493.0	493.0	493.1	491.8	490.5	489.4	488.0	487.5	485.9	487.0	488.0
23°	491.3	491.1	491.0	489.6	488.5	488.1	485.7	485.8	484.0	485.3	486.3
23.5°	489.3	489.5	488.6	487.6	486.8	486.1	483.5	483.9	482.3	483.7	484.2
24°	487.4	487.7	486.5	486.1	484.5	483.9	481.6	481.3	480.3	481.1	482.2
24.5°	485.6	485.4	484.4	483.7	482.5	481.8	478.7	478.7	477.5	478.4	479.9
25°	483.4	482.9	482.5	481.5	480.9	479.6	476.6	477.1	475.5	476.3	477.5
25.5°	481.2	480.9	480.2	479.1	478.6	477.5	474.9	475.3	473.8	474.3	475.4
26°	479.3	479.0	478.1	477.1	476.9	475.4	472.6	472.9	471.5	472.4	473.9
26.5°	477.3	477.1	476.3	474.8	474.1	472.7	470.2	470.7	469.4	469.8	471.3
27°	474.9	474.8	474.2	472.7	472.1	470.2	468.2	468.3	466.6	467.2	468.6
27.5°	472.9	473.0	471.4	470.7	469.5	467.7	466.0	465.9	464.0	465.1	466.1
28°	470.8	469.9	469.1	468.6	466.4	465.4	463.6	463.0	462.2	463.5	463.9
28.5°	467.4	467.5	466.7	466.2	463.7	462.7	461.1	460.7	459.9	461.0	461.1
29°	465.4	465.4	464.2	463.6	461.7	460.9	458.7	458.3	457.7	458.6	458.9
29.5°	462.5	463.4	462.2	461.2	459.2	458.6	456.3	455.7	454.7	455.9	456.5
30°	461.1	460.8	459.4	458.3	456.8	455.4	453.5	453.0	452.5	453.0	453.9
30.5°	458.2	457.9	456.8	455.5	454.6	452.8	450.5	450.5	450.0	450.2	450.9
31°	455.2	455.0	454.3	453.1	451.7	450.0	447.9	447.5	447.3	447.7	448.7
31.5°	452.7	452.1	452.0	450.4	449.0	447.3	444.9	444.5	444.3	444.6	445.8
32°	450.1	449.9	448.9	448.1	446.2	445.2	442.2	442.2	441.5	441.9	443.1
32.5°	447.5	447.3	446.8	445.1	443.3	442.9	439.6	439.0	438.3	439.4	440.1
33°	445.0	444.8	444.4	442.7	441.0	440.0	437.1	436.3	435.6	436.6	437.7
33.5°	442.1	442.0	441.6	439.6	438.0	437.2	434.1	434.2	432.9	433.7	434.4
34°	439.0	439.7	438.7	437.0	435.8	434.1	431.6	431.6	430.0	431.0	431.7
34.5°	436.1	437.0	436.1	433.8	432.9	431.4	429.1	428.4	427.6	427.9	429.0
35°	434.3	434.0	433.4	430.8	430.0	428.6	425.8	425.3	424.5	425.2	426.4
35.5°	431.4	431.1	430.5	428.6	427.0	425.3	422.5	422.0	420.9	422.7	423.3
36°	428.0	428.0	427.6	425.7	424.1	421.8	419.7	419.8	418.0	419.7	420.8
36.5°	425.0	425.2	423.9	423.0	420.7	418.9	416.4	416.4	414.9	416.4	417.2
37°	422.6	422.5	421.1	419.6	417.6	416.0	413.3	413.7	411.8	412.9	413.9
37.5°	419.7	419.0	418.5	416.4	414.9	412.7	410.6	410.1	408.8	409.8	411.1
38°	416.5	416.1	415.2	413.9	411.7	409.7	407.9	406.5	406.0	407.2	408.3
38.5°	412.8	413.2	412.0	410.2	408.1	406.6	404.7	403.5	402.7	404.4	405.4
39°	410.0	409.7	409.4	407.2	404.8	403.9	401.2	400.6	399.5	401.3	402.1
39.5°	406.7	406.5	406.3	403.7	401.9	400.7	398.1	397.2	396.6	397.4	398.5
40°	404.1	403.2	403.2	400.5	398.8	397.2	395.1	394.1	393.4	394.2	395.1
40.5°	401.1	400.4	399.9	397.2	395.3	393.8	391.4	391.1	389.9	390.8	392.0
41°	397.7	397.2	396.3	394.6	392.2	390.4	387.8	387.5	386.8	387.0	388.7
41.5°	394.5	394.0	392.9	391.4	388.9	387.5	384.6	383.8	382.7	383.9	385.3
42°	391.0	390.3	389.7	387.9	385.7	383.7	381.3	380.7	379.4	380.6	381.9
42.5°	387.6	387.4	386.0	384.9	382.4	380.4	377.8	377.1	375.9	377.5	379.0
43°	384.3	384.4	382.5	381.0	379.0	377.6	374.3	373.9	372.7	373.7	375.1
43.5°	380.7	380.9	379.7	377.4	376.0	374.1	371.1	370.0	369.5	370.6	371.8
44°	377.4	377.1	376.2	373.9	372.4	370.1	367.6	366.6	366.1	367.2	368.2
44.5°	374.0	373.8	372.5	370.4	368.2	366.5	364.3	363.1	362.4	364.0	364.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	370.4	369.8	368.9	367.0	365.1	363.0	360.6	359.8	358.8	359.9	361.3
45.5°	367.1	366.6	365.2	364.0	361.8	359.9	357.3	356.1	355.0	356.6	357.7
46°	363.3	363.4	361.7	360.1	358.3	356.3	352.9	352.3	351.1	352.9	354.4
46.5°	359.4	359.2	358.2	356.1	354.7	352.7	349.6	348.6	347.5	349.4	350.7
47°	355.9	355.6	354.3	352.7	351.2	349.0	345.7	345.0	344.0	345.6	347.2
47.5°	352.4	351.9	350.4	348.7	347.3	345.1	342.0	341.3	340.6	341.5	343.2
48°	348.8	348.6	346.6	345.3	343.3	341.5	338.7	337.8	336.7	337.8	339.2
48.5°	344.7	344.7	343.2	341.5	339.3	337.6	334.8	334.2	333.1	333.9	335.9
49°	341.0	341.1	339.6	337.8	335.7	333.6	331.2	330.4	329.2	330.3	331.7
49.5°	337.3	337.5	335.8	334.0	331.7	329.6	327.1	326.4	325.3	326.7	327.5
50°	333.8	333.6	331.6	330.0	328.1	326.1	323.1	322.8	321.4	323.0	324.0
50.5°	329.6	329.6	327.9	326.0	324.6	322.7	319.5	318.9	317.4	318.8	320.3
51°	325.6	325.6	323.9	322.3	320.8	318.4	315.3	314.7	313.5	314.5	316.3
51.5°	321.9	321.8	320.3	318.4	317.1	314.3	311.9	310.6	309.5	310.8	312.3
52°	318.4	317.6	316.5	314.5	312.6	310.9	308.1	307.0	305.5	306.9	308.3
52.5°	314.4	313.8	312.5	310.6	308.3	306.7	304.2	303.1	301.7	302.6	304.2
53°	310.4	310.1	308.4	306.5	304.4	302.2	300.0	298.9	297.5	299.2	300.4
53.5°	306.1	305.9	304.5	302.9	300.6	298.2	296.1	294.4	293.7	295.2	296.3
54°	302.4	302.2	300.8	298.5	296.4	294.6	291.7	290.5	289.4	290.7	292.5
54.5°	298.6	298.1	296.7	294.3	292.8	290.7	287.1	286.2	285.7	286.4	288.3
55°	294.1	293.9	292.9	290.1	288.7	286.5	283.1	282.5	281.6	282.4	283.9
55.5°	289.8	289.5	288.4	286.3	284.4	282.0	279.2	278.0	277.3	278.2	279.5
56°	286.1	285.4	283.9	282.1	279.9	277.7	275.2	273.9	273.2	274.1	275.8
56.5°	281.8	281.5	280.1	277.7	275.8	273.4	270.8	270.1	268.9	270.2	271.6
57°	277.4	277.4	275.6	273.4	271.7	269.4	266.6	265.8	264.4	266.0	267.6
57.5°	273.3	273.1	271.6	269.2	267.6	265.3	262.1	261.0	260.3	261.5	263.2
58°	269.2	268.5	267.4	264.8	263.3	260.8	257.7	256.8	256.0	257.0	258.6
58.5°	264.7	264.1	262.8	260.5	258.7	256.2	253.4	252.6	251.8	252.6	254.3
59°	260.5	260.2	258.4	256.3	254.6	252.1	249.4	248.2	247.2	248.4	249.8
59.5°	256.4	255.7	254.3	252.4	250.4	247.8	244.9	244.0	242.9	244.3	245.4
60°	251.9	251.4	249.7	248.0	245.9	243.4	240.9	239.7	238.6	240.0	241.5
60.5°	247.6	246.8	245.3	243.6	241.0	239.2	236.4	235.3	234.2	235.2	237.1
61°	243.2	242.3	240.8	238.9	236.8	234.7	232.1	230.6	229.9	231.0	232.7
61.5°	238.4	237.8	236.4	234.4	232.4	230.2	227.8	226.0	225.1	226.4	228.2
62°	234.3	233.4	232.0	229.8	228.0	225.7	223.3	221.8	220.7	222.0	223.7
62.5°	229.7	229.0	227.5	225.5	223.3	221.4	218.6	217.2	216.1	217.5	219.0
63°	225.4	224.5	223.0	221.0	219.0	216.8	214.0	212.9	211.7	212.9	214.3
63.5°	221.2	219.8	218.5	216.2	214.7	212.3	209.6	208.2	207.4	208.2	210.1
64°	216.3	215.6	214.0	211.9	210.4	207.7	204.8	203.6	202.8	203.8	205.7
64.5°	211.9	211.1	209.5	207.1	205.4	203.3	200.0	199.0	198.0	199.0	201.0
65°	207.5	206.7	205.0	202.5	200.9	198.6	195.5	194.4	193.4	194.5	196.3
65.5°	202.9	202.0	200.5	197.7	196.4	193.9	190.8	189.9	189.0	190.0	191.7
66°	197.8	197.4	195.5	193.1	191.7	189.2	186.2	185.0	184.4	185.3	187.1
66.5°	193.0	192.6	190.8	188.6	187.0	184.7	181.5	180.5	179.8	180.6	182.3
67°	188.6	187.7	186.1	183.9	182.5	180.0	177.2	175.7	175.2	175.9	177.7

TEST NUMBER: P869744
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	183.8	183.0	181.4	179.0	177.8	175.3	172.5	170.9	170.5	171.1	172.8
68°	179.1	178.4	176.6	174.2	173.1	170.6	167.8	166.5	165.7	166.7	168.3
68.5°	174.3	173.7	172.1	169.8	168.3	165.9	163.0	161.9	160.9	161.8	163.8
69°	169.7	169.2	167.4	165.2	163.9	161.0	158.1	156.9	156.1	157.0	159.0
69.5°	165.1	164.5	162.6	160.0	158.9	156.1	153.4	152.0	151.3	152.1	154.4
70°	160.1	159.7	157.7	155.3	153.9	151.5	148.6	147.4	146.5	147.4	149.3
70.5°	155.3	154.9	152.9	150.6	149.4	146.9	144.1	142.8	142.0	142.9	144.7
71°	150.6	150.1	148.4	146.0	144.7	142.2	139.3	138.1	137.3	138.1	139.9
71.5°	145.9	145.5	143.5	140.9	139.8	137.4	134.5	133.1	132.5	133.4	135.1
72°	141.2	140.5	138.6	136.2	135.1	132.5	129.7	128.3	127.9	128.6	130.5
72.5°	136.5	135.5	133.7	131.5	130.3	127.8	125.0	123.8	123.0	123.9	125.7
73°	131.6	130.7	128.9	126.6	125.6	123.2	120.4	118.9	118.1	119.2	121.0
73.5°	126.7	125.9	124.3	121.8	120.7	118.2	115.6	114.1	113.4	114.7	116.2
74°	121.9	121.1	119.2	117.1	115.9	113.5	111.0	109.4	108.7	109.8	111.4
74.5°	117.1	116.3	114.6	112.0	111.3	108.8	106.2	104.8	104.1	105.1	106.6
75°	112.2	111.4	109.8	107.2	106.5	103.9	101.4	100.1	99.3	100.4	102.0
75.5°	107.5	106.9	105.1	102.6	101.7	99.3	96.9	95.2	94.7	95.9	97.4
76°	102.9	102.2	100.4	97.9	97.0	94.5	92.1	90.6	90.1	91.1	92.7
76.5°	98.1	97.4	95.7	93.2	92.4	89.9	87.4	86.1	85.4	86.4	87.9
77°	93.6	92.6	91.0	88.5	87.7	85.2	82.9	81.4	80.8	81.7	83.2
77.5°	88.9	87.9	86.5	83.9	83.0	80.5	78.3	76.8	76.2	77.2	78.8
78°	84.2	83.2	81.8	79.4	78.4	76.0	73.9	72.2	71.7	72.6	74.2
78.5°	79.5	78.7	77.2	74.8	74.0	71.5	69.2	67.8	67.2	68.1	69.6
79°	75.1	74.1	72.6	70.2	69.3	66.8	64.6	63.3	62.7	63.6	65.1
79.5°	70.5	69.7	68.1	65.7	64.9	62.5	60.3	59.1	58.4	59.4	60.8
80°	66.0	65.0	63.6	61.3	60.5	58.3	56.1	54.8	54.2	55.2	56.6
80.5°	61.6	60.7	59.4	57.0	56.3	54.0	51.9	50.6	49.9	51.0	52.5
81°	57.2	56.3	55.2	52.8	52.1	49.8	47.6	46.4	45.8	46.8	48.3
81.5°	52.9	52.2	50.8	48.6	47.8	45.6	43.5	42.3	41.9	42.6	44.1
82°	48.7	48.0	46.4	44.3	43.7	41.5	39.5	38.2	37.8	38.6	40.0
82.5°	44.4	43.9	42.2	40.1	39.7	37.5	35.7	34.4	33.9	34.7	36.1
83°	40.3	39.5	38.2	36.2	35.8	33.8	31.9	30.7	30.3	31.1	32.5
83.5°	36.4	35.6	34.3	32.5	32.0	30.0	28.1	27.1	26.7	27.4	28.6
84°	32.6	31.9	30.5	28.9	28.4	26.4	24.6	23.5	23.1	23.9	25.1
84.5°	29.0	28.3	27.1	25.3	24.8	23.0	21.3	20.2	19.9	20.6	21.7
85°	25.4	24.7	23.6	21.9	21.4	19.7	18.1	17.0	16.8	17.4	18.5
85.5°	21.9	21.3	20.3	18.7	18.2	16.5	14.9	14.2	14.0	14.5	15.5
86°	18.8	18.2	17.2	15.8	15.2	13.6	12.3	11.5	11.3	11.8	12.8
86.5°	15.8	15.4	14.5	13.1	12.5	11.2	10.0	9.3	9.1	9.8	10.4
87°	13.2	12.8	11.9	10.6	10.2	9.0	7.9	7.3	7.1	7.6	8.4
87.5°	10.7	10.3	9.5	8.4	8.0	6.9	5.9	5.3	5.3	5.7	6.4
88°	8.4	8.1	7.4	6.3	6.0	5.0	4.1	3.7	3.6	4.0	4.6
88.5°	6.3	5.9	5.4	4.5	4.4	3.4	2.7	2.2	2.1	2.5	3.0
89°	4.5	4.3	3.8	3.1	3.1	2.1	1.4	1.1	1.0	1.2	1.7
89.5°	3.1	2.9	2.5	1.9	1.7	1.0	0.5	1.0	0.8	1.1	0.6

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



TEST NUMBER: P869744
CATALOG NUMBER: SMX18SLSFSD2W-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: P869744
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	534.8	534.8	534.8	534.8	534.8	534.8
0.5°	535.3	534.2	535.5	534.5	534.4	534.7
1°	534.8	534.1	535.8	534.7	534.3	535.2
1.5°	534.6	534.7	535.3	534.7	534.5	534.7
2°	534.3	534.6	534.7	534.7	535.3	534.3
2.5°	534.0	533.7	535.3	534.3	534.3	534.3
3°	534.5	533.4	535.3	533.9	534.8	533.5
3.5°	534.1	533.9	534.6	533.6	534.4	533.8
4°	533.9	533.4	534.6	533.8	533.7	533.7
4.5°	533.8	532.9	534.2	533.5	533.6	533.6
5°	533.5	532.5	534.3	533.1	533.3	533.8
5.5°	532.2	532.0	534.1	532.9	533.6	533.5
6°	531.6	531.8	534.2	532.7	532.7	533.2
6.5°	531.0	531.9	533.5	532.6	532.5	532.7
7°	530.7	530.7	533.0	531.7	532.3	532.4
7.5°	530.1	530.6	532.3	531.4	532.2	531.4
8°	529.3	530.0	531.0	531.0	531.4	530.8
8.5°	528.4	528.9	530.3	530.1	530.0	530.2
9°	527.7	528.3	530.1	528.9	529.9	529.5
9.5°	526.4	527.6	529.2	528.2	528.8	528.2
10°	525.7	526.8	528.0	527.2	527.7	527.1
10.5°	524.5	525.7	527.1	525.5	527.5	526.4
11°	523.7	524.5	526.0	524.7	526.1	525.5
11.5°	522.3	523.2	524.9	524.1	524.8	524.3
12°	521.2	521.7	524.3	523.4	524.0	523.9
12.5°	520.2	521.0	522.6	521.9	523.1	523.0
13°	519.4	519.6	521.2	521.3	521.9	522.0
13.5°	518.1	518.8	520.3	520.4	520.8	521.0
14°	517.2	517.5	519.7	519.4	519.2	520.0
14.5°	516.3	516.5	517.8	518.0	518.4	518.8
15°	514.9	514.9	516.3	516.2	517.8	518.0
15.5°	512.6	514.0	515.3	514.5	516.8	516.3
16°	511.2	512.8	513.9	513.7	515.1	515.3
16.5°	509.8	511.0	512.6	512.3	514.1	513.7
17°	508.7	508.9	511.1	510.3	512.6	511.7
17.5°	507.1	507.8	510.3	508.7	511.1	510.7
18°	505.3	506.7	508.7	508.1	509.6	509.6
18.5°	503.8	505.3	506.6	506.7	507.5	507.8
19°	502.0	503.3	504.5	504.5	505.5	505.6
19.5°	500.0	501.7	502.8	502.5	504.0	503.9
20°	498.5	500.0	501.4	500.8	502.2	502.3
20.5°	497.5	498.5	499.1	499.3	500.7	500.5
21°	495.8	496.3	497.5	498.1	499.1	499.3
21.5°	493.7	493.8	495.7	496.5	497.7	497.5
22°	491.6	491.8	493.7	494.3	496.1	495.1

TEST NUMBER: P869744

CATALOG NUMBER: SMX18SLSFSD2W-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	489.0	490.6	491.8	492.0	493.6	493.0
23°	487.3	488.7	490.3	490.2	491.3	491.3
23.5°	485.1	486.2	488.0	488.8	489.4	489.3
24°	483.2	484.1	486.5	486.1	487.4	487.4
24.5°	481.7	482.6	484.3	484.2	485.4	485.6
25°	479.5	480.4	482.0	482.7	483.9	483.4
25.5°	477.1	478.7	479.6	480.6	482.2	481.2
26°	475.0	475.6	477.5	478.2	479.5	479.3
26.5°	472.7	473.3	475.7	475.4	476.9	477.3
27°	470.1	470.9	473.8	473.4	474.9	474.9
27.5°	467.5	468.1	471.1	471.5	473.5	472.9
28°	465.2	465.7	468.4	469.7	471.0	470.8
28.5°	462.5	464.0	465.9	467.0	468.4	467.4
29°	460.6	461.7	464.1	464.6	465.3	465.4
29.5°	458.2	459.0	461.5	462.0	463.5	462.5
30°	456.2	456.5	458.7	459.1	461.3	461.1
30.5°	452.8	454.6	455.7	456.1	458.5	458.2
31°	450.1	450.9	453.4	454.0	455.7	455.2
31.5°	447.4	448.5	451.2	451.0	453.5	452.7
32°	445.3	446.0	448.7	448.5	451.2	450.1
32.5°	443.0	443.7	445.8	446.1	448.9	447.5
33°	440.0	440.9	443.3	444.1	445.8	445.0
33.5°	436.4	438.0	440.4	441.2	443.2	442.1
34°	433.9	435.2	437.4	437.9	440.1	439.0
34.5°	430.7	432.5	434.6	435.2	437.3	436.1
35°	428.0	429.6	431.8	432.6	434.6	434.3
35.5°	425.5	426.3	429.2	429.9	431.4	431.4
36°	422.6	423.0	426.0	426.9	428.3	428.0
36.5°	419.7	420.0	423.0	423.2	425.4	425.0
37°	416.6	417.0	420.4	420.4	422.3	422.6
37.5°	413.1	414.4	417.3	417.2	419.8	419.7
38°	409.8	411.2	414.3	414.4	416.9	416.5
38.5°	406.7	408.2	410.9	411.5	413.9	412.8
39°	403.5	405.4	408.0	408.4	410.0	410.0
39.5°	400.5	402.5	404.8	404.9	407.0	406.7
40°	397.1	399.0	401.7	402.4	403.6	404.1
40.5°	394.4	395.6	398.3	399.3	400.6	401.1
41°	391.4	392.6	395.0	396.0	397.1	397.7
41.5°	387.7	389.5	391.7	392.6	394.0	394.5
42°	384.4	385.9	388.6	389.0	391.2	391.0
42.5°	380.5	382.0	385.1	385.5	387.9	387.6
43°	377.0	379.0	381.2	382.4	384.6	384.3
43.5°	373.4	375.2	377.4	379.2	380.9	380.7
44°	370.2	371.4	373.9	375.5	377.5	377.4
44.5°	366.6	368.5	371.1	371.4	374.0	374.0

TEST NUMBER: P869744
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	363.1	365.3	367.8	367.9	370.1	370.4
45.5°	359.3	361.8	364.1	364.5	366.4	367.1
46°	355.8	358.1	360.6	361.1	363.0	363.3
46.5°	352.2	354.3	357.0	358.1	359.4	359.4
47°	348.5	350.7	353.4	354.3	355.8	355.9
47.5°	344.7	347.2	349.7	350.5	352.0	352.4
48°	341.1	343.3	346.0	346.8	348.5	348.8
48.5°	337.4	339.2	342.1	343.1	344.9	344.7
49°	333.5	335.4	338.1	339.3	341.1	341.0
49.5°	329.8	331.7	334.1	335.6	337.4	337.3
50°	325.9	327.4	330.1	332.1	333.5	333.8
50.5°	321.9	323.7	326.2	328.2	329.4	329.6
51°	318.3	320.2	322.7	324.0	325.7	325.6
51.5°	314.4	316.0	319.0	319.9	322.1	321.9
52°	310.6	311.9	315.2	315.9	318.4	318.4
52.5°	306.4	308.2	311.3	312.5	314.3	314.4
53°	302.4	304.3	307.3	308.7	310.7	310.4
53.5°	298.7	300.4	303.1	304.0	306.5	306.1
54°	294.4	296.2	299.2	300.0	302.4	302.4
54.5°	290.4	291.9	295.1	296.3	298.0	298.6
55°	286.3	287.9	290.8	292.1	294.2	294.1
55.5°	282.3	283.7	286.6	288.2	290.3	289.8
56°	278.2	279.6	282.6	284.0	286.1	286.1
56.5°	273.9	275.3	278.4	279.6	282.0	281.8
57°	269.4	271.0	274.1	275.4	277.7	277.4
57.5°	265.0	266.6	269.8	270.6	273.2	273.3
58°	261.0	262.4	265.3	266.8	269.2	269.2
58.5°	256.9	258.0	260.8	262.8	264.7	264.7
59°	252.7	253.8	256.5	258.6	260.5	260.5
59.5°	248.0	249.5	252.0	254.2	256.2	256.4
60°	244.0	244.8	248.0	249.6	251.9	251.9
60.5°	239.0	240.4	243.3	245.2	247.6	247.6
61°	234.6	235.9	239.0	240.7	243.0	243.2
61.5°	230.3	231.8	234.9	236.2	238.4	238.4
62°	225.8	227.4	230.5	231.7	234.0	234.3
62.5°	221.4	222.9	226.1	227.4	229.6	229.7
63°	216.8	218.1	221.4	222.7	225.3	225.4
63.5°	212.4	213.6	217.0	218.3	220.6	221.2
64°	207.8	209.3	212.4	213.7	215.6	216.3
64.5°	203.3	204.9	208.0	209.4	211.1	211.9
65°	198.7	200.2	203.0	204.9	206.6	207.5
65.5°	194.3	195.6	198.5	200.1	202.1	202.9
66°	189.6	190.6	193.8	195.5	197.4	197.8
66.5°	184.9	186.2	189.2	191.1	192.8	193.0
67°	180.1	181.6	184.5	186.5	188.4	188.6

TEST NUMBER: P869744
 CATALOG NUMBER: SMX18SLSFSD2W-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	175.5	176.7	179.5	181.4	183.7	183.8
68°	170.7	171.9	174.9	176.9	179.0	179.1
68.5°	166.2	167.3	170.3	172.2	174.0	174.3
69°	161.8	162.8	165.3	167.3	169.3	169.7
69.5°	156.9	158.1	160.6	162.6	164.6	165.1
70°	152.1	153.2	155.8	158.1	159.8	160.1
70.5°	147.3	148.2	151.2	153.2	155.2	155.3
71°	142.5	143.5	146.4	148.3	150.4	150.6
71.5°	137.6	138.8	141.5	143.7	145.7	145.9
72°	132.8	134.1	136.9	138.9	140.7	141.2
72.5°	128.3	129.1	132.1	133.9	135.8	136.5
73°	123.5	124.2	127.2	129.1	131.0	131.6
73.5°	118.8	119.6	122.7	124.4	126.3	126.7
74°	114.1	114.7	117.7	119.5	121.5	121.9
74.5°	109.4	110.0	112.9	114.9	116.6	117.1
75°	104.5	105.2	108.0	110.1	111.7	112.2
75.5°	99.9	100.5	103.4	105.3	107.0	107.5
76°	95.2	95.8	98.6	100.5	102.3	102.9
76.5°	90.4	91.2	93.9	95.9	97.5	98.1
77°	85.7	86.4	89.2	91.1	92.9	93.6
77.5°	81.1	81.9	84.6	86.7	88.4	88.9
78°	76.5	77.3	80.0	82.0	83.7	84.2
78.5°	72.0	72.8	75.6	77.6	79.2	79.5
79°	67.6	68.3	71.0	72.9	74.5	75.1
79.5°	63.0	63.9	66.4	68.4	70.0	70.5
80°	58.7	59.4	61.9	63.8	65.6	66.0
80.5°	54.6	55.2	57.8	59.5	61.2	61.6
81°	50.4	51.0	53.5	55.3	56.8	57.2
81.5°	46.3	46.7	49.2	51.0	52.5	52.9
82°	42.1	42.5	45.0	46.8	48.3	48.7
82.5°	38.2	38.6	40.9	42.6	44.1	44.4
83°	34.5	34.7	36.8	38.5	40.0	40.3
83.5°	30.6	30.9	32.9	34.6	36.1	36.4
84°	27.0	27.3	29.3	30.8	32.2	32.6
84.5°	23.5	23.8	25.7	27.3	28.6	29.0
85°	20.2	20.6	22.4	23.9	25.0	25.4
85.5°	17.0	17.4	19.2	20.6	21.7	21.9
86°	14.2	14.7	16.1	17.5	18.6	18.8
86.5°	11.6	12.1	13.5	14.7	15.6	15.8
87°	9.5	9.7	11.0	12.0	12.9	13.2
87.5°	7.4	7.6	8.8	9.7	10.4	10.7
88°	5.6	5.5	6.5	7.6	8.2	8.4
88.5°	3.8	3.7	4.5	5.4	6.1	6.3
89°	2.4	2.5	3.1	3.7	4.2	4.5
89.5°	1.1	1.4	1.9	2.3	2.9	3.1

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



TEST NUMBER: P869744
CATALOG NUMBER: SMX18SLSFSD2W-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)