

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: P869714

Luminaire Tested: **SMX18RLSFSD2W-1500LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869714
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFSD2W-1500LM-4000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

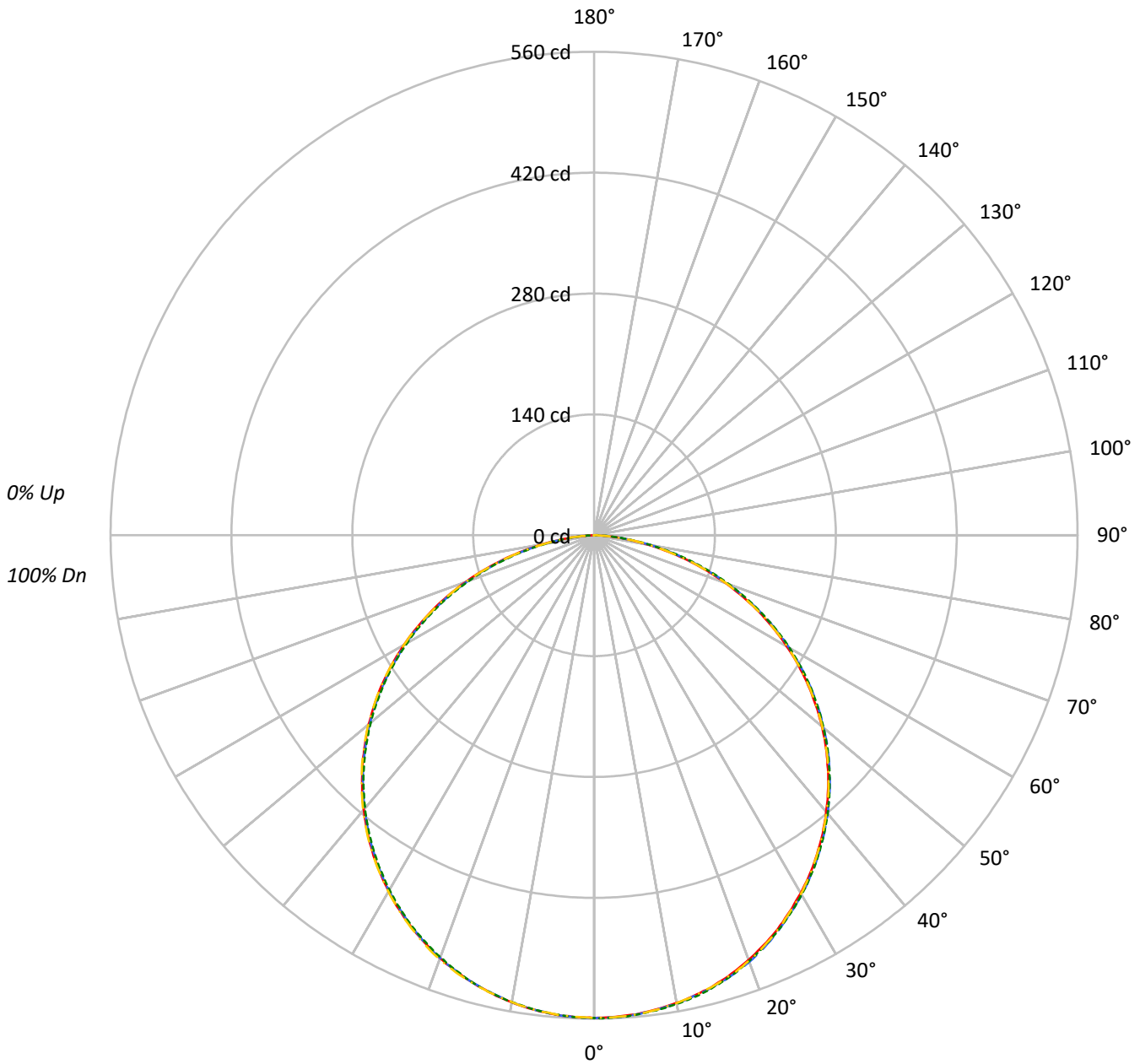
Lumens per Lamp: N/A
 Luminaire Lumens: 1632.5 lumens
 Efficiency: N/A
 Efficacy: 96.0 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 17
 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69	69	69	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50	50	50	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3407	3407	3407	3407
5°	3406	3408	3403	3404
10°	3402	3410	3399	3396
15°	3401	3410	3389	3389
20°	3393	3402	3380	3372
25°	3383	3393	3365	3358
30°	3367	3380	3348	3335
35°	3348	3365	3328	3311
40°	3324	3346	3301	3282
45°	3300	3322	3268	3245
50°	3265	3288	3229	3198
55°	3211	3246	3173	3137
60°	3143	3184	3099	3049
65°	3043	3096	2989	2930
70°	2887	2962	2823	2743
75°	2643	2749	2563	2457
80°	2255	2403	2143	1999
85°	1628	1859	1447	1258

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	3.2
10°-20°	152.1	9.3
20°-30°	231.6	14.2
30°-40°	281.2	17.2
40°-50°	294.4	18.0
50°-60°	268.9	16.5
60°-70°	206.8	12.7
70°-80°	117.0	7.2
80°-90°	27.6	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°	436.6	26.7
0°-40°	717.8	44.0
0°-60°	1281.1	78.5
0°-90°	1632.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	559	559	559	559	559	
5°	557	557	556	557	557	53
15°	539	541	538	538	539	152
25°	503	505	501	500	503	232
35°	450	452	448	445	450	282
45°	383	386	379	377	383	295
55°	302	306	299	295	302	270
65°	211	215	207	203	211	209
75°	112	117	109	104	112	119
85°	23	27	21	18	23	29
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°	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3
0.5°	558.8	559.2	559.2	559.2	559.6	559.9	559.2	559.4	558.7	559.2	559.3
1°	558.8	559.3	559.1	559.4	559.7	559.7	558.8	559.1	558.8	559.0	559.1
1.5°	558.8	559.5	559.0	559.0	559.5	559.5	559.1	558.9	558.6	559.0	559.0
2°	558.6	559.2	558.9	558.8	559.2	559.5	559.0	558.8	558.5	558.7	558.5
2.5°	558.3	559.1	558.8	558.8	559.2	559.2	558.7	558.3	558.4	558.6	558.5
3°	557.9	558.8	558.8	558.4	558.8	558.6	558.5	558.1	557.8	558.8	558.1
3.5°	557.7	558.4	558.6	558.4	558.5	558.2	558.4	557.9	557.9	558.3	557.9
4°	557.5	558.1	558.1	558.0	558.5	558.1	557.9	557.7	557.7	557.6	557.6
4.5°	557.2	557.5	557.6	557.9	557.8	558.0	557.7	557.4	557.2	557.2	557.2
5°	557.1	557.0	557.1	557.4	557.4	557.5	557.3	556.6	556.5	556.8	556.8
5.5°	556.3	556.9	556.9	557.2	557.1	557.3	556.9	556.3	556.1	556.1	556.2
6°	555.7	556.4	556.0	556.5	556.7	556.7	556.2	556.0	555.4	555.5	555.1
6.5°	555.2	555.7	555.5	555.9	556.0	556.2	555.5	555.5	555.1	554.7	554.5
7°	554.6	555.0	555.0	555.1	555.3	555.6	554.8	554.6	554.3	554.3	554.1
7.5°	553.9	554.3	554.4	554.7	555.1	554.8	554.5	553.7	553.7	553.6	553.4
8°	553.2	553.6	553.6	553.9	554.3	554.3	553.9	553.3	552.9	552.7	552.6
8.5°	552.5	553.1	553.0	553.2	553.6	553.7	552.7	552.5	552.2	552.0	551.9
9°	551.7	552.4	552.1	552.5	552.7	552.9	552.0	551.7	551.2	551.1	551.0
9.5°	550.8	551.6	551.5	551.8	552.0	552.2	551.4	550.8	550.5	550.1	550.1
10°	550.1	550.7	550.6	550.8	551.4	551.3	550.4	549.7	549.5	549.0	548.9
10.5°	549.5	549.8	549.7	550.3	550.6	550.4	549.3	549.0	548.3	548.1	547.9
11°	548.5	548.8	548.8	549.4	549.7	549.4	548.4	548.0	547.3	547.4	546.7
11.5°	547.3	547.8	547.8	548.5	548.9	548.6	547.5	546.6	546.2	546.5	545.7
12°	546.4	547.0	546.8	547.6	547.8	547.5	546.6	545.6	545.3	545.0	544.7
12.5°	545.3	545.8	545.6	546.5	547.1	546.5	545.6	544.4	543.8	543.8	543.7
13°	544.2	544.9	544.6	545.7	546.0	545.6	544.4	543.2	542.8	542.5	542.4
13.5°	543.0	543.6	543.8	544.4	544.7	544.4	543.2	542.3	541.4	541.1	541.4
14°	542.4	542.5	542.6	543.6	543.6	543.2	541.8	541.1	540.1	540.0	540.1
14.5°	541.0	541.1	541.5	542.4	542.4	542.1	540.9	539.6	539.0	538.4	538.5
15°	539.3	539.8	540.4	540.7	540.8	540.7	539.7	538.3	537.5	537.3	537.3
15.5°	537.9	538.7	539.0	539.6	539.8	539.4	538.3	536.7	536.1	535.9	536.0
16°	536.3	537.6	538.0	538.2	538.1	538.2	537.1	535.2	534.7	534.5	534.6
16.5°	535.2	536.2	536.9	536.8	536.7	536.7	535.4	534.1	533.2	533.0	533.0
17°	533.6	534.5	535.4	535.3	535.3	535.2	534.1	532.6	531.5	531.3	531.1
17.5°	531.8	533.0	533.9	533.9	533.7	533.6	532.8	530.9	530.3	529.6	529.7
18°	530.4	531.4	532.4	531.9	532.0	531.9	531.6	529.3	528.5	528.0	528.2
18.5°	528.6	529.6	530.9	530.3	530.0	530.2	529.7	527.5	526.7	526.4	526.4
19°	526.8	528.1	529.3	528.6	528.4	528.3	528.3	526.0	525.1	524.4	525.0
19.5°	525.2	526.4	527.4	526.8	526.9	526.8	526.2	524.3	523.1	522.5	523.3
20°	523.4	524.8	525.7	524.7	524.8	525.0	524.6	522.3	521.4	520.9	521.3
20.5°	521.6	522.6	524.1	523.0	523.0	522.7	522.6	520.5	519.8	519.1	519.5
21°	519.8	520.6	522.3	521.2	521.3	520.6	521.2	518.6	518.0	517.1	517.6
21.5°	517.5	518.7	520.3	519.4	519.1	519.1	519.0	516.8	515.7	515.0	515.7
22°	515.6	516.7	518.4	517.3	517.3	517.0	517.1	515.0	513.5	512.9	513.8

TEST NUMBER: P869714
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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°	513.7	514.8	516.3	515.3	515.3	514.9	515.0	513.0	511.5	510.7	511.4
23°	511.9	513.0	514.0	513.5	513.2	513.1	512.6	510.7	509.4	508.8	509.1
23.5°	509.6	511.1	512.1	511.5	511.2	511.1	510.7	508.7	507.2	507.0	506.7
24°	507.6	509.0	509.8	509.3	509.1	508.6	508.6	506.8	505.3	504.4	504.5
24.5°	505.5	506.9	507.4	507.0	507.2	506.2	506.2	504.6	503.0	502.2	502.5
25°	503.3	504.5	505.2	505.0	504.8	504.4	503.9	502.5	500.7	499.9	499.7
25.5°	500.6	502.1	502.8	502.9	502.7	502.4	501.6	500.4	498.5	497.7	497.3
26°	498.5	500.1	500.4	500.6	500.4	499.8	499.2	498.0	496.0	495.5	495.4
26.5°	495.8	497.7	498.1	498.0	498.1	497.5	496.6	495.7	493.8	493.1	492.7
27°	493.6	495.5	495.6	495.8	495.4	495.3	494.2	493.3	491.2	490.9	490.2
27.5°	491.2	493.2	493.3	493.8	493.3	492.6	491.6	491.0	488.8	488.6	487.9
28°	488.8	490.6	491.0	491.3	491.0	490.4	489.1	488.4	486.6	486.1	485.4
28.5°	486.1	488.4	488.2	488.7	488.4	488.0	486.9	486.1	484.1	483.5	483.0
29°	483.5	486.0	485.7	486.1	486.0	485.4	484.3	483.6	481.5	480.8	480.3
29.5°	481.2	483.5	483.5	483.8	483.2	482.8	481.8	481.2	478.8	478.2	477.8
30°	478.7	480.8	480.9	481.3	480.6	480.2	479.4	478.4	476.0	475.6	474.8
30.5°	476.0	478.4	478.3	478.7	478.0	477.6	476.8	475.9	473.4	473.1	472.4
31°	473.2	475.7	475.6	475.9	475.6	475.0	473.9	473.2	470.7	470.0	469.7
31.5°	470.8	472.7	472.8	473.3	472.7	472.1	471.3	470.3	468.0	467.2	466.8
32°	467.9	469.8	470.1	470.8	469.9	469.2	468.4	467.5	465.1	464.8	463.8
32.5°	465.0	467.1	467.2	468.0	467.1	466.8	465.5	464.8	462.3	462.0	461.2
33°	462.3	464.3	464.2	465.1	464.4	463.8	462.7	461.8	459.3	459.2	458.2
33.5°	459.5	461.5	461.6	462.1	461.9	461.1	459.7	458.9	456.4	456.3	455.2
34°	456.4	458.8	458.8	459.3	458.8	458.2	456.6	456.3	453.7	453.2	452.0
34.5°	453.4	455.7	455.7	456.3	455.6	455.3	453.9	453.3	450.8	450.2	449.1
35°	450.3	452.8	452.5	453.5	452.5	452.3	450.7	450.0	447.5	447.1	446.1
35.5°	447.0	449.7	449.7	450.5	449.6	449.3	447.7	447.0	444.5	444.2	443.1
36°	444.3	446.8	446.5	447.4	446.4	446.2	444.6	443.9	441.4	441.0	439.9
36.5°	441.2	443.6	443.5	444.2	443.2	443.1	441.5	440.8	438.3	438.2	436.9
37°	438.2	440.6	440.5	441.0	440.4	440.1	438.4	437.7	435.1	434.8	433.4
37.5°	435.0	437.2	437.2	438.0	437.4	436.9	435.4	434.7	431.9	431.2	430.2
38°	431.3	434.0	434.0	434.8	434.0	433.6	432.0	431.5	428.6	428.0	426.9
38.5°	428.2	430.6	430.8	431.7	430.7	430.3	428.8	428.3	425.2	424.4	423.7
39°	425.0	427.6	427.5	428.3	427.5	427.2	425.3	424.9	422.0	421.3	420.5
39.5°	421.8	423.9	424.2	425.0	424.2	423.7	422.1	421.6	418.5	418.1	417.2
40°	418.1	420.5	420.9	421.4	420.8	420.5	418.9	418.1	415.2	414.5	413.6
40.5°	414.8	417.1	417.5	418.1	417.4	417.3	415.8	414.4	411.8	410.8	410.4
41°	411.7	413.8	414.0	414.7	413.9	413.8	412.1	410.7	408.4	407.6	406.7
41.5°	408.3	410.2	410.7	411.2	410.6	410.1	408.9	407.4	405.1	403.9	403.4
42°	404.6	406.6	407.3	407.7	407.2	406.8	405.2	403.8	401.4	400.3	399.7
42.5°	401.1	403.2	403.9	404.1	403.5	403.2	401.8	400.0	397.8	396.9	396.1
43°	397.5	399.5	400.3	400.4	400.0	399.6	398.1	396.6	394.1	393.4	392.6
43.5°	393.9	396.0	396.5	397.0	396.4	396.0	394.3	392.9	390.5	389.9	389.0
44°	390.5	392.5	393.2	393.3	392.9	392.6	390.7	389.4	386.8	386.3	385.3
44.5°	387.0	388.9	389.6	389.8	389.3	388.8	387.1	385.6	383.2	382.6	381.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	383.1	384.9	386.0	386.2	385.6	385.2	383.5	381.8	379.4	378.7	377.8
45.5°	379.1	381.4	382.2	382.4	381.7	381.5	379.8	378.2	375.8	374.6	374.2
46°	375.8	377.6	378.4	378.5	378.0	377.7	376.0	374.5	372.0	371.0	370.3
46.5°	371.8	373.8	374.9	374.6	374.3	373.9	372.4	370.5	367.9	367.1	366.6
47°	368.2	370.0	370.9	371.0	370.4	370.2	368.5	366.9	364.3	363.4	362.8
47.5°	364.0	366.1	367.2	367.3	366.8	366.3	364.5	363.3	360.3	359.5	358.7
48°	360.3	362.4	363.1	363.3	362.8	362.6	360.8	359.2	356.6	355.5	354.7
48.5°	356.5	358.5	359.4	359.2	358.8	358.5	356.9	355.0	352.4	351.5	350.9
49°	352.4	354.4	355.3	355.4	354.9	354.6	352.8	351.1	348.7	347.6	346.7
49.5°	348.4	350.4	351.3	351.5	350.9	350.8	348.9	347.1	344.8	343.6	342.9
50°	344.5	346.6	347.2	347.4	347.0	346.7	344.9	343.2	340.7	339.7	338.9
50.5°	340.4	342.7	343.4	343.5	343.1	342.6	340.8	339.1	336.5	335.4	334.8
51°	336.2	338.5	339.2	339.3	339.1	338.5	336.7	335.1	332.3	331.2	330.5
51.5°	332.2	334.5	335.2	335.3	334.9	334.5	332.4	331.0	328.4	327.3	326.4
52°	328.1	330.3	331.1	331.2	330.9	330.3	328.5	327.0	324.4	323.0	322.4
52.5°	323.7	326.1	326.8	326.9	326.5	326.3	324.4	322.9	320.1	318.9	318.1
53°	319.2	321.8	322.6	322.6	322.2	322.1	320.3	318.4	315.8	314.6	313.9
53.5°	315.3	317.6	318.5	318.6	318.3	317.9	316.0	314.3	311.5	310.4	309.7
54°	311.2	313.3	314.2	314.2	314.1	313.5	311.8	309.9	307.6	306.0	305.4
54.5°	307.0	309.0	310.0	309.9	310.0	309.4	307.6	305.8	303.3	301.6	300.9
55°	302.4	304.8	305.7	305.6	305.7	305.0	303.3	301.4	298.8	297.4	296.8
55.5°	298.2	300.5	301.4	301.2	301.3	300.8	299.0	297.4	294.4	293.4	292.3
56°	294.0	296.1	297.1	296.9	297.1	296.4	294.6	292.8	290.1	288.8	287.8
56.5°	289.6	291.6	292.6	292.6	292.8	291.9	290.1	288.6	285.6	284.3	283.3
57°	285.0	287.2	288.3	288.2	288.4	287.6	285.8	284.1	281.4	279.8	278.8
57.5°	280.6	282.8	283.9	283.7	284.0	283.1	281.2	279.6	276.8	275.3	274.5
58°	276.2	278.4	279.4	279.3	279.4	278.7	276.8	275.1	272.4	270.9	270.0
58.5°	271.8	274.1	275.1	274.8	274.9	274.2	272.4	270.7	268.0	266.4	265.5
59°	267.1	269.5	270.4	270.2	270.6	269.6	267.8	266.0	263.4	262.0	261.0
59.5°	262.6	264.8	265.9	265.7	266.1	265.1	263.2	261.4	258.8	257.1	256.3
60°	258.0	260.2	261.2	261.0	261.4	260.5	258.5	256.7	254.4	252.6	251.7
60.5°	253.5	255.6	256.6	256.5	256.9	256.0	254.1	252.3	249.7	248.1	247.2
61°	249.0	251.1	252.1	251.9	252.4	251.3	249.4	247.7	245.1	243.5	242.7
61.5°	244.2	246.3	247.4	247.4	247.9	246.6	244.8	243.1	240.5	238.8	237.9
62°	239.5	241.7	242.9	242.8	243.2	242.1	240.2	238.4	235.9	234.0	233.0
62.5°	234.8	237.1	238.0	238.0	238.5	237.4	235.4	233.6	231.0	229.4	228.4
63°	230.1	232.4	233.2	233.3	233.8	232.7	230.7	228.9	226.4	224.6	223.6
63.5°	225.3	227.5	228.5	228.6	229.2	228.1	226.1	224.3	221.6	219.8	218.8
64°	220.7	222.9	223.7	223.7	224.3	223.2	221.3	219.4	216.9	215.1	214.1
64.5°	215.9	218.2	219.0	219.3	219.7	218.6	216.6	214.6	212.1	210.3	209.2
65°	211.1	213.3	214.2	214.5	214.8	213.8	211.7	209.7	207.4	205.5	204.5
65.5°	206.3	208.5	209.4	209.5	209.9	209.0	206.9	205.0	202.7	200.7	199.8
66°	201.6	203.7	204.5	204.6	205.2	204.1	202.0	200.0	197.7	196.0	195.1
66.5°	196.6	198.8	199.8	199.8	200.5	199.2	197.3	195.2	192.9	191.0	190.1
67°	191.8	194.0	194.9	195.0	195.7	194.6	192.5	190.3	188.0	186.1	185.0

TEST NUMBER: P869714
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	186.9	189.0	189.9	190.1	190.9	189.5	187.7	185.5	183.2	181.1	180.2
68°	181.9	184.0	184.9	185.0	185.9	184.5	182.7	180.5	178.3	176.4	175.3
68.5°	177.0	179.3	180.1	180.4	181.3	179.7	177.8	175.5	173.5	171.6	170.5
69°	172.2	174.4	175.1	175.5	176.3	174.8	172.7	170.7	168.5	166.5	165.6
69.5°	167.0	169.3	170.2	170.3	171.3	169.9	167.9	165.9	163.6	161.6	160.5
70°	162.1	164.4	165.2	165.3	166.3	165.0	162.9	160.8	158.5	156.7	155.6
70.5°	157.3	159.3	160.1	160.5	161.5	160.1	158.0	155.9	153.7	151.7	150.6
71°	152.2	154.5	155.2	155.5	156.6	155.3	153.2	150.8	148.7	146.8	145.8
71.5°	147.2	149.5	150.3	150.5	151.6	150.2	148.1	145.8	143.7	141.8	140.8
72°	142.3	144.5	145.2	145.5	146.7	145.4	143.1	140.9	138.7	136.7	135.7
72.5°	137.3	139.3	140.2	140.4	141.7	140.3	138.3	135.8	133.6	131.8	130.8
73°	132.3	134.3	135.2	135.4	136.6	135.2	133.0	130.8	128.8	126.8	125.7
73.5°	127.4	129.4	130.3	130.4	131.8	130.3	128.1	125.7	123.9	121.8	120.8
74°	122.4	124.5	125.3	125.5	126.8	125.4	123.2	120.8	118.8	116.8	115.9
74.5°	117.4	119.6	120.4	120.5	121.8	120.5	118.3	115.8	113.9	111.9	110.9
75°	112.3	114.4	115.3	115.4	116.8	115.5	113.4	110.8	108.9	106.9	105.9
75.5°	107.6	109.5	110.4	110.4	112.0	110.4	108.3	106.1	104.0	102.2	101.1
76°	102.6	104.7	105.6	105.5	106.9	105.6	103.4	101.2	99.2	97.3	96.1
76.5°	97.7	99.7	100.6	100.5	102.1	100.6	98.4	96.4	94.2	92.1	91.2
77°	92.8	94.9	95.9	95.7	97.1	95.8	93.6	91.5	89.3	87.4	86.3
77.5°	87.9	90.0	90.9	90.9	92.3	90.9	88.8	86.6	84.6	82.6	81.7
78°	83.2	85.2	86.0	86.2	87.4	86.2	84.0	81.8	79.6	78.0	76.9
78.5°	78.3	80.3	81.3	81.4	82.7	81.3	79.2	76.9	75.0	73.0	72.2
79°	73.7	75.7	76.6	76.7	77.9	76.5	74.5	72.3	70.2	68.4	67.7
79.5°	68.9	70.9	71.9	72.0	73.1	71.9	69.8	67.5	65.6	63.9	62.9
80°	64.3	66.2	67.1	67.2	68.5	67.4	65.1	62.9	61.1	59.5	58.5
80.5°	59.9	61.7	62.6	62.8	63.9	62.8	60.8	58.6	56.6	55.0	54.1
81°	55.4	57.2	58.1	58.3	59.7	58.4	56.3	54.1	52.3	50.6	49.9
81.5°	51.0	52.7	53.6	53.8	54.9	53.9	51.9	49.7	47.9	46.3	45.6
82°	46.5	48.4	49.2	49.2	50.5	49.4	47.8	45.5	43.5	42.1	41.3
82.5°	42.3	44.1	44.9	44.9	46.3	45.2	43.4	41.3	39.5	37.9	37.3
83°	38.4	40.0	40.7	40.8	42.2	41.1	39.3	37.3	35.5	34.0	33.4
83.5°	34.3	36.0	36.7	36.8	38.1	37.0	35.3	33.2	31.5	30.2	29.5
84°	30.5	32.1	32.7	32.9	34.0	33.0	31.3	29.4	27.7	26.6	25.8
84.5°	26.9	28.4	29.0	29.1	30.2	29.3	27.6	25.8	24.1	22.9	22.3
85°	23.3	24.8	25.3	25.3	26.6	25.6	24.0	22.2	20.7	19.4	18.9
85.5°	20.0	21.3	21.9	21.9	22.9	22.0	20.4	18.8	17.4	16.3	15.8
86°	16.9	18.2	18.6	18.7	19.6	18.6	17.2	15.7	14.5	13.4	13.0
86.5°	14.2	15.3	15.8	15.8	16.2	15.5	14.2	12.8	11.7	10.9	10.6
87°	11.4	12.6	13.0	13.0	13.5	12.7	11.6	10.4	9.3	8.5	8.2
87.5°	9.1	10.1	10.4	10.4	10.9	10.4	9.3	8.1	7.1	6.5	6.1
88°	6.8	7.7	8.1	8.1	8.6	8.0	7.1	6.0	5.1	4.5	4.4
88.5°	4.6	5.4	5.8	5.8	6.4	6.0	5.1	4.1	3.4	3.0	2.7
89°	3.2	3.8	4.0	3.9	4.6	4.1	3.3	2.6	2.0	1.6	1.5
89.5°	2.0	2.5	2.7	2.6	2.9	2.5	1.9	1.3	0.9	0.7	0.6

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



TEST NUMBER: P869714
CATALOG NUMBER: SMX18RLSFSD2W-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: P869714
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	559.3	559.3	559.3	559.3	559.3	559.3
0.5°	559.2	559.1	559.7	559.0	559.0	558.8
1°	558.7	558.8	559.3	558.6	558.9	558.8
1.5°	558.6	559.0	559.2	558.5	558.8	558.8
2°	558.4	559.0	558.9	558.3	558.8	558.6
2.5°	558.3	558.5	558.8	558.3	558.6	558.3
3°	557.9	558.1	558.8	557.8	558.6	557.9
3.5°	557.6	557.6	558.3	557.6	558.1	557.7
4°	557.6	557.1	557.8	557.6	557.6	557.5
4.5°	557.0	556.9	557.3	556.9	556.9	557.2
5°	556.7	556.7	557.0	556.2	556.4	557.1
5.5°	555.6	555.8	556.3	555.5	556.0	556.3
6°	555.0	555.2	555.6	555.4	555.8	555.7
6.5°	554.6	554.6	555.1	555.0	555.1	555.2
7°	554.1	553.9	554.5	554.2	554.7	554.6
7.5°	553.0	553.3	553.5	553.6	554.1	553.9
8°	552.4	552.3	552.8	552.7	553.2	553.2
8.5°	551.6	551.6	552.2	551.8	552.4	552.5
9°	550.6	550.6	551.5	551.2	551.5	551.7
9.5°	549.9	549.8	550.1	550.2	550.6	550.8
10°	549.1	549.1	549.2	549.0	549.8	550.1
10.5°	548.0	548.2	548.1	547.8	548.9	549.5
11°	546.8	547.0	547.2	547.1	548.1	548.5
11.5°	546.0	546.0	546.3	546.1	547.4	547.3
12°	544.8	544.7	545.6	544.9	546.2	546.4
12.5°	543.6	543.6	544.0	543.8	545.1	545.3
13°	542.4	542.6	543.1	543.0	544.0	544.2
13.5°	541.4	541.5	541.8	541.7	543.0	543.0
14°	539.9	540.1	540.7	540.6	541.9	542.4
14.5°	538.8	538.9	539.4	539.4	540.8	541.0
15°	537.5	537.5	538.0	537.9	539.4	539.3
15.5°	536.3	535.9	536.6	536.7	537.8	537.9
16°	535.0	534.4	535.3	535.1	536.3	536.3
16.5°	533.4	532.7	533.7	534.0	534.8	535.2
17°	531.9	530.9	531.9	532.8	533.3	533.6
17.5°	530.0	529.2	530.4	531.1	531.7	531.8
18°	528.4	527.6	528.5	529.5	530.0	530.4
18.5°	526.3	525.8	526.3	527.8	528.2	528.6
19°	524.4	524.1	524.5	526.4	526.4	526.8
19.5°	522.6	522.0	522.8	524.4	524.7	525.2
20°	520.8	520.2	521.3	522.6	523.1	523.4
20.5°	518.8	518.5	519.4	521.0	521.0	521.6
21°	517.0	516.5	517.5	519.2	519.1	519.8
21.5°	515.0	514.3	515.4	517.1	517.0	517.5
22°	513.1	512.2	513.1	514.9	514.9	515.6

TEST NUMBER: P869714
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	510.9	510.2	511.3	512.9	513.2	513.7
23°	509.0	508.2	509.4	510.8	511.5	511.9
23.5°	506.6	506.2	506.9	508.6	509.1	509.6
24°	504.5	504.0	504.6	506.1	506.6	507.6
24.5°	502.0	501.8	502.4	503.8	504.7	505.5
25°	499.9	499.7	500.7	501.7	502.7	503.3
25.5°	497.6	497.1	498.3	499.3	500.4	500.6
26°	495.2	494.8	496.1	496.9	498.2	498.5
26.5°	492.6	492.0	493.7	494.5	495.7	495.8
27°	490.3	489.7	491.2	492.2	493.2	493.6
27.5°	487.8	487.0	488.7	489.7	490.8	491.2
28°	485.4	484.7	486.4	487.2	488.6	488.8
28.5°	482.8	482.1	483.6	484.4	486.1	486.1
29°	480.4	479.4	481.0	482.0	483.5	483.5
29.5°	477.5	476.7	478.2	479.3	480.8	481.2
30°	474.8	474.2	475.7	476.7	478.2	478.7
30.5°	472.4	471.4	472.8	473.8	475.6	476.0
31°	469.5	468.7	470.1	471.1	473.1	473.2
31.5°	466.6	465.8	467.3	468.4	470.1	470.8
32°	463.7	462.8	464.8	465.8	467.5	467.9
32.5°	461.0	460.0	462.0	462.9	464.7	465.0
33°	458.1	457.4	459.2	460.1	462.1	462.3
33.5°	455.2	454.2	456.0	457.1	459.3	459.5
34°	452.4	451.1	453.1	454.2	456.4	456.4
34.5°	449.0	448.2	450.0	451.3	453.4	453.4
35°	445.9	445.3	447.1	448.0	450.3	450.3
35.5°	442.9	442.1	443.6	444.9	447.1	447.0
36°	439.8	439.1	440.8	442.1	444.2	444.3
36.5°	437.0	435.8	437.6	439.1	441.3	441.2
37°	433.9	432.6	434.4	435.8	438.0	438.2
37.5°	430.6	429.6	431.0	432.7	434.9	435.0
38°	426.9	426.2	427.7	429.3	431.5	431.3
38.5°	424.0	422.8	424.4	426.0	428.2	428.2
39°	420.7	419.6	421.1	422.8	424.9	425.0
39.5°	417.1	416.3	417.5	419.2	421.3	421.8
40°	413.8	412.7	414.5	416.0	417.9	418.1
40.5°	410.2	409.3	410.8	412.6	414.7	414.8
41°	406.6	405.9	407.3	408.9	410.7	411.7
41.5°	403.3	402.2	403.7	405.6	407.4	408.3
42°	399.7	398.6	400.3	402.0	403.7	404.6
42.5°	396.0	395.3	396.5	398.3	400.2	401.1
43°	392.7	391.7	393.1	394.7	396.7	397.5
43.5°	389.1	388.1	389.4	391.3	393.3	393.9
44°	385.1	384.3	385.7	387.7	389.8	390.5
44.5°	381.5	380.6	382.1	383.9	386.1	387.0

TEST NUMBER: P869714
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	377.9	376.7	378.3	380.4	382.2	383.1
45.5°	374.3	373.0	374.7	376.7	378.3	379.1
46°	370.2	369.0	370.9	372.7	374.5	375.8
46.5°	366.4	365.4	367.0	368.9	370.8	371.8
47°	362.6	361.3	362.9	364.9	367.0	368.2
47.5°	358.4	357.5	359.2	361.2	363.1	364.0
48°	354.5	353.4	355.0	357.2	359.1	360.3
48.5°	350.6	349.5	351.1	353.3	355.4	356.5
49°	346.6	345.8	347.2	349.3	351.6	352.4
49.5°	342.5	341.7	343.2	345.4	347.4	348.4
50°	338.5	337.5	339.0	341.3	343.5	344.5
50.5°	334.4	333.4	335.0	337.3	339.4	340.4
51°	330.3	329.4	330.8	333.3	335.4	336.2
51.5°	326.3	325.2	326.5	329.0	331.2	332.2
52°	321.9	320.9	322.5	324.7	327.0	328.1
52.5°	317.6	316.9	318.4	320.6	322.6	323.7
53°	313.7	312.5	314.2	316.3	318.7	319.2
53.5°	309.3	308.2	309.9	312.2	314.3	315.3
54°	304.9	303.9	305.5	307.7	309.9	311.2
54.5°	300.6	299.6	301.2	303.5	305.6	307.0
55°	296.6	295.4	297.1	299.2	301.2	302.4
55.5°	292.1	291.1	292.8	294.8	297.2	298.2
56°	287.6	286.7	288.3	290.7	292.9	294.0
56.5°	283.2	282.2	283.9	286.2	288.4	289.6
57°	279.0	277.7	279.4	281.8	283.8	285.0
57.5°	274.4	273.4	274.9	277.1	279.3	280.6
58°	269.8	268.8	270.4	272.7	274.8	276.2
58.5°	265.3	264.1	266.0	268.2	270.4	271.8
59°	260.8	259.6	261.4	263.5	265.8	267.1
59.5°	256.1	254.9	256.7	258.9	261.1	262.6
60°	251.6	250.3	252.2	254.4	256.5	258.0
60.5°	247.0	245.9	247.3	249.8	251.9	253.5
61°	242.4	241.2	242.9	245.1	247.3	249.0
61.5°	237.6	236.5	238.3	240.6	242.8	244.2
62°	233.0	231.9	233.6	235.8	238.0	239.5
62.5°	228.4	227.2	228.8	231.0	233.3	234.8
63°	223.5	222.3	224.0	226.1	228.5	230.1
63.5°	218.8	217.6	219.3	221.4	223.7	225.3
64°	213.9	212.7	214.3	216.7	219.0	220.7
64.5°	209.1	208.0	209.6	211.8	214.2	215.9
65°	204.4	203.3	204.8	206.8	209.4	211.1
65.5°	199.5	198.4	200.1	202.1	204.5	206.3
66°	194.7	193.6	195.1	197.3	199.7	201.6
66.5°	189.8	188.4	190.3	192.3	194.8	196.6
67°	184.8	183.7	185.3	187.4	189.9	191.8

TEST NUMBER: P869714
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	180.1	178.9	180.4	182.6	185.1	186.9
68°	175.2	173.7	175.5	177.6	180.3	181.9
68.5°	170.2	168.9	170.5	172.6	175.2	177.0
69°	165.3	163.9	165.5	167.7	170.2	172.2
69.5°	160.3	158.9	160.6	162.7	165.2	167.0
70°	155.5	154.0	155.8	157.8	160.2	162.1
70.5°	150.6	149.0	150.7	152.8	155.4	157.3
71°	145.6	144.1	145.9	148.0	150.4	152.2
71.5°	140.6	139.0	140.7	142.7	145.4	147.2
72°	135.6	134.2	135.6	137.8	140.3	142.3
72.5°	130.5	129.2	130.8	132.9	135.4	137.3
73°	125.6	124.2	125.7	127.8	130.3	132.3
73.5°	120.7	119.2	120.7	122.9	125.4	127.4
74°	115.8	114.2	115.7	117.9	120.3	122.4
74.5°	110.8	109.3	110.7	112.8	115.2	117.4
75°	105.9	104.4	105.9	108.0	110.3	112.3
75.5°	101.2	99.6	100.9	103.1	105.5	107.6
76°	96.1	94.6	96.0	98.1	100.5	102.6
76.5°	91.2	89.8	91.1	93.3	95.7	97.7
77°	86.3	84.9	86.4	88.5	90.8	92.8
77.5°	81.5	80.1	81.6	83.8	86.1	87.9
78°	76.8	75.4	76.9	78.9	81.3	83.2
78.5°	72.1	70.7	72.2	74.1	76.6	78.3
79°	67.5	66.0	67.5	69.5	71.9	73.7
79.5°	62.9	61.4	62.8	64.9	67.2	68.9
80°	58.4	57.0	58.3	60.4	62.5	64.3
80.5°	54.1	52.5	53.9	55.8	57.9	59.9
81°	49.8	48.2	49.4	51.4	53.5	55.4
81.5°	45.4	43.9	45.1	47.1	49.3	51.0
82°	41.2	39.8	40.9	42.9	44.8	46.5
82.5°	37.1	35.8	37.0	38.7	40.7	42.3
83°	33.3	31.9	33.1	34.8	36.8	38.4
83.5°	29.4	28.1	29.1	30.9	32.9	34.3
84°	25.7	24.5	25.6	27.2	29.0	30.5
84.5°	22.2	21.2	22.1	23.7	25.4	26.9
85°	18.8	18.0	18.9	20.4	21.9	23.3
85.5°	15.7	15.1	15.9	17.2	18.7	20.0
86°	12.9	12.3	13.1	14.4	15.8	16.9
86.5°	10.5	9.8	10.5	11.7	13.0	14.2
87°	8.3	7.5	8.2	9.2	10.4	11.4
87.5°	6.1	5.2	6.0	7.0	8.1	9.1
88°	4.3	3.7	4.0	4.8	5.8	6.8
88.5°	2.7	2.3	2.7	3.3	4.0	4.6
89°	1.5	1.4	1.7	2.2	2.7	3.2
89.5°	0.6	0.9	1.1	1.4	1.8	2.0

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869714
CATALOG NUMBER: SMX18RLSFSD2W-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)