

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: P869717

Luminaire Tested: **SMX18RLSFSD2W-2000LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869717
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18RLSFSD2W-2000LM-3000K
 Description: 18IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

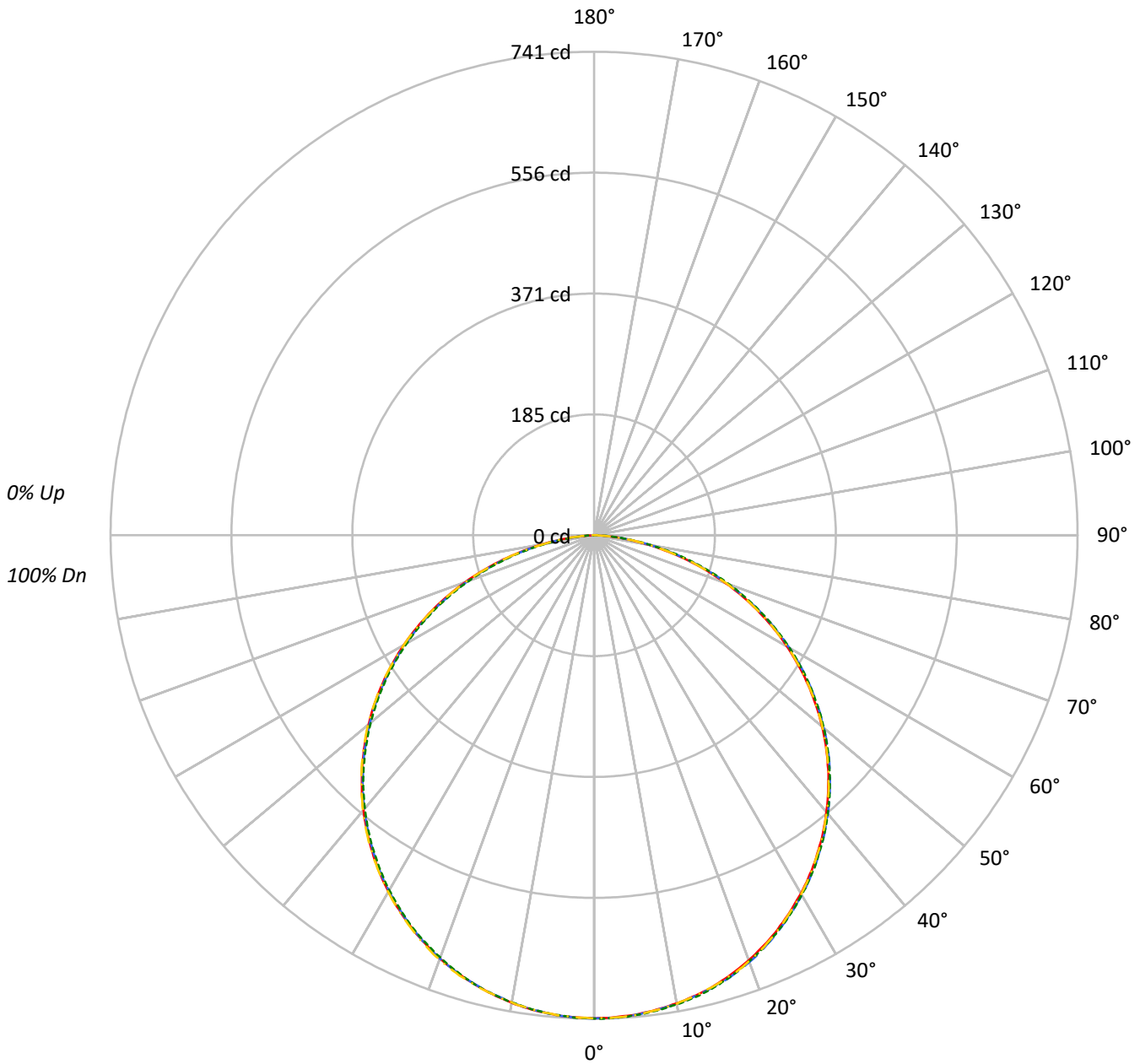
Lumens per Lamp: N/A
 Luminaire Lumens: 2161.8 lumens
 Efficiency: N/A
 Efficacy: 90.1 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.5' x H: 0')
 CIE Type: Direct

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°	4511	4511	4511	4511
5°	4511	4513	4506	4507
10°	4506	4516	4501	4497
15°	4504	4516	4488	4489
20°	4493	4505	4476	4465
25°	4479	4492	4456	4447
30°	4458	4476	4434	4417
35°	4434	4456	4407	4385
40°	4403	4431	4372	4345
45°	4370	4399	4329	4298
50°	4323	4355	4275	4235
55°	4253	4299	4202	4153
60°	4163	4217	4104	4038
65°	4030	4100	3959	3880
70°	3824	3922	3738	3631
75°	3500	3641	3394	3255
80°	2989	3182	2838	2645
85°	2153	2460	1915	1663

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.2
10°-20°	201.4	9.3
20°-30°	306.7	14.2
30°-40°	372.4	17.2
40°-50°	389.8	18.0
50°-60°	356.0	16.5
60°-70°	273.9	12.7
70°-80°	154.9	7.2
80°-90°	36.5	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°	578.2	26.7
0°-40°	950.6	44.0
0°-60°	1696.5	78.5
0°-90°	2161.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2161.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	741	741	741	741	741	
5°	738	738	737	737	738	70
15°	714	716	712	712	714	202
25°	666	668	663	662	666	307
35°	596	599	593	590	596	373
45°	507	511	502	499	507	391
55°	400	405	396	391	400	358
65°	280	284	275	269	280	276
75°	149	155	144	138	149	157
85°	31	35	27	24	31	38
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°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
0.5°	740.0	740.5	740.5	740.5	741.0	741.5	740.5	740.8	739.9	740.5	740.6
1°	740.0	740.6	740.4	740.8	741.2	741.2	740.0	740.4	740.0	740.3	740.4
1.5°	740.0	740.9	740.3	740.3	740.9	740.9	740.4	740.1	739.7	740.3	740.2
2°	739.8	740.5	740.2	740.0	740.5	740.9	740.2	739.9	739.5	739.9	739.6
2.5°	739.3	740.4	740.0	739.9	740.5	740.5	739.9	739.3	739.5	739.8	739.6
3°	738.8	740.0	740.0	739.5	740.0	739.7	739.5	739.0	738.7	739.9	739.0
3.5°	738.5	739.5	739.7	739.5	739.5	739.2	739.5	738.8	738.8	739.4	738.8
4°	738.3	739.1	739.1	738.9	739.5	739.1	738.8	738.5	738.5	738.5	738.4
4.5°	737.9	738.2	738.4	738.8	738.6	738.9	738.5	738.1	737.8	737.9	737.8
5°	737.7	737.6	737.7	738.2	738.1	738.3	738.0	737.1	737.0	737.3	737.4
5.5°	736.7	737.5	737.5	737.8	737.7	738.0	737.5	736.7	736.4	736.5	736.5
6°	735.8	736.8	736.2	737.0	737.1	737.2	736.5	736.2	735.4	735.6	735.1
6.5°	735.2	735.9	735.7	736.1	736.2	736.6	735.6	735.6	735.1	734.5	734.3
7°	734.4	734.9	735.0	735.1	735.3	735.8	734.7	734.4	734.1	734.1	733.7
7.5°	733.4	734.0	734.1	734.6	735.1	734.7	734.3	733.2	733.2	733.1	732.8
8°	732.5	733.1	733.1	733.4	734.1	734.0	733.5	732.7	732.1	731.9	731.8
8.5°	731.6	732.4	732.4	732.5	733.1	733.2	732.0	731.6	731.3	731.0	730.9
9°	730.6	731.5	731.1	731.7	731.9	732.2	731.0	730.6	730.0	729.8	729.6
9.5°	729.3	730.5	730.3	730.7	731.0	731.3	730.2	729.4	729.0	728.5	728.4
10°	728.5	729.3	729.1	729.4	730.2	730.0	728.9	727.9	727.7	727.0	726.9
10.5°	727.6	728.0	727.9	728.7	729.2	728.9	727.4	726.9	726.0	725.8	725.6
11°	726.3	726.7	726.8	727.5	727.9	727.6	726.2	725.6	724.7	724.9	724.0
11.5°	724.8	725.5	725.5	726.3	726.9	726.5	725.0	723.9	723.3	723.7	722.7
12°	723.6	724.3	724.2	725.2	725.4	725.1	723.9	722.5	722.1	721.7	721.3
12.5°	722.1	722.8	722.5	723.7	724.5	723.7	722.5	720.9	720.1	720.1	720.0
13°	720.7	721.6	721.2	722.6	723.1	722.5	720.9	719.3	718.8	718.4	718.3
13.5°	719.1	719.9	720.1	720.9	721.4	720.9	719.4	718.1	717.0	716.6	716.9
14°	718.2	718.4	718.6	719.8	719.8	719.4	717.5	716.5	715.3	715.1	715.3
14.5°	716.4	716.6	717.1	718.3	718.3	717.9	716.3	714.5	713.8	713.0	713.1
15°	714.2	714.8	715.6	716.0	716.2	716.0	714.7	712.9	711.7	711.5	711.5
15.5°	712.3	713.3	713.8	714.5	714.9	714.3	712.9	710.7	709.9	709.6	709.8
16°	710.2	711.9	712.4	712.7	712.6	712.7	711.3	708.8	708.1	707.9	707.9
16.5°	708.8	710.0	710.9	710.8	710.7	710.7	709.0	707.3	706.1	705.8	705.8
17°	706.6	707.9	709.0	708.9	708.9	708.7	707.2	705.3	703.8	703.6	703.4
17.5°	704.3	705.8	707.0	707.0	706.7	706.6	705.6	703.1	702.2	701.4	701.5
18°	702.4	703.8	705.0	704.4	704.5	704.4	704.0	701.0	699.9	699.2	699.5
18.5°	700.0	701.4	703.1	702.3	701.9	702.1	701.5	698.5	697.4	697.0	697.1
19°	697.6	699.3	700.9	700.0	699.7	699.7	699.7	696.5	695.3	694.5	695.2
19.5°	695.5	697.0	698.4	697.6	697.7	697.6	696.9	694.3	692.8	691.9	692.9
20°	693.2	694.9	696.2	694.8	695.0	695.2	694.6	691.7	690.5	689.8	690.4
20.5°	690.8	692.1	694.0	692.6	692.5	692.2	692.0	689.2	688.4	687.4	687.9
21°	688.3	689.4	691.6	690.1	690.3	689.5	690.1	686.7	685.9	684.8	685.4
21.5°	685.4	686.8	689.1	687.8	687.4	687.4	687.3	684.4	682.9	682.0	683.0
22°	682.7	684.3	686.5	685.0	685.0	684.6	684.8	682.0	679.9	679.2	680.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	680.3	681.7	683.7	682.3	682.3	681.8	682.0	679.3	677.4	676.3	677.2
23°	677.9	679.3	680.6	679.9	679.6	679.4	678.9	676.3	674.6	673.8	674.1
23.5°	674.8	676.9	678.2	677.3	677.0	676.9	676.3	673.7	671.7	671.4	671.0
24°	672.1	674.0	675.2	674.4	674.2	673.5	673.5	671.1	669.1	668.0	668.0
24.5°	669.4	671.2	671.9	671.4	671.7	670.3	670.3	668.2	666.1	665.0	665.4
25°	666.5	668.1	669.0	668.7	668.4	667.9	667.3	665.5	663.0	662.0	661.8
25.5°	662.9	664.9	665.9	666.0	665.7	665.3	664.2	662.7	660.1	659.1	658.6
26°	660.2	662.2	662.7	662.9	662.6	661.9	661.0	659.5	656.8	656.1	656.0
26.5°	656.6	659.1	659.6	659.5	659.6	658.8	657.7	656.4	653.9	653.0	652.4
27°	653.7	656.1	656.3	656.6	656.1	655.9	654.4	653.2	650.5	650.0	649.2
27.5°	650.5	653.1	653.3	654.0	653.2	652.3	651.0	650.2	647.2	647.0	646.1
28°	647.3	649.6	650.3	650.6	650.2	649.4	647.6	646.7	644.4	643.8	642.8
28.5°	643.7	646.7	646.6	647.2	646.8	646.2	644.8	643.7	641.1	640.3	639.6
29°	640.3	643.6	643.1	643.8	643.6	642.8	641.3	640.4	637.6	636.7	636.0
29.5°	637.2	640.2	640.2	640.7	639.9	639.3	638.0	637.2	634.0	633.3	632.7
30°	633.9	636.7	636.9	637.4	636.4	635.9	634.8	633.6	630.4	629.9	628.8
30.5°	630.4	633.5	633.3	633.9	632.9	632.5	631.4	630.2	626.8	626.5	625.5
31°	626.7	629.9	629.9	630.2	629.8	629.0	627.5	626.6	623.3	622.4	622.0
31.5°	623.4	626.0	626.1	626.8	626.0	625.1	624.1	622.7	619.7	618.7	618.2
32°	619.6	622.1	622.6	623.4	622.2	621.4	620.3	619.1	615.9	615.5	614.2
32.5°	615.8	618.6	618.6	619.8	618.5	618.1	616.4	615.6	612.2	611.8	610.7
33°	612.2	614.9	614.8	615.9	615.0	614.2	612.8	611.5	608.3	608.1	606.7
33.5°	608.4	611.1	611.2	612.0	611.6	610.6	608.8	607.7	604.3	604.2	602.8
34°	604.4	607.5	607.5	608.2	607.5	606.7	604.7	604.3	600.8	600.2	598.6
34.5°	600.4	603.5	603.4	604.3	603.3	603.0	601.0	600.3	596.9	596.2	594.8
35°	596.3	599.6	599.2	600.5	599.2	599.0	596.8	595.9	592.6	592.1	590.7
35.5°	592.0	595.5	595.5	596.6	595.4	595.0	592.9	592.0	588.6	588.3	586.7
36°	588.3	591.7	591.3	592.5	591.2	590.9	588.8	587.8	584.5	584.0	582.5
36.5°	584.2	587.5	587.3	588.3	587.0	586.7	584.7	583.8	580.4	580.2	578.6
37°	580.2	583.5	583.3	583.9	583.2	582.9	580.6	579.7	576.1	575.7	574.0
37.5°	576.1	579.0	579.0	580.0	579.2	578.6	576.5	575.6	571.9	571.0	569.6
38°	571.2	574.7	574.7	575.7	574.7	574.2	572.1	571.4	567.5	566.8	565.4
38.5°	567.0	570.3	570.5	571.6	570.4	569.8	567.9	567.2	563.1	562.0	561.1
39°	562.8	566.2	566.2	567.2	566.2	565.8	563.2	562.7	558.8	558.0	556.8
39.5°	558.5	561.4	561.8	562.8	561.8	561.1	559.0	558.3	554.3	553.6	552.5
40°	553.7	556.9	557.4	558.0	557.2	556.8	554.7	553.6	549.8	548.9	547.8
40.5°	549.3	552.4	552.9	553.7	552.8	552.6	550.6	548.8	545.4	544.0	543.4
41°	545.1	547.9	548.3	549.2	548.1	547.9	545.7	543.9	540.8	539.7	538.6
41.5°	540.6	543.2	543.9	544.5	543.7	543.1	541.4	539.5	536.4	534.9	534.2
42°	535.8	538.4	539.4	540.0	539.2	538.6	536.6	534.7	531.6	530.1	529.3
42.5°	531.1	533.9	534.9	535.2	534.4	534.0	532.1	529.7	526.8	525.7	524.5
43°	526.4	529.0	530.1	530.3	529.7	529.2	527.1	525.2	521.9	521.0	519.9
43.5°	521.6	524.4	525.1	525.7	525.0	524.3	522.1	520.3	517.1	516.3	515.1
44°	517.1	519.8	520.6	520.8	520.2	519.9	517.4	515.7	512.2	511.6	510.2
44.5°	512.5	515.0	515.9	516.1	515.5	514.9	512.6	510.6	507.5	506.6	505.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	507.3	509.6	511.2	511.4	510.7	510.0	507.8	505.6	502.5	501.5	500.3
45.5°	502.1	505.0	506.2	506.4	505.5	505.2	503.0	500.8	497.7	496.1	495.5
46°	497.6	500.1	501.1	501.2	500.5	500.1	498.0	495.9	492.6	491.3	490.4
46.5°	492.4	495.0	496.4	496.0	495.7	495.2	493.2	490.6	487.2	486.1	485.5
47°	487.5	490.0	491.2	491.3	490.6	490.2	488.0	485.9	482.4	481.2	480.4
47.5°	482.1	484.8	486.2	486.4	485.7	485.1	482.7	481.0	477.2	476.0	474.9
48°	477.1	479.9	480.9	481.0	480.4	480.2	477.8	475.6	472.2	470.8	469.7
48.5°	472.2	474.8	475.9	475.7	475.1	474.8	472.6	470.1	466.7	465.5	464.7
49°	466.7	469.4	470.5	470.7	470.0	469.6	467.1	464.9	461.8	460.3	459.2
49.5°	461.4	464.0	465.2	465.5	464.7	464.5	462.0	459.6	456.6	455.0	454.1
50°	456.2	458.9	459.8	460.0	459.6	459.2	456.8	454.5	451.1	449.9	448.7
50.5°	450.8	453.8	454.7	454.8	454.4	453.7	451.4	449.0	445.6	444.2	443.3
51°	445.2	448.3	449.2	449.3	449.0	448.3	445.9	443.8	440.1	438.6	437.7
51.5°	439.9	442.9	443.9	444.0	443.5	442.9	440.2	438.4	434.9	433.4	432.3
52°	434.4	437.4	438.5	438.6	438.1	437.4	435.0	433.0	429.6	427.7	426.9
52.5°	428.6	431.8	432.7	432.9	432.4	432.1	429.6	427.6	423.9	422.3	421.2
53°	422.8	426.2	427.2	427.2	426.7	426.6	424.2	421.7	418.2	416.6	415.7
53.5°	417.6	420.6	421.8	421.9	421.4	421.0	418.5	416.2	412.6	411.0	410.2
54°	412.1	414.9	416.0	416.1	416.0	415.2	412.9	410.4	407.3	405.2	404.4
54.5°	406.6	409.2	410.5	410.4	410.5	409.8	407.3	404.9	401.6	399.3	398.5
55°	400.5	403.7	404.8	404.7	404.8	403.9	401.7	399.2	395.7	393.9	393.1
55.5°	394.9	397.9	399.2	398.9	399.0	398.3	395.9	393.9	389.9	388.5	387.0
56°	389.4	392.1	393.4	393.2	393.5	392.5	390.1	387.7	384.1	382.5	381.1
56.5°	383.5	386.2	387.5	387.4	387.7	386.6	384.1	382.2	378.2	376.5	375.2
57°	377.4	380.3	381.8	381.6	381.9	380.9	378.5	376.2	372.7	370.6	369.2
57.5°	371.6	374.5	375.9	375.7	376.1	374.8	372.4	370.3	366.6	364.6	363.5
58°	365.8	368.7	370.0	369.9	370.0	369.0	366.6	364.2	360.7	358.7	357.5
58.5°	359.9	363.0	364.2	363.9	364.1	363.2	360.7	358.4	354.9	352.8	351.6
59°	353.7	356.8	358.1	357.8	358.4	357.0	354.7	352.2	348.9	347.0	345.7
59.5°	347.8	350.7	352.1	351.9	352.3	351.0	348.6	346.2	342.8	340.4	339.4
60°	341.7	344.6	345.9	345.7	346.2	344.9	342.3	340.0	336.9	334.5	333.3
60.5°	335.6	338.4	339.8	339.7	340.2	339.0	336.5	334.1	330.7	328.5	327.4
61°	329.8	332.5	333.8	333.6	334.3	332.8	330.3	328.1	324.6	322.4	321.3
61.5°	323.4	326.2	327.7	327.6	328.2	326.6	324.2	322.0	318.5	316.2	315.1
62°	317.2	320.0	321.7	321.6	322.1	320.6	318.0	315.7	312.5	309.9	308.6
62.5°	310.9	314.0	315.2	315.2	315.9	314.4	311.8	309.4	306.0	303.8	302.4
63°	304.7	307.7	308.8	309.0	309.6	308.2	305.5	303.1	299.8	297.5	296.1
63.5°	298.4	301.2	302.6	302.7	303.5	302.1	299.4	297.0	293.4	291.0	289.8
64°	292.3	295.1	296.3	296.3	297.1	295.5	293.1	290.6	287.3	284.8	283.5
64.5°	285.9	289.0	290.0	290.3	291.0	289.4	286.8	284.2	280.9	278.4	277.0
65°	279.6	282.5	283.7	284.0	284.5	283.1	280.3	277.7	274.7	272.1	270.8
65.5°	273.2	276.0	277.3	277.4	278.0	276.7	274.0	271.4	268.4	265.8	264.5
66°	267.0	269.7	270.9	270.9	271.7	270.2	267.5	264.8	261.7	259.5	258.3
66.5°	260.4	263.3	264.5	264.6	265.5	263.8	261.3	258.5	255.5	252.9	251.7
67°	253.9	256.9	258.1	258.3	259.1	257.6	254.9	252.0	249.0	246.4	245.0

TEST NUMBER: P869717
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	247.5	250.3	251.5	251.7	252.8	251.0	248.5	245.6	242.6	239.9	238.6
68°	240.9	243.7	244.9	245.0	246.1	244.4	242.0	239.0	236.1	233.6	232.1
68.5°	234.5	237.4	238.5	238.9	240.0	237.9	235.5	232.4	229.7	227.3	225.8
69°	228.0	230.9	231.8	232.4	233.5	231.5	228.7	226.0	223.1	220.5	219.3
69.5°	221.2	224.3	225.4	225.5	226.8	225.0	222.3	219.7	216.7	214.0	212.5
70°	214.7	217.7	218.8	218.9	220.2	218.5	215.7	212.9	209.9	207.6	206.0
70.5°	208.3	211.0	212.0	212.5	213.9	212.0	209.2	206.4	203.5	200.9	199.4
71°	201.5	204.6	205.5	205.9	207.4	205.6	202.8	199.7	197.0	194.4	193.0
71.5°	194.9	198.0	199.0	199.4	200.8	198.9	196.1	193.1	190.3	187.8	186.5
72°	188.5	191.3	192.3	192.7	194.3	192.5	189.5	186.6	183.7	181.0	179.6
72.5°	181.8	184.5	185.7	186.0	187.7	185.8	183.1	179.8	176.9	174.5	173.2
73°	175.2	177.9	179.0	179.3	180.9	179.0	176.2	173.2	170.5	167.9	166.5
73.5°	168.7	171.3	172.5	172.7	174.5	172.5	169.7	166.5	164.0	161.3	160.0
74°	162.1	164.8	165.9	166.2	167.9	166.0	163.2	160.0	157.4	154.7	153.4
74.5°	155.5	158.3	159.5	159.6	161.3	159.6	156.7	153.4	150.8	148.2	146.8
75°	148.7	151.5	152.7	152.8	154.7	152.9	150.1	146.7	144.2	141.5	140.2
75.5°	142.5	145.0	146.3	146.2	148.3	146.3	143.5	140.5	137.8	135.3	133.9
76°	135.9	138.6	139.8	139.8	141.6	139.8	137.0	134.0	131.3	128.8	127.3
76.5°	129.4	132.0	133.3	133.1	135.2	133.3	130.3	127.6	124.8	122.0	120.7
77°	122.9	125.6	126.9	126.8	128.6	126.9	124.0	121.2	118.3	115.7	114.3
77.5°	116.4	119.1	120.4	120.4	122.3	120.4	117.7	114.6	112.1	109.4	108.1
78°	110.2	112.9	113.9	114.1	115.8	114.1	111.2	108.4	105.4	103.3	101.8
78.5°	103.7	106.4	107.7	107.8	109.5	107.6	104.8	101.8	99.3	96.7	95.5
79°	97.6	100.3	101.5	101.6	103.2	101.3	98.7	95.7	93.0	90.6	89.6
79.5°	91.3	93.8	95.2	95.3	96.9	95.2	92.5	89.4	86.9	84.6	83.3
80°	85.2	87.7	88.9	89.1	90.7	89.2	86.2	83.3	80.9	78.8	77.5
80.5°	79.3	81.7	82.9	83.2	84.6	83.1	80.5	77.6	75.0	72.8	71.7
81°	73.4	75.8	76.9	77.2	79.0	77.4	74.5	71.7	69.3	67.0	66.0
81.5°	67.6	69.8	71.0	71.2	72.7	71.3	68.7	65.9	63.4	61.4	60.4
82°	61.6	64.1	65.1	65.1	66.9	65.5	63.2	60.3	57.7	55.7	54.7
82.5°	56.0	58.4	59.4	59.5	61.3	59.9	57.5	54.7	52.3	50.2	49.4
83°	50.8	53.0	54.0	54.0	55.9	54.4	52.0	49.4	47.0	45.1	44.2
83.5°	45.5	47.6	48.6	48.8	50.4	48.9	46.7	44.0	41.7	40.0	39.0
84°	40.4	42.5	43.4	43.5	45.0	43.8	41.5	39.0	36.6	35.2	34.2
84.5°	35.6	37.6	38.3	38.6	40.0	38.8	36.5	34.2	31.9	30.3	29.5
85°	30.8	32.8	33.5	33.5	35.2	33.9	31.8	29.4	27.4	25.7	25.0
85.5°	26.4	28.2	29.0	29.0	30.3	29.1	27.1	24.9	23.0	21.6	20.9
86°	22.4	24.0	24.7	24.7	25.9	24.7	22.7	20.8	19.2	17.8	17.2
86.5°	18.8	20.3	20.9	20.9	21.5	20.6	18.9	16.9	15.5	14.5	14.0
87°	15.2	16.7	17.2	17.2	17.9	16.9	15.4	13.8	12.4	11.3	10.9
87.5°	12.1	13.4	13.8	13.8	14.4	13.8	12.4	10.7	9.4	8.6	8.1
88°	9.0	10.2	10.7	10.7	11.4	10.6	9.4	7.9	6.8	6.0	5.8
88.5°	6.1	7.2	7.7	7.7	8.5	7.9	6.7	5.5	4.5	3.9	3.6
89°	4.2	5.0	5.3	5.2	6.0	5.4	4.4	3.4	2.6	2.2	2.0
89.5°	2.7	3.3	3.6	3.4	3.9	3.3	2.6	1.8	1.2	0.9	0.8

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



TEST NUMBER: P869717
CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3000K

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: P869717
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	740.6	740.6	740.6	740.6	740.6	740.6
0.5°	740.5	740.4	741.2	740.2	740.2	740.0
1°	739.9	739.9	740.7	739.7	740.1	740.0
1.5°	739.8	740.2	740.5	739.6	740.0	740.0
2°	739.5	740.2	740.1	739.4	740.0	739.8
2.5°	739.3	739.6	739.9	739.3	739.8	739.3
3°	738.8	739.0	739.9	738.6	739.7	738.8
3.5°	738.5	738.5	739.3	738.5	739.1	738.5
4°	738.5	737.7	738.6	738.4	738.4	738.3
4.5°	737.6	737.5	738.0	737.5	737.5	737.9
5°	737.1	737.1	737.6	736.6	736.8	737.7
5.5°	735.8	736.0	736.7	735.7	736.3	736.7
6°	735.0	735.2	735.8	735.5	736.0	735.8
6.5°	734.4	734.4	735.1	734.9	735.1	735.2
7°	733.8	733.4	734.3	733.9	734.6	734.4
7.5°	732.3	732.7	733.0	733.1	733.7	733.4
8°	731.5	731.4	732.0	731.9	732.5	732.5
8.5°	730.5	730.4	731.3	730.7	731.5	731.6
9°	729.1	729.1	730.3	729.9	730.3	730.6
9.5°	728.3	728.0	728.5	728.6	729.1	729.3
10°	727.2	727.1	727.3	726.9	728.0	728.5
10.5°	725.7	725.9	725.9	725.4	726.9	727.6
11°	724.2	724.3	724.6	724.5	725.9	726.3
11.5°	723.0	723.0	723.5	723.2	724.9	724.8
12°	721.5	721.4	722.5	721.6	723.3	723.6
12.5°	719.8	719.9	720.4	720.1	721.8	722.1
13°	718.3	718.5	719.2	719.1	720.4	720.7
13.5°	716.9	717.1	717.5	717.3	719.1	719.1
14°	715.0	715.3	716.0	715.9	717.7	718.2
14.5°	713.5	713.6	714.3	714.3	716.2	716.4
15°	711.8	711.8	712.5	712.3	714.3	714.2
15.5°	710.2	709.6	710.6	710.7	712.2	712.3
16°	708.5	707.6	708.9	708.6	710.2	710.2
16.5°	706.3	705.5	706.7	707.2	708.2	708.8
17°	704.4	703.1	704.4	705.6	706.2	706.6
17.5°	701.9	700.7	702.4	703.4	704.1	704.3
18°	699.7	698.7	699.8	701.2	701.9	702.4
18.5°	697.0	696.3	697.0	699.0	699.5	700.0
19°	694.5	694.0	694.6	697.1	697.1	697.6
19.5°	692.1	691.2	692.3	694.5	694.9	695.5
20°	689.7	688.9	690.4	692.0	692.8	693.2
20.5°	687.1	686.6	687.8	689.9	690.0	690.8
21°	684.6	684.0	685.3	687.6	687.4	688.3
21.5°	682.0	681.0	682.6	684.7	684.6	685.4
22°	679.4	678.2	679.5	681.8	681.9	682.7

TEST NUMBER: P869717
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	676.5	675.6	677.1	679.2	679.6	680.3
23°	674.0	673.0	674.5	676.4	677.3	677.9
23.5°	670.8	670.3	671.3	673.5	674.1	674.8
24°	668.0	667.4	668.3	670.2	670.9	672.1
24.5°	664.8	664.5	665.3	667.2	668.3	669.4
25°	662.0	661.7	663.0	664.3	665.7	666.5
25.5°	659.0	658.3	659.9	661.2	662.6	662.9
26°	655.7	655.2	656.9	658.1	659.7	660.2
26.5°	652.3	651.6	653.7	654.8	656.4	656.6
27°	649.3	648.5	650.5	651.7	653.1	653.7
27.5°	646.0	644.9	647.2	648.5	650.0	650.5
28°	642.8	641.8	644.2	645.2	647.0	647.3
28.5°	639.3	638.4	640.4	641.5	643.8	643.7
29°	636.1	634.9	637.0	638.3	640.3	640.3
29.5°	632.3	631.2	633.3	634.7	636.7	637.2
30°	628.8	628.0	629.9	631.3	633.3	633.9
30.5°	625.5	624.3	626.1	627.4	629.9	630.4
31°	621.7	620.7	622.6	623.9	626.5	626.7
31.5°	617.9	616.9	618.8	620.3	622.6	623.4
32°	614.1	612.9	615.5	616.9	619.1	619.6
32.5°	610.5	609.1	611.8	613.0	615.3	615.8
33°	606.7	605.7	608.1	609.3	611.9	612.2
33.5°	602.8	601.5	603.9	605.3	608.3	608.4
34°	599.1	597.4	600.0	601.5	604.3	604.4
34.5°	594.6	593.5	595.9	597.6	600.4	600.4
35°	590.5	589.7	592.1	593.3	596.3	596.3
35.5°	586.6	585.5	587.5	589.2	592.1	592.0
36°	582.5	581.5	583.7	585.4	588.3	588.3
36.5°	578.7	577.1	579.5	581.5	584.4	584.2
37°	574.6	572.9	575.3	577.1	580.1	580.2
37.5°	570.3	568.9	570.7	573.0	575.9	576.1
38°	565.4	564.5	566.4	568.5	571.4	571.2
38.5°	561.5	559.9	562.0	564.1	567.0	567.0
39°	557.1	555.6	557.6	559.9	562.7	562.8
39.5°	552.4	551.2	552.9	555.2	558.0	558.5
40°	547.9	546.5	548.8	550.9	553.4	553.7
40.5°	543.2	542.0	544.0	546.4	549.2	549.3
41°	538.4	537.5	539.3	541.4	543.9	545.1
41.5°	534.1	532.6	534.6	537.1	539.5	540.6
42°	529.3	527.9	530.1	532.4	534.6	535.8
42.5°	524.4	523.4	525.1	527.4	530.0	531.1
43°	520.1	518.8	520.5	522.7	525.3	526.4
43.5°	515.2	514.0	515.6	518.2	520.9	521.6
44°	510.0	508.9	510.7	513.4	516.2	517.1
44.5°	505.2	504.0	505.9	508.3	511.3	512.5

TEST NUMBER: P869717
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	500.4	498.9	501.0	503.7	506.2	507.3
45.5°	495.7	493.9	496.2	498.8	500.9	502.1
46°	490.2	488.7	491.2	493.5	495.9	497.6
46.5°	485.1	483.8	486.0	488.5	491.0	492.4
47°	480.1	478.4	480.6	483.2	486.0	487.5
47.5°	474.6	473.4	475.6	478.3	480.8	482.1
48°	469.5	468.0	470.1	473.0	475.6	477.1
48.5°	464.3	462.8	465.0	467.9	470.7	472.2
49°	458.9	457.9	459.8	462.5	465.6	466.7
49.5°	453.6	452.4	454.5	457.4	460.1	461.4
50°	448.3	446.9	448.9	451.9	454.8	456.2
50.5°	442.8	441.5	443.6	446.7	449.4	450.8
51°	437.4	436.2	438.1	441.3	444.1	445.2
51.5°	432.0	430.6	432.4	435.7	438.5	439.9
52°	426.3	424.9	427.1	430.0	433.0	434.4
52.5°	420.6	419.6	421.7	424.5	427.2	428.6
53°	415.4	413.9	416.0	418.9	422.0	422.8
53.5°	409.6	408.2	410.4	413.4	416.2	417.6
54°	403.8	402.4	404.6	407.5	410.4	412.1
54.5°	398.1	396.7	398.9	401.9	404.8	406.6
55°	392.8	391.1	393.4	396.2	398.9	400.5
55.5°	386.8	385.4	387.7	390.5	393.6	394.9
56°	380.9	379.7	381.7	385.0	387.8	389.4
56.5°	375.0	373.8	375.9	379.0	381.9	383.5
57°	369.4	367.7	370.0	373.1	375.8	377.4
57.5°	363.3	362.0	364.1	367.0	369.9	371.6
58°	357.3	355.9	358.1	361.1	363.9	365.8
58.5°	351.3	349.8	352.3	355.1	358.1	359.9
59°	345.4	343.8	346.2	348.9	352.0	353.7
59.5°	339.2	337.6	340.0	342.9	345.8	347.8
60°	333.2	331.5	333.9	336.9	339.7	341.7
60.5°	327.1	325.6	327.4	330.9	333.6	335.6
61°	321.0	319.4	321.7	324.6	327.4	329.8
61.5°	314.7	313.2	315.5	318.6	321.5	323.4
62°	308.5	307.0	309.3	312.2	315.2	317.2
62.5°	302.4	300.9	303.0	306.0	308.9	310.9
63°	296.0	294.4	296.6	299.4	302.6	304.7
63.5°	289.8	288.2	290.3	293.1	296.3	298.4
64°	283.3	281.6	283.9	287.0	290.0	292.3
64.5°	276.9	275.4	277.6	280.5	283.6	285.9
65°	270.7	269.2	271.2	273.9	277.4	279.6
65.5°	264.2	262.7	265.0	267.6	270.8	273.2
66°	257.8	256.4	258.3	261.3	264.4	267.0
66.5°	251.4	249.5	252.0	254.7	258.0	260.4
67°	244.7	243.3	245.4	248.1	251.5	253.9

TEST NUMBER: P869717
 CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	238.6	236.9	238.9	241.8	245.1	247.5
68°	232.1	230.0	232.4	235.2	238.7	240.9
68.5°	225.4	223.7	225.7	228.6	232.0	234.5
69°	218.9	217.1	219.2	222.0	225.4	228.0
69.5°	212.3	210.4	212.7	215.4	218.8	221.2
70°	205.9	203.9	206.3	209.0	212.1	214.7
70.5°	199.4	197.4	199.6	202.3	205.8	208.3
71°	192.8	190.8	193.2	196.0	199.1	201.5
71.5°	186.1	184.1	186.3	189.0	192.5	194.9
72°	179.6	177.7	179.6	182.4	185.8	188.5
72.5°	172.8	171.1	173.2	175.9	179.3	181.8
73°	166.3	164.4	166.4	169.3	172.5	175.2
73.5°	159.9	157.8	159.8	162.7	166.0	168.7
74°	153.4	151.2	153.2	156.1	159.2	162.1
74.5°	146.7	144.8	146.6	149.4	152.6	155.5
75°	140.2	138.3	140.2	143.0	146.0	148.7
75.5°	134.0	131.9	133.6	136.6	139.7	142.5
76°	127.3	125.2	127.2	129.9	133.0	135.9
76.5°	120.8	118.9	120.7	123.5	126.8	129.4
77°	114.3	112.5	114.4	117.2	120.3	122.9
77.5°	108.0	106.1	108.1	111.0	114.0	116.4
78°	101.7	99.9	101.8	104.5	107.7	110.2
78.5°	95.5	93.7	95.5	98.2	101.4	103.7
79°	89.4	87.4	89.4	92.1	95.2	97.6
79.5°	83.3	81.3	83.2	85.9	89.0	91.3
80°	77.4	75.4	77.1	79.9	82.8	85.2
80.5°	71.6	69.6	71.3	73.9	76.7	79.3
81°	65.9	63.8	65.5	68.1	70.9	73.4
81.5°	60.1	58.1	59.8	62.4	65.2	67.6
82°	54.5	52.7	54.2	56.8	59.4	61.6
82.5°	49.2	47.4	49.0	51.3	54.0	56.0
83°	44.1	42.2	43.8	46.1	48.7	50.8
83.5°	39.0	37.3	38.6	40.9	43.5	45.5
84°	34.1	32.5	33.9	36.0	38.4	40.4
84.5°	29.5	28.1	29.3	31.4	33.6	35.6
85°	24.9	23.8	25.0	27.0	29.1	30.8
85.5°	20.8	20.0	21.1	22.7	24.8	26.4
86°	17.1	16.3	17.4	19.0	20.9	22.4
86.5°	13.9	13.0	13.9	15.5	17.2	18.8
87°	11.0	9.9	10.8	12.2	13.8	15.2
87.5°	8.1	6.9	7.9	9.3	10.7	12.1
88°	5.6	4.9	5.3	6.4	7.7	9.0
88.5°	3.6	3.1	3.6	4.4	5.3	6.1
89°	2.0	1.9	2.2	2.9	3.6	4.2
89.5°	0.9	1.2	1.5	1.9	2.3	2.7

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869717
CATALOG NUMBER: SMX18RLSFSD2W-2000LM-3000K

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)