

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: P869747

Luminaire Tested: **SMX18SLSFSD2W-2000LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869747  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18SLSFSD2W-2000LM-3000K  
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT  
 Ballast/Driver: -

**Summary**

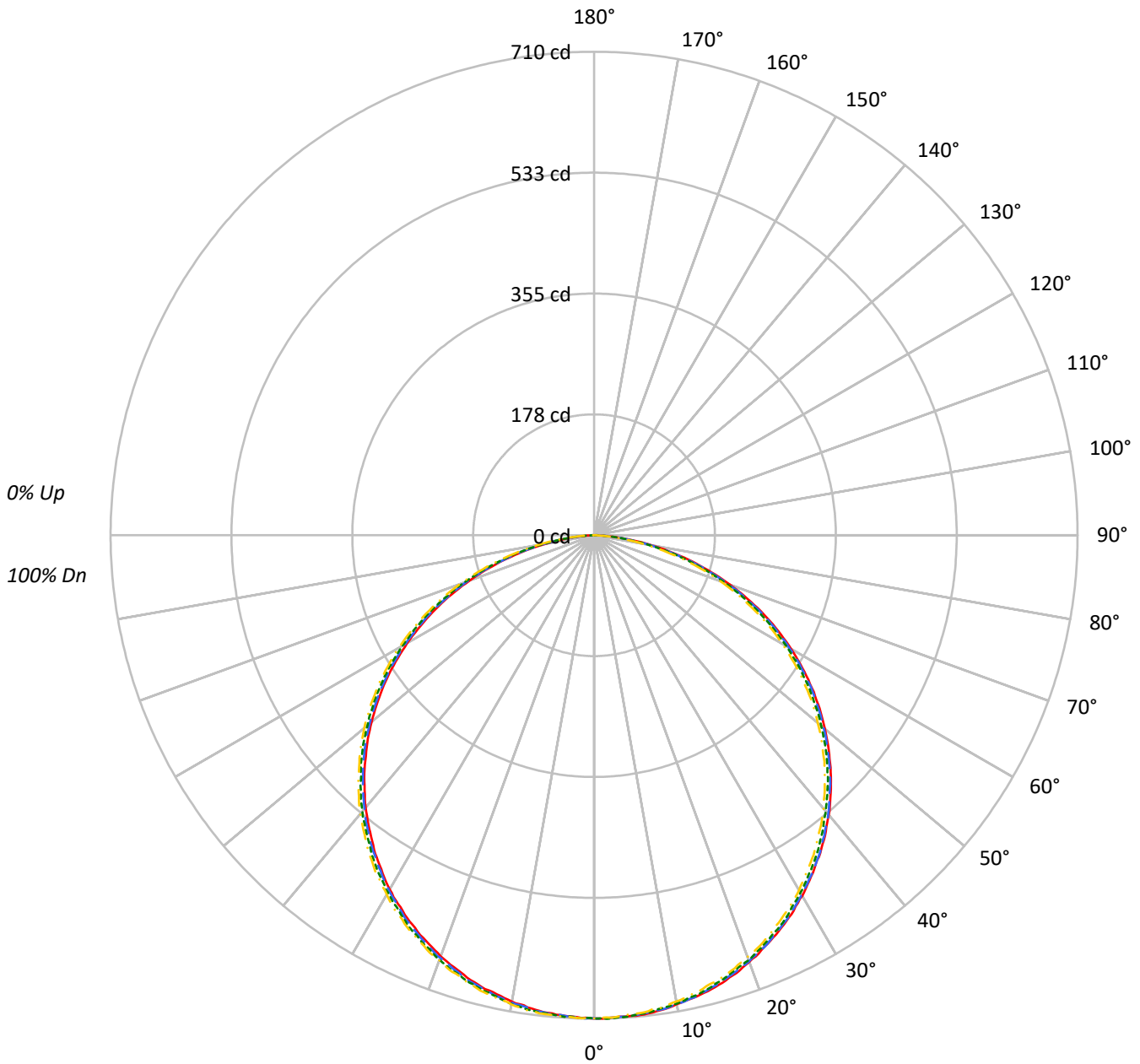
Lumens per Lamp: N/A  
 Luminaire Lumens: 2071.7 lumens  
 Efficiency: N/A  
 Efficacy: 87.4 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
 CIE Type: Direct

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°	3395	3395	3395	3395
5°	3402	3394	3386	3393
10°	3398	3394	3377	3396
15°	3404	3382	3365	3384
20°	3394	3381	3350	3378
25°	3386	3369	3330	3365
30°	3380	3349	3317	3346
35°	3366	3332	3290	3329
40°	3349	3305	3260	3306
45°	3325	3277	3221	3279
50°	3296	3240	3174	3233
55°	3255	3195	3117	3186
60°	3199	3122	3029	3109
65°	3116	3018	2906	3008
70°	2971	2858	2719	2844
75°	2752	2612	2434	2580
80°	2413	2212	1981	2171
85°	1850	1559	1224	1504

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.2	3.2
10°-20°	192.9	9.3
20°-30°	293.7	14.2
30°-40°	356.6	17.2
40°-50°	373.5	18.0
50°-60°	341.5	16.5
60°-70°	262.9	12.7
70°-80°	148.6	7.2
80°-90°	35.0	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	553.8	26.7
0°-40°	910.4	43.9
0°-60°	1625.3	78.5
0°-90°	2071.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2071.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	710	710	710	710	710	
5°	708	707	705	707	708	67
15°	687	683	679	683	687	194
25°	642	638	631	638	642	296
35°	576	571	563	570	576	360
45°	492	484	476	485	492	379
55°	390	383	374	382	390	349
65°	275	267	257	266	275	272
75°	149	141	132	140	149	158
85°	34	28	22	27	34	41
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°	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7
0.5°	709.6	709.3	709.8	709.2	709.9	710.5	709.2	709.7	709.2	709.6	708.8
1°	710.1	708.9	709.8	709.6	709.6	709.8	708.7	709.1	708.8	709.3	709.7
1.5°	709.5	709.5	709.1	709.6	710.4	709.7	708.2	709.0	709.0	708.7	709.5
2°	709.0	708.6	708.9	709.5	710.1	709.4	709.1	708.2	708.0	708.1	708.1
2.5°	709.0	709.3	708.7	709.5	709.6	709.4	708.3	708.1	707.8	707.8	707.9
3°	708.0	709.4	708.5	708.8	708.9	708.8	707.4	708.5	707.7	707.1	708.0
3.5°	708.4	709.6	708.2	708.7	709.0	708.1	707.4	708.0	706.9	706.9	706.9
4°	708.2	708.8	708.0	708.8	708.6	707.7	705.9	707.4	706.2	707.2	706.2
4.5°	708.1	708.7	707.1	708.6	707.8	707.5	705.9	706.0	706.2	706.5	706.1
5°	708.4	708.0	707.1	707.5	706.8	707.2	705.4	705.6	705.0	704.8	706.7
5.5°	707.9	707.5	706.5	706.3	706.2	706.3	705.1	704.6	704.8	704.0	705.6
6°	707.5	707.5	706.0	706.4	706.2	704.8	704.6	704.3	704.3	703.3	704.3
6.5°	706.9	707.2	705.4	705.2	705.4	705.1	703.5	703.3	703.3	702.7	703.8
7°	706.4	706.7	704.8	704.9	704.6	704.1	701.5	702.0	702.3	701.6	703.7
7.5°	705.2	705.0	703.8	703.5	702.7	703.5	701.4	701.3	700.9	700.7	702.3
8°	704.4	703.5	703.3	703.3	701.7	702.7	700.9	700.1	700.2	699.9	700.3
8.5°	703.6	702.6	703.0	701.6	701.2	701.7	699.7	699.3	698.1	699.1	699.6
9°	702.6	701.4	701.9	701.2	700.3	700.8	698.0	698.5	697.2	697.7	698.5
9.5°	700.9	701.0	700.3	699.6	699.6	699.8	696.2	696.7	697.0	696.7	698.2
10°	699.4	699.5	698.9	699.1	698.7	698.5	695.3	695.4	695.1	696.2	697.0
10.5°	698.5	698.5	698.5	697.2	697.4	696.5	694.4	694.1	693.6	694.6	695.5
11°	697.3	697.3	697.4	696.7	695.9	695.5	692.9	693.6	692.2	692.6	693.9
11.5°	695.8	696.7	695.6	694.7	693.6	694.5	691.6	691.8	690.1	691.7	692.6
12°	695.2	694.9	694.7	693.3	692.9	693.3	689.6	691.2	689.1	689.8	691.8
12.5°	694.0	693.4	694.1	692.0	692.0	692.0	688.1	689.7	687.3	688.4	690.0
13°	692.7	693.1	692.3	690.4	690.4	690.3	687.0	687.6	686.0	687.3	687.8
13.5°	691.3	691.8	690.0	689.1	688.9	688.5	685.1	686.5	685.3	685.9	685.7
14°	690.0	690.3	688.4	688.1	687.4	685.5	682.6	684.5	683.6	684.6	684.8
14.5°	688.4	688.1	686.5	685.8	685.5	684.5	680.8	682.3	681.5	682.5	683.1
15°	687.3	686.2	685.2	684.9	682.8	683.2	679.7	680.7	679.4	679.9	681.9
15.5°	685.1	684.7	683.6	682.6	681.2	681.2	678.4	678.6	678.0	678.0	680.2
16°	683.9	682.8	681.4	681.1	680.1	679.7	676.4	676.7	676.2	676.8	678.4
16.5°	681.7	680.9	679.6	678.8	677.7	677.8	674.4	674.9	673.2	674.9	676.3
17°	679.1	678.6	677.6	677.6	675.7	675.8	672.4	673.3	670.9	672.2	673.4
17.5°	677.6	676.9	675.9	674.7	673.1	673.7	670.6	671.3	668.9	669.9	671.5
18°	676.2	675.2	673.9	672.7	671.7	671.3	668.8	668.7	666.8	667.8	669.7
18.5°	673.8	673.2	671.9	670.5	669.1	669.3	665.5	665.9	665.1	665.6	666.7
19°	670.9	671.5	669.7	668.4	667.7	667.0	663.4	663.7	662.4	663.4	663.9
19.5°	668.7	669.6	668.1	666.2	665.3	664.9	661.6	661.3	660.5	661.2	662.2
20°	666.6	666.7	666.0	664.6	664.2	662.9	659.2	658.9	658.1	658.7	660.5
20.5°	664.1	664.0	662.9	661.8	661.6	660.3	657.1	656.6	655.0	656.3	658.9
21°	662.6	661.5	660.7	659.6	658.7	657.8	654.8	654.0	652.7	654.6	655.8
21.5°	660.2	659.6	658.7	658.0	656.1	655.3	652.2	651.2	650.0	652.3	652.9
22°	656.9	656.9	656.3	655.6	653.8	652.1	650.2	650.0	647.4	649.0	650.6

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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°	654.2	654.2	654.3	652.7	650.8	649.4	647.5	646.9	644.8	646.2	647.6
23°	652.0	651.6	651.5	649.7	648.2	647.7	644.5	644.6	642.3	644.0	645.3
23.5°	649.3	649.6	648.3	647.0	646.0	645.0	641.7	642.1	640.1	641.9	642.5
24°	646.8	647.2	645.6	645.1	642.9	642.1	639.1	638.6	637.3	638.4	639.9
24.5°	644.3	644.1	642.8	641.9	640.3	639.3	635.2	635.3	633.6	634.8	636.9
25°	641.5	640.8	640.3	638.9	638.2	636.4	632.5	633.1	630.9	632.1	633.7
25.5°	638.5	638.2	637.2	635.8	635.1	633.7	630.2	630.6	628.7	629.3	630.9
26°	636.1	635.6	634.4	633.0	632.8	630.8	627.1	627.5	625.7	626.8	628.9
26.5°	633.3	633.1	632.1	630.0	629.1	627.3	624.0	624.6	622.8	623.4	625.4
27°	630.1	630.1	629.2	627.2	626.4	623.9	621.3	621.5	619.1	620.0	621.8
27.5°	627.5	627.7	625.5	624.6	623.0	620.6	618.3	618.3	615.7	617.1	618.5
28°	624.7	623.5	622.5	621.8	618.8	617.6	615.2	614.4	613.3	615.0	615.5
28.5°	620.2	620.4	619.4	618.6	615.4	614.0	611.8	611.4	610.2	611.7	611.8
29°	617.6	617.5	616.0	615.2	612.7	611.5	608.6	608.2	607.4	608.5	609.0
29.5°	613.7	614.9	613.3	612.0	609.3	608.5	605.5	604.7	603.4	604.9	605.7
30°	611.8	611.5	609.7	608.2	606.2	604.3	601.8	601.1	600.5	601.1	602.3
30.5°	608.1	607.6	606.2	604.4	603.3	600.8	597.9	597.8	597.1	597.3	598.3
31°	604.1	603.7	602.9	601.3	599.4	597.1	594.4	593.9	593.5	594.0	595.5
31.5°	600.7	600.0	599.8	597.7	595.8	593.6	590.3	589.9	589.5	590.0	591.6
32°	597.3	597.0	595.7	594.7	592.1	590.8	586.9	586.9	585.8	586.4	588.0
32.5°	593.8	593.6	592.9	590.6	588.2	587.7	583.4	582.6	581.6	583.1	584.0
33°	590.5	590.2	589.7	587.4	585.3	583.9	580.0	579.0	578.0	579.3	580.8
33.5°	586.7	586.6	586.1	583.4	581.3	580.2	576.1	576.2	574.4	575.5	576.4
34°	582.5	583.5	582.1	579.8	578.3	576.0	572.7	572.7	570.6	571.9	572.9
34.5°	578.7	579.8	578.7	575.7	574.4	572.4	569.4	568.5	567.4	567.8	569.3
35°	576.3	575.9	575.1	571.7	570.6	568.7	565.0	564.3	563.3	564.2	565.8
35.5°	572.5	572.0	571.3	568.7	566.7	564.4	560.6	559.9	558.5	560.9	561.7
36°	568.0	567.9	567.4	564.9	562.7	559.7	556.9	557.1	554.6	557.0	558.3
36.5°	564.0	564.2	562.5	561.4	558.3	555.9	552.5	552.6	550.6	552.5	553.6
37°	560.7	560.6	558.8	556.8	554.2	552.0	548.5	549.0	546.4	547.9	549.3
37.5°	556.9	556.0	555.4	552.6	550.6	547.7	544.9	544.2	542.5	543.9	545.5
38°	552.7	552.2	550.9	549.2	546.3	543.6	541.2	539.4	538.7	540.3	541.8
38.5°	547.8	548.3	546.7	544.4	541.5	539.5	537.0	535.4	534.4	536.7	537.9
39°	544.0	543.7	543.2	540.3	537.2	536.0	532.4	531.5	530.1	532.5	533.6
39.5°	539.7	539.4	539.1	535.7	533.3	531.7	528.2	527.1	526.3	527.3	528.8
40°	536.3	535.1	535.0	531.5	529.2	527.1	524.2	522.9	522.0	523.1	524.3
40.5°	532.2	531.3	530.7	527.1	524.5	522.5	519.4	519.0	517.4	518.5	520.1
41°	527.8	527.1	525.8	523.7	520.5	518.1	514.6	514.2	513.2	513.6	515.8
41.5°	523.4	522.8	521.4	519.3	516.1	514.2	510.4	509.3	507.9	509.5	511.3
42°	518.8	517.9	517.1	514.8	511.9	509.1	505.9	505.1	503.5	505.0	506.8
42.5°	514.4	514.0	512.1	510.7	507.4	504.8	501.3	500.3	498.8	500.9	503.0
43°	509.9	510.0	507.6	505.6	503.0	501.1	496.7	496.1	494.6	495.9	497.7
43.5°	505.2	505.4	503.9	500.8	498.9	496.4	492.4	491.0	490.3	491.7	493.3
44°	500.8	500.4	499.2	496.1	494.2	491.2	487.8	486.5	485.8	487.2	488.6
44.5°	496.2	496.0	494.3	491.4	488.6	486.3	483.5	481.9	480.9	483.0	484.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	491.5	490.7	489.5	487.0	484.4	481.7	478.6	477.4	476.1	477.6	479.5
45.5°	487.2	486.5	484.6	483.0	480.1	477.6	474.1	472.5	471.0	473.2	474.7
46°	482.1	482.2	479.9	477.9	475.4	472.8	468.4	467.5	466.0	468.4	470.3
46.5°	476.9	476.6	475.3	472.5	470.7	468.0	463.9	462.6	461.2	463.6	465.4
47°	472.3	471.8	470.1	468.0	466.0	463.1	458.8	457.8	456.5	458.7	460.8
47.5°	467.6	467.0	465.0	462.8	460.8	458.0	453.9	452.9	451.9	453.2	455.5
48°	462.9	462.6	460.0	458.1	455.6	453.2	449.5	448.3	446.9	448.3	450.1
48.5°	457.3	457.3	455.5	453.2	450.2	447.9	444.2	443.5	442.1	443.0	445.7
49°	452.5	452.6	450.7	448.2	445.4	442.7	439.5	438.4	436.8	438.2	440.2
49.5°	447.6	447.8	445.6	443.2	440.2	437.4	434.1	433.2	431.7	433.5	434.6
50°	442.9	442.7	440.0	437.9	435.4	432.7	428.8	428.4	426.5	428.6	429.9
50.5°	437.4	437.4	435.1	432.6	430.8	428.2	424.0	423.2	421.2	423.0	425.0
51°	432.0	432.1	429.8	427.7	425.7	422.5	418.4	417.5	416.0	417.4	419.7
51.5°	427.2	427.0	425.1	422.5	420.7	417.1	413.9	412.1	410.7	412.4	414.4
52°	422.5	421.4	419.9	417.4	414.8	412.5	408.8	407.4	405.4	407.3	409.1
52.5°	417.2	416.5	414.6	412.2	409.1	407.0	403.7	402.2	400.4	401.5	403.7
53°	411.9	411.5	409.2	406.8	403.9	401.0	398.1	396.6	394.8	397.1	398.6
53.5°	406.2	406.0	404.0	401.9	398.9	395.7	392.9	390.6	389.7	391.7	393.1
54°	401.2	401.0	399.1	396.0	393.3	390.9	387.1	385.5	384.0	385.8	388.1
54.5°	396.3	395.6	393.7	390.5	388.6	385.8	381.0	379.7	379.2	380.0	382.5
55°	390.3	390.0	388.7	385.0	383.1	380.2	375.7	374.8	373.7	374.7	376.8
55.5°	384.6	384.2	382.7	380.0	377.4	374.2	370.5	368.9	367.9	369.2	370.9
56°	379.6	378.7	376.8	374.3	371.4	368.5	365.1	363.5	362.5	363.7	365.9
56.5°	373.9	373.5	371.6	368.5	366.0	362.7	359.3	358.5	356.9	358.5	360.4
57°	368.2	368.1	365.7	362.7	360.6	357.5	353.8	352.7	350.9	353.0	355.1
57.5°	362.7	362.4	360.4	357.2	355.1	352.1	347.8	346.4	345.4	347.0	349.2
58°	357.2	356.3	354.8	351.4	349.3	346.1	342.0	340.7	339.6	341.1	343.1
58.5°	351.3	350.4	348.8	345.7	343.3	339.9	336.2	335.2	334.1	335.2	337.4
59°	345.7	345.3	342.8	340.1	337.9	334.5	330.9	329.4	328.0	329.7	331.5
59.5°	340.2	339.4	337.5	334.9	332.3	328.8	325.0	323.8	322.3	324.2	325.7
60°	334.3	333.6	331.3	329.1	326.3	323.0	319.7	318.1	316.6	318.4	320.5
60.5°	328.6	327.6	325.5	323.3	319.8	317.4	313.7	312.2	310.8	312.1	314.6
61°	322.8	321.5	319.6	317.1	314.2	311.5	308.0	306.1	305.0	306.6	308.8
61.5°	316.4	315.6	313.7	311.0	308.4	305.5	302.2	299.9	298.7	300.5	302.8
62°	310.9	309.7	307.9	305.0	302.5	299.5	296.3	294.3	292.8	294.6	296.8
62.5°	304.8	303.9	301.9	299.2	296.4	293.8	290.1	288.3	286.7	288.6	290.6
63°	299.0	297.9	295.9	293.3	290.6	287.7	284.0	282.5	280.9	282.5	284.4
63.5°	293.5	291.7	290.0	286.9	284.9	281.7	278.2	276.3	275.2	276.2	278.8
64°	287.0	286.1	284.0	281.2	279.1	275.7	271.7	270.2	269.1	270.4	272.9
64.5°	281.2	280.1	278.0	274.9	272.6	269.7	265.4	264.1	262.7	264.1	266.7
65°	275.3	274.3	272.0	268.7	266.6	263.6	259.4	258.0	256.7	258.1	260.5
65.5°	269.2	268.1	266.0	262.4	260.6	257.3	253.1	252.0	250.8	252.1	254.4
66°	262.5	261.9	259.4	256.3	254.4	251.1	247.1	245.5	244.7	245.9	248.3
66.5°	256.1	255.5	253.2	250.3	248.1	245.0	240.8	239.5	238.6	239.6	241.8
67°	250.3	249.1	247.0	244.0	242.1	238.8	235.2	233.2	232.4	233.4	235.8



TEST NUMBER: P869747  
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	243.9	242.9	240.7	237.5	235.9	232.7	229.0	226.8	226.2	227.1	229.3
68°	237.7	236.7	234.4	231.1	229.8	226.4	222.7	220.9	219.9	221.1	223.4
68.5°	231.4	230.5	228.3	225.3	223.4	220.1	216.3	214.8	213.5	214.7	217.3
69°	225.2	224.5	222.1	219.3	217.5	213.7	209.9	208.2	207.1	208.3	211.0
69.5°	219.1	218.3	215.7	212.3	210.8	207.1	203.6	201.7	200.8	201.8	204.9
70°	212.4	211.9	209.3	206.0	204.3	201.0	197.2	195.6	194.4	195.6	198.1
70.5°	206.1	205.6	202.8	199.8	198.2	194.9	191.2	189.4	188.4	189.6	192.0
71°	199.8	199.2	196.9	193.7	192.0	188.7	184.9	183.2	182.2	183.3	185.6
71.5°	193.6	193.1	190.5	186.9	185.5	182.3	178.4	176.6	175.8	177.0	179.2
72°	187.4	186.5	183.9	180.7	179.2	175.8	172.1	170.3	169.7	170.7	173.2
72.5°	181.1	179.8	177.4	174.5	172.9	169.6	165.9	164.2	163.2	164.5	166.9
73°	174.7	173.4	171.1	167.9	166.6	163.5	159.8	157.7	156.7	158.2	160.6
73.5°	168.1	167.1	165.0	161.6	160.1	156.9	153.5	151.4	150.4	152.2	154.2
74°	161.8	160.7	158.2	155.3	153.8	150.6	147.2	145.2	144.2	145.7	147.9
74.5°	155.4	154.3	152.1	148.7	147.7	144.4	140.9	139.1	138.1	139.4	141.5
75°	148.9	147.9	145.7	142.2	141.3	137.9	134.6	132.8	131.7	133.2	135.3
75.5°	142.7	141.8	139.4	136.2	135.0	131.7	128.6	126.4	125.7	127.3	129.2
76°	136.5	135.6	133.3	129.9	128.7	125.4	122.3	120.2	119.5	120.9	123.0
76.5°	130.2	129.3	127.0	123.6	122.6	119.3	116.0	114.3	113.3	114.6	116.7
77°	124.1	122.8	120.8	117.4	116.4	113.0	110.0	108.0	107.2	108.4	110.5
77.5°	118.0	116.6	114.7	111.3	110.1	106.8	103.9	101.9	101.1	102.4	104.5
78°	111.7	110.5	108.5	105.3	104.1	100.9	98.0	95.8	95.1	96.3	98.4
78.5°	105.5	104.4	102.4	99.2	98.2	94.8	91.8	90.0	89.2	90.3	92.4
79°	99.6	98.4	96.3	93.1	92.0	88.7	85.8	84.0	83.2	84.3	86.4
79.5°	93.6	92.4	90.4	87.2	86.1	83.0	80.1	78.4	77.5	78.8	80.6
80°	87.6	86.2	84.4	81.4	80.3	77.3	74.4	72.7	71.9	73.2	75.1
80.5°	81.8	80.5	78.8	75.6	74.7	71.6	68.8	67.1	66.2	67.6	69.6
81°	75.9	74.7	73.2	70.0	69.1	66.1	63.2	61.5	60.8	62.1	64.1
81.5°	70.2	69.2	67.4	64.4	63.5	60.5	57.8	56.2	55.6	56.5	58.5
82°	64.6	63.6	61.6	58.8	58.0	55.1	52.4	50.7	50.2	51.3	53.1
82.5°	58.9	58.2	56.0	53.2	52.6	49.8	47.4	45.7	45.0	46.1	47.9
83°	53.4	52.4	50.7	48.1	47.6	44.8	42.3	40.8	40.2	41.3	43.1
83.5°	48.4	47.2	45.5	43.1	42.5	39.8	37.4	35.9	35.4	36.3	38.0
84°	43.3	42.3	40.5	38.3	37.6	35.0	32.6	31.2	30.6	31.7	33.4
84.5°	38.4	37.5	35.9	33.6	32.9	30.5	28.2	26.8	26.4	27.4	28.8
85°	33.7	32.8	31.3	29.0	28.4	26.1	24.0	22.6	22.3	23.1	24.6
85.5°	29.1	28.3	26.9	24.8	24.1	21.9	19.8	18.8	18.5	19.2	20.6
86°	25.0	24.2	22.9	20.9	20.2	18.1	16.4	15.2	15.0	15.6	16.9
86.5°	21.0	20.4	19.3	17.4	16.6	14.8	13.3	12.4	12.1	13.0	13.8
87°	17.5	16.9	15.8	14.1	13.5	11.9	10.5	9.6	9.5	10.1	11.1
87.5°	14.2	13.7	12.7	11.1	10.6	9.2	7.8	7.0	7.0	7.6	8.5
88°	11.1	10.7	9.8	8.3	8.0	6.7	5.5	4.9	4.8	5.3	6.1
88.5°	8.3	7.9	7.2	5.9	5.8	4.5	3.5	2.9	2.8	3.3	4.0
89°	5.9	5.6	5.0	4.1	4.1	2.8	1.9	1.4	1.3	1.6	2.2
89.5°	4.1	3.9	3.3	2.5	2.2	1.4	0.7	1.3	1.1	1.4	0.8

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



TEST NUMBER: P869747  
CATALOG NUMBER: SMX18SLSFSD2W-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: P869747  
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	709.7	709.7	709.7	709.7	709.7	709.7
0.5°	710.3	708.8	710.6	709.3	709.2	709.6
1°	709.6	708.7	710.9	709.5	709.0	710.1
1.5°	709.4	709.5	710.3	709.5	709.3	709.5
2°	709.0	709.3	709.6	709.5	710.3	709.0
2.5°	708.5	708.2	710.3	709.0	709.0	709.0
3°	709.3	707.7	710.3	708.5	709.7	708.0
3.5°	708.7	708.5	709.4	708.1	709.1	708.4
4°	708.5	707.8	709.3	708.3	708.2	708.2
4.5°	708.4	707.1	708.9	708.0	708.1	708.1
5°	707.9	706.6	709.0	707.4	707.7	708.4
5.5°	706.2	705.9	708.8	707.1	708.0	707.9
6°	705.4	705.6	708.8	706.9	706.9	707.5
6.5°	704.6	705.9	708.0	706.8	706.6	706.9
7°	704.3	704.2	707.2	705.6	706.3	706.4
7.5°	703.4	704.0	706.4	705.1	706.1	705.2
8°	702.4	703.3	704.6	704.6	705.1	704.4
8.5°	701.2	701.8	703.7	703.5	703.3	703.6
9°	700.3	701.0	703.5	701.8	703.1	702.6
9.5°	698.5	700.1	702.2	700.9	701.7	700.9
10°	697.6	699.1	700.6	699.6	700.3	699.4
10.5°	696.0	697.5	699.4	697.3	700.0	698.5
11°	695.0	696.0	698.0	696.2	698.1	697.3
11.5°	693.1	694.3	696.6	695.5	696.4	695.8
12°	691.7	692.2	695.8	694.5	695.3	695.2
12.5°	690.3	691.3	693.5	692.6	694.2	694.0
13°	689.2	689.5	691.6	691.7	692.6	692.7
13.5°	687.5	688.5	690.4	690.5	691.1	691.3
14°	686.3	686.7	689.6	689.3	689.0	690.0
14.5°	685.1	685.4	687.1	687.4	687.9	688.4
15°	683.2	683.2	685.2	685.0	687.1	687.3
15.5°	680.2	682.1	683.8	682.7	685.8	685.1
16°	678.4	680.5	682.0	681.7	683.5	683.9
16.5°	676.5	678.1	680.2	679.8	682.3	681.7
17°	675.0	675.3	678.2	677.1	680.2	679.1
17.5°	672.8	673.8	677.1	675.1	678.2	677.6
18°	670.5	672.3	675.0	674.2	676.2	676.2
18.5°	668.5	670.5	672.3	672.3	673.4	673.8
19°	666.1	667.9	669.4	669.5	670.8	670.9
19.5°	663.4	665.8	667.2	666.8	668.8	668.7
20°	661.6	663.5	665.3	664.5	666.4	666.6
20.5°	660.1	661.6	662.4	662.6	664.4	664.1
21°	657.9	658.5	660.2	660.9	662.3	662.6
21.5°	655.2	655.3	657.8	658.9	660.5	660.2
22°	652.4	652.7	655.2	656.0	658.4	656.9

TEST NUMBER: P869747

CATALOG NUMBER: SMX18SLSFSD2W-2000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	648.9	651.1	652.6	652.9	655.0	654.2
23°	646.6	648.5	650.6	650.5	651.9	652.0
23.5°	643.7	645.1	647.6	648.7	649.4	649.3
24°	641.1	642.4	645.6	645.1	646.7	646.8
24.5°	639.3	640.3	642.6	642.5	644.1	644.3
25°	636.2	637.5	639.6	640.6	642.2	641.5
25.5°	633.0	635.2	636.4	637.7	639.9	638.5
26°	630.3	631.2	633.6	634.6	636.3	636.1
26.5°	627.3	628.0	631.2	630.9	632.8	633.3
27°	623.8	624.9	628.7	628.2	630.2	630.1
27.5°	620.3	621.2	625.1	625.7	628.3	627.5
28°	617.3	618.0	621.6	623.3	625.0	624.7
28.5°	613.7	615.7	618.2	619.7	621.5	620.2
29°	611.2	612.6	615.8	616.5	617.4	617.6
29.5°	608.1	609.1	612.3	613.1	615.1	613.7
30°	605.3	605.7	608.6	609.1	612.1	611.8
30.5°	600.8	603.2	604.7	605.2	608.4	608.1
31°	597.3	598.4	601.7	602.5	604.7	604.1
31.5°	593.7	595.1	598.7	598.5	601.8	600.7
32°	590.9	591.8	595.4	595.2	598.7	597.3
32.5°	587.8	588.7	591.6	592.0	595.6	593.8
33°	583.9	585.1	588.3	589.3	591.6	590.5
33.5°	579.1	581.3	584.5	585.4	588.1	586.7
34°	575.8	577.5	580.4	581.1	584.0	582.5
34.5°	571.6	573.9	576.7	577.5	580.3	578.7
35°	568.0	570.1	573.0	574.1	576.6	576.3
35.5°	564.6	565.6	569.5	570.4	572.5	572.5
36°	560.7	561.3	565.3	566.5	568.4	568.0
36.5°	556.9	557.3	561.3	561.6	564.6	564.0
37°	552.8	553.3	557.8	557.8	560.4	560.7
37.5°	548.2	549.9	553.7	553.6	557.1	556.9
38°	543.9	545.6	549.7	549.9	553.3	552.7
38.5°	539.7	541.6	545.2	546.1	549.3	547.8
39°	535.4	537.9	541.5	542.0	544.1	544.0
39.5°	531.4	534.2	537.2	537.3	540.1	539.7
40°	527.0	529.4	533.0	533.9	535.6	536.3
40.5°	523.4	524.9	528.6	529.8	531.5	532.2
41°	519.3	520.9	524.1	525.5	526.9	527.8
41.5°	514.5	516.9	519.7	520.9	522.9	523.4
42°	510.1	512.1	515.7	516.1	519.2	518.8
42.5°	504.9	506.9	511.0	511.5	514.7	514.4
43°	500.3	503.0	505.8	507.4	510.4	509.9
43.5°	495.4	497.9	500.9	503.2	505.5	505.2
44°	491.2	492.8	496.1	498.2	500.9	500.8
44.5°	486.5	489.0	492.5	492.9	496.3	496.2

TEST NUMBER: P869747  
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	481.8	484.7	488.0	488.2	491.1	491.5
45.5°	476.8	480.1	483.1	483.7	486.2	487.2
46°	472.2	475.2	478.6	479.1	481.7	482.1
46.5°	467.3	470.1	473.8	475.2	476.9	476.9
47°	462.4	465.3	469.0	470.1	472.1	472.3
47.5°	457.4	460.7	464.1	465.1	467.0	467.6
48°	452.6	455.6	459.2	460.2	462.5	462.9
48.5°	447.7	450.1	454.0	455.3	457.6	457.3
49°	442.5	445.0	448.7	450.3	452.6	452.5
49.5°	437.6	440.1	443.3	445.3	447.7	447.6
50°	432.4	434.4	438.0	440.6	442.5	442.9
50.5°	427.2	429.5	432.9	435.6	437.1	437.4
51°	422.3	424.9	428.2	429.9	432.2	432.0
51.5°	417.2	419.3	423.3	424.6	427.4	427.2
52°	412.1	413.8	418.3	419.2	422.5	422.5
52.5°	406.6	409.0	413.0	414.6	417.1	417.2
53°	401.2	403.9	407.8	409.6	412.3	411.9
53.5°	396.4	398.6	402.3	403.3	406.7	406.2
54°	390.7	393.1	397.0	398.1	401.2	401.2
54.5°	385.3	387.4	391.5	393.2	395.4	396.3
55°	380.0	382.0	385.9	387.6	390.4	390.3
55.5°	374.6	376.4	380.3	382.4	385.2	384.6
56°	369.1	371.0	375.0	376.9	379.6	379.6
56.5°	363.5	365.3	369.5	371.0	374.2	373.9
57°	357.5	359.6	363.7	365.4	368.5	368.2
57.5°	351.7	353.8	358.0	359.1	362.5	362.7
58°	346.3	348.2	352.1	354.0	357.2	357.2
58.5°	340.9	342.4	346.0	348.7	351.3	351.3
59°	335.3	336.8	340.4	343.1	345.7	345.7
59.5°	329.1	331.0	334.4	337.3	339.9	340.2
60°	323.7	324.9	329.1	331.2	334.3	334.3
60.5°	317.2	319.0	322.9	325.4	328.5	328.6
61°	311.3	313.0	317.2	319.4	322.4	322.8
61.5°	305.6	307.6	311.7	313.4	316.3	316.4
62°	299.6	301.7	305.8	307.5	310.5	310.9
62.5°	293.8	295.8	300.0	301.8	304.6	304.8
63°	287.7	289.4	293.8	295.5	299.0	299.0
63.5°	281.8	283.5	287.9	289.7	292.7	293.5
64°	275.8	277.8	281.8	283.5	286.2	287.0
64.5°	269.7	271.9	275.9	277.9	280.1	281.2
65°	263.6	265.7	269.4	271.9	274.2	275.3
65.5°	257.8	259.5	263.3	265.5	268.1	269.2
66°	251.6	252.9	257.2	259.4	262.0	262.5
66.5°	245.3	247.1	251.0	253.6	255.9	256.1
67°	239.0	241.0	244.8	247.4	250.0	250.3

TEST NUMBER: P869747  
 CATALOG NUMBER: SMX18SLSFSD2W-2000LM-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	232.9	234.5	238.2	240.7	243.7	243.9
68°	226.6	228.1	232.1	234.8	237.5	237.7
68.5°	220.6	222.0	225.9	228.5	230.8	231.4
69°	214.7	216.0	219.3	222.0	224.6	225.2
69.5°	208.3	209.8	213.1	215.8	218.4	219.1
70°	201.8	203.3	206.7	209.8	212.1	212.4
70.5°	195.5	196.7	200.7	203.3	205.9	206.1
71°	189.1	190.4	194.3	196.8	199.6	199.8
71.5°	182.6	184.2	187.8	190.7	193.3	193.6
72°	176.2	177.9	181.6	184.3	186.7	187.4
72.5°	170.3	171.3	175.3	177.7	180.2	181.1
73°	163.9	164.8	168.7	171.3	173.9	174.7
73.5°	157.7	158.7	162.8	165.0	167.6	168.1
74°	151.4	152.2	156.1	158.5	161.3	161.8
74.5°	145.2	145.9	149.8	152.4	154.8	155.4
75°	138.7	139.6	143.3	146.2	148.3	148.9
75.5°	132.5	133.4	137.2	139.8	142.0	142.7
76°	126.3	127.1	130.8	133.4	135.7	136.5
76.5°	120.0	121.0	124.7	127.3	129.4	130.2
77°	113.7	114.6	118.4	120.9	123.3	124.1
77.5°	107.6	108.7	112.2	115.0	117.3	118.0
78°	101.6	102.6	106.2	108.9	111.1	111.7
78.5°	95.5	96.6	100.3	102.9	105.0	105.5
79°	89.7	90.6	94.2	96.7	98.8	99.6
79.5°	83.6	84.8	88.2	90.8	92.9	93.6
80°	77.9	78.8	82.2	84.7	87.0	87.6
80.5°	72.4	73.2	76.7	79.0	81.1	81.8
81°	66.9	67.6	70.9	73.4	75.4	75.9
81.5°	61.4	62.0	65.3	67.7	69.6	70.2
82°	55.9	56.4	59.7	62.1	64.1	64.6
82.5°	50.7	51.2	54.2	56.5	58.6	58.9
83°	45.7	46.0	48.8	51.0	53.1	53.4
83.5°	40.6	41.0	43.7	45.9	47.9	48.4
84°	35.8	36.2	38.9	40.9	42.7	43.3
84.5°	31.2	31.6	34.2	36.2	38.0	38.4
85°	26.9	27.4	29.8	31.7	33.2	33.7
85.5°	22.6	23.1	25.5	27.4	28.7	29.1
86°	18.8	19.5	21.4	23.2	24.7	25.0
86.5°	15.4	16.0	17.9	19.5	20.7	21.0
87°	12.6	12.9	14.6	15.9	17.1	17.5
87.5°	9.8	10.1	11.7	12.8	13.8	14.2
88°	7.4	7.2	8.7	10.1	10.9	11.1
88.5°	5.1	4.9	5.9	7.2	8.0	8.3
89°	3.2	3.3	4.1	4.9	5.6	5.9
89.5°	1.5	1.8	2.5	3.1	3.9	4.1

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869747  
CATALOG NUMBER: SMX18SLSFSD2W-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)