

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: P869748

Luminaire Tested: **SMX18SLSFSD2W-2000LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869748
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFSD2W-2000LM-3500K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

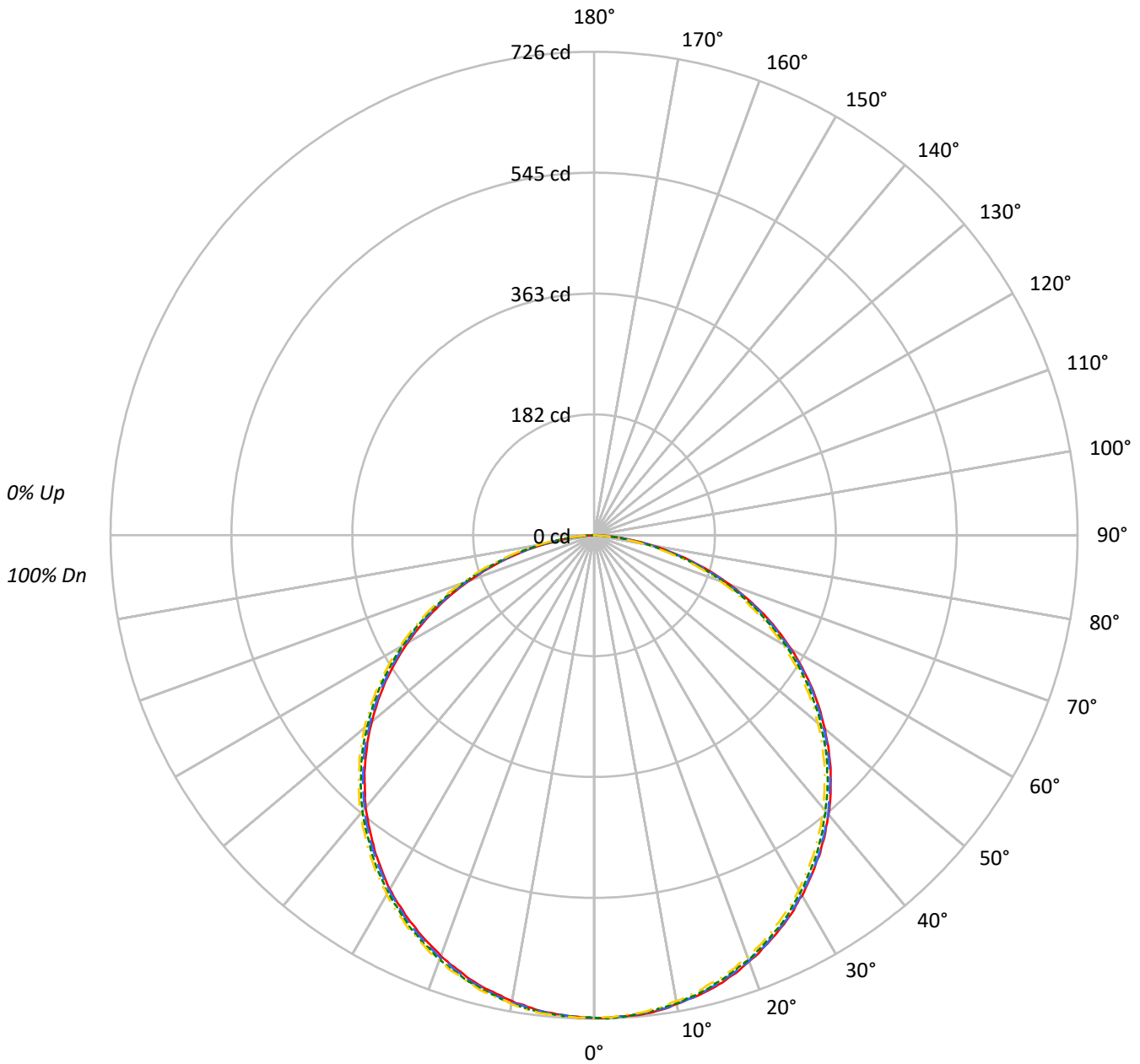
Lumens per Lamp: N/A
 Luminaire Lumens: 2116.8 lumens
 Efficiency: N/A
 Efficacy: 89.3 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 23.7
 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69	69	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50	50	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3469	3469	3469	3469
5°	3476	3468	3459	3467
10°	3471	3468	3450	3470
15°	3478	3455	3438	3457
20°	3467	3455	3423	3451
25°	3460	3442	3403	3438
30°	3453	3422	3389	3419
35°	3439	3405	3362	3402
40°	3422	3377	3330	3379
45°	3398	3349	3291	3350
50°	3368	3311	3243	3303
55°	3326	3265	3185	3255
60°	3268	3189	3095	3176
65°	3184	3084	2969	3072
70°	3035	2919	2779	2907
75°	2811	2669	2488	2636
80°	2466	2259	2022	2218
85°	1888	1592	1251	1537

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.2
10°-20°	197.1	9.3
20°-30°	300.1	14.2
30°-40°	364.3	17.2
40°-50°	381.6	18.0
50°-60°	348.9	16.5
60°-70°	268.6	12.7
70°-80°	151.8	7.2
80°-90°	35.7	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	565.9	26.7
0°-40°	930.2	43.9
0°-60°	1660.6	78.5
0°-90°	2116.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2116.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	725	725	725	725	725	
5°	724	722	720	722	724	69
15°	702	698	694	698	702	198
25°	656	652	645	651	656	302
35°	589	583	576	582	589	368
45°	502	495	486	495	502	387
55°	399	391	382	390	399	356
65°	281	272	262	271	281	277
75°	152	144	135	143	152	161
85°	34	29	23	28	34	42
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°	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1
0.5°	725.0	724.8	725.2	724.6	725.3	725.9	724.6	725.1	724.6	725.0	724.2
1°	725.6	724.3	725.3	725.0	725.0	725.3	724.1	724.5	724.2	724.7	725.1
1.5°	724.9	724.9	724.5	725.0	725.9	725.1	723.6	724.4	724.4	724.1	724.9
2°	724.5	724.0	724.3	724.9	725.6	724.8	724.5	723.6	723.4	723.5	723.5
2.5°	724.4	724.7	724.1	724.9	725.0	724.8	723.7	723.5	723.2	723.2	723.3
3°	723.3	724.8	723.9	724.2	724.3	724.2	722.8	723.9	723.1	722.5	723.4
3.5°	723.8	725.0	723.6	724.1	724.5	723.5	722.8	723.4	722.2	722.3	722.3
4°	723.6	724.2	723.4	724.2	724.0	723.1	721.3	722.8	721.6	722.6	721.6
4.5°	723.5	724.1	722.5	724.0	723.2	722.9	721.3	721.4	721.6	721.9	721.4
5°	723.8	723.4	722.5	722.9	722.2	722.6	720.7	721.0	720.3	720.1	722.0
5.5°	723.3	722.9	721.9	721.6	721.6	721.6	720.4	719.9	720.2	719.3	721.0
6°	722.9	722.9	721.4	721.8	721.6	720.2	719.9	719.7	719.6	718.6	719.7
6.5°	722.2	722.6	720.8	720.5	720.7	720.4	718.8	718.6	718.5	718.0	719.1
7°	721.8	722.0	720.1	720.2	719.9	719.4	716.8	717.3	717.6	716.8	719.0
7.5°	720.5	720.3	719.1	718.8	718.0	718.8	716.7	716.5	716.2	716.0	717.6
8°	719.7	718.8	718.6	718.6	716.9	717.9	716.1	715.3	715.4	715.1	715.5
8.5°	718.9	717.9	718.3	716.8	716.5	717.0	714.9	714.5	713.3	714.3	714.8
9°	717.9	716.7	717.1	716.4	715.5	716.0	713.1	713.7	712.4	712.8	713.7
9.5°	716.2	716.2	715.5	714.8	714.8	715.0	711.3	711.8	712.2	711.9	713.4
10°	714.6	714.7	714.1	714.3	713.9	713.7	710.4	710.5	710.2	711.4	712.1
10.5°	713.7	713.7	713.7	712.4	712.5	711.7	709.5	709.1	708.7	709.7	710.6
11°	712.5	712.5	712.5	711.8	711.0	710.6	708.0	708.7	707.3	707.7	709.0
11.5°	710.9	711.8	710.7	709.8	708.6	709.6	706.6	706.9	705.1	706.8	707.7
12°	710.3	710.0	709.8	708.3	708.0	708.4	704.6	706.2	704.1	704.8	706.9
12.5°	709.1	708.5	709.2	707.1	707.0	707.0	703.0	704.7	702.2	703.4	705.0
13°	707.7	708.2	707.4	705.4	705.4	705.3	701.9	702.6	700.9	702.2	702.7
13.5°	706.3	706.9	705.0	704.0	703.9	703.5	700.0	701.4	700.2	700.8	700.6
14°	705.0	705.3	703.4	703.1	702.3	700.4	697.5	699.4	698.4	699.5	699.7
14.5°	703.4	703.1	701.5	700.7	700.4	699.4	695.6	697.2	696.3	697.3	698.0
15°	702.3	701.2	700.1	699.8	697.6	698.1	694.4	695.5	694.2	694.7	696.7
15.5°	700.0	699.6	698.4	697.5	696.1	696.0	693.1	693.3	692.7	692.7	695.0
16°	698.7	697.6	696.2	695.9	694.9	694.4	691.1	691.4	690.9	691.5	693.1
16.5°	696.5	695.7	694.4	693.5	692.4	692.6	689.0	689.5	687.8	689.5	691.0
17°	693.8	693.3	692.3	692.4	690.4	690.5	687.0	687.9	685.5	686.8	688.1
17.5°	692.4	691.6	690.6	689.3	687.8	688.4	685.2	685.8	683.5	684.4	686.1
18°	690.9	689.8	688.5	687.3	686.3	685.8	683.3	683.2	681.3	682.3	684.2
18.5°	688.4	687.8	686.5	685.0	683.6	683.9	680.0	680.4	679.6	680.1	681.2
19°	685.5	686.1	684.2	683.0	682.2	681.5	677.9	678.2	676.8	677.9	678.3
19.5°	683.3	684.1	682.6	680.7	679.8	679.3	675.9	675.6	674.8	675.6	676.6
20°	681.0	681.2	680.5	679.0	678.6	677.3	673.6	673.2	672.4	673.1	674.9
20.5°	678.5	678.5	677.3	676.2	675.9	674.6	671.4	670.8	669.2	670.5	673.2
21°	677.0	675.9	675.1	673.9	673.1	672.1	669.1	668.2	666.8	668.8	670.1
21.5°	674.5	673.9	673.1	672.3	670.4	669.5	666.4	665.4	664.2	666.5	667.1
22°	671.2	671.1	670.5	669.9	668.0	666.3	664.3	664.1	661.4	663.1	664.7

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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°	668.5	668.5	668.5	666.8	665.0	663.5	661.6	661.0	658.9	660.3	661.7
23°	666.2	665.8	665.7	663.8	662.3	661.8	658.5	658.6	656.3	658.0	659.3
23.5°	663.4	663.7	662.4	661.1	660.0	659.0	655.6	656.0	654.0	655.8	656.5
24°	660.9	661.2	659.6	659.1	656.9	656.0	653.0	652.5	651.2	652.3	653.8
24.5°	658.3	658.1	656.8	655.8	654.2	653.2	649.0	649.1	647.4	648.6	650.7
25°	655.5	654.7	654.2	652.8	652.0	650.3	646.2	646.9	644.7	645.8	647.5
25.5°	652.4	652.0	651.1	649.6	648.9	647.5	643.9	644.4	642.4	643.0	644.6
26°	649.9	649.5	648.2	646.8	646.6	644.5	640.7	641.2	639.3	640.4	642.6
26.5°	647.1	646.9	645.8	643.7	642.8	641.0	637.6	638.1	636.4	637.0	639.0
27°	643.8	643.8	642.9	640.9	640.1	637.5	634.8	635.0	632.6	633.5	635.3
27.5°	641.1	641.3	639.1	638.2	636.5	634.1	631.8	631.7	629.1	630.5	631.9
28°	638.3	637.0	636.1	635.3	632.3	631.0	628.5	627.8	626.6	628.4	628.9
28.5°	633.7	633.9	632.8	632.1	628.8	627.3	625.1	624.7	623.5	625.0	625.1
29°	631.0	631.0	629.3	628.6	626.0	624.8	621.9	621.4	620.6	621.7	622.2
29.5°	627.0	628.3	626.7	625.3	622.5	621.7	618.6	617.8	616.5	618.1	618.9
30°	625.1	624.8	622.9	621.4	619.4	617.4	614.9	614.2	613.5	614.2	615.4
30.5°	621.3	620.8	619.4	617.5	616.4	613.9	610.9	610.8	610.1	610.3	611.3
31°	617.2	616.8	616.0	614.3	612.4	610.1	607.3	606.8	606.4	606.9	608.4
31.5°	613.7	613.0	612.8	610.7	608.8	606.5	603.2	602.7	602.3	602.8	604.4
32°	610.3	610.0	608.6	607.6	604.9	603.7	599.6	599.6	598.6	599.2	600.8
32.5°	606.7	606.5	605.7	603.5	601.0	600.5	596.1	595.2	594.3	595.8	596.7
33°	603.3	603.0	602.6	600.2	598.0	596.6	592.6	591.5	590.6	591.9	593.5
33.5°	599.5	599.3	598.8	596.1	593.9	592.8	588.6	588.7	586.9	588.0	589.0
34°	595.2	596.1	594.8	592.4	590.9	588.5	585.2	585.2	583.0	584.4	585.3
34.5°	591.3	592.4	591.3	588.2	586.9	584.9	581.8	580.8	579.7	580.2	581.6
35°	588.8	588.4	587.6	584.1	583.0	581.0	577.3	576.6	575.6	576.5	578.1
35.5°	585.0	584.4	583.7	581.0	579.0	576.7	572.8	572.1	570.6	573.1	573.9
36°	580.3	580.2	579.7	577.2	575.0	571.9	569.0	569.2	566.7	569.1	570.5
36.5°	576.2	576.5	574.8	573.6	570.4	568.0	564.6	564.6	562.6	564.6	565.6
37°	572.9	572.8	570.9	568.9	566.3	564.0	560.4	560.9	558.3	559.8	561.2
37.5°	569.0	568.1	567.4	564.6	562.6	559.6	556.7	556.0	554.3	555.7	557.4
38°	564.7	564.2	562.9	561.1	558.2	555.5	553.0	551.2	550.4	552.1	553.5
38.5°	559.7	560.2	558.6	556.2	553.3	551.2	548.7	547.0	546.0	548.4	549.6
39°	555.8	555.5	555.0	552.1	548.9	547.6	544.0	543.1	541.6	544.1	545.2
39.5°	551.5	551.2	550.9	547.3	544.9	543.3	539.7	538.6	537.7	538.7	540.3
40°	547.9	546.7	546.7	543.0	540.7	538.6	535.6	534.3	533.3	534.4	535.7
40.5°	543.8	542.9	542.2	538.6	535.9	533.9	530.7	530.3	528.7	529.8	531.4
41°	539.3	538.6	537.3	535.0	531.8	529.3	525.8	525.4	524.4	524.8	527.1
41.5°	534.8	534.2	532.7	530.6	527.3	525.4	521.5	520.3	518.9	520.5	522.4
42°	530.1	529.2	528.3	525.9	523.0	520.2	516.9	516.1	514.4	516.0	517.8
42.5°	525.6	525.2	523.3	521.8	518.5	515.7	512.2	511.2	509.6	511.8	513.9
43°	521.0	521.1	518.6	516.6	513.9	512.0	507.5	506.9	505.3	506.6	508.6
43.5°	516.2	516.4	514.8	511.7	509.7	507.2	503.1	501.7	500.9	502.4	504.1
44°	511.7	511.3	510.0	506.9	504.9	501.8	498.4	497.1	496.4	497.8	499.2
44.5°	507.0	506.8	505.1	502.1	499.2	496.9	494.0	492.4	491.3	493.5	494.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	502.2	501.4	500.1	497.5	495.0	492.2	489.0	487.8	486.4	488.0	489.9
45.5°	497.8	497.1	495.1	493.5	490.5	488.0	484.4	482.7	481.3	483.5	485.0
46°	492.6	492.7	490.4	488.3	485.8	483.1	478.5	477.6	476.1	478.5	480.5
46.5°	487.3	487.0	485.6	482.7	481.0	478.2	473.9	472.7	471.2	473.7	475.5
47°	482.6	482.1	480.3	478.2	476.2	473.1	468.8	467.7	466.4	468.6	470.8
47.5°	477.8	477.1	475.1	472.8	470.8	468.0	463.7	462.7	461.7	463.1	465.4
48°	472.9	472.6	470.0	468.1	465.5	463.1	459.2	458.0	456.6	458.0	459.9
48.5°	467.3	467.3	465.4	463.1	460.0	457.7	453.9	453.1	451.7	452.6	455.4
49°	462.3	462.4	460.5	458.0	455.1	452.4	449.1	447.9	446.3	447.8	449.8
49.5°	457.3	457.5	455.2	452.8	449.8	446.9	443.6	442.6	441.0	443.0	444.1
50°	452.6	452.3	449.6	447.4	444.9	442.1	438.1	437.7	435.8	437.9	439.3
50.5°	446.9	446.9	444.6	442.0	440.1	437.5	433.2	432.4	430.3	432.2	434.2
51°	441.4	441.5	439.2	437.0	435.0	431.7	427.5	426.6	425.1	426.5	428.8
51.5°	436.4	436.3	434.3	431.6	429.9	426.2	422.9	421.1	419.7	421.4	423.4
52°	431.6	430.6	429.1	426.5	423.8	421.5	417.7	416.3	414.2	416.1	418.0
52.5°	426.3	425.5	423.7	421.1	418.0	415.9	412.5	410.9	409.1	410.3	412.5
53°	420.8	420.4	418.1	415.6	412.7	409.7	406.7	405.2	403.4	405.7	407.2
53.5°	415.0	414.8	412.8	410.6	407.5	404.4	401.5	399.1	398.1	400.2	401.7
54°	410.0	409.7	407.8	404.6	401.8	399.4	395.5	393.8	392.4	394.1	396.5
54.5°	404.9	404.2	402.3	399.0	397.0	394.1	389.3	388.0	387.4	388.3	390.8
55°	398.8	398.5	397.1	393.3	391.4	388.4	383.9	383.0	381.9	382.8	385.0
55.5°	393.0	392.5	391.0	388.2	385.6	382.3	378.5	376.9	375.9	377.2	379.0
56°	387.9	386.9	385.0	382.5	379.5	376.5	373.1	371.4	370.4	371.6	373.9
56.5°	382.0	381.6	379.7	376.5	374.0	370.6	367.1	366.3	364.6	366.3	368.3
57°	376.2	376.1	373.7	370.6	368.4	365.2	361.5	360.3	358.5	360.7	362.8
57.5°	370.5	370.3	368.3	364.9	362.9	359.8	355.3	353.9	352.9	354.6	356.8
58°	364.9	364.0	362.5	359.0	356.9	353.6	349.4	348.1	347.0	348.5	350.6
58.5°	358.9	358.1	356.3	353.2	350.8	347.3	343.6	342.4	341.4	342.5	344.7
59°	353.2	352.8	350.3	347.5	345.3	341.8	338.1	336.5	335.1	336.8	338.7
59.5°	347.6	346.7	344.8	342.1	339.5	335.9	332.1	330.8	329.3	331.3	332.8
60°	341.6	340.8	338.5	336.2	333.3	330.0	326.6	325.0	323.5	325.4	327.4
60.5°	335.7	334.7	332.6	330.3	326.8	324.3	320.6	319.0	317.6	318.9	321.4
61°	329.8	328.5	326.5	324.0	321.1	318.3	314.7	312.7	311.7	313.2	315.5
61.5°	323.3	322.5	320.6	317.7	315.1	312.1	308.8	306.4	305.2	307.0	309.4
62°	317.7	316.5	314.6	311.6	309.1	306.1	302.7	300.7	299.2	301.0	303.2
62.5°	311.5	310.5	308.4	305.7	302.8	300.2	296.4	294.5	293.0	294.9	296.9
63°	305.5	304.4	302.3	299.7	297.0	294.0	290.2	288.7	287.0	288.6	290.6
63.5°	299.9	298.1	296.3	293.2	291.1	287.9	284.2	282.3	281.2	282.2	284.9
64°	293.3	292.3	290.2	287.3	285.2	281.6	277.7	276.1	274.9	276.2	278.8
64.5°	287.3	286.2	284.0	280.8	278.5	275.6	271.2	269.8	268.4	269.8	272.5
65°	281.3	280.2	277.9	274.5	272.4	269.3	265.0	263.6	262.3	263.7	266.1
65.5°	275.1	273.9	271.8	268.1	266.3	262.9	258.6	257.5	256.2	257.6	260.0
66°	268.2	267.6	265.1	261.8	259.9	256.6	252.4	250.9	250.1	251.2	253.7
66.5°	261.7	261.1	258.7	255.8	253.5	250.4	246.1	244.7	243.8	244.8	247.1
67°	255.8	254.5	252.4	249.3	247.4	244.0	240.3	238.2	237.5	238.5	240.9

TEST NUMBER: P869748
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	249.3	248.1	245.9	242.7	241.0	237.7	233.9	231.7	231.1	232.0	234.3
68°	242.8	241.9	239.5	236.2	234.8	231.3	227.5	225.7	224.7	226.0	228.2
68.5°	236.4	235.5	233.3	230.2	228.2	224.9	221.0	219.4	218.1	219.4	222.0
69°	230.1	229.4	226.9	224.0	222.2	218.3	214.4	212.7	211.6	212.9	215.6
69.5°	223.9	223.0	220.4	216.9	215.4	211.6	208.0	206.1	205.2	206.2	209.3
70°	217.0	216.5	213.8	210.5	208.7	205.4	201.5	199.8	198.7	199.8	202.4
70.5°	210.6	210.1	207.2	204.1	202.5	199.2	195.4	193.6	192.5	193.7	196.2
71°	204.1	203.5	201.2	197.9	196.1	192.8	188.9	187.2	186.2	187.3	189.6
71.5°	197.8	197.3	194.6	191.0	189.5	186.2	182.3	180.5	179.6	180.8	183.1
72°	191.5	190.5	187.9	184.6	183.1	179.6	175.8	174.0	173.4	174.4	176.9
72.5°	185.1	183.7	181.3	178.3	176.7	173.3	169.5	167.8	166.8	168.0	170.5
73°	178.5	177.1	174.8	171.6	170.3	167.0	163.2	161.2	160.1	161.6	164.0
73.5°	171.7	170.7	168.6	165.2	163.6	160.3	156.8	154.7	153.7	155.5	157.5
74°	165.3	164.2	161.7	158.7	157.1	153.8	150.4	148.4	147.3	148.9	151.1
74.5°	158.8	157.7	155.4	151.9	150.9	147.6	144.0	142.1	141.1	142.5	144.6
75°	152.1	151.1	148.9	145.3	144.4	140.9	137.5	135.7	134.6	136.1	138.2
75.5°	145.8	144.9	142.5	139.1	137.9	134.6	131.4	129.1	128.4	130.0	132.0
76°	139.5	138.5	136.2	132.7	131.5	128.2	124.9	122.8	122.1	123.5	125.7
76.5°	133.0	132.1	129.7	126.3	125.3	121.9	118.6	116.8	115.8	117.1	119.2
77°	126.8	125.5	123.4	120.0	118.9	115.5	112.3	110.4	109.5	110.7	112.9
77.5°	120.6	119.2	117.2	113.8	112.5	109.2	106.1	104.1	103.3	104.7	106.8
78°	114.1	112.9	110.9	107.6	106.4	103.1	100.1	97.9	97.2	98.4	100.6
78.5°	107.8	106.7	104.7	101.4	100.3	96.9	93.8	91.9	91.1	92.3	94.4
79°	101.8	100.5	98.4	95.1	94.0	90.6	87.6	85.9	85.0	86.2	88.2
79.5°	95.6	94.4	92.4	89.1	87.9	84.8	81.8	80.1	79.2	80.5	82.4
80°	89.5	88.1	86.2	83.1	82.0	79.0	76.0	74.3	73.4	74.8	76.8
80.5°	83.6	82.2	80.5	77.3	76.3	73.1	70.3	68.6	67.6	69.1	71.2
81°	77.6	76.3	74.8	71.5	70.6	67.5	64.6	62.9	62.1	63.5	65.5
81.5°	71.7	70.7	68.9	65.8	64.9	61.8	59.0	57.4	56.8	57.8	59.8
82°	66.0	65.0	62.9	60.1	59.2	56.3	53.5	51.8	51.3	52.4	54.3
82.5°	60.2	59.5	57.2	54.4	53.8	50.9	48.4	46.7	46.0	47.1	49.0
83°	54.6	53.5	51.8	49.1	48.6	45.8	43.3	41.6	41.0	42.2	44.0
83.5°	49.4	48.2	46.4	44.1	43.4	40.7	38.2	36.7	36.2	37.1	38.8
84°	44.2	43.2	41.4	39.1	38.5	35.8	33.4	31.9	31.3	32.4	34.1
84.5°	39.3	38.3	36.7	34.3	33.7	31.1	28.8	27.4	27.0	28.0	29.4
85°	34.4	33.5	32.0	29.7	29.0	26.7	24.5	23.1	22.8	23.6	25.1
85.5°	29.7	28.9	27.5	25.4	24.6	22.3	20.3	19.2	18.9	19.6	21.0
86°	25.5	24.7	23.4	21.4	20.6	18.5	16.7	15.5	15.3	16.0	17.3
86.5°	21.4	20.9	19.7	17.8	16.9	15.2	13.6	12.6	12.4	13.2	14.1
87°	17.9	17.3	16.1	14.4	13.8	12.2	10.7	9.8	9.7	10.3	11.4
87.5°	14.5	14.0	12.9	11.4	10.9	9.4	8.0	7.2	7.2	7.8	8.7
88°	11.4	10.9	10.0	8.5	8.1	6.8	5.6	5.0	4.9	5.4	6.2
88.5°	8.5	8.1	7.3	6.1	5.9	4.6	3.6	3.0	2.8	3.3	4.1
89°	6.1	5.8	5.1	4.1	4.1	2.9	1.9	1.5	1.3	1.6	2.3
89.5°	4.2	4.0	3.4	2.6	2.3	1.4	0.7	1.3	1.1	1.5	0.8

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



TEST NUMBER: P869748
CATALOG NUMBER: SMX18SLSFSD2W-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: P869748
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	725.1	725.1	725.1	725.1	725.1	725.1
0.5°	725.7	724.2	726.1	724.7	724.6	725.0
1°	725.0	724.1	726.4	724.9	724.5	725.6
1.5°	724.8	724.9	725.8	724.9	724.7	724.9
2°	724.4	724.8	725.0	724.9	725.7	724.5
2.5°	723.9	723.6	725.8	724.4	724.5	724.4
3°	724.7	723.1	725.7	723.9	725.1	723.3
3.5°	724.1	723.9	724.8	723.5	724.5	723.8
4°	723.9	723.2	724.8	723.7	723.6	723.6
4.5°	723.8	722.5	724.3	723.3	723.5	723.5
5°	723.3	721.9	724.5	722.8	723.1	723.8
5.5°	721.6	721.3	724.2	722.5	723.4	723.3
6°	720.7	721.0	724.2	722.2	722.2	722.9
6.5°	719.9	721.2	723.3	722.2	721.9	722.2
7°	719.6	719.5	722.6	720.9	721.6	721.8
7.5°	718.7	719.4	721.7	720.5	721.5	720.5
8°	717.7	718.5	719.9	719.9	720.5	719.7
8.5°	716.5	717.1	719.0	718.8	718.5	718.9
9°	715.5	716.2	718.8	717.1	718.4	717.9
9.5°	713.7	715.4	717.5	716.2	716.9	716.2
10°	712.8	714.3	715.8	714.8	715.5	714.6
10.5°	711.1	712.7	714.6	712.5	715.2	713.7
11°	710.1	711.1	713.2	711.4	713.3	712.5
11.5°	708.2	709.4	711.7	710.6	711.6	710.9
12°	706.7	707.3	710.9	709.6	710.4	710.3
12.5°	705.3	706.3	708.6	707.7	709.3	709.1
13°	704.2	704.5	706.6	706.8	707.7	707.7
13.5°	702.4	703.5	705.4	705.5	706.1	706.3
14°	701.2	701.6	704.6	704.3	704.0	705.0
14.5°	700.0	700.3	702.0	702.3	702.9	703.4
15°	698.1	698.1	700.1	699.9	702.0	702.3
15.5°	695.0	696.9	698.6	697.5	700.7	700.0
16°	693.1	695.3	696.8	696.5	698.3	698.7
16.5°	691.2	692.9	695.0	694.6	697.1	696.5
17°	689.7	690.0	692.9	691.8	694.9	693.8
17.5°	687.5	688.4	691.8	689.8	692.9	692.4
18°	685.1	687.0	689.7	688.9	690.9	690.9
18.5°	683.0	685.0	686.9	687.0	688.1	688.4
19°	680.6	682.4	684.0	684.1	685.4	685.5
19.5°	677.9	680.2	681.7	681.3	683.3	683.3
20°	675.9	677.9	679.8	679.0	680.9	681.0
20.5°	674.5	675.9	676.8	677.0	678.8	678.5
21°	672.2	672.8	674.5	675.3	676.7	677.0
21.5°	669.4	669.5	672.1	673.2	674.8	674.5
22°	666.5	666.8	669.4	670.2	672.7	671.2

TEST NUMBER: P869748
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	663.0	665.2	666.8	667.1	669.3	668.5
23°	660.7	662.6	664.7	664.6	666.1	666.2
23.5°	657.7	659.1	661.7	662.8	663.5	663.4
24°	655.1	656.4	659.6	659.1	660.8	660.9
24.5°	653.2	654.3	656.6	656.5	658.1	658.3
25°	650.1	651.4	653.5	654.5	656.1	655.5
25.5°	646.8	649.0	650.2	651.6	653.8	652.4
26°	644.0	644.9	647.4	648.4	650.1	649.9
26.5°	641.0	641.7	644.9	644.6	646.6	647.1
27°	637.3	638.4	642.4	641.8	643.9	643.8
27.5°	633.8	634.7	638.7	639.3	641.9	641.1
28°	630.7	631.4	635.1	636.8	638.6	638.3
28.5°	627.0	629.1	631.6	633.2	635.0	633.7
29°	624.5	625.9	629.2	629.9	630.8	631.0
29.5°	621.3	622.3	625.6	626.4	628.5	627.0
30°	618.5	618.9	621.9	622.4	625.4	625.1
30.5°	613.9	616.3	617.8	618.4	621.6	621.3
31°	610.3	611.4	614.8	615.6	617.9	617.2
31.5°	606.6	608.0	611.7	611.5	614.8	613.7
32°	603.8	604.7	608.3	608.1	611.7	610.3
32.5°	600.6	601.5	604.4	604.9	608.6	606.7
33°	596.6	597.8	601.1	602.1	604.5	603.3
33.5°	591.7	593.9	597.2	598.1	600.9	599.5
34°	588.3	590.1	593.0	593.8	596.7	595.2
34.5°	584.0	586.4	589.3	590.1	592.9	591.3
35°	580.3	582.5	585.4	586.6	589.2	588.8
35.5°	576.9	577.9	581.9	582.8	585.0	585.0
36°	572.9	573.5	577.6	578.8	580.7	580.3
36.5°	569.0	569.4	573.5	573.8	576.8	576.2
37°	564.8	565.4	570.0	570.0	572.6	572.9
37.5°	560.1	561.8	565.7	565.6	569.2	569.0
38°	555.7	557.5	561.7	561.9	565.3	564.7
38.5°	551.5	553.4	557.1	558.0	561.2	559.7
39°	547.0	549.6	553.2	553.8	555.9	555.8
39.5°	543.0	545.8	548.9	549.0	551.8	551.5
40°	538.4	541.0	544.6	545.5	547.2	547.9
40.5°	534.7	536.3	540.1	541.3	543.1	543.8
41°	530.6	532.2	535.5	537.0	538.4	539.3
41.5°	525.6	528.1	531.0	532.2	534.2	534.8
42°	521.2	523.2	526.9	527.3	530.5	530.1
42.5°	515.9	518.0	522.1	522.6	525.9	525.6
43°	511.2	513.9	516.8	518.5	521.5	521.0
43.5°	506.2	508.7	511.7	514.2	516.5	516.2
44°	501.9	503.5	506.9	509.1	511.8	511.7
44.5°	497.1	499.6	503.2	503.6	507.1	507.0

TEST NUMBER: P869748
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	492.3	495.2	498.7	498.8	501.8	502.2
45.5°	487.2	490.5	493.6	494.2	496.7	497.8
46°	482.5	485.5	489.0	489.6	492.1	492.6
46.5°	477.5	480.3	484.1	485.5	487.3	487.3
47°	472.5	475.4	479.2	480.3	482.4	482.6
47.5°	467.4	470.7	474.2	475.2	477.2	477.8
48°	462.5	465.5	469.1	470.2	472.5	472.9
48.5°	457.5	459.9	463.9	465.2	467.6	467.3
49°	452.1	454.7	458.4	460.0	462.4	462.3
49.5°	447.1	449.7	452.9	455.0	457.5	457.3
50°	441.8	443.8	447.5	450.2	452.1	452.6
50.5°	436.4	438.8	442.3	445.0	446.6	446.9
51°	431.5	434.2	437.6	439.3	441.6	441.4
51.5°	426.3	428.4	432.5	433.8	436.7	436.4
52°	421.1	422.8	427.4	428.3	431.6	431.6
52.5°	415.4	417.9	422.0	423.7	426.2	426.3
53°	410.0	412.6	416.7	418.5	421.2	420.8
53.5°	405.0	407.2	411.0	412.1	415.5	415.0
54°	399.2	401.6	405.6	406.7	410.0	410.0
54.5°	393.7	395.8	400.1	401.8	404.0	404.9
55°	388.2	390.3	394.3	396.1	398.9	398.8
55.5°	382.8	384.6	388.6	390.7	393.6	393.0
56°	377.1	379.1	383.1	385.0	387.9	387.9
56.5°	371.4	373.3	377.5	379.1	382.4	382.0
57°	365.3	367.4	371.6	373.4	376.5	376.2
57.5°	359.3	361.5	365.7	366.9	370.4	370.5
58°	353.8	355.8	359.8	361.7	364.9	364.9
58.5°	348.4	349.8	353.5	356.3	358.9	358.9
59°	342.6	344.1	347.8	350.6	353.2	353.2
59.5°	336.3	338.2	341.7	344.6	347.3	347.6
60°	330.8	331.9	336.2	338.5	341.6	341.6
60.5°	324.1	326.0	329.9	332.5	335.6	335.7
61°	318.1	319.8	324.1	326.3	329.4	329.8
61.5°	312.3	314.3	318.5	320.2	323.2	323.3
62°	306.1	308.3	312.5	314.2	317.3	317.7
62.5°	300.2	302.2	306.5	308.3	311.2	311.5
63°	293.9	295.7	300.1	301.9	305.5	305.5
63.5°	287.9	289.6	294.1	296.0	299.1	299.9
64°	281.8	283.8	287.9	289.7	292.4	293.3
64.5°	275.6	277.8	281.9	283.9	286.2	287.3
65°	269.4	271.4	275.3	277.8	280.2	281.3
65.5°	263.5	265.2	269.1	271.3	274.0	275.1
66°	257.1	258.4	262.8	265.1	267.7	268.2
66.5°	250.7	252.5	256.5	259.1	261.5	261.7
67°	244.2	246.2	250.1	252.8	255.5	255.8

TEST NUMBER: P869748
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	238.0	239.6	243.3	245.9	249.0	249.3
68°	231.5	233.1	237.1	239.9	242.7	242.8
68.5°	225.4	226.8	230.8	233.5	235.9	236.4
69°	219.4	220.7	224.1	226.8	229.5	230.1
69.5°	212.8	214.3	217.7	220.5	223.1	223.9
70°	206.2	207.8	211.2	214.3	216.7	217.0
70.5°	199.8	201.0	205.0	207.8	210.4	210.6
71°	193.2	194.5	198.5	201.0	203.9	204.1
71.5°	186.6	188.2	191.9	194.9	197.6	197.8
72°	180.0	181.8	185.6	188.3	190.7	191.5
72.5°	174.0	175.1	179.1	181.6	184.2	185.1
73°	167.4	168.3	172.4	175.0	177.7	178.5
73.5°	161.1	162.2	166.3	168.6	171.2	171.7
74°	154.7	155.5	159.5	162.0	164.8	165.3
74.5°	148.4	149.1	153.0	155.8	158.1	158.8
75°	141.7	142.6	146.4	149.3	151.5	152.1
75.5°	135.4	136.3	140.2	142.8	145.0	145.8
76°	129.1	129.9	133.6	136.3	138.7	139.5
76.5°	122.6	123.6	127.4	130.0	132.2	133.0
77°	116.2	117.1	120.9	123.5	126.0	126.8
77.5°	109.9	111.0	114.6	117.5	119.9	120.6
78°	103.8	104.8	108.5	111.2	113.5	114.1
78.5°	97.6	98.7	102.5	105.2	107.3	107.8
79°	91.6	92.6	96.2	98.8	101.0	101.8
79.5°	85.4	86.6	90.1	92.7	95.0	95.6
80°	79.6	80.5	83.9	86.5	88.9	89.5
80.5°	74.0	74.8	78.3	80.7	82.9	83.6
81°	68.3	69.1	72.5	75.0	77.1	77.6
81.5°	62.7	63.3	66.7	69.2	71.2	71.7
82°	57.1	57.6	61.0	63.5	65.5	66.0
82.5°	51.8	52.3	55.4	57.7	59.8	60.2
83°	46.7	47.0	49.9	52.1	54.3	54.6
83.5°	41.5	41.9	44.7	46.9	49.0	49.4
84°	36.6	37.0	39.8	41.8	43.6	44.2
84.5°	31.9	32.3	34.9	37.0	38.8	39.3
85°	27.4	28.0	30.4	32.4	33.9	34.4
85.5°	23.1	23.6	26.0	28.0	29.4	29.7
86°	19.2	19.9	21.8	23.7	25.2	25.5
86.5°	15.8	16.3	18.3	19.9	21.2	21.4
87°	12.9	13.2	14.9	16.3	17.5	17.9
87.5°	10.1	10.3	11.9	13.1	14.1	14.5
88°	7.5	7.4	8.9	10.3	11.2	11.4
88.5°	5.2	5.0	6.1	7.3	8.2	8.5
89°	3.3	3.3	4.1	5.0	5.7	6.1
89.5°	1.6	1.8	2.5	3.2	4.0	4.2

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869748
CATALOG NUMBER: SMX18SLSFSD2W-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)