

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: P869711

Luminaire Tested: **SMX18RLSFSD2W-1500LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869711
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFSD2W-1500LM-2700K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

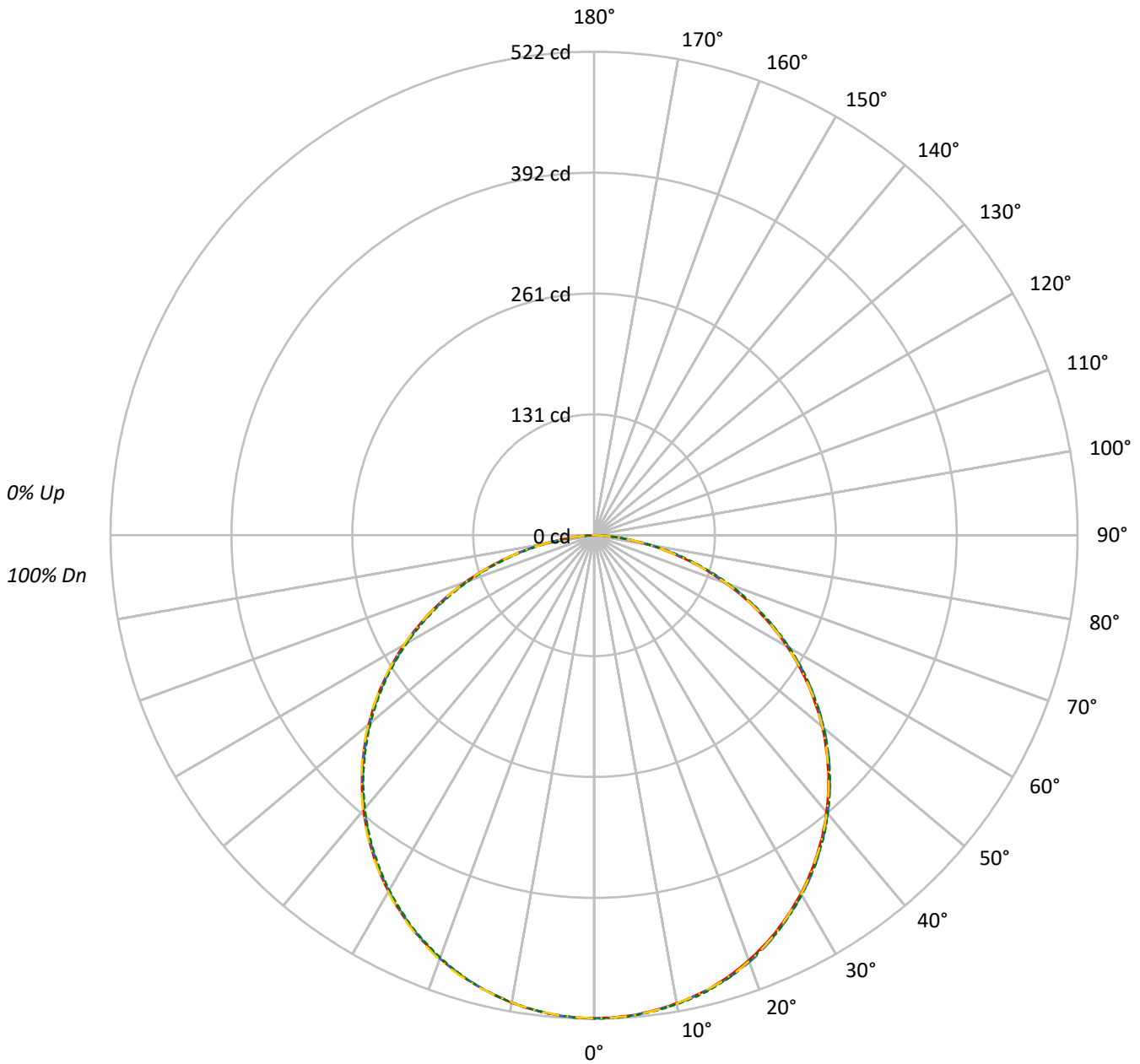
Lumens per Lamp: N/A
 Luminaire Lumens: 1522.7 lumens
 Efficiency: N/A
 Efficacy: 90.6 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 16.8
 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3178	3178	3178	3178
5°	3177	3179	3174	3175
10°	3174	3181	3170	3167
15°	3172	3181	3161	3161
20°	3165	3173	3152	3145
25°	3155	3164	3139	3133
30°	3140	3153	3123	3111
35°	3123	3139	3104	3088
40°	3101	3121	3080	3060
45°	3078	3099	3049	3027
50°	3045	3067	3012	2983
55°	2996	3028	2960	2926
60°	2932	2970	2891	2845
65°	2838	2888	2789	2733
70°	2693	2762	2632	2557
75°	2466	2563	2391	2292
80°	2105	2241	1999	1863
85°	1517	1733	1349	1174

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	3.2
10°-20°	141.9	9.3
20°-30°	216.0	14.2
30°-40°	262.3	17.2
40°-50°	274.6	18.0
50°-60°	250.8	16.5
60°-70°	192.9	12.7
70°-80°	109.1	7.2
80°-90°	25.7	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°	407.3	26.7
0°-40°	669.6	44.0
0°-60°	1194.9	78.5
0°-90°	1522.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1522.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	522	522	522	522	522	
5°	520	520	519	519	520	49
15°	503	504	501	501	503	142
25°	469	471	467	466	469	216
35°	420	422	417	415	420	263
45°	357	360	354	351	357	276
55°	282	285	279	276	282	252
65°	197	200	194	190	197	195
75°	105	109	102	97	105	111
85°	22	25	19	17	22	27
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°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7
0.5°	521.2	521.6	521.5	521.6	521.9	522.3	521.6	521.8	521.1	521.5	521.7
1°	521.2	521.7	521.5	521.8	522.0	522.1	521.2	521.5	521.2	521.4	521.5
1.5°	521.2	521.9	521.4	521.4	521.8	521.8	521.5	521.3	521.0	521.4	521.4
2°	521.1	521.6	521.3	521.2	521.6	521.8	521.4	521.2	520.9	521.1	521.0
2.5°	520.7	521.5	521.2	521.2	521.6	521.5	521.1	520.7	520.8	521.1	521.0
3°	520.4	521.2	521.2	520.8	521.2	521.0	520.9	520.5	520.3	521.2	520.5
3.5°	520.2	520.8	521.0	520.8	520.9	520.7	520.8	520.4	520.4	520.8	520.4
4°	520.0	520.6	520.6	520.5	520.9	520.6	520.4	520.2	520.2	520.1	520.1
4.5°	519.8	520.0	520.1	520.4	520.2	520.5	520.2	519.9	519.7	519.8	519.7
5°	519.6	519.5	519.6	519.9	519.9	520.0	519.8	519.2	519.1	519.3	519.4
5.5°	518.9	519.4	519.4	519.7	519.6	519.8	519.5	518.9	518.7	518.7	518.8
6°	518.3	518.9	518.6	519.1	519.2	519.3	518.8	518.6	518.0	518.1	517.7
6.5°	517.8	518.3	518.2	518.5	518.6	518.8	518.1	518.1	517.8	517.4	517.2
7°	517.2	517.6	517.7	517.8	517.9	518.2	517.5	517.2	517.0	517.0	516.8
7.5°	516.6	517.0	517.1	517.4	517.7	517.5	517.2	516.4	516.4	516.4	516.2
8°	515.9	516.4	516.3	516.6	517.0	517.0	516.6	516.1	515.7	515.5	515.5
8.5°	515.3	515.9	515.8	515.9	516.3	516.4	515.6	515.3	515.1	514.9	514.8
9°	514.6	515.2	515.0	515.3	515.5	515.7	514.9	514.6	514.1	514.0	513.9
9.5°	513.7	514.5	514.4	514.7	514.9	515.1	514.3	513.8	513.4	513.1	513.1
10°	513.1	513.7	513.5	513.8	514.3	514.2	513.4	512.7	512.6	512.1	512.0
10.5°	512.5	512.8	512.7	513.3	513.6	513.4	512.3	512.0	511.4	511.2	511.0
11°	511.6	511.9	511.9	512.4	512.7	512.5	511.5	511.1	510.4	510.6	510.0
11.5°	510.5	511.0	511.0	511.6	512.0	511.7	510.7	509.8	509.5	509.7	509.0
12°	509.7	510.2	510.1	510.8	510.9	510.7	509.8	508.9	508.6	508.3	508.0
12.5°	508.6	509.1	508.9	509.7	510.3	509.7	508.9	507.8	507.2	507.2	507.1
13°	507.6	508.3	508.0	509.0	509.3	508.9	507.8	506.6	506.2	506.0	505.9
13.5°	506.5	507.1	507.2	507.8	508.1	507.8	506.7	505.8	505.0	504.7	504.9
14°	505.9	506.0	506.1	507.0	507.0	506.7	505.4	504.7	503.8	503.7	503.8
14.5°	504.6	504.7	505.1	505.9	505.9	505.7	504.5	503.3	502.8	502.2	502.3
15°	503.0	503.5	504.0	504.3	504.5	504.3	503.4	502.1	501.3	501.1	501.1
15.5°	501.7	502.4	502.8	503.3	503.5	503.1	502.1	500.6	500.0	499.8	499.9
16°	500.3	501.5	501.8	502.0	501.9	502.0	501.0	499.2	498.7	498.6	498.6
16.5°	499.2	500.1	500.8	500.6	500.6	500.6	499.4	498.2	497.3	497.2	497.1
17°	497.7	498.6	499.4	499.3	499.3	499.2	498.1	496.8	495.7	495.6	495.4
17.5°	496.1	497.2	498.0	498.0	497.8	497.7	497.0	495.2	494.6	494.0	494.1
18°	494.8	495.7	496.6	496.1	496.2	496.1	495.9	493.7	493.0	492.5	492.7
18.5°	493.1	494.0	495.2	494.7	494.4	494.5	494.1	492.0	491.2	491.0	491.0
19°	491.3	492.6	493.7	493.0	492.9	492.8	492.8	490.6	489.8	489.2	489.6
19.5°	489.9	491.0	491.9	491.3	491.4	491.3	490.8	489.0	488.0	487.4	488.1
20°	488.2	489.5	490.4	489.4	489.5	489.6	489.3	487.2	486.3	485.9	486.3
20.5°	486.5	487.5	488.8	487.8	487.8	487.6	487.4	485.5	484.9	484.1	484.5
21°	484.8	485.6	487.1	486.1	486.2	485.6	486.1	483.7	483.1	482.3	482.8
21.5°	482.7	483.8	485.3	484.5	484.2	484.1	484.1	482.1	481.0	480.4	481.0
22°	480.9	482.0	483.5	482.5	482.5	482.2	482.3	480.4	478.9	478.4	479.2

TEST NUMBER: P869711
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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°	479.1	480.2	481.6	480.6	480.6	480.2	480.4	478.5	477.1	476.4	477.0
23°	477.4	478.5	479.4	478.9	478.7	478.5	478.2	476.4	475.2	474.6	474.8
23.5°	475.3	476.7	477.7	477.1	476.8	476.7	476.4	474.5	473.1	472.9	472.6
24°	473.4	474.7	475.5	475.0	474.9	474.4	474.3	472.7	471.3	470.5	470.5
24.5°	471.5	472.8	473.3	472.9	473.1	472.1	472.1	470.6	469.2	468.4	468.7
25°	469.4	470.6	471.2	471.0	470.8	470.4	470.0	468.7	467.0	466.3	466.1
25.5°	466.9	468.4	469.0	469.1	468.9	468.6	467.8	466.8	464.9	464.2	463.9
26°	465.0	466.4	466.8	466.9	466.7	466.2	465.6	464.5	462.6	462.1	462.0
26.5°	462.5	464.2	464.6	464.5	464.6	464.0	463.2	462.4	460.6	459.9	459.5
27°	460.4	462.1	462.3	462.5	462.1	462.0	460.9	460.1	458.2	457.8	457.2
27.5°	458.2	460.0	460.1	460.6	460.1	459.5	458.5	458.0	455.9	455.7	455.1
28°	455.9	457.6	458.0	458.3	458.0	457.4	456.2	455.5	453.9	453.4	452.7
28.5°	453.4	455.5	455.4	455.8	455.6	455.2	454.1	453.4	451.5	451.0	450.5
29°	451.0	453.3	453.0	453.4	453.3	452.8	451.7	451.1	449.1	448.5	448.0
29.5°	448.8	450.9	450.9	451.3	450.7	450.3	449.4	448.8	446.6	446.0	445.7
30°	446.5	448.5	448.6	448.9	448.3	447.9	447.1	446.2	444.0	443.6	442.9
30.5°	444.0	446.2	446.1	446.5	445.8	445.5	444.7	443.9	441.5	441.2	440.6
31°	441.4	443.7	443.6	443.9	443.6	443.0	442.0	441.3	439.0	438.4	438.1
31.5°	439.1	440.9	441.0	441.5	440.9	440.3	439.6	438.6	436.5	435.8	435.4
32°	436.4	438.2	438.5	439.1	438.2	437.6	436.9	436.1	433.8	433.5	432.6
32.5°	433.7	435.7	435.7	436.6	435.6	435.4	434.2	433.6	431.2	430.9	430.1
33°	431.2	433.1	433.0	433.8	433.2	432.6	431.6	430.7	428.4	428.3	427.4
33.5°	428.6	430.5	430.5	431.1	430.8	430.1	428.8	428.0	425.7	425.6	424.6
34°	425.7	427.9	427.9	428.4	427.9	427.4	425.9	425.6	423.2	422.7	421.6
34.5°	422.9	425.1	425.0	425.6	425.0	424.7	423.3	422.8	420.4	419.9	418.9
35°	420.0	422.3	422.1	422.9	422.1	421.9	420.4	419.7	417.4	417.1	416.1
35.5°	417.0	419.5	419.4	420.2	419.4	419.1	417.6	417.0	414.6	414.3	413.3
36°	414.4	416.7	416.5	417.3	416.4	416.2	414.7	414.0	411.7	411.3	410.3
36.5°	411.5	413.8	413.6	414.3	413.4	413.3	411.8	411.2	408.8	408.7	407.5
37°	408.7	411.0	410.9	411.3	410.7	410.5	409.0	408.3	405.8	405.5	404.3
37.5°	405.7	407.8	407.8	408.5	408.0	407.5	406.1	405.4	402.8	402.2	401.2
38°	402.3	404.8	404.8	405.5	404.8	404.4	403.0	402.5	399.8	399.2	398.2
38.5°	399.4	401.7	401.8	402.6	401.8	401.3	400.0	399.5	396.6	395.8	395.2
39°	396.4	398.8	398.8	399.5	398.8	398.5	396.7	396.3	393.6	393.0	392.2
39.5°	393.4	395.4	395.7	396.4	395.7	395.2	393.7	393.2	390.4	390.0	389.1
40°	390.0	392.2	392.6	393.1	392.5	392.2	390.7	390.0	387.3	386.6	385.8
40.5°	386.9	389.1	389.4	390.0	389.4	389.2	387.8	386.5	384.1	383.2	382.8
41°	384.0	385.9	386.2	386.8	386.1	385.9	384.4	383.1	380.9	380.2	379.3
41.5°	380.8	382.6	383.1	383.5	383.0	382.5	381.3	380.0	377.8	376.8	376.2
42°	377.4	379.2	379.9	380.3	379.8	379.4	378.0	376.6	374.4	373.4	372.8
42.5°	374.1	376.1	376.8	376.9	376.4	376.1	374.8	373.1	371.1	370.2	369.4
43°	370.8	372.6	373.3	373.5	373.1	372.7	371.3	369.9	367.6	367.0	366.2
43.5°	367.4	369.4	369.9	370.3	369.8	369.3	367.7	366.5	364.2	363.7	362.8
44°	364.2	366.1	366.7	366.8	366.4	366.2	364.4	363.2	360.8	360.3	359.4
44.5°	361.0	362.7	363.4	363.5	363.1	362.7	361.0	359.6	357.4	356.8	356.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	357.3	359.0	360.1	360.2	359.7	359.2	357.7	356.1	353.9	353.3	352.4
45.5°	353.6	355.7	356.5	356.7	356.0	355.8	354.3	352.8	350.5	349.4	349.0
46°	350.5	352.2	352.9	353.0	352.5	352.3	350.7	349.3	346.9	346.0	345.4
46.5°	346.8	348.7	349.7	349.4	349.1	348.8	347.4	345.6	343.1	342.4	342.0
47°	343.4	345.1	346.0	346.1	345.5	345.2	343.7	342.3	339.8	338.9	338.4
47.5°	339.5	341.5	342.5	342.6	342.1	341.7	340.0	338.8	336.1	335.3	334.5
48°	336.0	338.0	338.7	338.8	338.4	338.2	336.5	335.0	332.6	331.6	330.8
48.5°	332.6	334.4	335.2	335.1	334.6	334.4	332.9	331.1	328.7	327.9	327.3
49°	328.7	330.6	331.4	331.5	331.0	330.8	329.0	327.4	325.3	324.2	323.4
49.5°	325.0	326.8	327.7	327.9	327.3	327.2	325.4	323.7	321.6	320.5	319.9
50°	321.3	323.3	323.9	324.0	323.7	323.4	321.7	320.1	317.8	316.9	316.1
50.5°	317.5	319.6	320.3	320.4	320.0	319.6	317.9	316.3	313.9	312.9	312.3
51°	313.6	315.7	316.4	316.4	316.3	315.7	314.1	312.6	310.0	308.9	308.3
51.5°	309.9	312.0	312.6	312.7	312.4	312.0	310.1	308.8	306.3	305.3	304.5
52°	306.0	308.1	308.8	308.9	308.6	308.1	306.4	305.0	302.6	301.3	300.7
52.5°	301.9	304.1	304.8	304.9	304.6	304.4	302.6	301.1	298.6	297.4	296.7
53°	297.8	300.2	300.9	300.9	300.5	300.4	298.8	297.0	294.6	293.4	292.8
53.5°	294.1	296.2	297.1	297.2	296.8	296.5	294.8	293.1	290.6	289.5	288.9
54°	290.3	292.2	293.0	293.1	293.0	292.4	290.8	289.1	286.9	285.4	284.8
54.5°	286.4	288.2	289.2	289.1	289.1	288.6	286.9	285.2	282.9	281.3	280.7
55°	282.1	284.3	285.1	285.0	285.1	284.5	282.9	281.2	278.7	277.4	276.9
55.5°	278.2	280.2	281.2	280.9	281.1	280.6	278.9	277.4	274.6	273.7	272.6
56°	274.3	276.2	277.1	277.0	277.1	276.4	274.7	273.1	270.5	269.4	268.4
56.5°	270.1	272.0	272.9	272.9	273.1	272.3	270.5	269.2	266.4	265.2	264.3
57°	265.8	267.9	268.9	268.8	269.0	268.3	266.6	265.0	262.5	261.0	260.0
57.5°	261.7	263.8	264.8	264.6	264.9	264.0	262.3	260.8	258.2	256.8	256.0
58°	257.6	259.7	260.6	260.5	260.6	259.9	258.2	256.6	254.1	252.6	251.8
58.5°	253.5	255.7	256.6	256.3	256.4	255.8	254.1	252.5	250.0	248.5	247.6
59°	249.2	251.3	252.3	252.0	252.4	251.4	249.8	248.1	245.7	244.4	243.5
59.5°	245.0	247.0	248.0	247.8	248.2	247.2	245.5	243.8	241.4	239.8	239.1
60°	240.7	242.7	243.7	243.5	243.8	242.9	241.1	239.5	237.3	235.6	234.8
60.5°	236.4	238.4	239.3	239.2	239.6	238.8	237.0	235.3	232.9	231.4	230.6
61°	232.3	234.2	235.1	234.9	235.4	234.4	232.7	231.1	228.6	227.1	226.3
61.5°	227.8	229.8	230.8	230.7	231.2	230.0	228.4	226.8	224.3	222.7	221.9
62°	223.4	225.4	226.6	226.5	226.9	225.8	224.0	222.4	220.1	218.3	217.4
62.5°	219.0	221.2	222.0	222.0	222.5	221.4	219.6	217.9	215.5	214.0	213.0
63°	214.6	216.8	217.5	217.6	218.1	217.1	215.2	213.5	211.1	209.5	208.6
63.5°	210.2	212.2	213.1	213.2	213.8	212.8	210.9	209.2	206.7	205.0	204.1
64°	205.9	207.9	208.7	208.7	209.2	208.2	206.4	204.7	202.3	200.6	199.7
64.5°	201.4	203.5	204.3	204.5	204.9	203.9	202.0	200.1	197.9	196.1	195.1
65°	196.9	198.9	199.8	200.0	200.4	199.4	197.4	195.6	193.5	191.7	190.7
65.5°	192.4	194.4	195.3	195.4	195.8	194.9	193.0	191.2	189.0	187.2	186.3
66°	188.1	190.0	190.8	190.8	191.4	190.3	188.4	186.5	184.4	182.8	182.0
66.5°	183.4	185.4	186.3	186.4	187.0	185.8	184.0	182.1	179.9	178.2	177.3
67°	178.9	180.9	181.8	181.9	182.5	181.5	179.5	177.5	175.4	173.6	172.6

TEST NUMBER: P869711
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	174.3	176.3	177.1	177.3	178.0	176.8	175.0	173.0	170.9	168.9	168.1
68°	169.7	171.6	172.5	172.5	173.4	172.1	170.4	168.4	166.3	164.5	163.5
68.5°	165.1	167.2	168.0	168.2	169.1	167.6	165.8	163.7	161.8	160.1	159.0
69°	160.6	162.6	163.3	163.7	164.5	163.1	161.1	159.2	157.1	155.3	154.5
69.5°	155.8	158.0	158.8	158.8	159.7	158.5	156.6	154.7	152.6	150.7	149.7
70°	151.2	153.3	154.1	154.2	155.1	153.9	151.9	149.9	147.8	146.2	145.1
70.5°	146.7	148.6	149.3	149.7	150.7	149.3	147.3	145.4	143.4	141.5	140.5
71°	141.9	144.1	144.8	145.0	146.1	144.8	142.9	140.7	138.7	136.9	136.0
71.5°	137.3	139.4	140.1	140.4	141.4	140.1	138.1	136.0	134.0	132.3	131.3
72°	132.7	134.8	135.5	135.7	136.8	135.6	133.5	131.4	129.4	127.5	126.5
72.5°	128.1	130.0	130.8	131.0	132.2	130.9	129.0	126.6	124.6	122.9	122.0
73°	123.4	125.3	126.1	126.3	127.4	126.1	124.1	122.0	120.1	118.3	117.3
73.5°	118.8	120.7	121.5	121.6	122.9	121.5	119.5	117.3	115.5	113.6	112.7
74°	114.2	116.1	116.8	117.1	118.3	117.0	114.9	112.7	110.9	108.9	108.1
74.5°	109.5	111.5	112.3	112.4	113.6	112.4	110.4	108.0	106.2	104.4	103.4
75°	104.8	106.7	107.5	107.6	108.9	107.7	105.7	103.3	101.6	99.7	98.8
75.5°	100.3	102.1	103.0	103.0	104.4	103.0	101.1	99.0	97.0	95.3	94.3
76°	95.7	97.6	98.5	98.4	99.7	98.5	96.5	94.4	92.5	90.7	89.7
76.5°	91.1	93.0	93.9	93.8	95.2	93.9	91.8	89.9	87.9	85.9	85.0
77°	86.6	88.5	89.4	89.3	90.6	89.3	87.3	85.4	83.3	81.5	80.5
77.5°	82.0	83.9	84.8	84.8	86.1	84.8	82.9	80.7	78.9	77.0	76.2
78°	77.6	79.5	80.2	80.4	81.6	80.4	78.3	76.3	74.3	72.7	71.7
78.5°	73.1	74.9	75.8	76.0	77.2	75.8	73.8	71.7	69.9	68.1	67.3
79°	68.8	70.6	71.5	71.5	72.7	71.4	69.5	67.4	65.5	63.8	63.1
79.5°	64.3	66.1	67.0	67.1	68.2	67.0	65.1	63.0	61.2	59.6	58.7
80°	60.0	61.7	62.6	62.7	63.9	62.8	60.7	58.7	57.0	55.5	54.6
80.5°	55.9	57.6	58.4	58.6	59.6	58.5	56.7	54.7	52.8	51.3	50.5
81°	51.7	53.4	54.2	54.4	55.6	54.5	52.5	50.5	48.8	47.2	46.5
81.5°	47.6	49.2	50.0	50.1	51.2	50.3	48.4	46.4	44.6	43.2	42.6
82°	43.4	45.1	45.8	45.8	47.1	46.1	44.5	42.5	40.6	39.3	38.5
82.5°	39.5	41.1	41.9	41.9	43.2	42.2	40.5	38.5	36.8	35.4	34.8
83°	35.8	37.3	38.0	38.1	39.4	38.3	36.6	34.8	33.1	31.7	31.1
83.5°	32.0	33.5	34.2	34.4	35.5	34.5	32.9	31.0	29.4	28.1	27.5
84°	28.5	29.9	30.5	30.7	31.7	30.8	29.2	27.4	25.8	24.8	24.1
84.5°	25.0	26.5	27.0	27.2	28.1	27.3	25.7	24.1	22.5	21.3	20.8
85°	21.7	23.1	23.6	23.6	24.8	23.9	22.4	20.7	19.3	18.1	17.6
85.5°	18.6	19.9	20.4	20.4	21.3	20.5	19.1	17.5	16.2	15.2	14.7
86°	15.8	16.9	17.4	17.4	18.2	17.4	16.0	14.6	13.6	12.5	12.1
86.5°	13.2	14.3	14.7	14.7	15.1	14.5	13.3	11.9	10.9	10.2	9.9
87°	10.7	11.8	12.1	12.1	12.6	11.9	10.8	9.7	8.7	7.9	7.7
87.5°	8.5	9.4	9.7	9.7	10.1	9.7	8.7	7.6	6.6	6.0	5.7
88°	6.4	7.2	7.6	7.5	8.1	7.5	6.6	5.6	4.8	4.2	4.1
88.5°	4.3	5.1	5.4	5.4	6.0	5.6	4.7	3.9	3.2	2.8	2.5
89°	2.9	3.5	3.8	3.6	4.2	3.8	3.1	2.4	1.9	1.5	1.4
89.5°	1.9	2.3	2.5	2.4	2.7	2.3	1.8	1.3	0.9	0.7	0.5

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



TEST NUMBER: P869711
CATALOG NUMBER: SMX18RLSFSD2W-1500LM-2700K

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: P869711
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	521.7	521.7	521.7	521.7	521.7	521.7
0.5°	521.5	521.5	522.0	521.4	521.4	521.2
1°	521.1	521.2	521.7	521.0	521.3	521.2
1.5°	521.1	521.4	521.6	521.0	521.2	521.2
2°	520.8	521.4	521.3	520.8	521.2	521.1
2.5°	520.7	521.0	521.2	520.7	521.1	520.7
3°	520.4	520.5	521.2	520.2	521.0	520.4
3.5°	520.1	520.1	520.7	520.1	520.6	520.2
4°	520.1	519.6	520.2	520.1	520.1	520.0
4.5°	519.5	519.4	519.8	519.4	519.5	519.8
5°	519.2	519.2	519.5	518.8	518.9	519.6
5.5°	518.2	518.4	518.9	518.2	518.6	518.9
6°	517.7	517.8	518.2	518.1	518.4	518.3
6.5°	517.2	517.2	517.8	517.6	517.8	517.8
7°	516.9	516.6	517.2	516.9	517.4	517.2
7.5°	515.8	516.1	516.3	516.3	516.8	516.6
8°	515.2	515.1	515.6	515.5	515.9	515.9
8.5°	514.5	514.5	515.1	514.6	515.2	515.3
9°	513.5	513.5	514.4	514.1	514.4	514.6
9.5°	512.9	512.8	513.1	513.2	513.5	513.7
10°	512.2	512.1	512.2	512.0	512.8	513.1
10.5°	511.2	511.3	511.3	510.9	512.0	512.5
11°	510.1	510.2	510.4	510.3	511.3	511.6
11.5°	509.2	509.2	509.6	509.4	510.6	510.5
12°	508.2	508.1	508.9	508.3	509.5	509.7
12.5°	507.0	507.1	507.4	507.2	508.4	508.6
13°	505.9	506.1	506.6	506.5	507.4	507.6
13.5°	504.9	505.1	505.4	505.2	506.5	506.5
14°	503.6	503.8	504.3	504.2	505.5	505.9
14.5°	502.5	502.6	503.1	503.1	504.5	504.6
15°	501.3	501.3	501.8	501.7	503.1	503.0
15.5°	500.3	499.8	500.5	500.6	501.6	501.7
16°	499.0	498.4	499.3	499.1	500.3	500.3
16.5°	497.5	496.9	497.8	498.1	498.8	499.2
17°	496.1	495.2	496.1	497.0	497.4	497.7
17.5°	494.4	493.6	494.7	495.4	496.0	496.1
18°	492.9	492.1	492.9	493.9	494.4	494.8
18.5°	490.9	490.5	490.9	492.3	492.7	493.1
19°	489.2	488.8	489.2	491.0	491.0	491.3
19.5°	487.5	486.9	487.6	489.2	489.4	489.9
20°	485.8	485.2	486.3	487.4	488.0	488.2
20.5°	483.9	483.6	484.4	485.9	486.0	486.5
21°	482.2	481.7	482.7	484.3	484.2	484.8
21.5°	480.3	479.7	480.8	482.3	482.2	482.7
22°	478.5	477.7	478.6	480.2	480.3	480.9

TEST NUMBER: P869711
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	476.5	475.9	476.9	478.4	478.7	479.1
23°	474.7	474.0	475.1	476.4	477.1	477.4
23.5°	472.5	472.1	472.8	474.3	474.8	475.3
24°	470.5	470.1	470.7	472.1	472.5	473.4
24.5°	468.2	468.0	468.6	469.9	470.8	471.5
25°	466.3	466.1	467.0	467.9	468.9	469.4
25.5°	464.2	463.7	464.8	465.7	466.7	466.9
26°	461.9	461.5	462.7	463.5	464.7	465.0
26.5°	459.5	458.9	460.5	461.2	462.4	462.5
27°	457.4	456.8	458.2	459.0	460.0	460.4
27.5°	455.0	454.3	455.8	456.8	457.8	458.2
28°	452.8	452.1	453.7	454.5	455.7	455.9
28.5°	450.3	449.7	451.1	451.9	453.4	453.4
29°	448.0	447.2	448.6	449.6	451.0	451.0
29.5°	445.4	444.6	446.0	447.1	448.4	448.8
30°	442.9	442.3	443.7	444.7	446.0	446.5
30.5°	440.6	439.7	441.0	441.9	443.6	444.0
31°	437.9	437.2	438.5	439.4	441.3	441.4
31.5°	435.2	434.5	435.8	436.9	438.5	439.1
32°	432.5	431.7	433.5	434.5	436.1	436.4
32.5°	430.0	429.0	430.9	431.8	433.4	433.7
33°	427.3	426.6	428.3	429.2	431.0	431.2
33.5°	424.6	423.7	425.3	426.3	428.4	428.6
34°	422.0	420.8	422.6	423.7	425.7	425.7
34.5°	418.8	418.0	419.7	420.9	422.9	422.9
35°	415.9	415.3	417.0	417.9	420.0	420.0
35.5°	413.1	412.4	413.8	415.0	417.0	417.0
36°	410.3	409.6	411.1	412.3	414.3	414.4
36.5°	407.6	406.5	408.2	409.6	411.6	411.5
37°	404.7	403.5	405.2	406.5	408.6	408.7
37.5°	401.7	400.7	402.0	403.6	405.6	405.7
38°	398.2	397.6	398.9	400.4	402.5	402.3
38.5°	395.5	394.4	395.8	397.3	399.4	399.4
39°	392.4	391.4	392.7	394.4	396.3	396.4
39.5°	389.1	388.3	389.4	391.0	393.0	393.4
40°	385.9	384.9	386.6	388.0	389.8	390.0
40.5°	382.6	381.7	383.1	384.8	386.8	386.9
41°	379.2	378.6	379.9	381.3	383.1	384.0
41.5°	376.2	375.1	376.6	378.3	380.0	380.8
42°	372.8	371.8	373.4	375.0	376.6	377.4
42.5°	369.4	368.7	369.9	371.5	373.3	374.1
43°	366.3	365.4	366.6	368.2	370.0	370.8
43.5°	362.9	362.0	363.2	365.0	366.9	367.4
44°	359.2	358.4	359.7	361.6	363.6	364.2
44.5°	355.9	355.0	356.4	358.0	360.1	361.0

TEST NUMBER: P869711
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	352.4	351.4	352.9	354.8	356.5	357.3
45.5°	349.1	347.9	349.5	351.3	352.8	353.6
46°	345.2	344.2	346.0	347.6	349.3	350.5
46.5°	341.7	340.8	342.3	344.1	345.8	346.8
47°	338.2	337.0	338.5	340.3	342.3	343.4
47.5°	334.3	333.4	335.0	336.9	338.7	339.5
48°	330.7	329.6	331.1	333.2	335.0	336.0
48.5°	327.0	326.0	327.5	329.6	331.5	332.6
49°	323.3	322.5	323.9	325.8	327.9	328.7
49.5°	319.5	318.7	320.1	322.2	324.1	325.0
50°	315.7	314.8	316.2	318.3	320.4	321.3
50.5°	311.9	311.0	312.4	314.7	316.6	317.5
51°	308.1	307.2	308.6	310.8	312.8	313.6
51.5°	304.3	303.3	304.6	306.9	308.9	309.9
52°	300.3	299.3	300.8	302.8	305.0	306.0
52.5°	296.2	295.5	297.0	299.0	300.9	301.9
53°	292.6	291.5	293.0	295.0	297.2	297.8
53.5°	288.5	287.5	289.1	291.2	293.1	294.1
54°	284.4	283.5	285.0	287.0	289.1	290.3
54.5°	280.4	279.4	280.9	283.1	285.1	286.4
55°	276.6	275.5	277.1	279.1	280.9	282.1
55.5°	272.5	271.5	273.1	275.0	277.2	278.2
56°	268.3	267.4	268.9	271.1	273.2	274.3
56.5°	264.1	263.3	264.8	267.0	269.0	270.1
57°	260.2	259.0	260.6	262.8	264.7	265.8
57.5°	255.9	255.0	256.4	258.5	260.5	261.7
58°	251.7	250.7	252.3	254.3	256.3	257.6
58.5°	247.5	246.4	248.1	250.1	252.2	253.5
59°	243.3	242.2	243.8	245.8	247.9	249.2
59.5°	238.9	237.8	239.5	241.5	243.5	245.0
60°	234.7	233.5	235.2	237.3	239.2	240.7
60.5°	230.4	229.3	230.6	233.0	234.9	236.4
61°	226.1	225.0	226.6	228.6	230.6	232.3
61.5°	221.7	220.6	222.3	224.4	226.4	227.8
62°	217.3	216.3	217.8	219.9	222.0	223.4
62.5°	213.0	211.9	213.4	215.5	217.6	219.0
63°	208.5	207.4	208.9	210.9	213.2	214.6
63.5°	204.1	203.0	204.5	206.5	208.7	210.2
64°	199.5	198.4	199.9	202.2	204.3	205.9
64.5°	195.0	194.0	195.5	197.5	199.8	201.4
65°	190.7	189.6	191.0	192.9	195.4	196.9
65.5°	186.1	185.0	186.6	188.5	190.7	192.4
66°	181.6	180.6	182.0	184.0	186.3	188.1
66.5°	177.1	175.8	177.5	179.4	181.7	183.4
67°	172.4	171.3	172.8	174.8	177.2	178.9

TEST NUMBER: P869711
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	168.0	166.8	168.3	170.3	172.7	174.3
68°	163.5	162.0	163.7	165.7	168.1	169.7
68.5°	158.8	157.6	159.0	161.0	163.4	165.1
69°	154.2	152.9	154.4	156.4	158.8	160.6
69.5°	149.5	148.2	149.8	151.7	154.1	155.8
70°	145.0	143.6	145.3	147.2	149.4	151.2
70.5°	140.5	139.0	140.6	142.5	144.9	146.7
71°	135.8	134.4	136.1	138.0	140.3	141.9
71.5°	131.1	129.7	131.2	133.1	135.6	137.3
72°	126.5	125.2	126.5	128.5	130.9	132.7
72.5°	121.7	120.5	122.0	123.9	126.3	128.1
73°	117.1	115.8	117.2	119.2	121.5	123.4
73.5°	112.6	111.2	112.5	114.6	117.0	118.8
74°	108.0	106.5	107.9	110.0	112.2	114.2
74.5°	103.3	102.0	103.3	105.2	107.5	109.5
75°	98.8	97.4	98.8	100.7	102.9	104.8
75.5°	94.4	92.9	94.1	96.2	98.4	100.3
76°	89.7	88.2	89.6	91.5	93.7	95.7
76.5°	85.1	83.7	85.0	87.0	89.3	91.1
77°	80.5	79.2	80.6	82.5	84.7	86.6
77.5°	76.1	74.8	76.1	78.2	80.3	82.0
78°	71.6	70.3	71.7	73.6	75.8	77.6
78.5°	67.2	66.0	67.3	69.1	71.4	73.1
79°	62.9	61.5	62.9	64.8	67.1	68.8
79.5°	58.6	57.3	58.6	60.5	62.7	64.3
80°	54.5	53.1	54.3	56.3	58.3	60.0
80.5°	50.4	49.0	50.3	52.1	54.0	55.9
81°	46.4	44.9	46.1	48.0	49.9	51.7
81.5°	42.4	40.9	42.1	43.9	46.0	47.6
82°	38.4	37.1	38.2	40.0	41.8	43.4
82.5°	34.6	33.4	34.5	36.1	38.0	39.5
83°	31.0	29.7	30.9	32.5	34.3	35.8
83.5°	27.4	26.2	27.2	28.8	30.7	32.0
84°	24.0	22.9	23.8	25.4	27.1	28.5
84.5°	20.7	19.8	20.6	22.1	23.7	25.0
85°	17.5	16.8	17.6	19.0	20.5	21.7
85.5°	14.6	14.1	14.9	16.0	17.5	18.6
86°	12.0	11.5	12.3	13.4	14.8	15.8
86.5°	9.8	9.1	9.8	10.9	12.1	13.2
87°	7.7	7.0	7.6	8.6	9.7	10.7
87.5°	5.7	4.8	5.6	6.5	7.6	8.5
88°	4.0	3.4	3.8	4.5	5.4	6.4
88.5°	2.6	2.2	2.6	3.1	3.8	4.3
89°	1.4	1.3	1.6	2.1	2.5	2.9
89.5°	0.6	0.8	1.0	1.3	1.6	1.9

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



TEST NUMBER: P869711
CATALOG NUMBER: SMX18RLSFSD2W-1500LM-2700K

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)