

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: P869713

Luminaire Tested: **SMX18RLSFSD2W-1500LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869713
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFSD2W-1500LM-3500K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

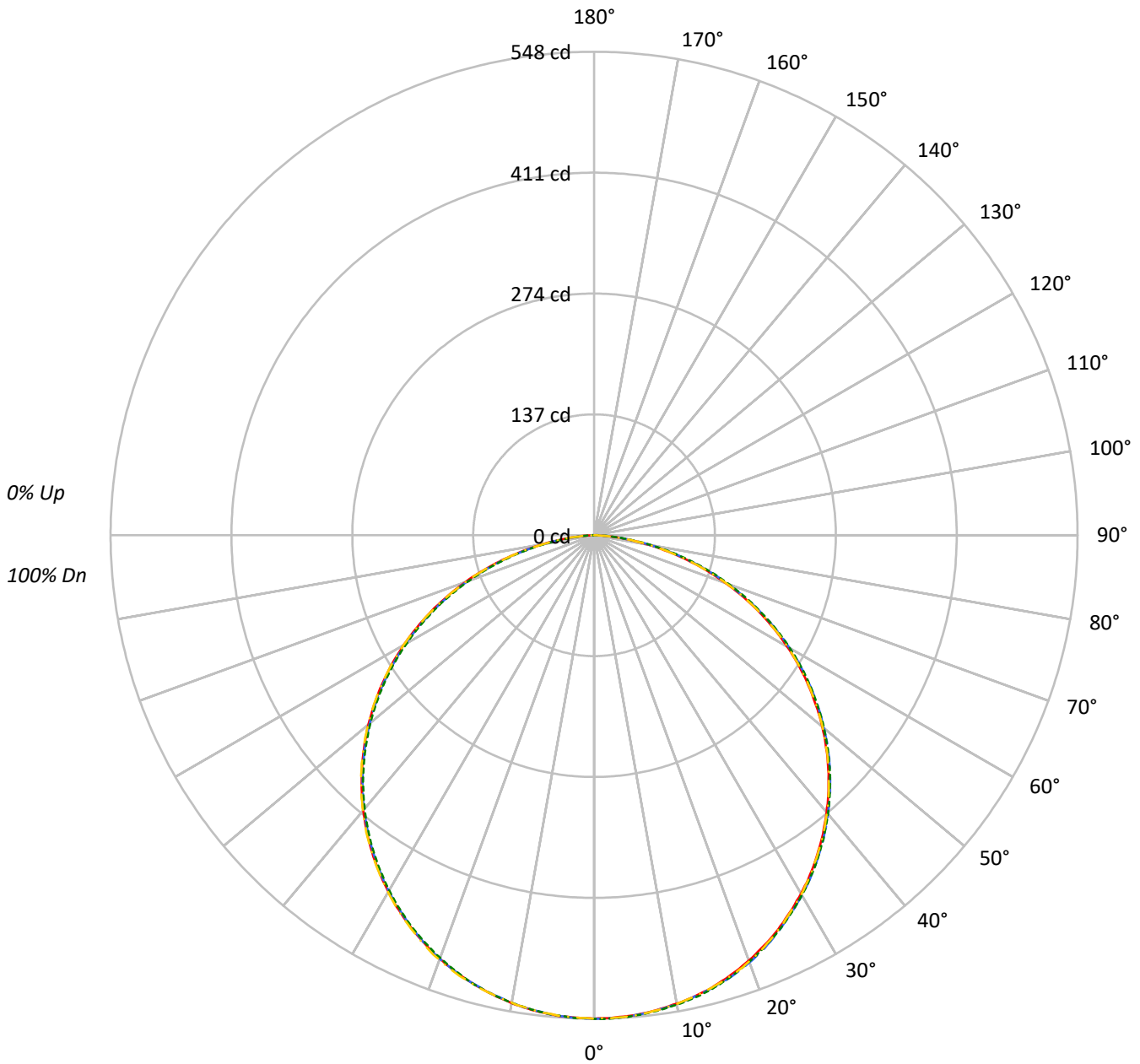
Lumens per Lamp: N/A
 Luminaire Lumens: 1599.8 lumens
 Efficiency: N/A
 Efficacy: 94.7 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 16.9
 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°	3339	3339	3339	3339
5°	3338	3340	3335	3335
10°	3334	3342	3331	3328
15°	3333	3342	3321	3322
20°	3325	3334	3312	3305
25°	3315	3325	3298	3291
30°	3299	3313	3281	3268
35°	3281	3298	3261	3245
40°	3258	3278	3235	3216
45°	3234	3255	3203	3180
50°	3199	3223	3164	3134
55°	3148	3182	3109	3074
60°	3081	3121	3037	2988
65°	2982	3034	2930	2872
70°	2830	2903	2766	2687
75°	2591	2695	2511	2408
80°	2210	2354	2101	1957
85°	1593	1824	1419	1230

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.2
10°-20°	149.1	9.3
20°-30°	226.9	14.2
30°-40°	275.6	17.2
40°-50°	288.5	18.0
50°-60°	263.5	16.5
60°-70°	202.7	12.7
70°-80°	114.7	7.2
80°-90°	27.0	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°	427.9	26.7
0°-40°	703.5	44.0
0°-60°	1255.5	78.5
0°-90°	1599.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1599.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	548	548	548	548	548	
5°	546	546	545	546	546	52
15°	528	530	527	527	528	149
25°	493	495	491	490	493	227
35°	441	444	438	436	441	276
45°	375	378	372	369	375	290
55°	296	300	293	290	296	265
65°	207	210	203	199	207	204
75°	110	114	107	102	110	116
85°	23	26	20	18	23	28
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°	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1
0.5°	547.6	548.0	548.0	548.0	548.4	548.7	548.0	548.2	547.5	548.0	548.1
1°	547.6	548.1	547.9	548.2	548.5	548.6	547.6	547.9	547.6	547.9	547.9
1.5°	547.6	548.3	547.9	547.9	548.3	548.3	547.9	547.7	547.4	547.9	547.8
2°	547.5	548.0	547.8	547.6	548.0	548.3	547.8	547.6	547.3	547.5	547.4
2.5°	547.1	547.9	547.6	547.6	548.0	548.0	547.5	547.1	547.2	547.5	547.4
3°	546.8	547.6	547.6	547.2	547.6	547.4	547.3	546.9	546.7	547.6	546.9
3.5°	546.6	547.2	547.4	547.2	547.3	547.1	547.2	546.8	546.8	547.2	546.8
4°	546.4	547.0	547.0	546.8	547.3	547.0	546.8	546.6	546.6	546.5	546.4
4.5°	546.1	546.3	546.4	546.7	546.6	546.8	546.6	546.2	546.0	546.1	546.0
5°	545.9	545.9	545.9	546.3	546.2	546.4	546.2	545.5	545.4	545.6	545.7
5.5°	545.2	545.8	545.8	546.0	545.9	546.2	545.8	545.2	545.0	545.0	545.1
6°	544.6	545.2	544.8	545.4	545.5	545.6	545.1	544.8	544.3	544.4	544.0
6.5°	544.1	544.6	544.4	544.8	544.8	545.1	544.4	544.4	544.0	543.6	543.4
7°	543.5	543.9	543.9	544.0	544.2	544.5	543.7	543.5	543.2	543.2	543.0
7.5°	542.8	543.2	543.3	543.6	544.0	543.7	543.4	542.6	542.6	542.5	542.3
8°	542.1	542.5	542.5	542.8	543.2	543.2	542.8	542.2	541.8	541.6	541.6
8.5°	541.4	542.0	542.0	542.1	542.5	542.6	541.7	541.4	541.2	540.9	540.9
9°	540.7	541.3	541.1	541.5	541.6	541.9	540.9	540.7	540.2	540.1	540.0
9.5°	539.7	540.6	540.5	540.8	540.9	541.2	540.4	539.8	539.5	539.1	539.1
10°	539.1	539.7	539.6	539.8	540.4	540.3	539.4	538.7	538.5	538.0	537.9
10.5°	538.5	538.8	538.7	539.3	539.6	539.4	538.3	538.0	537.3	537.1	536.9
11°	537.5	537.8	537.9	538.4	538.7	538.4	537.5	537.0	536.3	536.4	535.8
11.5°	536.4	536.9	536.9	537.5	537.9	537.6	536.5	535.7	535.3	535.6	534.8
12°	535.5	536.0	535.9	536.7	536.8	536.6	535.7	534.7	534.4	534.1	533.8
12.5°	534.4	534.9	534.7	535.6	536.1	535.6	534.7	533.5	532.9	532.9	532.8
13°	533.3	534.0	533.7	534.8	535.1	534.7	533.5	532.3	531.9	531.7	531.6
13.5°	532.1	532.8	532.9	533.5	533.9	533.5	532.4	531.5	530.6	530.3	530.5
14°	531.5	531.7	531.8	532.7	532.7	532.4	531.0	530.2	529.3	529.2	529.3
14.5°	530.1	530.3	530.7	531.6	531.6	531.3	530.1	528.8	528.2	527.6	527.7
15°	528.5	529.0	529.6	529.8	530.0	529.8	528.9	527.6	526.7	526.5	526.5
15.5°	527.2	527.9	528.2	528.8	529.0	528.6	527.6	526.0	525.3	525.2	525.3
16°	525.6	526.9	527.2	527.4	527.3	527.4	526.4	524.5	524.0	523.8	523.9
16.5°	524.5	525.4	526.1	526.0	526.0	526.0	524.7	523.4	522.5	522.4	522.3
17°	522.9	523.8	524.7	524.6	524.6	524.5	523.4	522.0	520.9	520.7	520.5
17.5°	521.2	522.4	523.2	523.2	523.0	522.9	522.2	520.3	519.7	519.0	519.2
18°	519.8	520.8	521.7	521.3	521.4	521.3	521.0	518.8	517.9	517.4	517.7
18.5°	518.1	519.0	520.3	519.7	519.4	519.6	519.2	516.9	516.1	515.8	515.9
19°	516.2	517.5	518.7	518.0	517.8	517.8	517.8	515.4	514.6	513.9	514.5
19.5°	514.7	515.8	516.9	516.2	516.3	516.2	515.7	513.8	512.7	512.1	512.8
20°	513.0	514.3	515.2	514.2	514.3	514.5	514.1	511.9	511.0	510.5	510.9
20.5°	511.2	512.2	513.6	512.6	512.5	512.3	512.1	510.1	509.4	508.7	509.1
21°	509.4	510.2	511.8	510.7	510.9	510.2	510.7	508.2	507.6	506.8	507.3
21.5°	507.2	508.3	509.9	509.0	508.7	508.7	508.6	506.5	505.4	504.7	505.4
22°	505.2	506.4	508.1	507.0	507.0	506.6	506.8	504.7	503.2	502.7	503.5

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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°	503.4	504.5	506.0	505.0	505.0	504.6	504.7	502.7	501.3	500.5	501.1
23°	501.6	502.7	503.7	503.2	503.0	502.8	502.4	500.5	499.2	498.7	498.9
23.5°	499.4	500.9	501.9	501.2	501.0	500.9	500.5	498.6	497.1	496.9	496.6
24°	497.4	498.8	499.6	499.1	499.0	498.4	498.4	496.7	495.2	494.3	494.4
24.5°	495.4	496.7	497.2	496.9	497.1	496.0	496.0	494.5	493.0	492.1	492.4
25°	493.2	494.4	495.1	494.9	494.7	494.3	493.8	492.5	490.7	489.9	489.7
25.5°	490.6	492.1	492.8	492.8	492.7	492.4	491.5	490.4	488.5	487.7	487.4
26°	488.5	490.1	490.4	490.5	490.4	489.8	489.2	488.1	486.1	485.6	485.5
26.5°	485.9	487.7	488.1	488.1	488.1	487.5	486.7	485.8	483.9	483.2	482.8
27°	483.7	485.6	485.7	485.9	485.5	485.4	484.3	483.4	481.4	481.1	480.4
27.5°	481.4	483.3	483.5	484.0	483.4	482.8	481.7	481.2	479.0	478.8	478.1
28°	479.0	480.8	481.2	481.5	481.2	480.6	479.3	478.6	476.9	476.4	475.7
28.5°	476.4	478.6	478.5	478.9	478.6	478.2	477.2	476.4	474.4	473.8	473.3
29°	473.8	476.3	476.0	476.4	476.3	475.7	474.6	474.0	471.8	471.2	470.7
29.5°	471.6	473.8	473.8	474.1	473.6	473.1	472.1	471.6	469.2	468.6	468.2
30°	469.1	471.2	471.3	471.7	471.0	470.6	469.8	468.9	466.5	466.1	465.3
30.5°	466.5	468.8	468.7	469.1	468.4	468.1	467.3	466.4	463.9	463.6	462.9
31°	463.8	466.2	466.1	466.3	466.1	465.5	464.4	463.7	461.3	460.6	460.3
31.5°	461.4	463.3	463.4	463.8	463.3	462.6	461.8	460.9	458.6	457.9	457.5
32°	458.5	460.4	460.7	461.4	460.5	459.8	459.0	458.2	455.8	455.5	454.6
32.5°	455.7	457.8	457.8	458.7	457.7	457.4	456.2	455.5	453.0	452.7	451.9
33°	453.1	455.0	455.0	455.8	455.1	454.6	453.5	452.6	450.2	450.0	449.0
33.5°	450.3	452.3	452.3	452.9	452.6	451.9	450.5	449.7	447.2	447.1	446.1
34°	447.3	449.6	449.6	450.1	449.6	449.0	447.5	447.2	444.6	444.2	443.0
34.5°	444.3	446.6	446.6	447.2	446.5	446.2	444.8	444.3	441.8	441.2	440.1
35°	441.3	443.8	443.5	444.4	443.5	443.3	441.7	441.0	438.5	438.2	437.2
35.5°	438.1	440.7	440.7	441.5	440.6	440.3	438.8	438.1	435.6	435.3	434.2
36°	435.4	437.9	437.6	438.5	437.5	437.3	435.7	435.0	432.5	432.2	431.1
36.5°	432.4	434.8	434.6	435.3	434.4	434.2	432.7	432.0	429.5	429.4	428.2
37°	429.4	431.8	431.7	432.1	431.6	431.3	429.7	429.0	426.4	426.1	424.8
37.5°	426.3	428.5	428.5	429.2	428.6	428.2	426.6	426.0	423.2	422.6	421.6
38°	422.7	425.3	425.3	426.1	425.3	424.9	423.4	422.9	420.0	419.4	418.4
38.5°	419.6	422.0	422.2	423.0	422.1	421.7	420.2	419.8	416.7	415.9	415.3
39°	416.5	419.0	419.0	419.8	419.0	418.7	416.8	416.4	413.5	412.9	412.1
39.5°	413.3	415.4	415.7	416.5	415.7	415.3	413.7	413.1	410.2	409.7	408.9
40°	409.8	412.1	412.5	413.0	412.3	412.1	410.5	409.7	406.9	406.2	405.4
40.5°	406.5	408.8	409.1	409.8	409.1	408.9	407.5	406.1	403.6	402.6	402.2
41°	403.4	405.5	405.8	406.4	405.7	405.5	403.9	402.5	400.2	399.4	398.6
41.5°	400.1	402.0	402.5	403.0	402.4	401.9	400.7	399.2	397.0	395.9	395.3
42°	396.5	398.4	399.2	399.6	399.0	398.6	397.1	395.7	393.4	392.3	391.7
42.5°	393.1	395.1	395.9	396.0	395.5	395.2	393.8	392.0	389.9	389.0	388.1
43°	389.6	391.5	392.3	392.4	392.0	391.6	390.1	388.7	386.2	385.6	384.8
43.5°	386.0	388.1	388.6	389.1	388.5	388.0	386.4	385.1	382.7	382.1	381.2
44°	382.7	384.7	385.3	385.4	385.0	384.8	382.9	381.6	379.1	378.6	377.6
44.5°	379.3	381.1	381.8	382.0	381.5	381.1	379.3	377.9	375.6	374.9	374.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	375.4	377.2	378.3	378.5	377.9	377.4	375.8	374.2	371.8	371.2	370.2
45.5°	371.6	373.7	374.6	374.8	374.1	373.8	372.2	370.6	368.3	367.2	366.7
46°	368.2	370.1	370.8	370.9	370.4	370.1	368.5	367.0	364.5	363.5	362.9
46.5°	364.4	366.4	367.4	367.1	366.8	366.5	365.0	363.1	360.5	359.8	359.3
47°	360.8	362.6	363.5	363.6	363.0	362.7	361.1	359.6	357.0	356.1	355.5
47.5°	356.7	358.8	359.8	359.9	359.4	359.0	357.2	356.0	353.1	352.3	351.5
48°	353.1	355.1	355.9	356.0	355.5	355.4	353.6	352.0	349.5	348.4	347.6
48.5°	349.4	351.4	352.2	352.0	351.6	351.4	349.8	347.9	345.4	344.5	343.9
49°	345.4	347.4	348.2	348.3	347.8	347.5	345.7	344.0	341.8	340.6	339.8
49.5°	341.5	343.4	344.3	344.5	343.9	343.8	341.9	340.2	337.9	336.7	336.1
50°	337.6	339.6	340.3	340.4	340.1	339.8	338.0	336.3	333.9	332.9	332.1
50.5°	333.6	335.8	336.5	336.6	336.3	335.7	334.0	332.3	329.8	328.7	328.1
51°	329.5	331.7	332.4	332.5	332.3	331.7	330.0	328.4	325.7	324.6	323.9
51.5°	325.6	327.8	328.5	328.6	328.2	327.8	325.8	324.4	321.8	320.8	319.9
52°	321.5	323.7	324.5	324.6	324.2	323.7	321.9	320.4	318.0	316.5	316.0
52.5°	317.2	319.6	320.2	320.4	320.0	319.8	318.0	316.4	313.7	312.5	311.7
53°	312.9	315.4	316.2	316.2	315.8	315.7	313.9	312.1	309.5	308.3	307.6
53.5°	309.0	311.3	312.1	312.2	311.9	311.5	309.7	308.0	305.3	304.2	303.5
54°	305.0	307.0	307.9	307.9	307.8	307.3	305.5	303.7	301.4	299.9	299.2
54.5°	300.9	302.8	303.8	303.7	303.8	303.3	301.4	299.6	297.2	295.5	294.9
55°	296.4	298.7	299.6	299.5	299.6	298.9	297.2	295.4	292.8	291.5	290.9
55.5°	292.3	294.4	295.4	295.2	295.3	294.8	293.0	291.5	288.6	287.5	286.4
56°	288.2	290.2	291.1	291.0	291.2	290.4	288.7	286.9	284.3	283.1	282.0
56.5°	283.8	285.8	286.8	286.7	286.9	286.1	284.3	282.8	279.9	278.6	277.7
57°	279.3	281.5	282.5	282.4	282.7	281.9	280.1	278.4	275.8	274.2	273.2
57.5°	275.0	277.2	278.2	278.0	278.3	277.4	275.6	274.0	271.3	269.8	269.0
58°	270.7	272.9	273.8	273.7	273.8	273.1	271.3	269.6	266.9	265.4	264.6
58.5°	266.4	268.6	269.6	269.3	269.4	268.8	266.9	265.3	262.6	261.1	260.2
59°	261.8	264.1	265.0	264.8	265.2	264.2	262.5	260.6	258.2	256.8	255.8
59.5°	257.4	259.5	260.6	260.4	260.7	259.8	257.9	256.2	253.7	251.9	251.2
60°	252.9	255.0	256.0	255.8	256.2	255.3	253.3	251.6	249.3	247.5	246.7
60.5°	248.4	250.5	251.5	251.4	251.8	250.9	249.0	247.2	244.7	243.1	242.3
61°	244.0	246.0	247.0	246.8	247.4	246.3	244.4	242.8	240.2	238.6	237.8
61.5°	239.4	241.4	242.5	242.4	242.9	241.7	239.9	238.3	235.7	234.0	233.2
62°	234.7	236.8	238.0	238.0	238.4	237.3	235.3	233.6	231.2	229.3	228.4
62.5°	230.1	232.4	233.3	233.3	233.7	232.7	230.7	228.9	226.4	224.8	223.8
63°	225.5	227.7	228.5	228.7	229.1	228.1	226.1	224.3	221.8	220.1	219.2
63.5°	220.8	222.9	223.9	224.0	224.6	223.6	221.6	219.8	217.2	215.4	214.5
64°	216.3	218.4	219.3	219.3	219.8	218.7	216.9	215.0	212.6	210.7	209.8
64.5°	211.6	213.8	214.6	214.9	215.3	214.2	212.2	210.3	207.9	206.1	205.0
65°	206.9	209.0	209.9	210.2	210.5	209.5	207.4	205.5	203.3	201.4	200.4
65.5°	202.2	204.3	205.2	205.3	205.7	204.8	202.8	200.9	198.6	196.7	195.8
66°	197.6	199.6	200.5	200.5	201.1	200.0	197.9	196.0	193.7	192.0	191.2
66.5°	192.7	194.8	195.8	195.8	196.5	195.2	193.4	191.3	189.1	187.2	186.3
67°	187.9	190.1	191.0	191.1	191.8	190.7	188.6	186.5	184.3	182.4	181.3

TEST NUMBER: P869713
 CATALOG NUMBER: SMX18RLSFS2W-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	183.2	185.2	186.1	186.3	187.1	185.8	183.9	181.7	179.5	177.5	176.6
68°	178.3	180.3	181.2	181.3	182.1	180.8	179.1	176.9	174.7	172.9	171.8
68.5°	173.5	175.7	176.5	176.8	177.6	176.1	174.3	172.0	170.0	168.2	167.1
69°	168.8	170.9	171.6	172.0	172.8	171.3	169.2	167.3	165.1	163.2	162.3
69.5°	163.7	166.0	166.8	166.9	167.8	166.5	164.5	162.6	160.4	158.3	157.3
70°	158.9	161.1	161.9	162.0	163.0	161.7	159.6	157.5	155.3	153.6	152.5
70.5°	154.1	156.1	156.9	157.3	158.3	156.9	154.8	152.7	150.6	148.7	147.6
71°	149.1	151.4	152.1	152.4	153.5	152.2	150.1	147.8	145.8	143.9	142.8
71.5°	144.2	146.5	147.3	147.5	148.6	147.2	145.1	142.9	140.8	139.0	138.0
72°	139.5	141.6	142.3	142.6	143.8	142.4	140.3	138.1	135.9	133.9	132.9
72.5°	134.6	136.6	137.4	137.6	138.9	137.5	135.5	133.1	130.9	129.1	128.1
73°	129.6	131.6	132.5	132.7	133.9	132.5	130.4	128.1	126.2	124.3	123.2
73.5°	124.8	126.8	127.7	127.8	129.2	127.7	125.6	123.2	121.4	119.3	118.4
74°	120.0	122.0	122.8	123.0	124.3	122.9	120.8	118.4	116.5	114.5	113.6
74.5°	115.1	117.2	118.0	118.1	119.3	118.1	116.0	113.5	111.6	109.7	108.6
75°	110.1	112.1	113.0	113.1	114.5	113.2	111.1	108.6	106.7	104.7	103.8
75.5°	105.4	107.3	108.2	108.2	109.7	108.2	106.2	104.0	101.9	100.1	99.1
76°	100.6	102.6	103.5	103.4	104.8	103.5	101.4	99.1	97.2	95.3	94.2
76.5°	95.8	97.7	98.6	98.5	100.1	98.6	96.5	94.4	92.3	90.3	89.4
77°	91.0	93.0	93.9	93.8	95.2	93.9	91.8	89.7	87.5	85.6	84.6
77.5°	86.2	88.2	89.1	89.1	90.5	89.1	87.1	84.8	82.9	80.9	80.0
78°	81.5	83.5	84.3	84.4	85.7	84.4	82.3	80.2	78.0	76.4	75.3
78.5°	76.8	78.7	79.7	79.8	81.1	79.6	77.6	75.3	73.5	71.6	70.7
79°	72.3	74.2	75.1	75.2	76.4	75.0	73.1	70.8	68.8	67.0	66.3
79.5°	67.6	69.4	70.4	70.5	71.7	70.4	68.4	66.2	64.3	62.6	61.7
80°	63.0	64.9	65.8	65.9	67.1	66.0	63.8	61.7	59.9	58.4	57.3
80.5°	58.7	60.5	61.3	61.6	62.6	61.5	59.6	57.4	55.5	53.9	53.0
81°	54.3	56.1	56.9	57.1	58.5	57.3	55.1	53.0	51.3	49.6	48.9
81.5°	50.0	51.7	52.6	52.7	53.8	52.8	50.9	48.7	46.9	45.4	44.7
82°	45.6	47.4	48.2	48.2	49.5	48.5	46.8	44.6	42.7	41.2	40.5
82.5°	41.5	43.2	44.0	44.0	45.4	44.3	42.6	40.5	38.7	37.2	36.6
83°	37.6	39.2	39.9	40.0	41.4	40.3	38.5	36.6	34.8	33.4	32.7
83.5°	33.6	35.2	36.0	36.1	37.3	36.2	34.6	32.6	30.9	29.6	28.9
84°	29.9	31.5	32.1	32.2	33.3	32.4	30.7	28.8	27.1	26.0	25.3
84.5°	26.3	27.8	28.4	28.5	29.6	28.7	27.0	25.3	23.6	22.4	21.9
85°	22.8	24.3	24.8	24.8	26.1	25.1	23.5	21.7	20.3	19.0	18.5
85.5°	19.6	20.9	21.5	21.5	22.4	21.6	20.0	18.4	17.0	16.0	15.4
86°	16.6	17.8	18.2	18.3	19.2	18.2	16.8	15.4	14.2	13.2	12.7
86.5°	13.9	15.0	15.4	15.4	15.9	15.2	14.0	12.5	11.4	10.7	10.4
87°	11.2	12.4	12.7	12.7	13.3	12.5	11.4	10.2	9.2	8.4	8.1
87.5°	8.9	9.9	10.2	10.2	10.6	10.2	9.2	8.0	7.0	6.3	6.0
88°	6.7	7.6	8.0	7.9	8.5	7.8	6.9	5.8	5.0	4.4	4.3
88.5°	4.5	5.3	5.7	5.7	6.3	5.8	5.0	4.1	3.3	2.9	2.6
89°	3.1	3.7	3.9	3.8	4.5	4.0	3.3	2.5	1.9	1.6	1.5
89.5°	2.0	2.5	2.6	2.5	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: P869713
CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3500K

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: P869713
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	548.1	548.1	548.1	548.1	548.1	548.1
0.5°	548.0	547.9	548.5	547.8	547.8	547.6
1°	547.5	547.6	548.2	547.4	547.7	547.6
1.5°	547.5	547.8	548.0	547.4	547.6	547.6
2°	547.2	547.8	547.7	547.2	547.6	547.5
2.5°	547.1	547.4	547.6	547.1	547.5	547.1
3°	546.7	546.9	547.6	546.6	547.4	546.8
3.5°	546.5	546.5	547.1	546.5	547.0	546.6
4°	546.5	545.9	546.6	546.4	546.4	546.4
4.5°	545.9	545.8	546.2	545.8	545.8	546.1
5°	545.5	545.5	545.9	545.1	545.2	545.9
5.5°	544.5	544.7	545.2	544.4	544.9	545.2
6°	543.9	544.1	544.5	544.3	544.7	544.6
6.5°	543.5	543.5	544.0	543.9	544.0	544.1
7°	543.1	542.8	543.4	543.1	543.6	543.5
7.5°	541.9	542.2	542.4	542.5	543.0	542.8
8°	541.3	541.2	541.7	541.6	542.1	542.1
8.5°	540.6	540.5	541.2	540.7	541.3	541.4
9°	539.6	539.6	540.5	540.1	540.4	540.7
9.5°	538.9	538.8	539.1	539.2	539.6	539.7
10°	538.1	538.1	538.2	538.0	538.8	539.1
10.5°	537.1	537.2	537.2	536.8	537.9	538.5
11°	535.9	536.0	536.3	536.1	537.2	537.5
11.5°	535.1	535.1	535.4	535.2	536.4	536.4
12°	533.9	533.9	534.7	534.0	535.3	535.5
12.5°	532.7	532.8	533.1	532.9	534.2	534.4
13°	531.6	531.7	532.3	532.1	533.1	533.3
13.5°	530.5	530.7	531.0	530.8	532.1	532.1
14°	529.1	529.3	529.9	529.8	531.1	531.5
14.5°	528.0	528.1	528.6	528.6	530.0	530.1
15°	526.8	526.8	527.3	527.1	528.6	528.5
15.5°	525.6	525.2	525.9	526.0	527.0	527.2
16°	524.3	523.7	524.6	524.4	525.6	525.6
16.5°	522.7	522.1	523.0	523.3	524.1	524.5
17°	521.3	520.3	521.3	522.2	522.6	522.9
17.5°	519.4	518.6	519.8	520.5	521.1	521.2
18°	517.8	517.0	517.9	518.9	519.4	519.8
18.5°	515.8	515.3	515.8	517.3	517.7	518.1
19°	513.9	513.6	514.0	515.9	515.9	516.2
19.5°	512.2	511.5	512.3	513.9	514.2	514.7
20°	510.4	509.8	510.9	512.1	512.7	513.0
20.5°	508.5	508.1	509.0	510.6	510.6	511.2
21°	506.6	506.2	507.1	508.9	508.7	509.4
21.5°	504.7	504.0	505.1	506.7	506.6	507.2
22°	502.8	501.9	502.8	504.6	504.6	505.2

TEST NUMBER: P869713
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	500.7	500.0	501.1	502.6	503.0	503.4
23°	498.8	498.0	499.2	500.6	501.2	501.6
23.5°	496.4	496.0	496.8	498.4	498.9	499.4
24°	494.4	493.9	494.6	496.0	496.5	497.4
24.5°	492.0	491.7	492.3	493.8	494.6	495.4
25°	489.9	489.7	490.7	491.6	492.7	493.2
25.5°	487.7	487.2	488.4	489.3	490.4	490.6
26°	485.3	484.9	486.1	487.0	488.2	488.5
26.5°	482.8	482.2	483.8	484.6	485.8	485.9
27°	480.5	479.9	481.4	482.3	483.3	483.7
27.5°	478.1	477.3	478.9	479.9	481.0	481.4
28°	475.7	475.0	476.7	477.5	478.8	479.0
28.5°	473.1	472.5	474.0	474.8	476.4	476.4
29°	470.8	469.8	471.4	472.4	473.8	473.8
29.5°	468.0	467.1	468.6	469.7	471.2	471.6
30°	465.3	464.7	466.2	467.2	468.6	469.1
30.5°	462.9	462.0	463.4	464.3	466.1	466.5
31°	460.1	459.3	460.7	461.7	463.7	463.8
31.5°	457.3	456.5	457.9	459.0	460.7	461.4
32°	454.4	453.6	455.5	456.5	458.2	458.5
32.5°	451.8	450.8	452.7	453.6	455.4	455.7
33°	449.0	448.2	450.0	450.9	452.8	453.1
33.5°	446.1	445.1	446.9	447.9	450.2	450.3
34°	443.4	442.1	444.0	445.1	447.2	447.3
34.5°	440.0	439.2	441.0	442.3	444.3	444.3
35°	437.0	436.4	438.1	439.1	441.3	441.3
35.5°	434.1	433.3	434.8	436.0	438.1	438.1
36°	431.1	430.3	432.0	433.2	435.3	435.4
36.5°	428.2	427.1	428.9	430.3	432.5	432.4
37°	425.2	424.0	425.7	427.1	429.3	429.4
37.5°	422.0	421.0	422.4	424.1	426.2	426.3
38°	418.4	417.7	419.2	420.7	422.9	422.7
38.5°	415.5	414.3	415.9	417.4	419.6	419.6
39°	412.3	411.2	412.6	414.3	416.4	416.5
39.5°	408.8	407.9	409.1	410.9	412.9	413.3
40°	405.5	404.5	406.2	407.7	409.5	409.8
40.5°	402.0	401.1	402.6	404.3	406.4	406.5
41°	398.4	397.8	399.1	400.7	402.5	403.4
41.5°	395.2	394.2	395.6	397.5	399.2	400.1
42°	391.7	390.7	392.3	394.0	395.6	396.5
42.5°	388.1	387.3	388.6	390.3	392.2	393.1
43°	384.9	383.9	385.2	386.8	388.7	389.6
43.5°	381.3	380.4	381.6	383.5	385.5	386.0
44°	377.4	376.6	378.0	380.0	382.0	382.7
44.5°	373.9	373.0	374.4	376.2	378.4	379.3

TEST NUMBER: P869713

CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	370.3	369.2	370.8	372.8	374.6	375.4
45.5°	366.8	365.5	367.2	369.2	370.7	371.6
46°	362.7	361.7	363.5	365.2	367.0	368.2
46.5°	359.0	358.1	359.7	361.5	363.4	364.4
47°	355.3	354.1	355.7	357.6	359.7	360.8
47.5°	351.2	350.3	352.0	354.0	355.8	356.7
48°	347.4	346.3	347.9	350.0	351.9	353.1
48.5°	343.6	342.5	344.1	346.3	348.3	349.4
49°	339.6	338.9	340.3	342.3	344.6	345.4
49.5°	335.7	334.8	336.3	338.5	340.5	341.5
50°	331.7	330.7	332.2	334.4	336.6	337.6
50.5°	327.7	326.8	328.3	330.6	332.6	333.6
51°	323.7	322.8	324.2	326.6	328.7	329.5
51.5°	319.7	318.7	320.0	322.4	324.5	325.6
52°	315.5	314.5	316.1	318.2	320.4	321.5
52.5°	311.3	310.5	312.1	314.2	316.2	317.2
53°	307.4	306.3	307.9	310.0	312.3	312.9
53.5°	303.1	302.1	303.7	305.9	308.0	309.0
54°	298.8	297.8	299.4	301.6	303.7	305.0
54.5°	294.6	293.6	295.2	297.4	299.5	300.9
55°	290.7	289.5	291.1	293.2	295.2	296.4
55.5°	286.3	285.2	286.9	289.0	291.3	292.3
56°	281.9	281.0	282.5	284.9	287.0	288.2
56.5°	277.5	276.6	278.2	280.5	282.6	283.8
57°	273.4	272.1	273.8	276.1	278.1	279.3
57.5°	268.9	267.9	269.4	271.6	273.7	275.0
58°	264.4	263.4	265.0	267.2	269.3	270.7
58.5°	260.0	258.9	260.7	262.8	265.0	266.4
59°	255.6	254.5	256.2	258.2	260.5	261.8
59.5°	251.0	249.8	251.6	253.8	255.9	257.4
60°	246.6	245.3	247.1	249.3	251.4	252.9
60.5°	242.1	241.0	242.3	244.8	246.8	248.4
61°	237.5	236.4	238.0	240.2	242.3	244.0
61.5°	232.9	231.8	233.5	235.7	237.9	239.4
62°	228.3	227.2	228.9	231.1	233.3	234.7
62.5°	223.8	222.6	224.3	226.4	228.6	230.1
63°	219.0	217.9	219.5	221.6	224.0	225.5
63.5°	214.5	213.3	214.9	216.9	219.3	220.8
64°	209.7	208.4	210.1	212.4	214.6	216.3
64.5°	204.9	203.8	205.4	207.5	209.9	211.6
65°	200.3	199.3	200.7	202.7	205.3	206.9
65.5°	195.5	194.4	196.1	198.0	200.4	202.2
66°	190.8	189.8	191.2	193.4	195.7	197.6
66.5°	186.0	184.7	186.5	188.5	190.9	192.7
67°	181.1	180.0	181.6	183.6	186.2	187.9

TEST NUMBER: P869713
 CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	176.5	175.3	176.8	178.9	181.4	183.2
68°	171.7	170.2	172.0	174.1	176.7	178.3
68.5°	166.8	165.6	167.0	169.2	171.7	173.5
69°	162.0	160.6	162.2	164.3	166.8	168.8
69.5°	157.1	155.7	157.4	159.4	161.9	163.7
70°	152.3	150.9	152.7	154.7	157.0	158.9
70.5°	147.6	146.0	147.7	149.7	152.3	154.1
71°	142.7	141.2	143.0	145.0	147.4	149.1
71.5°	137.8	136.3	137.9	139.9	142.4	144.2
72°	132.9	131.5	132.9	135.0	137.5	139.5
72.5°	127.9	126.6	128.1	130.2	132.7	134.6
73°	123.1	121.7	123.2	125.3	127.7	129.6
73.5°	118.3	116.8	118.2	120.4	122.9	124.8
74°	113.5	111.9	113.4	115.6	117.8	120.0
74.5°	108.6	107.1	108.5	110.6	112.9	115.1
75°	103.8	102.3	103.8	105.8	108.1	110.1
75.5°	99.1	97.6	98.9	101.1	103.4	105.4
76°	94.2	92.7	94.1	96.2	98.5	100.6
76.5°	89.4	88.0	89.3	91.4	93.8	95.8
77°	84.6	83.2	84.7	86.7	89.0	91.0
77.5°	79.9	78.5	80.0	82.1	84.4	86.2
78°	75.2	73.9	75.3	77.3	79.7	81.5
78.5°	70.7	69.3	70.7	72.7	75.1	76.8
79°	66.1	64.6	66.1	68.1	70.5	72.3
79.5°	61.6	60.2	61.6	63.6	65.8	67.6
80°	57.3	55.8	57.1	59.2	61.3	63.0
80.5°	53.0	51.5	52.8	54.7	56.7	58.7
81°	48.8	47.2	48.5	50.4	52.5	54.3
81.5°	44.5	43.0	44.2	46.2	48.3	50.0
82°	40.3	39.0	40.1	42.0	43.9	45.6
82.5°	36.4	35.1	36.3	37.9	39.9	41.5
83°	32.6	31.2	32.4	34.2	36.0	37.6
83.5°	28.8	27.6	28.5	30.3	32.2	33.6
84°	25.2	24.0	25.1	26.7	28.4	29.9
84.5°	21.8	20.8	21.7	23.2	24.9	26.3
85°	18.4	17.6	18.5	20.0	21.5	22.8
85.5°	15.4	14.8	15.6	16.8	18.4	19.6
86°	12.6	12.1	12.9	14.1	15.5	16.6
86.5°	10.3	9.6	10.3	11.4	12.8	13.9
87°	8.1	7.3	8.0	9.0	10.2	11.2
87.5°	6.0	5.1	5.8	6.9	8.0	8.9
88°	4.2	3.6	3.9	4.7	5.7	6.7
88.5°	2.7	2.3	2.7	3.3	3.9	4.5
89°	1.5	1.4	1.7	2.2	2.6	3.1
89.5°	0.6	0.9	1.1	1.4	1.7	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: P869713
CATALOG NUMBER: SMX18RLSFSD2W-1500LM-3500K

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)