

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: P869750

Luminaire Tested: **SMX18SLSFSD2W-2000LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869750
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFSD2W-2000LM-5000K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

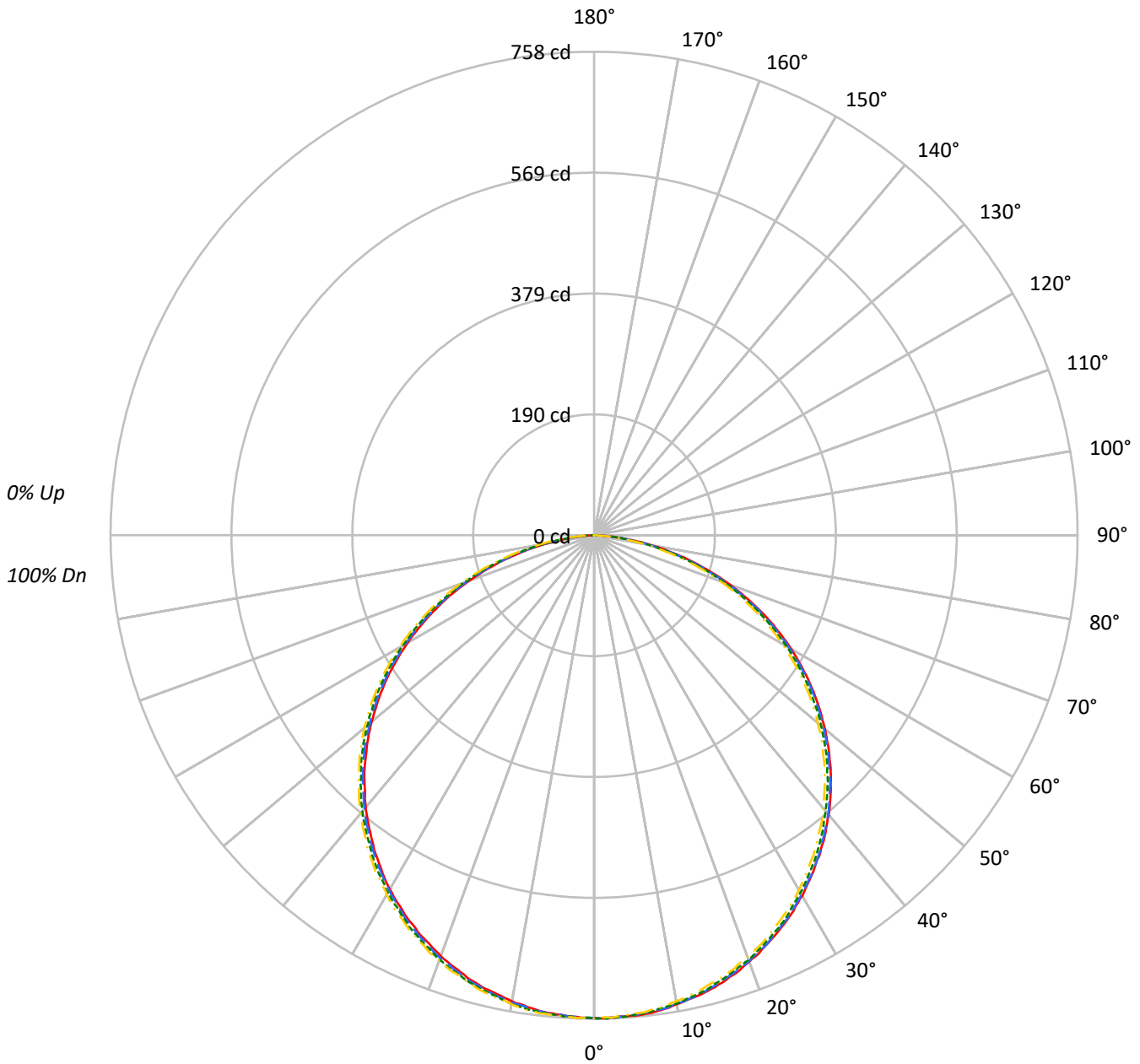
Lumens per Lamp: N/A
 Luminaire Lumens: 2210.9 lumens
 Efficiency: N/A
 Efficacy: 94.1 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 23.5
 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	33	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°	3623	3623	3623	3623
5°	3630	3622	3613	3621
10°	3626	3622	3603	3624
15°	3633	3609	3591	3611
20°	3621	3608	3575	3605
25°	3614	3595	3554	3592
30°	3607	3574	3540	3571
35°	3592	3557	3511	3553
40°	3574	3527	3479	3528
45°	3549	3498	3438	3500
50°	3518	3459	3388	3450
55°	3474	3410	3327	3400
60°	3414	3332	3233	3317
65°	3326	3220	3100	3209
70°	3171	3049	2902	3035
75°	2937	2787	2599	2752
80°	2576	2361	2113	2317
85°	1971	1663	1306	1603

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	3.2
10°-20°	205.9	9.3
20°-30°	313.4	14.2
30°-40°	380.5	17.2
40°-50°	398.6	18.0
50°-60°	364.4	16.5
60°-70°	280.5	12.7
70°-80°	158.6	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°	591.0	26.7
0°-40°	971.6	43.9
0°-60°	1734.5	78.5
0°-90°	2210.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2210.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	757	757	757	757	757	
5°	756	754	752	754	756	72
15°	734	729	725	729	734	207
25°	685	681	673	680	685	316
35°	615	609	601	608	615	384
45°	524	517	508	517	524	405
55°	416	409	399	408	416	372
65°	294	284	274	284	294	290
75°	159	151	141	149	159	168
85°	36	30	24	29	36	43
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°	757.4	757.4	757.4	757.4	757.4	757.4	757.4	757.4	757.4	757.4	757.4
0.5°	757.2	757.0	757.5	756.8	757.6	758.2	756.8	757.4	756.8	757.2	756.5
1°	757.8	756.5	757.5	757.3	757.2	757.5	756.3	756.8	756.4	756.9	757.4
1.5°	757.2	757.2	756.8	757.3	758.2	757.4	755.8	756.6	756.6	756.3	757.2
2°	756.7	756.2	756.5	757.2	757.8	757.1	756.8	755.8	755.6	755.7	755.7
2.5°	756.6	756.9	756.3	757.2	757.2	757.1	755.9	755.7	755.4	755.4	755.5
3°	755.5	757.1	756.1	756.4	756.5	756.4	754.9	756.1	755.2	754.6	755.6
3.5°	756.0	757.2	755.8	756.3	756.7	755.7	754.9	755.6	754.4	754.4	754.4
4°	755.8	756.4	755.6	756.5	756.2	755.2	753.4	754.9	753.7	754.8	753.7
4.5°	755.7	756.3	754.6	756.2	755.4	755.1	753.4	753.4	753.7	754.0	753.5
5°	756.0	755.6	754.6	755.1	754.3	754.8	752.7	753.1	752.4	752.1	754.1
5.5°	755.5	755.1	754.0	753.8	753.7	753.8	752.4	751.9	752.2	751.3	753.1
6°	755.1	755.1	753.4	753.9	753.7	752.2	751.9	751.7	751.6	750.6	751.7
6.5°	754.4	754.8	752.8	752.6	752.7	752.4	750.7	750.6	750.5	750.0	751.0
7°	753.9	754.1	752.1	752.3	751.9	751.4	748.7	749.2	749.5	748.7	751.0
7.5°	752.6	752.4	751.0	750.8	750.0	750.8	748.6	748.4	748.0	747.8	749.5
8°	751.7	750.8	750.6	750.6	748.8	749.9	748.0	747.1	747.3	746.9	747.3
8.5°	750.9	749.8	750.3	748.7	748.3	748.9	746.7	746.3	745.0	746.1	746.6
9°	749.8	748.6	749.0	748.3	747.3	747.9	744.9	745.4	744.1	744.6	745.4
9.5°	748.0	748.1	747.3	746.6	746.6	746.8	742.9	743.5	743.9	743.6	745.1
10°	746.4	746.5	745.9	746.0	745.6	745.4	742.0	742.1	741.8	743.0	743.8
10.5°	745.5	745.5	745.4	744.1	744.2	743.3	741.1	740.7	740.2	741.3	742.2
11°	744.2	744.2	744.2	743.5	742.6	742.2	739.5	740.2	738.8	739.2	740.5
11.5°	742.5	743.5	742.3	741.4	740.2	741.2	738.1	738.3	736.4	738.2	739.2
12°	741.9	741.5	741.4	739.8	739.5	739.9	735.9	737.6	735.4	736.1	738.3
12.5°	740.6	740.0	740.8	738.5	738.5	738.5	734.3	736.1	733.4	734.7	736.4
13°	739.2	739.7	738.8	736.8	736.8	736.7	733.1	733.8	732.0	733.4	734.0
13.5°	737.8	738.3	736.4	735.4	735.2	734.7	731.1	732.6	731.3	732.0	731.8
14°	736.4	736.7	734.7	734.4	733.6	731.6	728.5	730.5	729.5	730.7	730.8
14.5°	734.7	734.4	732.7	731.9	731.6	730.5	726.6	728.2	727.3	728.3	729.0
15°	733.5	732.4	731.2	730.9	728.6	729.1	725.3	726.4	725.1	725.6	727.7
15.5°	731.1	730.7	729.5	728.5	727.0	726.9	723.9	724.2	723.5	723.5	725.9
16°	729.8	728.6	727.2	726.9	725.8	725.3	721.8	722.2	721.6	722.2	723.9
16.5°	727.5	726.6	725.2	724.4	723.2	723.4	719.7	720.2	718.4	720.2	721.7
17°	724.7	724.2	723.1	723.2	721.1	721.2	717.6	718.5	716.0	717.4	718.7
17.5°	723.2	722.4	721.3	720.0	718.4	719.0	715.7	716.4	713.9	714.9	716.7
18°	721.6	720.5	719.1	717.9	716.8	716.4	713.7	713.6	711.6	712.7	714.7
18.5°	719.1	718.4	717.1	715.5	714.0	714.3	710.3	710.6	709.8	710.3	711.5
19°	716.0	716.6	714.7	713.3	712.6	711.8	708.0	708.3	706.9	708.0	708.5
19.5°	713.7	714.6	713.0	711.0	710.0	709.6	706.0	705.7	704.9	705.6	706.7
20°	711.3	711.5	710.8	709.3	708.8	707.4	703.5	703.2	702.3	703.0	704.9
20.5°	708.7	708.6	707.4	706.2	706.0	704.6	701.3	700.7	699.0	700.4	703.2
21°	707.1	705.9	705.1	703.9	703.0	702.0	698.8	697.9	696.5	698.6	699.9
21.5°	704.5	703.9	703.0	702.2	700.2	699.3	696.0	695.0	693.7	696.1	696.7
22°	701.1	701.0	700.4	699.7	697.7	696.0	693.9	693.6	690.9	692.6	694.3

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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°	698.2	698.2	698.3	696.5	694.6	693.0	691.0	690.4	688.2	689.6	691.1
23°	695.8	695.4	695.3	693.3	691.8	691.3	687.8	687.9	685.5	687.3	688.6
23.5°	693.0	693.3	691.9	690.5	689.4	688.3	684.8	685.2	683.1	685.0	685.7
24°	690.3	690.6	688.9	688.4	686.1	685.2	682.1	681.5	680.1	681.3	682.9
24.5°	687.6	687.4	686.0	685.0	683.3	682.3	677.9	678.0	676.2	677.5	679.7
25°	684.6	683.8	683.3	681.8	681.1	679.2	675.0	675.6	673.3	674.6	676.3
25.5°	681.4	681.1	680.1	678.5	677.8	676.3	672.6	673.0	670.9	671.6	673.3
26°	678.8	678.4	677.0	675.6	675.3	673.2	669.2	669.7	667.7	668.9	671.2
26.5°	675.9	675.6	674.6	672.3	671.4	669.5	665.9	666.5	664.7	665.3	667.5
27°	672.5	672.4	671.5	669.4	668.5	665.8	663.1	663.2	660.7	661.7	663.6
27.5°	669.6	669.9	667.5	666.6	664.8	662.3	659.9	659.8	657.1	658.6	660.0
28°	666.7	665.4	664.4	663.6	660.4	659.1	656.5	655.7	654.5	656.3	656.9
28.5°	661.9	662.1	661.0	660.2	656.7	655.3	652.9	652.5	651.2	652.8	652.9
29°	659.1	659.0	657.3	656.6	653.9	652.6	649.5	649.1	648.2	649.4	649.9
29.5°	654.9	656.3	654.6	653.1	650.2	649.4	646.1	645.3	643.9	645.6	646.4
30°	652.9	652.6	650.6	649.1	646.9	644.9	642.3	641.5	640.8	641.5	642.7
30.5°	648.9	648.5	646.9	645.0	643.8	641.2	638.0	638.0	637.3	637.5	638.5
31°	644.7	644.3	643.4	641.7	639.6	637.3	634.3	633.8	633.4	633.9	635.5
31.5°	641.0	640.3	640.1	637.9	635.9	633.5	630.0	629.5	629.1	629.6	631.3
32°	637.4	637.1	635.7	634.6	631.8	630.5	626.3	626.3	625.2	625.8	627.5
32.5°	633.7	633.5	632.7	630.3	627.8	627.2	622.6	621.7	620.7	622.3	623.2
33°	630.1	629.8	629.4	626.9	624.6	623.1	618.9	617.9	616.9	618.3	619.9
33.5°	626.1	626.0	625.4	622.6	620.3	619.2	614.8	614.9	613.0	614.2	615.2
34°	621.6	622.7	621.3	618.8	617.2	614.7	611.2	611.2	608.9	610.4	611.4
34.5°	617.6	618.8	617.6	614.4	613.0	610.9	607.7	606.7	605.5	606.0	607.5
35°	615.0	614.6	613.7	610.1	609.0	606.9	603.0	602.3	601.2	602.1	603.8
35.5°	611.0	610.4	609.7	606.9	604.7	602.3	598.3	597.5	596.0	598.6	599.4
36°	606.1	606.0	605.5	602.9	600.6	597.3	594.3	594.5	591.9	594.4	595.8
36.5°	601.9	602.1	600.3	599.1	595.8	593.2	589.7	589.7	587.6	589.7	590.7
37°	598.4	598.3	596.3	594.2	591.4	589.1	585.3	585.9	583.1	584.7	586.2
37.5°	594.3	593.4	592.7	589.7	587.6	584.5	581.5	580.8	578.9	580.4	582.2
38°	589.8	589.3	588.0	586.1	583.0	580.2	577.6	575.7	574.9	576.6	578.2
38.5°	584.6	585.1	583.4	580.9	577.9	575.8	573.1	571.4	570.3	572.7	574.1
39°	580.6	580.2	579.7	576.6	573.3	572.0	568.2	567.3	565.7	568.3	569.4
39.5°	576.0	575.7	575.4	571.7	569.1	567.4	563.7	562.6	561.6	562.7	564.3
40°	572.3	571.0	571.0	567.2	564.8	562.6	559.5	558.1	557.1	558.2	559.5
40.5°	568.0	567.0	566.3	562.6	559.8	557.6	554.3	553.9	552.2	553.4	555.1
41°	563.2	562.6	561.2	558.8	555.4	552.9	549.2	548.7	547.7	548.1	550.5
41.5°	558.6	557.9	556.4	554.2	550.7	548.8	544.7	543.5	542.0	543.7	545.6
42°	553.7	552.7	551.8	549.3	546.3	543.3	539.9	539.1	537.3	538.9	540.8
42.5°	549.0	548.6	546.6	545.0	541.5	538.7	535.0	534.0	532.3	534.6	536.7
43°	544.2	544.3	541.7	539.6	536.7	534.7	530.1	529.5	527.8	529.2	531.2
43.5°	539.1	539.4	537.8	534.4	532.4	529.8	525.5	524.0	523.2	524.8	526.5
44°	534.4	534.0	532.7	529.5	527.4	524.2	520.6	519.2	518.4	520.0	521.5
44.5°	529.6	529.3	527.6	524.5	521.5	519.0	516.0	514.3	513.2	515.4	516.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	524.5	523.7	522.4	519.7	517.0	514.1	510.7	509.5	508.1	509.7	511.7
45.5°	519.9	519.2	517.1	515.5	512.3	509.7	505.9	504.2	502.7	505.0	506.5
46°	514.5	514.6	512.2	510.0	507.4	504.6	499.8	498.9	497.3	499.8	501.9
46.5°	508.9	508.6	507.2	504.2	502.4	499.4	495.0	493.7	492.2	494.8	496.7
47°	504.1	503.5	501.7	499.4	497.4	494.2	489.6	488.5	487.2	489.5	491.7
47.5°	499.1	498.4	496.3	493.9	491.8	488.8	484.4	483.3	482.3	483.7	486.1
48°	494.0	493.6	490.9	488.9	486.2	483.7	479.7	478.4	476.9	478.4	480.4
48.5°	488.1	488.1	486.1	483.7	480.4	478.0	474.1	473.2	471.8	472.8	475.6
49°	482.9	483.0	481.0	478.3	475.3	472.5	469.1	467.8	466.1	467.7	469.8
49.5°	477.7	477.9	475.5	472.9	469.8	466.8	463.3	462.3	460.7	462.7	463.8
50°	472.7	472.4	469.6	467.3	464.7	461.8	457.6	457.2	455.2	457.4	458.8
50.5°	466.8	466.8	464.4	461.7	459.7	456.9	452.5	451.6	449.5	451.5	453.5
51°	461.0	461.1	458.7	456.4	454.3	450.9	446.5	445.6	444.0	445.4	447.9
51.5°	455.9	455.7	453.6	450.8	449.0	445.1	441.7	439.8	438.3	440.1	442.2
52°	450.8	449.8	448.1	445.4	442.7	440.3	436.3	434.8	432.6	434.6	436.6
52.5°	445.3	444.4	442.5	439.9	436.6	434.4	430.8	429.2	427.3	428.5	430.8
53°	439.6	439.1	436.7	434.1	431.1	428.0	424.8	423.3	421.3	423.7	425.4
53.5°	433.5	433.2	431.1	428.9	425.7	422.3	419.3	416.9	415.8	418.0	419.6
54°	428.2	428.0	426.0	422.6	419.7	417.2	413.1	411.4	409.8	411.7	414.2
54.5°	422.9	422.2	420.2	416.7	414.7	411.7	406.6	405.3	404.6	405.6	408.2
55°	416.5	416.2	414.8	410.8	408.8	405.7	400.9	400.0	398.9	399.9	402.1
55.5°	410.4	410.0	408.4	405.5	402.7	399.3	395.4	393.7	392.7	394.0	395.8
56°	405.1	404.1	402.1	399.5	396.4	393.2	389.7	387.9	386.9	388.1	390.5
56.5°	399.0	398.6	396.6	393.2	390.6	387.1	383.5	382.6	380.9	382.6	384.6
57°	392.9	392.8	390.3	387.1	384.8	381.5	377.5	376.4	374.4	376.8	378.9
57.5°	387.0	386.8	384.6	381.2	379.0	375.8	371.1	369.7	368.6	370.3	372.7
58°	381.2	380.2	378.6	375.0	372.8	369.3	364.9	363.6	362.5	364.0	366.2
58.5°	374.9	374.0	372.2	369.0	366.4	362.8	358.8	357.7	356.6	357.8	360.1
59°	369.0	368.5	365.9	362.9	360.6	357.0	353.1	351.5	350.0	351.8	353.7
59.5°	363.1	362.2	360.2	357.4	354.6	350.9	346.9	345.5	343.9	346.0	347.6
60°	356.8	356.0	353.6	351.2	348.2	344.7	341.1	339.4	337.9	339.8	342.0
60.5°	350.6	349.6	347.4	345.0	341.3	338.8	334.8	333.2	331.7	333.0	335.7
61°	344.5	343.1	341.1	338.4	335.4	332.4	328.7	326.6	325.5	327.2	329.6
61.5°	337.7	336.8	334.8	331.9	329.1	326.0	322.5	320.1	318.8	320.7	323.1
62°	331.8	330.6	328.6	325.5	322.8	319.7	316.2	314.0	312.5	314.4	316.7
62.5°	325.3	324.3	322.1	319.3	316.3	313.6	309.6	307.6	306.0	308.0	310.1
63°	319.1	317.9	315.7	313.0	310.2	307.1	303.1	301.5	299.8	301.4	303.5
63.5°	313.3	311.3	309.5	306.2	304.1	300.7	296.9	294.9	293.7	294.8	297.6
64°	306.3	305.3	303.1	300.0	297.9	294.2	290.0	288.4	287.1	288.5	291.2
64.5°	300.0	298.9	296.6	293.3	290.9	287.8	283.3	281.8	280.3	281.8	284.6
65°	293.8	292.7	290.2	286.8	284.5	281.3	276.8	275.3	273.9	275.5	278.0
65.5°	287.3	286.1	283.9	280.0	278.1	274.6	270.2	268.9	267.6	269.1	271.5
66°	280.1	279.5	276.9	273.5	271.5	268.0	263.7	262.0	261.2	262.4	265.0
66.5°	273.3	272.7	270.2	267.1	264.8	261.5	257.0	255.6	254.6	255.7	258.1
67°	267.1	265.8	263.6	260.4	258.4	254.9	251.0	248.8	248.1	249.1	251.6

TEST NUMBER: P869750
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	260.3	259.2	256.9	253.5	251.8	248.3	244.3	242.0	241.4	242.3	244.7
68°	253.6	252.6	250.1	246.7	245.2	241.6	237.6	235.8	234.7	236.0	238.4
68.5°	246.9	246.0	243.7	240.4	238.4	234.9	230.8	229.2	227.8	229.1	231.9
69°	240.3	239.6	237.0	234.0	232.1	228.0	224.0	222.2	221.0	222.3	225.2
69.5°	233.8	232.9	230.2	226.6	225.0	221.0	217.2	215.2	214.3	215.4	218.6
70°	226.7	226.1	223.3	219.9	218.0	214.5	210.4	208.7	207.5	208.7	211.4
70.5°	219.9	219.4	216.5	213.2	211.5	208.0	204.1	202.2	201.1	202.3	205.0
71°	213.2	212.6	210.1	206.7	204.9	201.4	197.3	195.5	194.4	195.6	198.1
71.5°	206.7	206.0	203.3	199.5	197.9	194.5	190.4	188.5	187.6	188.9	191.3
72°	200.0	199.0	196.3	192.8	191.3	187.6	183.6	181.7	181.1	182.2	184.8
72.5°	193.3	191.9	189.3	186.3	184.6	181.0	177.1	175.3	174.2	175.5	178.1
73°	186.4	185.0	182.5	179.2	177.8	174.4	170.5	168.3	167.3	168.8	171.3
73.5°	179.4	178.3	176.1	172.5	170.9	167.4	163.8	161.5	160.5	162.5	164.5
74°	172.7	171.5	168.9	165.8	164.1	160.7	157.1	155.0	153.9	155.5	157.8
74.5°	165.9	164.7	162.3	158.7	157.6	154.1	150.4	148.4	147.4	148.8	151.0
75°	158.9	157.8	155.5	151.8	150.8	147.2	143.6	141.8	140.6	142.1	144.4
75.5°	152.3	151.3	148.8	145.3	144.1	140.6	137.3	134.9	134.1	135.8	137.9
76°	145.7	144.7	142.2	138.6	137.4	133.9	130.5	128.2	127.5	129.0	131.3
76.5°	138.9	138.0	135.5	131.9	130.9	127.3	123.8	122.0	120.9	122.3	124.5
77°	132.5	131.1	128.9	125.3	124.2	120.6	117.3	115.3	114.4	115.6	117.9
77.5°	125.9	124.5	122.4	118.8	117.5	114.0	110.9	108.8	107.9	109.3	111.6
78°	119.2	117.9	115.8	112.4	111.1	107.7	104.6	102.2	101.5	102.7	105.1
78.5°	112.6	111.4	109.3	105.9	104.8	101.2	98.0	96.0	95.2	96.4	98.6
79°	106.3	105.0	102.7	99.3	98.2	94.6	91.5	89.7	88.8	90.0	92.2
79.5°	99.9	98.7	96.5	93.1	91.9	88.5	85.4	83.7	82.7	84.1	86.1
80°	93.5	92.0	90.1	86.8	85.7	82.5	79.4	77.6	76.7	78.1	80.2
80.5°	87.3	85.9	84.1	80.7	79.7	76.4	73.5	71.6	70.6	72.2	74.3
81°	81.0	79.7	78.1	74.7	73.8	70.5	67.4	65.7	64.9	66.3	68.4
81.5°	74.9	73.9	71.9	68.8	67.8	64.6	61.6	59.9	59.3	60.3	62.4
82°	68.9	67.9	65.7	62.7	61.9	58.8	55.9	54.2	53.5	54.7	56.7
82.5°	62.9	62.1	59.8	56.8	56.2	53.1	50.6	48.7	48.1	49.2	51.1
83°	57.0	55.9	54.1	51.3	50.8	47.8	45.2	43.5	42.9	44.0	46.0
83.5°	51.6	50.4	48.5	46.0	45.3	42.5	39.9	38.3	37.8	38.8	40.6
84°	46.2	45.1	43.3	40.9	40.2	37.4	34.8	33.3	32.7	33.8	35.6
84.5°	41.0	40.0	38.3	35.8	35.1	32.5	30.1	28.6	28.2	29.2	30.7
85°	35.9	35.0	33.4	31.0	30.3	27.9	25.6	24.1	23.8	24.6	26.3
85.5°	31.1	30.2	28.7	26.5	25.7	23.3	21.2	20.1	19.8	20.5	21.9
86°	26.7	25.8	24.4	22.3	21.6	19.3	17.5	16.2	16.0	16.7	18.1
86.5°	22.4	21.8	20.5	18.6	17.7	15.8	14.2	13.2	12.9	13.8	14.8
87°	18.7	18.1	16.8	15.1	14.4	12.7	11.2	10.3	10.1	10.7	11.9
87.5°	15.1	14.6	13.5	11.9	11.4	9.8	8.3	7.5	7.5	8.1	9.0
88°	11.9	11.4	10.4	8.9	8.5	7.1	5.9	5.2	5.1	5.6	6.5
88.5°	8.9	8.4	7.6	6.3	6.2	4.8	3.8	3.1	2.9	3.5	4.2
89°	6.3	6.0	5.3	4.3	4.3	3.0	2.0	1.5	1.4	1.7	2.4
89.5°	4.4	4.2	3.6	2.7	2.4	1.5	0.7	1.4	1.2	1.5	0.8

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869750
CATALOG NUMBER: SMX18SLSFSD2W-2000LM-5000K

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: P869750
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	757.4	757.4	757.4	757.4	757.4	757.4
0.5°	758.0	756.5	758.4	756.9	756.8	757.2
1°	757.3	756.3	758.7	757.2	756.7	757.8
1.5°	757.1	757.2	758.1	757.2	756.9	757.2
2°	756.6	757.0	757.2	757.2	758.0	756.7
2.5°	756.1	755.8	758.1	756.6	756.7	756.6
3°	756.9	755.3	758.0	756.1	757.4	755.5
3.5°	756.3	756.1	757.1	755.7	756.8	756.0
4°	756.1	755.4	757.0	755.9	755.8	755.8
4.5°	756.0	754.6	756.5	755.5	755.7	755.7
5°	755.5	754.1	756.7	754.9	755.2	756.0
5.5°	753.7	753.4	756.4	754.6	755.6	755.5
6°	752.7	753.1	756.5	754.4	754.4	755.1
6.5°	752.0	753.3	755.5	754.3	754.1	754.4
7°	751.6	751.5	754.8	753.0	753.8	753.9
7.5°	750.7	751.4	753.8	752.5	753.6	752.6
8°	749.6	750.5	752.0	751.9	752.5	751.7
8.5°	748.3	749.0	751.0	750.7	750.5	750.9
9°	747.3	748.1	750.7	749.0	750.4	749.8
9.5°	745.5	747.2	749.4	748.0	748.8	748.0
10°	744.5	746.0	747.6	746.6	747.3	746.4
10.5°	742.8	744.4	746.4	744.2	747.0	745.5
11°	741.7	742.8	744.9	743.0	745.0	744.2
11.5°	739.7	740.9	743.4	742.2	743.2	742.5
12°	738.1	738.8	742.5	741.2	742.0	741.9
12.5°	736.7	737.8	740.1	739.2	740.9	740.6
13°	735.5	735.8	738.1	738.2	739.2	739.2
13.5°	733.7	734.7	736.8	736.9	737.5	737.8
14°	732.4	732.8	735.9	735.6	735.3	736.4
14.5°	731.1	731.4	733.3	733.6	734.1	734.7
15°	729.1	729.1	731.2	731.0	733.3	733.5
15.5°	725.9	727.9	729.7	728.6	731.9	731.1
16°	723.9	726.2	727.8	727.5	729.4	729.8
16.5°	721.9	723.7	725.9	725.5	728.1	727.5
17°	720.4	720.7	723.8	722.6	725.9	724.7
17.5°	718.1	719.1	722.6	720.5	723.8	723.2
18°	715.6	717.5	720.4	719.5	721.6	721.6
18.5°	713.4	715.5	717.4	717.5	718.7	719.1
19°	710.9	712.8	714.4	714.5	715.9	716.0
19.5°	708.0	710.5	712.0	711.6	713.7	713.7
20°	706.0	708.1	710.0	709.2	711.2	711.3
20.5°	704.5	706.0	706.9	707.1	709.0	708.7
21°	702.1	702.8	704.5	705.3	706.8	707.1
21.5°	699.2	699.3	702.0	703.2	704.9	704.5
22°	696.2	696.5	699.2	700.1	702.6	701.1

TEST NUMBER: P869750
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	692.5	694.8	696.4	696.7	699.1	698.2
23°	690.1	692.1	694.3	694.2	695.7	695.8
23.5°	686.9	688.5	691.1	692.3	693.0	693.0
24°	684.2	685.6	688.9	688.4	690.2	690.3
24.5°	682.2	683.4	685.8	685.7	687.4	687.6
25°	679.0	680.4	682.6	683.6	685.3	684.6
25.5°	675.6	677.9	679.1	680.6	682.9	681.4
26°	672.6	673.6	676.2	677.2	679.0	678.8
26.5°	669.5	670.2	673.6	673.3	675.3	675.9
27°	665.7	666.8	670.9	670.4	672.6	672.5
27.5°	662.0	662.9	667.2	667.7	670.5	669.6
28°	658.8	659.5	663.4	665.1	667.0	666.7
28.5°	654.9	657.1	659.7	661.4	663.3	661.9
29°	652.2	653.8	657.2	657.9	658.9	659.1
29.5°	648.9	650.0	653.5	654.3	656.4	654.9
30°	646.0	646.4	649.5	650.1	653.2	652.9
30.5°	641.2	643.7	645.3	645.9	649.2	648.9
31°	637.4	638.6	642.1	643.0	645.4	644.7
31.5°	633.5	635.1	639.0	638.7	642.2	641.0
32°	630.6	631.6	635.4	635.2	639.0	637.4
32.5°	627.3	628.3	631.3	631.8	635.6	633.7
33°	623.1	624.4	627.8	628.9	631.4	630.1
33.5°	618.0	620.3	623.7	624.7	627.6	626.1
34°	614.5	616.3	619.4	620.2	623.2	621.6
34.5°	610.0	612.5	615.5	616.3	619.3	617.6
35°	606.1	608.4	611.5	612.7	615.4	615.0
35.5°	602.6	603.7	607.7	608.7	611.0	611.0
36°	598.4	599.0	603.3	604.6	606.6	606.1
36.5°	594.3	594.8	599.0	599.3	602.5	601.9
37°	590.0	590.5	595.3	595.3	598.1	598.4
37.5°	585.0	586.8	590.9	590.7	594.5	594.3
38°	580.4	582.3	586.7	586.9	590.4	589.8
38.5°	576.0	578.0	581.9	582.8	586.2	584.6
39°	571.4	574.1	577.8	578.4	580.6	580.6
39.5°	567.1	570.0	573.3	573.4	576.4	576.0
40°	562.4	565.0	568.8	569.8	571.6	572.3
40.5°	558.5	560.2	564.1	565.4	567.3	568.0
41°	554.2	555.9	559.3	560.9	562.3	563.2
41.5°	549.0	551.6	554.7	555.9	558.0	558.6
42°	544.4	546.5	550.3	550.8	554.1	553.7
42.5°	538.8	541.0	545.3	545.9	549.3	549.0
43°	533.9	536.7	539.8	541.5	544.7	544.2
43.5°	528.7	531.3	534.5	537.1	539.5	539.1
44°	524.2	525.9	529.5	531.7	534.6	534.4
44.5°	519.2	521.8	525.5	526.0	529.6	529.6

TEST NUMBER: P869750
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	514.2	517.3	520.8	521.0	524.1	524.5
45.5°	508.9	512.3	515.6	516.2	518.8	519.9
46°	503.9	507.1	510.7	511.3	514.0	514.5
46.5°	498.7	501.7	505.6	507.1	508.9	508.9
47°	493.5	496.6	500.5	501.7	503.8	504.1
47.5°	488.2	491.6	495.3	496.3	498.4	499.1
48°	483.1	486.2	490.0	491.1	493.6	494.0
48.5°	477.8	480.4	484.5	485.9	488.4	488.1
49°	472.2	474.9	478.8	480.5	483.0	482.9
49.5°	467.0	469.7	473.1	475.3	477.8	477.7
50°	461.5	463.6	467.5	470.2	472.2	472.7
50.5°	455.9	458.3	462.0	464.8	466.4	466.8
51°	450.7	453.5	457.0	458.8	461.2	461.0
51.5°	445.3	447.4	451.8	453.1	456.1	455.9
52°	439.8	441.7	446.4	447.4	450.8	450.8
52.5°	433.9	436.5	440.8	442.5	445.1	445.3
53°	428.2	431.0	435.2	437.1	440.0	439.6
53.5°	423.0	425.4	429.3	430.5	434.0	433.5
54°	416.9	419.5	423.7	424.8	428.2	428.2
54.5°	411.2	413.4	417.9	419.6	422.0	422.9
55°	405.5	407.7	411.8	413.7	416.6	416.5
55.5°	399.8	401.7	405.9	408.1	411.1	410.4
56°	393.9	395.9	400.2	402.2	405.1	405.1
56.5°	387.9	389.9	394.3	395.9	399.4	399.0
57°	381.5	383.7	388.1	390.0	393.3	392.9
57.5°	375.3	377.5	382.0	383.2	386.9	387.0
58°	369.6	371.6	375.8	377.8	381.2	381.2
58.5°	363.9	365.4	369.3	372.1	374.9	374.9
59°	357.8	359.5	363.2	366.2	369.0	369.0
59.5°	351.3	353.3	356.9	359.9	362.8	363.1
60°	345.5	346.7	351.2	353.5	356.8	356.8
60.5°	338.5	340.5	344.5	347.2	350.6	350.6
61°	332.3	334.0	338.5	340.8	344.1	344.5
61.5°	326.2	328.2	332.6	334.4	337.6	337.7
62°	319.7	322.0	326.4	328.2	331.4	331.8
62.5°	313.6	315.7	320.1	322.1	325.1	325.3
63°	307.0	308.9	313.5	315.3	319.1	319.1
63.5°	300.7	302.5	307.2	309.2	312.4	313.3
64°	294.3	296.4	300.7	302.6	305.4	306.3
64.5°	287.8	290.2	294.5	296.6	299.0	300.0
65°	281.4	283.5	287.5	290.2	292.6	293.8
65.5°	275.2	276.9	281.0	283.4	286.1	287.3
66°	268.5	269.9	274.5	276.9	279.6	280.1
66.5°	261.8	263.7	267.9	270.6	273.1	273.3
67°	255.1	257.2	261.3	264.0	266.8	267.1

TEST NUMBER: P869750
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	248.6	250.3	254.2	256.9	260.1	260.3
68°	241.8	243.4	247.7	250.5	253.5	253.6
68.5°	235.4	236.9	241.1	243.9	246.4	246.9
69°	229.1	230.5	234.1	236.9	239.7	240.3
69.5°	222.3	223.9	227.4	230.3	233.1	233.8
70°	215.4	217.0	220.6	223.9	226.3	226.7
70.5°	208.7	209.9	214.1	217.0	219.8	219.9
71°	201.8	203.2	207.3	210.0	213.0	213.2
71.5°	194.9	196.5	200.4	203.6	206.3	206.7
72°	188.0	189.9	193.8	196.7	199.2	200.0
72.5°	181.7	182.9	187.0	189.7	192.4	193.3
73°	174.9	175.8	180.1	182.8	185.6	186.4
73.5°	168.3	169.4	173.7	176.1	178.8	179.4
74°	161.5	162.5	166.6	169.2	172.1	172.7
74.5°	155.0	155.7	159.8	162.7	165.2	165.9
75°	148.0	148.9	153.0	156.0	158.2	158.9
75.5°	141.4	142.4	146.5	149.2	151.5	152.3
76°	134.8	135.7	139.6	142.4	144.8	145.7
76.5°	128.1	129.1	133.0	135.8	138.1	138.9
77°	121.4	122.3	126.3	129.0	131.6	132.5
77.5°	114.8	116.0	119.7	122.8	125.2	125.9
78°	108.4	109.5	113.3	116.2	118.6	119.2
78.5°	101.9	103.1	107.1	109.9	112.1	112.6
79°	95.7	96.7	100.5	103.2	105.4	106.3
79.5°	89.2	90.5	94.1	96.9	99.2	99.9
80°	83.1	84.1	87.7	90.4	92.9	93.5
80.5°	77.3	78.1	81.8	84.3	86.6	87.3
81°	71.4	72.2	75.7	78.3	80.5	81.0
81.5°	65.5	66.1	69.7	72.2	74.3	74.9
82°	59.6	60.2	63.7	66.3	68.4	68.9
82.5°	54.1	54.6	57.9	60.3	62.5	62.9
83°	48.8	49.1	52.1	54.5	56.7	57.0
83.5°	43.3	43.7	46.7	49.0	51.1	51.6
84°	38.2	38.6	41.6	43.6	45.6	46.2
84.5°	33.3	33.8	36.5	38.6	40.6	41.0
85°	28.7	29.2	31.8	33.8	35.4	35.9
85.5°	24.1	24.6	27.2	29.2	30.7	31.1
86°	20.1	20.8	22.8	24.7	26.3	26.7
86.5°	16.5	17.1	19.1	20.8	22.1	22.4
87°	13.4	13.8	15.5	17.0	18.2	18.7
87.5°	10.5	10.7	12.4	13.7	14.8	15.1
88°	7.9	7.7	9.3	10.7	11.7	11.9
88.5°	5.4	5.3	6.3	7.6	8.6	8.9
89°	3.4	3.5	4.3	5.3	5.9	6.3
89.5°	1.6	1.9	2.6	3.3	4.2	4.4

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



TEST NUMBER: P869750
CATALOG NUMBER: SMX18SLSFSD2W-2000LM-5000K

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)