

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: P869718

Luminaire Tested: **SMX18RLSFSD2W-2000LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869718
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFSD2W-2000LM-3500K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

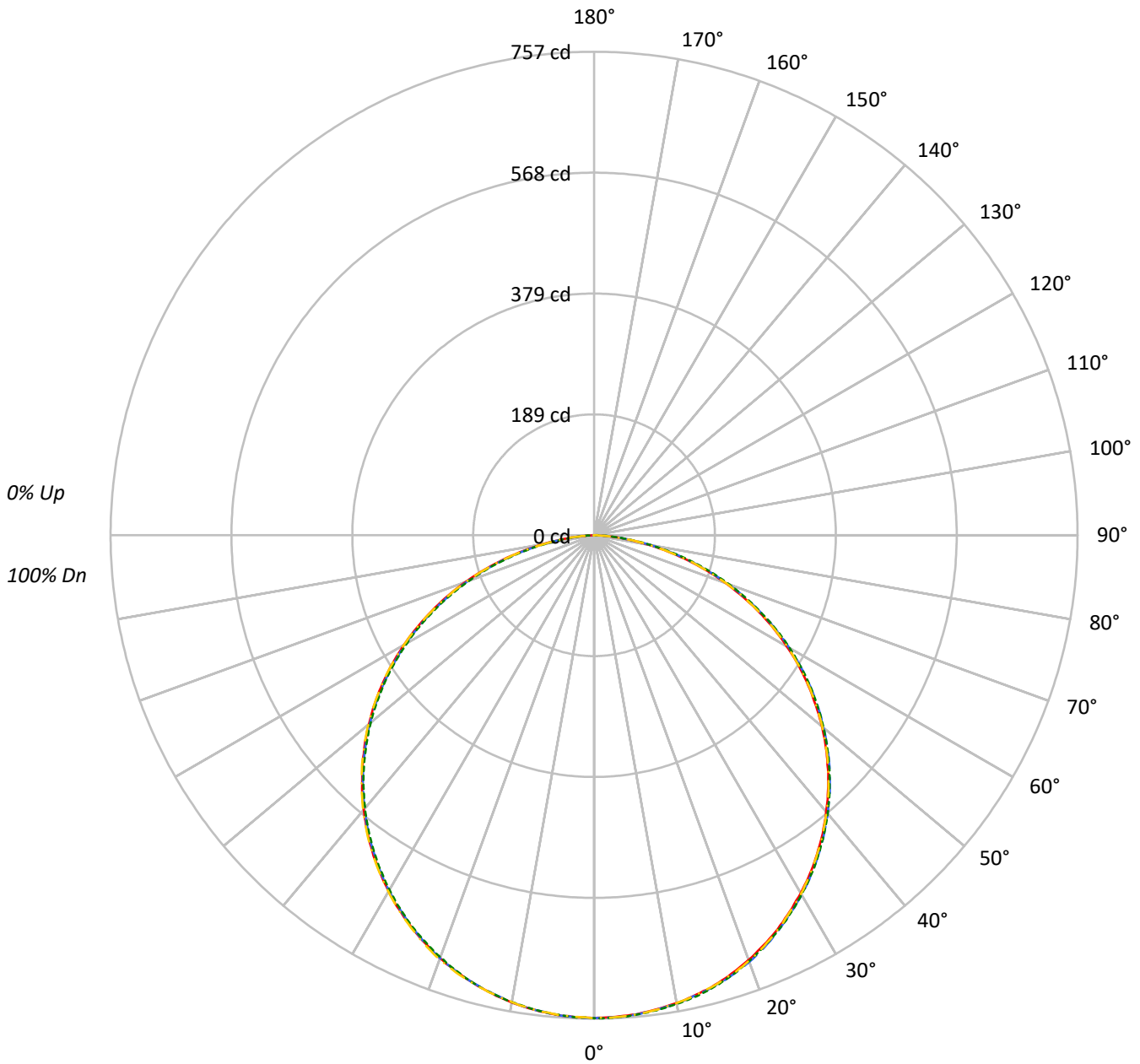
Lumens per Lamp: N/A
 Luminaire Lumens: 2206.8 lumens
 Efficiency: N/A
 Efficacy: 92.0 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4606	4606	4606	4606
5°	4605	4607	4600	4601
10°	4600	4610	4595	4591
15°	4598	4610	4581	4582
20°	4587	4599	4569	4559
25°	4573	4586	4549	4540
30°	4551	4570	4526	4509
35°	4526	4549	4498	4476
40°	4494	4523	4463	4436
45°	4461	4491	4418	4387
50°	4413	4445	4364	4323
55°	4341	4389	4290	4240
60°	4249	4305	4189	4122
65°	4113	4185	4041	3962
70°	3902	4004	3815	3708
75°	3573	3716	3464	3323
80°	3052	3248	2897	2701
85°	2201	2516	1950	1698

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.2
10°-20°	205.6	9.3
20°-30°	313.1	14.2
30°-40°	380.2	17.2
40°-50°	397.9	18.0
50°-60°	363.5	16.5
60°-70°	279.6	12.7
70°-80°	158.2	7.2
80°-90°	37.3	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°	590.2	26.7
0°-40°	970.4	44.0
0°-60°	1731.8	78.5
0°-90°	2206.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2206.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	756	756	756	756	756	
5°	753	754	752	752	753	72
15°	729	731	726	727	729	206
25°	680	682	677	676	680	313
35°	609	612	605	602	609	381
45°	518	521	513	509	518	399
55°	409	413	404	399	409	365
65°	285	290	280	275	285	282
75°	152	158	147	141	152	161
85°	32	36	28	24	32	39
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°	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1
0.5°	755.4	756.0	755.9	756.0	756.5	756.9	756.0	756.2	755.3	755.9	756.1
1°	755.4	756.1	755.8	756.2	756.6	756.7	755.4	755.8	755.4	755.7	755.8
1.5°	755.4	756.4	755.7	755.7	756.3	756.3	755.8	755.5	755.1	755.7	755.7
2°	755.2	756.0	755.6	755.4	756.0	756.3	755.7	755.3	755.0	755.3	755.0
2.5°	754.7	755.8	755.4	755.3	756.0	755.9	755.3	754.7	754.9	755.2	755.0
3°	754.2	755.4	755.4	754.9	755.4	755.1	755.0	754.4	754.1	755.3	754.4
3.5°	753.9	754.9	755.1	754.9	755.0	754.6	754.9	754.2	754.2	754.8	754.2
4°	753.7	754.5	754.5	754.3	755.0	754.5	754.2	753.9	753.9	753.8	753.8
4.5°	753.3	753.6	753.8	754.2	754.0	754.3	753.9	753.5	753.2	753.3	753.2
5°	753.1	753.0	753.1	753.5	753.5	753.7	753.4	752.4	752.3	752.7	752.7
5.5°	752.0	752.8	752.8	753.2	753.1	753.4	752.9	752.0	751.7	751.8	751.9
6°	751.2	752.1	751.6	752.3	752.5	752.6	751.9	751.6	750.8	750.9	750.4
6.5°	750.5	751.2	751.0	751.5	751.6	752.0	750.9	750.9	750.5	749.8	749.6
7°	749.7	750.2	750.3	750.5	750.6	751.1	750.0	749.7	749.3	749.3	749.0
7.5°	748.7	749.3	749.4	749.9	750.4	750.0	749.6	748.5	748.5	748.4	748.1
8°	747.8	748.4	748.3	748.7	749.3	749.3	748.8	747.9	747.4	747.1	747.1
8.5°	746.8	747.7	747.6	747.8	748.3	748.5	747.2	746.8	746.5	746.2	746.1
9°	745.8	746.7	746.4	746.9	747.1	747.5	746.2	745.8	745.2	745.0	744.9
9.5°	744.5	745.7	745.6	746.0	746.2	746.5	745.4	744.6	744.1	743.7	743.6
10°	743.7	744.5	744.3	744.6	745.4	745.2	744.1	743.1	742.9	742.2	742.0
10.5°	742.8	743.2	743.1	743.9	744.4	744.1	742.6	742.1	741.1	740.9	740.7
11°	741.5	741.9	741.9	742.6	743.0	742.7	741.4	740.7	739.8	740.0	739.1
11.5°	739.9	740.6	740.6	741.5	742.0	741.6	740.1	738.9	738.4	738.8	737.7
12°	738.7	739.4	739.2	740.3	740.5	740.2	738.9	737.6	737.1	736.7	736.3
12.5°	737.1	737.8	737.5	738.8	739.6	738.8	737.6	735.9	735.1	735.1	735.0
13°	735.7	736.6	736.2	737.7	738.1	737.5	735.9	734.3	733.7	733.4	733.3
13.5°	734.0	734.9	735.1	735.9	736.4	735.9	734.4	733.1	731.9	731.5	731.8
14°	733.2	733.4	733.6	734.8	734.8	734.4	732.5	731.4	730.2	730.0	730.2
14.5°	731.3	731.5	732.1	733.3	733.3	732.9	731.2	729.4	728.7	727.8	728.0
15°	729.1	729.7	730.5	730.9	731.1	730.9	729.6	727.7	726.5	726.3	726.3
15.5°	727.2	728.2	728.7	729.4	729.8	729.2	727.7	725.5	724.6	724.4	724.6
16°	725.0	726.8	727.3	727.6	727.4	727.6	726.1	723.5	722.8	722.6	722.7
16.5°	723.5	724.8	725.8	725.6	725.5	725.5	723.8	722.0	720.8	720.5	720.5
17°	721.3	722.6	723.8	723.6	723.7	723.5	722.0	720.0	718.5	718.3	718.0
17.5°	719.0	720.5	721.7	721.7	721.4	721.3	720.3	717.7	716.8	716.0	716.1
18°	717.1	718.4	719.7	719.0	719.2	719.0	718.7	715.6	714.5	713.8	714.1
18.5°	714.6	716.0	717.7	716.9	716.5	716.8	716.1	713.0	711.9	711.6	711.6
19°	712.1	713.9	715.5	714.5	714.3	714.2	714.2	711.0	709.8	708.9	709.7
19.5°	710.0	711.6	713.0	712.1	712.3	712.1	711.4	708.8	707.2	706.3	707.4
20°	707.6	709.4	710.7	709.3	709.5	709.7	709.1	706.1	704.8	704.2	704.8
20.5°	705.2	706.5	708.5	707.1	707.0	706.7	706.4	703.6	702.7	701.7	702.2
21°	702.6	703.7	706.0	704.5	704.7	703.8	704.5	701.1	700.2	699.1	699.7
21.5°	699.6	701.1	703.4	702.2	701.8	701.7	701.6	698.7	697.1	696.2	697.2
22°	697.0	698.5	700.8	699.3	699.3	698.8	699.1	696.2	694.1	693.4	694.5

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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°	694.4	695.9	698.0	696.6	696.6	696.0	696.2	693.5	691.5	690.4	691.3
23°	692.0	693.5	694.8	694.1	693.8	693.6	693.0	690.4	688.7	687.9	688.2
23.5°	688.9	691.0	692.3	691.4	691.1	691.0	690.4	687.7	685.7	685.4	685.0
24°	686.1	688.0	689.2	688.4	688.3	687.6	687.5	685.1	683.1	681.9	682.0
24.5°	683.4	685.2	685.9	685.4	685.7	684.2	684.2	682.1	680.0	678.9	679.3
25°	680.4	682.0	682.9	682.7	682.4	681.8	681.2	679.4	676.8	675.8	675.6
25.5°	676.7	678.8	679.7	679.8	679.6	679.2	678.0	676.5	673.8	672.8	672.3
26°	673.9	676.0	676.5	676.7	676.4	675.6	674.8	673.3	670.5	669.8	669.6
26.5°	670.3	672.8	673.4	673.3	673.4	672.5	671.4	670.1	667.5	666.6	666.0
27°	667.3	669.8	670.0	670.3	669.7	669.6	668.1	666.8	664.0	663.6	662.7
27.5°	664.0	666.7	666.9	667.6	666.8	665.9	664.5	663.7	660.7	660.5	659.5
28°	660.8	663.2	663.8	664.2	663.7	662.9	661.1	660.2	657.8	657.2	656.2
28.5°	657.1	660.2	660.0	660.7	660.3	659.7	658.2	657.1	654.4	653.6	652.9
29°	653.6	657.0	656.5	657.2	657.0	656.2	654.7	653.8	650.9	650.0	649.3
29.5°	650.5	653.5	653.5	654.0	653.2	652.6	651.3	650.5	647.2	646.4	645.9
30°	647.1	650.0	650.2	650.6	649.7	649.1	648.0	646.8	643.5	643.0	641.9
30.5°	643.5	646.7	646.5	647.1	646.1	645.7	644.6	643.4	639.9	639.5	638.6
31°	639.7	643.1	643.0	643.3	642.9	642.1	640.6	639.7	636.3	635.4	634.9
31.5°	636.4	639.0	639.2	639.8	639.0	638.2	637.1	635.7	632.6	631.6	631.1
32°	632.5	635.1	635.6	636.4	635.2	634.3	633.2	632.0	628.8	628.3	627.0
32.5°	628.6	631.5	631.5	632.7	631.4	631.0	629.2	628.4	624.9	624.5	623.4
33°	625.0	627.7	627.6	628.8	627.8	627.0	625.5	624.3	621.0	620.8	619.4
33.5°	621.1	623.9	624.0	624.7	624.4	623.3	621.4	620.3	616.9	616.8	615.4
34°	617.0	620.2	620.2	620.9	620.2	619.4	617.3	616.9	613.3	612.7	611.1
34.5°	612.9	616.1	616.0	616.9	615.9	615.5	613.5	612.8	609.4	608.6	607.1
35°	608.7	612.1	611.7	613.0	611.7	611.5	609.3	608.3	604.9	604.5	603.0
35.5°	604.3	607.9	607.9	609.0	607.8	607.4	605.3	604.3	600.8	600.5	598.9
36°	600.6	604.0	603.6	604.9	603.5	603.2	601.1	600.0	596.7	596.2	594.7
36.5°	596.4	599.7	599.5	600.5	599.2	598.9	596.9	595.9	592.5	592.3	590.7
37°	592.3	595.6	595.5	596.1	595.3	595.0	592.7	591.8	588.1	587.7	585.9
37.5°	588.1	591.1	591.1	592.1	591.3	590.7	588.5	587.6	583.8	582.9	581.5
38°	583.1	586.6	586.6	587.7	586.7	586.2	584.0	583.3	579.4	578.6	577.2
38.5°	578.8	582.1	582.4	583.6	582.3	581.7	579.7	579.1	574.8	573.7	572.8
39°	574.6	578.0	578.0	579.1	578.0	577.6	575.0	574.4	570.5	569.6	568.4
39.5°	570.1	573.1	573.5	574.5	573.5	572.8	570.6	569.9	565.8	565.2	564.0
40°	565.2	568.5	569.0	569.7	568.8	568.4	566.3	565.2	561.3	560.4	559.2
40.5°	560.7	563.9	564.4	565.2	564.3	564.1	562.1	560.2	556.7	555.4	554.8
41°	556.5	559.3	559.7	560.6	559.6	559.3	557.1	555.2	552.1	551.0	549.8
41.5°	551.9	554.5	555.2	555.9	555.1	554.4	552.7	550.7	547.6	546.1	545.3
42°	546.9	549.6	550.6	551.2	550.4	549.9	547.8	545.8	542.7	541.2	540.3
42.5°	542.2	545.0	546.1	546.3	545.5	545.1	543.2	540.8	537.8	536.6	535.4
43°	537.4	540.0	541.1	541.3	540.7	540.2	538.1	536.1	532.7	531.9	530.8
43.5°	532.4	535.3	536.0	536.7	535.9	535.3	533.0	531.2	527.8	527.1	525.9
44°	527.8	530.6	531.5	531.6	531.1	530.8	528.2	526.4	522.9	522.2	520.8
44.5°	523.2	525.7	526.7	526.9	526.3	525.6	523.3	521.2	518.1	517.2	515.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	517.9	520.3	521.8	522.1	521.3	520.7	518.4	516.2	512.9	512.0	510.7
45.5°	512.5	515.5	516.7	517.0	516.0	515.7	513.5	511.3	508.0	506.5	505.8
46°	508.0	510.5	511.5	511.7	511.0	510.6	508.4	506.2	502.8	501.5	500.6
46.5°	502.7	505.4	506.8	506.4	506.0	505.5	503.5	500.9	497.3	496.3	495.6
47°	497.7	500.2	501.4	501.6	500.8	500.4	498.2	496.0	492.4	491.2	490.4
47.5°	492.1	494.9	496.4	496.5	495.8	495.2	492.7	491.1	487.1	485.9	484.8
48°	487.0	489.9	490.9	491.1	490.4	490.2	487.8	485.5	482.1	480.6	479.5
48.5°	482.0	484.7	485.8	485.6	485.0	484.7	482.5	479.9	476.4	475.2	474.4
49°	476.4	479.2	480.3	480.5	479.8	479.4	476.9	474.6	471.4	469.8	468.7
49.5°	471.0	473.6	474.9	475.2	474.4	474.2	471.7	469.2	466.1	464.5	463.6
50°	465.7	468.5	469.4	469.6	469.1	468.7	466.3	463.9	460.5	459.3	458.1
50.5°	460.2	463.2	464.2	464.3	463.8	463.1	460.8	458.4	454.9	453.4	452.6
51°	454.5	457.6	458.6	458.6	458.4	457.6	455.2	453.0	449.2	447.7	446.8
51.5°	449.1	452.2	453.1	453.3	452.7	452.2	449.4	447.5	444.0	442.5	441.3
52°	443.5	446.5	447.6	447.7	447.3	446.5	444.0	442.0	438.6	436.6	435.8
52.5°	437.6	440.8	441.7	441.9	441.4	441.1	438.6	436.5	432.8	431.1	430.0
53°	431.6	435.0	436.1	436.1	435.6	435.4	433.0	430.5	426.9	425.3	424.3
53.5°	426.3	429.4	430.5	430.7	430.2	429.8	427.2	424.9	421.2	419.6	418.7
54°	420.7	423.5	424.7	424.8	424.6	423.8	421.5	418.9	415.8	413.7	412.8
54.5°	415.1	417.7	419.1	418.9	419.0	418.3	415.8	413.3	409.9	407.7	406.8
55°	408.8	412.1	413.3	413.1	413.3	412.3	410.0	407.5	404.0	402.1	401.3
55.5°	403.2	406.2	407.5	407.2	407.3	406.6	404.2	402.1	398.0	396.6	395.1
56°	397.5	400.2	401.6	401.4	401.7	400.6	398.2	395.8	392.1	390.5	389.0
56.5°	391.5	394.2	395.6	395.5	395.8	394.6	392.1	390.1	386.1	384.3	383.0
57°	385.2	388.2	389.7	389.6	389.9	388.8	386.4	384.1	380.4	378.3	376.9
57.5°	379.3	382.3	383.7	383.5	383.9	382.6	380.1	378.0	374.2	372.1	371.0
58°	373.4	376.4	377.8	377.6	377.7	376.7	374.2	371.8	368.2	366.2	365.0
58.5°	367.4	370.6	371.8	371.5	371.7	370.7	368.2	365.9	362.3	360.2	358.9
59°	361.1	364.3	365.6	365.3	365.8	364.4	362.0	359.5	356.1	354.2	352.9
59.5°	355.0	358.0	359.4	359.2	359.7	358.3	355.8	353.4	349.9	347.5	346.5
60°	348.8	351.8	353.1	352.9	353.4	352.1	349.4	347.1	343.9	341.5	340.3
60.5°	342.6	345.5	346.9	346.7	347.3	346.1	343.5	341.1	337.6	335.4	334.2
61°	336.6	339.4	340.7	340.5	341.2	339.7	337.2	334.9	331.4	329.1	328.0
61.5°	330.2	333.0	334.5	334.4	335.1	333.4	331.0	328.7	325.1	322.8	321.6
62°	323.8	326.7	328.4	328.3	328.8	327.3	324.6	322.3	319.0	316.4	315.0
62.5°	317.4	320.5	321.8	321.8	322.4	320.9	318.3	315.8	312.3	310.1	308.7
63°	311.1	314.1	315.3	315.4	316.0	314.6	311.9	309.4	306.0	303.7	302.3
63.5°	304.6	307.5	308.9	309.0	309.8	308.4	305.6	303.2	299.6	297.1	295.8
64°	298.4	301.3	302.5	302.5	303.3	301.7	299.2	296.6	293.2	290.7	289.4
64.5°	291.9	295.0	296.1	296.4	297.0	295.4	292.8	290.1	286.8	284.2	282.7
65°	285.4	288.3	289.6	289.9	290.4	289.0	286.1	283.5	280.4	277.8	276.4
65.5°	278.9	281.8	283.1	283.2	283.8	282.5	279.7	277.1	274.0	271.3	270.0
66°	272.6	275.3	276.5	276.6	277.4	275.9	273.0	270.4	267.2	264.9	263.7
66.5°	265.8	268.8	270.0	270.1	271.1	269.2	266.7	263.9	260.8	258.2	256.9
67°	259.2	262.2	263.5	263.6	264.5	263.0	260.2	257.3	254.2	251.6	250.2

TEST NUMBER: P869718
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	252.7	255.5	256.7	256.9	258.0	256.2	253.7	250.7	247.6	244.9	243.6
68°	245.9	248.7	250.0	250.1	251.3	249.4	247.0	244.0	241.0	238.5	237.0
68.5°	239.3	242.3	243.4	243.8	245.0	242.9	240.4	237.3	234.5	232.0	230.5
69°	232.8	235.7	236.7	237.3	238.4	236.3	233.4	230.7	227.7	225.1	223.9
69.5°	225.8	228.9	230.1	230.2	231.5	229.7	227.0	224.3	221.2	218.4	216.9
70°	219.1	222.2	223.3	223.5	224.8	223.0	220.2	217.3	214.2	211.9	210.3
70.5°	212.6	215.4	216.5	216.9	218.3	216.4	213.5	210.7	207.8	205.1	203.6
71°	205.7	208.9	209.8	210.2	211.7	209.9	207.1	203.9	201.1	198.5	197.0
71.5°	198.9	202.1	203.1	203.5	204.9	203.0	200.2	197.1	194.3	191.7	190.3
72°	192.4	195.3	196.3	196.7	198.3	196.5	193.5	190.5	187.5	184.7	183.4
72.5°	185.6	188.4	189.5	189.9	191.6	189.7	186.9	183.5	180.6	178.1	176.8
73°	178.8	181.6	182.8	183.1	184.7	182.8	179.8	176.8	174.1	171.4	170.0
73.5°	172.2	174.9	176.1	176.3	178.2	176.1	173.2	170.0	167.5	164.6	163.3
74°	165.5	168.2	169.3	169.7	171.4	169.5	166.6	163.3	160.7	157.9	156.6
74.5°	158.8	161.6	162.8	162.9	164.6	162.9	160.0	156.6	154.0	151.3	149.9
75°	151.8	154.7	155.9	156.0	157.9	156.1	153.2	149.8	147.2	144.5	143.1
75.5°	145.4	148.0	149.3	149.2	151.4	149.3	146.5	143.5	140.6	138.1	136.7
76°	138.7	141.5	142.8	142.7	144.6	142.8	139.8	136.8	134.1	131.5	130.0
76.5°	132.1	134.8	136.0	135.9	138.0	136.0	133.0	130.3	127.4	124.5	123.3
77°	125.5	128.2	129.6	129.4	131.3	129.5	126.6	123.7	120.7	118.1	116.7
77.5°	118.8	121.6	122.9	122.9	124.8	122.9	120.1	117.0	114.4	111.7	110.4
78°	112.4	115.2	116.2	116.5	118.2	116.5	113.6	110.6	107.6	105.4	103.9
78.5°	105.9	108.6	109.9	110.1	111.8	109.8	107.0	103.9	101.3	98.7	97.5
79°	99.7	102.3	103.6	103.7	105.3	103.5	100.8	97.7	94.9	92.5	91.5
79.5°	93.2	95.8	97.1	97.3	98.9	97.1	94.4	91.3	88.7	86.3	85.1
80°	87.0	89.5	90.7	90.9	92.6	91.1	88.0	85.1	82.6	80.5	79.1
80.5°	81.0	83.4	84.6	84.9	86.4	84.8	82.1	79.2	76.5	74.3	73.2
81°	74.9	77.3	78.5	78.8	80.6	79.0	76.1	73.2	70.7	68.4	67.4
81.5°	69.0	71.3	72.5	72.7	74.3	72.8	70.2	67.2	64.7	62.7	61.7
82°	62.9	65.4	66.4	66.4	68.3	66.8	64.6	61.6	58.9	56.9	55.9
82.5°	57.2	59.6	60.7	60.8	62.6	61.2	58.7	55.9	53.3	51.3	50.4
83°	51.8	54.1	55.1	55.2	57.1	55.6	53.1	50.4	48.0	46.0	45.1
83.5°	46.4	48.6	49.6	49.8	51.5	50.0	47.7	44.9	42.6	40.8	39.9
84°	41.3	43.4	44.3	44.4	45.9	44.7	42.4	39.8	37.4	35.9	34.9
84.5°	36.3	38.4	39.1	39.4	40.8	39.6	37.2	34.9	32.6	30.9	30.1
85°	31.5	33.5	34.2	34.2	36.0	34.6	32.4	30.0	27.9	26.3	25.6
85.5°	27.0	28.8	29.6	29.6	30.9	29.7	27.6	25.4	23.5	22.1	21.3
86°	22.9	24.5	25.2	25.3	26.4	25.2	23.2	21.2	19.6	18.1	17.5
86.5°	19.2	20.7	21.3	21.3	21.9	21.0	19.3	17.3	15.8	14.8	14.3
87°	15.5	17.0	17.5	17.5	18.3	17.2	15.7	14.0	12.6	11.5	11.1
87.5°	12.3	13.7	14.1	14.1	14.7	14.0	12.6	11.0	9.6	8.8	8.3
88°	9.2	10.4	11.0	10.9	11.7	10.8	9.5	8.0	6.9	6.1	5.9
88.5°	6.2	7.3	7.8	7.8	8.7	8.0	6.9	5.6	4.6	4.0	3.6
89°	4.3	5.1	5.4	5.3	6.2	5.5	4.5	3.5	2.7	2.2	2.1
89.5°	2.8	3.4	3.6	3.5	3.9	3.4	2.6	1.8	1.3	0.9	0.8

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



TEST NUMBER: P869718
CATALOG NUMBER: SMX18RLSFSD2W-2000LM-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: P869718
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	756.1	756.1	756.1	756.1	756.1	756.1
0.5°	755.9	755.8	756.6	755.7	755.7	755.4
1°	755.3	755.3	756.1	755.1	755.5	755.4
1.5°	755.2	755.7	756.0	755.0	755.4	755.4
2°	754.9	755.7	755.5	754.8	755.4	755.2
2.5°	754.7	755.0	755.3	754.7	755.2	754.7
3°	754.2	754.4	755.3	754.0	755.1	754.2
3.5°	753.8	753.8	754.7	753.8	754.5	753.9
4°	753.8	753.1	754.0	753.8	753.8	753.7
4.5°	753.0	752.8	753.4	752.8	752.9	753.3
5°	752.5	752.5	753.0	752.0	752.1	753.1
5.5°	751.1	751.3	752.0	751.0	751.6	752.0
6°	750.3	750.5	751.1	750.8	751.3	751.2
6.5°	749.7	749.7	750.5	750.2	750.5	750.5
7°	749.1	748.7	749.6	749.2	749.9	749.7
7.5°	747.5	747.9	748.2	748.3	749.0	748.7
8°	746.7	746.6	747.3	747.1	747.8	747.8
8.5°	745.7	745.6	746.5	745.9	746.7	746.8
9°	744.3	744.3	745.6	745.1	745.5	745.8
9.5°	743.4	743.2	743.7	743.8	744.3	744.5
10°	742.3	742.2	742.4	742.1	743.2	743.7
10.5°	740.8	741.1	741.0	740.5	742.0	742.8
11°	739.2	739.4	739.7	739.6	741.0	741.5
11.5°	738.1	738.1	738.5	738.2	740.0	739.9
12°	736.5	736.4	737.5	736.6	738.4	738.7
12.5°	734.8	734.9	735.4	735.1	736.9	737.1
13°	733.3	733.5	734.2	734.0	735.4	735.7
13.5°	731.8	732.1	732.5	732.2	734.0	734.0
14°	729.9	730.2	731.0	730.8	732.6	733.2
14.5°	728.4	728.4	729.2	729.1	731.1	731.3
15°	726.6	726.6	727.3	727.1	729.2	729.1
15.5°	725.0	724.4	725.4	725.5	727.0	727.2
16°	723.2	722.4	723.7	723.4	725.0	725.0
16.5°	721.0	720.2	721.4	721.9	722.9	723.5
17°	719.0	717.7	719.0	720.3	720.9	721.3
17.5°	716.5	715.3	717.0	718.0	718.8	719.0
18°	714.3	713.2	714.4	715.8	716.5	717.1
18.5°	711.5	710.8	711.5	713.5	714.1	714.6
19°	708.9	708.5	709.0	711.6	711.6	712.1
19.5°	706.5	705.6	706.7	708.9	709.3	710.0
20°	704.1	703.3	704.8	706.4	707.2	707.6
20.5°	701.4	700.9	702.1	704.3	704.4	705.2
21°	698.8	698.2	699.6	701.9	701.8	702.6
21.5°	696.2	695.2	696.8	699.0	698.8	699.6
22°	693.6	692.4	693.6	696.0	696.1	697.0

TEST NUMBER: P869718
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	690.6	689.7	691.2	693.3	693.8	694.4
23°	688.0	687.0	688.6	690.5	691.4	692.0
23.5°	684.8	684.2	685.3	687.5	688.2	688.9
24°	682.0	681.3	682.2	684.2	684.9	686.1
24.5°	678.6	678.3	679.1	681.1	682.3	683.4
25°	675.8	675.5	676.8	678.2	679.6	680.4
25.5°	672.7	672.0	673.7	675.0	676.4	676.7
26°	669.4	668.9	670.6	671.8	673.4	673.9
26.5°	665.9	665.1	667.4	668.5	670.1	670.3
27°	662.9	662.0	664.0	665.3	666.7	667.3
27.5°	659.5	658.4	660.7	662.0	663.5	664.0
28°	656.2	655.2	657.6	658.7	660.5	660.8
28.5°	652.6	651.7	653.8	654.9	657.2	657.1
29°	649.4	648.1	650.2	651.6	653.6	653.6
29.5°	645.5	644.4	646.4	647.9	649.9	650.5
30°	641.9	641.1	643.1	644.5	646.4	647.1
30.5°	638.6	637.3	639.2	640.5	643.0	643.5
31°	634.7	633.6	635.6	636.9	639.6	639.7
31.5°	630.7	629.7	631.7	633.2	635.6	636.4
32°	626.9	625.7	628.3	629.7	632.0	632.5
32.5°	623.2	621.8	624.5	625.8	628.1	628.6
33°	619.3	618.3	620.7	622.0	624.7	625.0
33.5°	615.4	614.0	616.5	617.9	621.0	621.1
34°	611.6	609.8	612.5	614.0	616.9	617.0
34.5°	607.0	605.9	608.3	610.1	612.9	612.9
35°	602.8	601.9	604.4	605.7	608.7	608.7
35.5°	598.8	597.7	599.7	601.5	604.4	604.3
36°	594.6	593.6	595.9	597.6	600.5	600.6
36.5°	590.7	589.2	591.6	593.6	596.6	596.4
37°	586.6	584.8	587.3	589.2	592.2	592.3
37.5°	582.1	580.7	582.6	585.0	587.9	588.1
38°	577.2	576.2	578.2	580.3	583.3	583.1
38.5°	573.2	571.6	573.7	575.8	578.8	578.8
39°	568.7	567.2	569.2	571.6	574.4	574.6
39.5°	563.9	562.7	564.4	566.7	569.6	570.1
40°	559.3	557.9	560.3	562.3	564.9	565.2
40.5°	554.5	553.3	555.3	557.8	560.6	560.7
41°	549.6	548.7	550.6	552.7	555.2	556.5
41.5°	545.2	543.7	545.8	548.3	550.7	551.9
42°	540.3	538.9	541.2	543.5	545.8	546.9
42.5°	535.3	534.3	536.0	538.4	541.0	542.2
43°	530.9	529.6	531.4	533.6	536.2	537.4
43.5°	525.9	524.7	526.3	529.0	531.7	532.4
44°	520.6	519.5	521.4	524.1	527.0	527.8
44.5°	515.8	514.5	516.5	518.9	521.9	523.2

TEST NUMBER: P869718

CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	510.8	509.3	511.4	514.2	516.7	517.9
45.5°	506.0	504.2	506.5	509.2	511.4	512.5
46°	500.4	498.9	501.4	503.8	506.2	508.0
46.5°	495.3	493.9	496.1	498.7	501.2	502.7
47°	490.1	488.4	490.6	493.3	496.1	497.7
47.5°	484.5	483.3	485.5	488.3	490.8	492.1
48°	479.2	477.7	479.9	482.9	485.5	487.0
48.5°	473.9	472.4	474.7	477.7	480.5	482.0
49°	468.5	467.5	469.4	472.1	475.3	476.4
49.5°	463.1	461.9	463.9	466.9	469.7	471.0
50°	457.6	456.2	458.2	461.3	464.3	465.7
50.5°	452.0	450.7	452.8	456.0	458.8	460.2
51°	446.5	445.3	447.2	450.5	453.3	454.5
51.5°	441.0	439.6	441.4	444.7	447.7	449.1
52°	435.2	433.8	436.0	438.9	442.0	443.5
52.5°	429.4	428.3	430.5	433.4	436.1	437.6
53°	424.1	422.5	424.7	427.6	430.8	431.6
53.5°	418.2	416.7	418.9	422.0	424.9	426.3
54°	412.2	410.8	413.0	416.0	418.9	420.7
54.5°	406.4	405.0	407.2	410.3	413.2	415.1
55°	401.0	399.3	401.6	404.5	407.2	408.8
55.5°	394.9	393.5	395.8	398.6	401.8	403.2
56°	388.8	387.6	389.7	393.0	395.9	397.5
56.5°	382.8	381.5	383.7	386.9	389.8	391.5
57°	377.1	375.4	377.7	380.9	383.6	385.2
57.5°	370.9	369.5	371.7	374.6	377.6	379.3
58°	364.7	363.3	365.6	368.6	371.5	373.4
58.5°	358.7	357.1	359.6	362.5	365.5	367.4
59°	352.6	351.0	353.4	356.2	359.3	361.1
59.5°	346.3	344.6	347.1	350.1	353.0	355.0
60°	340.1	338.4	340.9	343.9	346.7	348.8
60.5°	334.0	332.4	334.3	337.7	340.5	342.6
61°	327.6	326.1	328.4	331.4	334.3	336.6
61.5°	321.3	319.8	322.1	325.2	328.2	330.2
62°	314.9	313.4	315.7	318.7	321.8	323.8
62.5°	308.7	307.1	309.3	312.3	315.3	317.4
63°	302.2	300.6	302.8	305.6	308.9	311.1
63.5°	295.8	294.2	296.4	299.2	302.5	304.6
64°	289.2	287.5	289.8	293.0	296.1	298.4
64.5°	282.7	281.2	283.4	286.3	289.5	291.9
65°	276.4	274.9	276.8	279.6	283.1	285.4
65.5°	269.7	268.1	270.5	273.2	276.4	278.9
66°	263.2	261.8	263.7	266.7	270.0	272.6
66.5°	256.6	254.7	257.3	260.0	263.3	265.8
67°	249.8	248.3	250.5	253.3	256.8	259.2

TEST NUMBER: P869718
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	243.5	241.8	243.9	246.8	250.2	252.7
68°	236.9	234.8	237.3	240.1	243.7	245.9
68.5°	230.1	228.4	230.4	233.3	236.8	239.3
69°	223.5	221.6	223.7	226.6	230.1	232.8
69.5°	216.7	214.8	217.1	219.9	223.3	225.8
70°	210.1	208.2	210.6	213.4	216.5	219.1
70.5°	203.6	201.5	203.8	206.5	210.1	212.6
71°	196.8	194.8	197.2	200.0	203.3	205.7
71.5°	190.0	188.0	190.2	192.9	196.5	198.9
72°	183.3	181.4	183.3	186.2	189.7	192.4
72.5°	176.4	174.6	176.8	179.6	183.0	185.6
73°	169.7	167.8	169.9	172.8	176.1	178.8
73.5°	163.2	161.1	163.1	166.1	169.5	172.2
74°	156.6	154.4	156.4	159.4	162.6	165.5
74.5°	149.8	147.8	149.7	152.5	155.8	158.8
75°	143.1	141.2	143.1	146.0	149.1	151.8
75.5°	136.8	134.6	136.4	139.4	142.6	145.4
76°	130.0	127.8	129.8	132.7	135.8	138.7
76.5°	123.3	121.4	123.2	126.1	129.4	132.1
77°	116.6	114.8	116.8	119.6	122.8	125.5
77.5°	110.2	108.3	110.3	113.3	116.4	118.8
78°	103.8	102.0	103.9	106.7	109.9	112.4
78.5°	97.5	95.6	97.5	100.2	103.5	105.9
79°	91.2	89.2	91.2	94.0	97.2	99.7
79.5°	85.0	83.0	84.9	87.7	90.8	93.2
80°	79.0	77.0	78.8	81.6	84.5	87.0
80.5°	73.1	71.0	72.8	75.4	78.3	81.0
81°	67.3	65.1	66.8	69.5	72.4	74.9
81.5°	61.4	59.3	61.0	63.7	66.6	69.0
82°	55.6	53.8	55.3	58.0	60.6	62.9
82.5°	50.2	48.4	50.0	52.3	55.1	57.2
83°	45.0	43.1	44.7	47.1	49.7	51.8
83.5°	39.8	38.0	39.4	41.7	44.4	46.4
84°	34.8	33.1	34.6	36.8	39.2	41.3
84.5°	30.1	28.6	29.9	32.0	34.3	36.3
85°	25.4	24.3	25.6	27.5	29.7	31.5
85.5°	21.2	20.4	21.5	23.2	25.3	27.0
86°	17.4	16.7	17.8	19.4	21.4	22.9
86.5°	14.2	13.3	14.2	15.8	17.6	19.2
87°	11.2	10.1	11.0	12.5	14.1	15.5
87.5°	8.3	7.0	8.0	9.5	11.0	12.3
88°	5.8	5.0	5.4	6.5	7.8	9.2
88.5°	3.7	3.2	3.7	4.5	5.4	6.2
89°	2.1	1.9	2.3	3.0	3.6	4.3
89.5°	0.9	1.2	1.5	1.9	2.4	2.8

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869718
CATALOG NUMBER: SMX18RLSFSD2W-2000LM-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)