

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: P869733

Luminaire Tested: **SMX18SLSFS010-2000LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869733  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX18SLSFS010-2000LM-3500K  
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

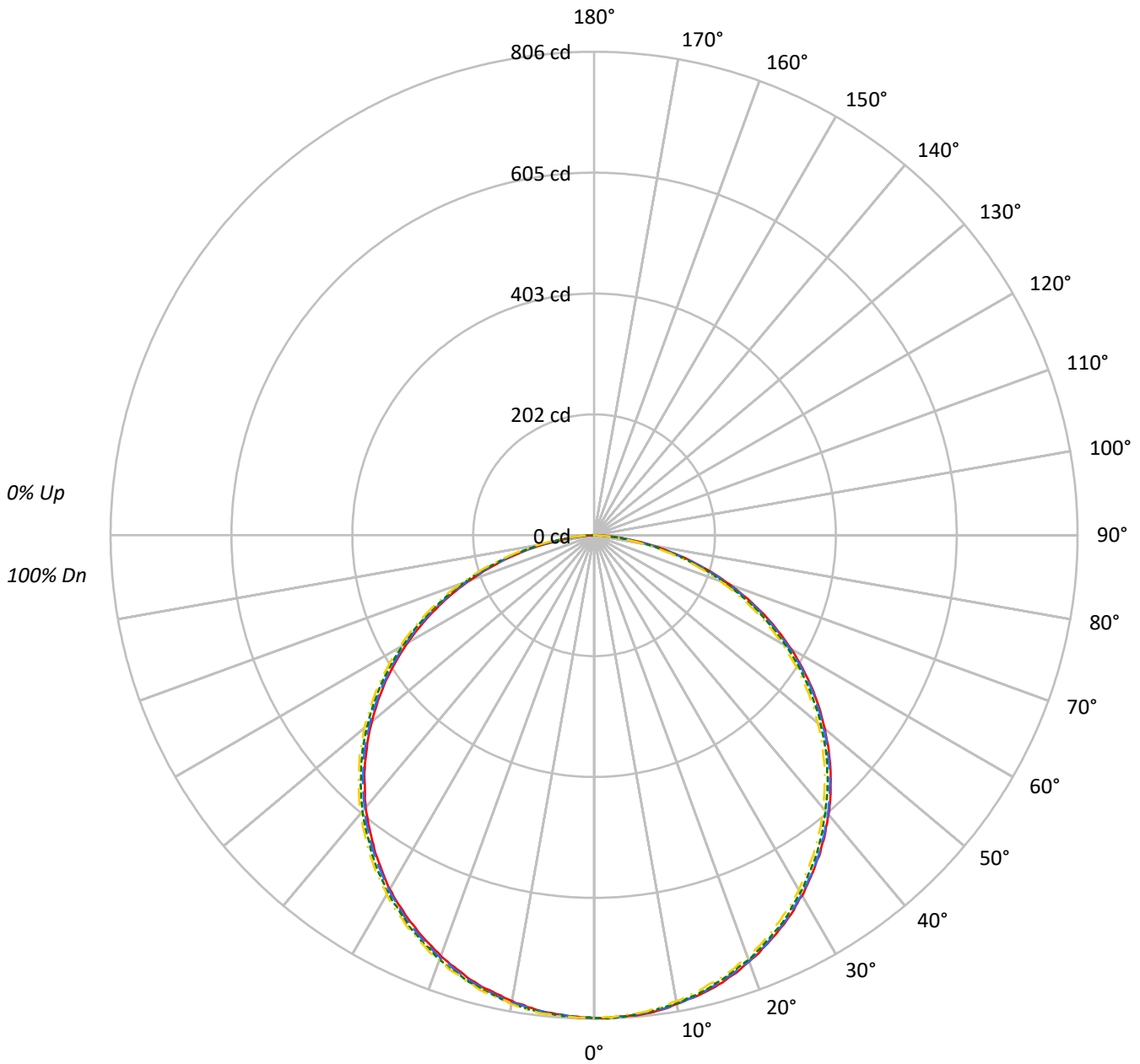
Lumens per Lamp: N/A  
 Luminaire Lumens: 2350.1 lumens  
 Efficiency: N/A  
 Efficacy: 99.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
 CIE Type: Direct

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°	3852	3852	3852	3852
5°	3859	3850	3840	3849
10°	3854	3850	3830	3852
15°	3862	3836	3817	3838
20°	3849	3836	3800	3832
25°	3841	3821	3778	3817
30°	3834	3798	3763	3796
35°	3818	3780	3732	3777
40°	3799	3750	3698	3751
45°	3772	3718	3654	3720
50°	3740	3676	3601	3668
55°	3693	3625	3536	3614
60°	3628	3541	3437	3526
65°	3535	3423	3296	3412
70°	3370	3241	3086	3227
75°	3122	2963	2763	2926
80°	2738	2510	2245	2463
85°	2097	1767	1389	1702

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.2	3.2
10°-20°	218.8	9.3
20°-30°	333.2	14.2
30°-40°	404.5	17.2
40°-50°	423.7	18.0
50°-60°	387.3	16.5
60°-70°	298.2	12.7
70°-80°	168.6	7.2
80°-90°	39.7	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°	628.2	26.7
0°-40°	1032.7	43.9
0°-60°	1843.7	78.5
0°-90°	2350.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2350.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	805	805	805	805	805	
5°	804	802	800	802	804	76
15°	780	774	771	775	780	220
25°	728	724	716	723	728	335
35°	654	647	639	647	654	409
45°	558	550	540	550	558	430
55°	443	435	424	433	443	395
65°	312	302	291	301	312	308
75°	169	160	150	158	169	179
85°	38	32	25	31	38	46
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°	805.1	805.1	805.1	805.1	805.1	805.1	805.1	805.1	805.1	805.1	805.1
0.5°	804.9	804.7	805.2	804.5	805.3	806.0	804.5	805.1	804.5	804.9	804.1
1°	805.6	804.2	805.2	805.0	804.9	805.2	803.9	804.4	804.0	804.6	805.1
1.5°	804.8	804.8	804.4	805.0	805.9	805.1	803.3	804.2	804.2	803.9	804.8
2°	804.3	803.8	804.2	804.8	805.6	804.7	804.4	803.3	803.2	803.3	803.3
2.5°	804.2	804.6	803.9	804.8	804.9	804.7	803.5	803.3	802.9	802.9	803.0
3°	803.1	804.7	803.7	804.0	804.2	804.0	802.4	803.8	802.8	802.1	803.2
3.5°	803.6	804.9	803.4	803.9	804.3	803.3	802.4	803.2	801.9	801.9	801.9
4°	803.3	804.0	803.2	804.1	803.8	802.8	800.8	802.4	801.1	802.3	801.1
4.5°	803.3	803.9	802.1	803.8	802.9	802.6	800.8	800.9	801.1	801.5	801.0
5°	803.6	803.2	802.1	802.6	801.8	802.3	800.1	800.5	799.7	799.5	801.6
5.5°	803.0	802.6	801.5	801.2	801.1	801.2	799.8	799.2	799.6	798.6	800.5
6°	802.6	802.6	800.9	801.4	801.1	799.6	799.2	799.0	798.9	797.8	799.0
6.5°	801.9	802.3	800.2	800.0	800.1	799.8	798.0	797.8	797.8	797.2	798.3
7°	801.4	801.6	799.5	799.6	799.2	798.7	795.8	796.4	796.7	795.9	798.3
7.5°	800.0	799.7	798.3	798.1	797.2	798.1	795.7	795.5	795.1	794.9	796.7
8°	799.1	798.1	797.8	797.8	796.0	797.1	795.1	794.1	794.3	793.9	794.4
8.5°	798.2	797.0	797.5	795.9	795.5	796.0	793.7	793.3	791.9	793.1	793.6
9°	797.0	795.7	796.2	795.4	794.4	795.0	791.8	792.3	790.9	791.4	792.3
9.5°	795.1	795.2	794.4	793.6	793.6	793.8	789.7	790.3	790.7	790.4	792.0
10°	793.4	793.5	792.8	793.0	792.6	792.3	788.7	788.8	788.5	789.8	790.6
10.5°	792.4	792.4	792.3	790.9	791.1	790.1	787.7	787.3	786.8	788.0	789.0
11°	791.0	791.0	791.1	790.3	789.4	789.0	786.0	786.8	785.3	785.7	787.2
11.5°	789.3	790.3	789.1	788.1	786.8	787.8	784.5	784.8	782.8	784.7	785.7
12°	788.6	788.2	788.1	786.4	786.0	786.5	782.2	784.0	781.7	782.5	784.8
12.5°	787.3	786.6	787.4	785.0	785.0	785.0	780.5	782.4	779.6	780.9	782.7
13°	785.8	786.3	785.4	783.1	783.1	783.1	779.3	780.0	778.1	779.6	780.2
13.5°	784.2	784.8	782.7	781.7	781.5	781.0	777.1	778.7	777.4	778.1	777.9
14°	782.7	783.1	780.9	780.6	779.8	777.6	774.4	776.5	775.4	776.7	776.8
14.5°	780.9	780.6	778.8	778.0	777.6	776.5	772.3	774.0	773.0	774.2	774.9
15°	779.7	778.5	777.2	776.9	774.5	775.0	771.0	772.1	770.7	771.2	773.5
15.5°	777.1	776.7	775.4	774.4	772.8	772.7	769.5	769.8	769.1	769.1	771.6
16°	775.8	774.5	773.0	772.6	771.5	771.0	767.3	767.6	767.0	767.7	769.5
16.5°	773.3	772.4	770.9	770.0	768.8	768.9	765.0	765.6	763.7	765.6	767.1
17°	770.3	769.8	768.6	768.7	766.5	766.6	762.8	763.8	761.1	762.5	763.9
17.5°	768.7	767.9	766.7	765.3	763.6	764.3	760.7	761.5	758.8	759.9	761.8
18°	767.0	765.9	764.4	763.1	762.0	761.5	758.7	758.5	756.4	757.5	759.7
18.5°	764.3	763.7	762.2	760.6	759.0	759.2	755.0	755.4	754.5	755.1	756.3
19°	761.1	761.7	759.7	758.3	757.4	756.6	752.6	752.9	751.4	752.6	753.1
19.5°	758.6	759.6	757.9	755.7	754.7	754.2	750.5	750.1	749.2	750.1	751.2
20°	756.1	756.3	755.6	753.9	753.4	751.9	747.8	747.4	746.5	747.3	749.3
20.5°	753.3	753.3	751.9	750.7	750.5	749.0	745.5	744.8	743.0	744.5	747.4
21°	751.6	750.4	749.5	748.2	747.3	746.2	742.8	741.8	740.4	742.6	744.0
21.5°	748.9	748.2	747.3	746.4	744.3	743.3	739.9	738.7	737.4	740.0	740.6
22°	745.2	745.1	744.5	743.7	741.7	739.8	737.6	737.3	734.4	736.2	738.0

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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°	742.2	742.2	742.3	740.4	738.3	736.7	734.5	733.9	731.5	733.1	734.6
23°	739.6	739.2	739.0	737.0	735.4	734.8	731.1	731.2	728.6	730.6	732.0
23.5°	736.6	736.9	735.4	734.0	732.8	731.7	727.9	728.4	726.1	728.1	728.9
24°	733.7	734.1	732.3	731.7	729.3	728.4	725.0	724.4	723.0	724.2	725.9
24.5°	730.9	730.7	729.2	728.1	726.3	725.3	720.6	720.7	718.8	720.2	722.5
25°	727.7	726.9	726.3	724.8	723.9	722.0	717.5	718.2	715.7	717.0	718.8
25.5°	724.3	723.9	722.9	721.2	720.5	718.8	714.9	715.4	713.2	713.9	715.6
26°	721.6	721.1	719.7	718.1	717.9	715.6	711.4	711.9	709.7	711.0	713.4
26.5°	718.4	718.2	717.0	714.7	713.7	711.6	707.8	708.5	706.5	707.2	709.5
27°	714.8	714.7	713.8	711.5	710.6	707.8	704.8	705.0	702.3	703.3	705.4
27.5°	711.8	712.0	709.6	708.6	706.7	704.0	701.4	701.4	698.5	700.0	701.6
28°	708.7	707.3	706.2	705.4	702.0	700.6	697.8	697.0	695.7	697.7	698.2
28.5°	703.6	703.7	702.6	701.8	698.1	696.5	694.0	693.6	692.2	693.9	694.0
29°	700.6	700.5	698.7	697.9	695.0	693.7	690.4	689.9	689.0	690.3	690.8
29.5°	696.2	697.6	695.8	694.2	691.2	690.3	686.8	685.9	684.4	686.2	687.2
30°	694.0	693.6	691.6	689.9	687.6	685.5	682.7	681.9	681.2	681.9	683.2
30.5°	689.8	689.3	687.6	685.6	684.4	681.6	678.2	678.1	677.4	677.6	678.7
31°	685.3	684.9	683.9	682.1	679.9	677.4	674.3	673.7	673.3	673.8	675.5
31.5°	681.4	680.6	680.4	678.0	675.9	673.4	669.7	669.2	668.8	669.2	671.1
32°	677.5	677.2	675.7	674.6	671.6	670.2	665.7	665.7	664.6	665.2	667.0
32.5°	673.6	673.4	672.5	670.0	667.3	666.7	661.8	660.9	659.8	661.4	662.4
33°	669.8	669.5	669.0	666.4	663.9	662.4	657.9	656.8	655.7	657.2	658.9
33.5°	665.6	665.4	664.8	661.8	659.4	658.2	653.5	653.6	651.6	652.8	653.9
34°	660.8	661.9	660.4	657.8	656.0	653.4	649.7	649.7	647.2	648.8	649.9
34.5°	656.5	657.8	656.5	653.1	651.6	649.4	645.9	644.9	643.6	644.1	645.8
35°	653.7	653.3	652.3	648.5	647.3	645.1	640.9	640.2	639.0	640.0	641.8
35.5°	649.5	648.9	648.1	645.1	642.8	640.3	636.0	635.2	633.5	636.3	637.1
36°	644.3	644.2	643.6	640.8	638.4	634.9	631.7	632.0	629.2	631.8	633.4
36.5°	639.8	640.0	638.1	636.8	633.3	630.6	626.8	626.9	624.6	626.8	627.9
37°	636.1	636.0	633.9	631.6	628.7	626.2	622.2	622.8	619.8	621.5	623.1
37.5°	631.7	630.7	630.0	626.9	624.6	621.3	618.1	617.4	615.4	616.9	618.8
38°	627.0	626.4	625.0	623.0	619.7	616.7	614.0	611.9	611.1	612.9	614.6
38.5°	621.5	621.9	620.1	617.5	614.3	612.0	609.2	607.3	606.2	608.8	610.2
39°	617.1	616.8	616.2	612.9	609.4	608.0	604.0	603.0	601.3	604.0	605.3
39.5°	612.3	611.9	611.6	607.7	605.0	603.1	599.2	598.0	597.0	598.1	599.9
40°	608.3	607.0	606.9	602.9	600.4	598.0	594.7	593.2	592.1	593.4	594.8
40.5°	603.7	602.7	602.0	598.0	595.0	592.7	589.2	588.8	587.0	588.2	590.0
41°	598.7	598.0	596.5	594.0	590.4	587.7	583.8	583.3	582.2	582.6	585.2
41.5°	593.8	593.0	591.5	589.1	585.4	583.4	579.0	577.7	576.1	577.9	580.0
42°	588.5	587.5	586.6	583.9	580.6	577.5	573.9	573.0	571.1	572.8	574.9
42.5°	583.5	583.1	581.0	579.3	575.6	572.6	568.7	567.6	565.8	568.2	570.5
43°	578.4	578.6	575.8	573.6	570.5	568.4	563.5	562.8	561.0	562.5	564.6
43.5°	573.1	573.3	571.6	568.1	565.9	563.2	558.6	557.0	556.2	557.8	559.6
44°	568.1	567.7	566.3	562.8	560.6	557.2	553.4	551.9	551.1	552.7	554.3
44.5°	562.9	562.7	560.8	557.5	554.3	551.7	548.5	546.6	545.5	547.9	549.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	557.6	556.7	555.3	552.4	549.5	546.5	542.9	541.6	540.1	541.8	543.9
45.5°	552.6	551.9	549.7	548.0	544.6	541.8	537.8	536.0	534.3	536.8	538.4
46°	546.9	547.0	544.4	542.1	539.3	536.4	531.3	530.3	528.6	531.3	533.5
46.5°	541.0	540.7	539.2	536.0	534.0	530.9	526.2	524.8	523.2	526.0	527.9
47°	535.8	535.2	533.3	530.9	528.7	525.3	520.5	519.3	517.8	520.3	522.7
47.5°	530.5	529.7	527.5	525.0	522.8	519.6	514.9	513.7	512.7	514.1	516.7
48°	525.1	524.7	521.8	519.7	516.8	514.1	509.9	508.5	506.9	508.5	510.6
48.5°	518.8	518.8	516.7	514.1	510.7	508.1	503.9	503.0	501.5	502.6	505.6
49°	513.3	513.4	511.3	508.5	505.3	502.2	498.6	497.3	495.5	497.1	499.3
49.5°	507.7	508.0	505.4	502.7	499.3	496.1	492.5	491.4	489.7	491.8	493.0
50°	502.5	502.1	499.2	496.7	493.9	490.9	486.4	486.0	483.8	486.2	487.7
50.5°	496.1	496.1	493.6	490.7	488.7	485.7	481.0	480.1	477.8	479.9	482.1
51°	490.1	490.2	487.6	485.1	482.9	479.3	474.6	473.6	471.9	473.5	476.1
51.5°	484.6	484.4	482.2	479.2	477.3	473.2	469.5	467.5	465.9	467.8	470.0
52°	479.2	478.1	476.4	473.5	470.5	468.0	463.8	462.2	459.9	462.0	464.0
52.5°	473.3	472.4	470.4	467.6	464.0	461.7	458.0	456.2	454.2	455.5	458.0
53°	467.2	466.7	464.2	461.4	458.2	454.9	451.6	449.9	447.9	450.4	452.1
53.5°	460.8	460.5	458.3	455.9	452.5	448.9	445.7	443.1	442.0	444.3	446.0
54°	455.2	454.9	452.8	449.3	446.1	443.4	439.2	437.3	435.6	437.6	440.2
54.5°	449.5	448.8	446.6	442.9	440.8	437.6	432.2	430.8	430.1	431.1	433.9
55°	442.8	442.4	440.9	436.7	434.6	431.3	426.2	425.2	424.0	425.0	427.4
55.5°	436.3	435.8	434.1	431.0	428.1	424.5	420.3	418.5	417.4	418.8	420.8
56°	430.6	429.6	427.4	424.6	421.3	418.0	414.2	412.3	411.2	412.6	415.1
56.5°	424.1	423.7	421.6	418.0	415.2	411.5	407.6	406.6	404.8	406.7	408.9
57°	417.6	417.6	414.9	411.5	409.0	405.5	401.3	400.1	398.0	400.5	402.8
57.5°	411.4	411.2	408.9	405.2	402.9	399.4	394.5	392.9	391.8	393.7	396.1
58°	405.2	404.2	402.5	398.6	396.3	392.6	387.9	386.5	385.3	386.9	389.2
58.5°	398.5	397.5	395.6	392.2	389.5	385.6	381.4	380.2	379.0	380.3	382.7
59°	392.2	391.7	388.9	385.8	383.3	379.5	375.4	373.6	372.1	374.0	376.0
59.5°	385.9	385.0	382.8	379.9	376.9	373.0	368.7	367.3	365.6	367.8	369.4
60°	379.2	378.4	375.8	373.3	370.1	366.4	362.6	360.8	359.2	361.2	363.5
60.5°	372.7	371.6	369.3	366.7	362.8	360.1	355.9	354.2	352.6	354.0	356.9
61°	366.2	364.7	362.5	359.7	356.5	353.3	349.4	347.2	346.0	347.8	350.3
61.5°	358.9	358.0	355.9	352.8	349.8	346.5	342.8	340.2	338.9	340.9	343.5
62°	352.7	351.4	349.2	346.0	343.2	339.8	336.1	333.8	332.2	334.2	336.7
62.5°	345.8	344.7	342.4	339.4	336.2	333.3	329.1	327.0	325.3	327.4	329.6
63°	339.2	337.9	335.6	332.7	329.7	326.4	322.1	320.5	318.7	320.4	322.6
63.5°	333.0	330.9	329.0	325.5	323.2	319.6	315.6	313.4	312.2	313.4	316.3
64°	325.6	324.5	322.1	318.9	316.6	312.7	308.3	306.5	305.2	306.7	309.6
64.5°	318.9	317.7	315.3	311.8	309.3	306.0	301.1	299.6	298.0	299.6	302.5
65°	312.3	311.1	308.5	304.8	302.4	299.0	294.2	292.7	291.2	292.8	295.5
65.5°	305.4	304.1	301.8	297.7	295.6	291.8	287.2	285.8	284.5	286.0	288.6
66°	297.8	297.1	294.3	290.7	288.6	284.9	280.3	278.5	277.6	278.9	281.7
66.5°	290.5	289.9	287.2	284.0	281.5	278.0	273.2	271.7	270.7	271.8	274.4
67°	284.0	282.6	280.2	276.8	274.7	270.9	266.8	264.5	263.7	264.7	267.5



TEST NUMBER: P869733  
 CATALOG NUMBER: SMX18SLSFS010-2000LM-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	276.7	275.5	273.0	269.4	267.6	263.9	259.7	257.3	256.6	257.6	260.1
68°	269.6	268.5	265.9	262.2	260.6	256.8	252.6	250.6	249.5	250.9	253.4
68.5°	262.4	261.5	259.0	255.5	253.4	249.7	245.4	243.6	242.2	243.6	246.5
69°	255.5	254.7	251.9	248.7	246.7	242.4	238.1	236.2	234.9	236.3	239.4
69.5°	248.6	247.6	244.7	240.8	239.1	234.9	230.9	228.8	227.8	228.9	232.4
70°	240.9	240.4	237.4	233.7	231.7	228.0	223.7	221.9	220.6	221.9	224.8
70.5°	233.8	233.2	230.1	226.6	224.8	221.1	217.0	214.9	213.7	215.1	217.9
71°	226.6	226.0	223.4	219.7	217.8	214.1	209.7	207.8	206.7	207.9	210.5
71.5°	219.7	219.0	216.0	212.0	210.4	206.8	202.4	200.4	199.4	200.8	203.3
72°	212.6	211.5	208.7	205.0	203.3	199.4	195.2	193.1	192.5	193.6	196.4
72.5°	205.5	204.0	201.3	198.0	196.2	192.4	188.2	186.3	185.2	186.6	189.3
73°	198.1	196.7	194.0	190.5	189.0	185.4	181.2	178.9	177.8	179.4	182.1
73.5°	190.7	189.5	187.1	183.4	181.6	177.9	174.1	171.7	170.6	172.7	174.9
74°	183.5	182.3	179.5	176.2	174.4	170.8	167.0	164.7	163.6	165.3	167.8
74.5°	176.3	175.1	172.5	168.7	167.5	163.8	159.9	157.7	156.7	158.2	160.5
75°	168.9	167.8	165.3	161.4	160.3	156.4	152.7	150.7	149.5	151.1	153.5
75.5°	161.9	160.9	158.2	154.5	153.1	149.5	145.9	143.4	142.6	144.4	146.6
76°	154.9	153.8	151.2	147.3	146.0	142.3	138.7	136.3	135.6	137.1	139.5
76.5°	147.6	146.7	144.0	140.3	139.1	135.3	131.6	129.7	128.5	130.0	132.4
77°	140.8	139.4	137.1	133.2	132.0	128.2	124.7	122.5	121.6	122.9	125.3
77.5°	133.8	132.3	130.2	126.3	124.9	121.2	117.8	115.6	114.7	116.2	118.6
78°	126.7	125.3	123.1	119.5	118.1	114.5	111.2	108.6	107.9	109.2	111.7
78.5°	119.7	118.4	116.2	112.6	111.3	107.6	104.1	102.1	101.2	102.5	104.8
79°	113.0	111.6	109.2	105.6	104.4	100.6	97.3	95.3	94.4	95.7	98.0
79.5°	106.2	104.9	102.6	99.0	97.6	94.1	90.8	88.9	87.9	89.4	91.5
80°	99.4	97.8	95.7	92.3	91.1	87.7	84.4	82.4	81.5	83.0	85.2
80.5°	92.8	91.3	89.3	85.8	84.7	81.2	78.1	76.1	75.1	76.7	79.0
81°	86.1	84.7	83.0	79.4	78.4	75.0	71.7	69.8	69.0	70.5	72.7
81.5°	79.7	78.5	76.5	73.1	72.0	68.6	65.5	63.7	63.1	64.1	66.4
82°	73.2	72.2	69.9	66.7	65.8	62.5	59.5	57.6	56.9	58.1	60.3
82.5°	66.8	66.0	63.6	60.4	59.7	56.5	53.8	51.8	51.1	52.3	54.4
83°	60.6	59.5	57.5	54.5	54.0	50.8	48.0	46.2	45.6	46.8	48.9
83.5°	54.9	53.5	51.6	48.9	48.2	45.2	42.4	40.7	40.2	41.2	43.1
84°	49.1	48.0	46.0	43.4	42.7	39.7	37.0	35.4	34.7	36.0	37.9
84.5°	43.6	42.5	40.7	38.1	37.4	34.6	32.0	30.4	30.0	31.0	32.7
85°	38.2	37.2	35.5	32.9	32.2	29.6	27.2	25.6	25.3	26.2	27.9
85.5°	33.0	32.1	30.5	28.2	27.3	24.8	22.5	21.4	21.0	21.8	23.3
86°	28.3	27.4	25.9	23.7	22.9	20.5	18.6	17.2	17.0	17.7	19.2
86.5°	23.8	23.2	21.8	19.8	18.8	16.8	15.1	14.0	13.7	14.7	15.7
87°	19.9	19.2	17.9	16.0	15.4	13.5	11.9	10.9	10.8	11.4	12.6
87.5°	16.1	15.5	14.4	12.6	12.1	10.4	8.9	8.0	8.0	8.6	9.6
88°	12.6	12.2	11.1	9.4	9.0	7.6	6.2	5.5	5.4	6.0	6.9
88.5°	9.4	9.0	8.1	6.7	6.6	5.1	4.0	3.3	3.1	3.7	4.5
89°	6.7	6.4	5.7	4.6	4.6	3.2	2.1	1.6	1.5	1.8	2.5
89.5°	4.7	4.4	3.8	2.9	2.5	1.6	0.7	1.5	1.2	1.6	0.9

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



TEST NUMBER: P869733  
CATALOG NUMBER: SMX18SLSFS010-2000LM-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: P869733  
 CATALOG NUMBER: SMX18SLSFS010-2000LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	805.1	805.1	805.1	805.1	805.1	805.1
0.5°	805.7	804.1	806.1	804.6	804.5	804.9
1°	805.0	803.9	806.5	804.8	804.3	805.6
1.5°	804.7	804.8	805.8	804.8	804.6	804.8
2°	804.2	804.7	804.9	804.8	805.7	804.3
2.5°	803.8	803.4	805.8	804.2	804.3	804.2
3°	804.6	802.9	805.7	803.7	805.1	803.1
3.5°	803.9	803.7	804.7	803.3	804.4	803.6
4°	803.7	802.9	804.7	803.5	803.4	803.3
4.5°	803.6	802.1	804.2	803.1	803.3	803.3
5°	803.0	801.5	804.3	802.4	802.8	803.6
5.5°	801.1	800.8	804.0	802.1	803.2	803.0
6°	800.1	800.5	804.1	801.9	801.9	802.6
6.5°	799.3	800.7	803.1	801.8	801.5	801.9
7°	798.9	798.8	802.3	800.4	801.2	801.4
7.5°	797.9	798.7	801.3	799.9	801.0	800.0
8°	796.8	797.8	799.3	799.2	799.9	799.1
8.5°	795.5	796.1	798.3	798.0	797.8	798.2
9°	794.4	795.2	798.0	796.1	797.6	797.0
9.5°	792.4	794.2	796.6	795.1	796.0	795.1
10°	791.4	793.0	794.7	793.7	794.4	793.4
10.5°	789.5	791.3	793.4	791.0	794.1	792.4
11°	788.4	789.5	791.8	789.8	791.9	791.0
11.5°	786.3	787.6	790.2	789.0	790.0	789.3
12°	784.6	785.3	789.3	787.8	788.7	788.6
12.5°	783.1	784.2	786.7	785.7	787.5	787.3
13°	781.8	782.2	784.5	784.7	785.7	785.8
13.5°	779.9	781.0	783.1	783.3	784.0	784.2
14°	778.5	779.0	782.2	781.9	781.6	782.7
14.5°	777.1	777.5	779.4	779.8	780.4	780.9
15°	775.0	775.0	777.2	777.1	779.4	779.7
15.5°	771.6	773.8	775.7	774.4	778.0	777.1
16°	769.5	772.0	773.6	773.3	775.3	775.8
16.5°	767.4	769.3	771.6	771.2	773.9	773.3
17°	765.7	766.1	769.3	768.1	771.6	770.3
17.5°	763.3	764.3	768.1	765.8	769.3	768.7
18°	760.6	762.7	765.7	764.8	767.0	767.0
18.5°	758.3	760.6	762.6	762.7	763.9	764.3
19°	755.6	757.7	759.4	759.5	761.0	761.1
19.5°	752.6	755.2	756.9	756.5	758.7	758.6
20°	750.5	752.7	754.7	753.8	756.0	756.1
20.5°	748.8	750.5	751.4	751.6	753.7	753.3
21°	746.3	747.0	748.9	749.7	751.3	751.6
21.5°	743.2	743.3	746.2	747.4	749.2	748.9
22°	740.0	740.4	743.2	744.1	746.8	745.2

TEST NUMBER: P869733  
 CATALOG NUMBER: SMX18SLSFS010-2000LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	736.1	738.6	740.3	740.6	743.1	742.2
23°	733.5	735.7	738.0	737.9	739.5	739.6
23.5°	730.2	731.8	734.6	735.8	736.7	736.6
24°	727.3	728.8	732.3	731.7	733.6	733.7
24.5°	725.2	726.4	728.9	728.9	730.7	730.9
25°	721.7	723.2	725.6	726.6	728.5	727.7
25.5°	718.1	720.6	721.9	723.4	725.9	724.3
26°	715.0	716.0	718.8	719.8	721.8	721.6
26.5°	711.6	712.4	716.1	715.6	717.9	718.4
27°	707.6	708.8	713.2	712.6	714.9	714.8
27.5°	703.7	704.6	709.2	709.7	712.7	711.8
28°	700.3	701.0	705.1	707.0	709.0	708.7
28.5°	696.2	698.5	701.3	703.0	705.1	703.6
29°	693.3	695.0	698.6	699.3	700.4	700.6
29.5°	689.8	690.9	694.6	695.4	697.7	696.2
30°	686.7	687.2	690.4	691.0	694.4	694.0
30.5°	681.6	684.3	685.9	686.6	690.1	689.8
31°	677.5	678.8	682.6	683.5	686.0	685.3
31.5°	673.4	675.1	679.2	678.9	682.6	681.4
32°	670.3	671.4	675.4	675.2	679.2	677.5
32.5°	666.8	667.9	671.1	671.5	675.7	673.6
33°	662.4	663.7	667.4	668.5	671.1	669.8
33.5°	656.9	659.4	663.0	664.1	667.1	665.6
34°	653.2	655.1	658.4	659.2	662.4	660.8
34.5°	648.4	651.0	654.2	655.1	658.2	656.5
35°	644.3	646.7	650.0	651.3	654.1	653.7
35.5°	640.5	641.7	646.0	647.1	649.5	649.5
36°	636.1	636.7	641.2	642.6	644.8	644.3
36.5°	631.7	632.2	636.7	637.1	640.4	639.8
37°	627.1	627.7	632.8	632.8	635.7	636.1
37.5°	621.9	623.8	628.1	627.9	632.0	631.7
38°	616.9	618.9	623.6	623.8	627.6	627.0
38.5°	612.3	614.4	618.5	619.5	623.1	621.5
39°	607.3	610.2	614.2	614.8	617.2	617.1
39.5°	602.8	605.9	609.4	609.6	612.7	612.3
40°	597.8	600.6	604.6	605.7	607.6	608.3
40.5°	593.7	595.4	599.6	601.0	603.0	603.7
41°	589.1	590.9	594.5	596.2	597.7	598.7
41.5°	583.6	586.3	589.6	590.9	593.1	593.8
42°	578.7	580.9	585.0	585.5	588.9	588.5
42.5°	572.8	575.1	579.7	580.2	583.8	583.5
43°	567.5	570.5	573.7	575.6	579.0	578.4
43.5°	562.0	564.8	568.2	570.9	573.4	573.1
44°	557.2	559.0	562.8	565.2	568.2	568.1
44.5°	551.9	554.7	558.6	559.1	563.0	562.9

TEST NUMBER: P869733  
 CATALOG NUMBER: SMX18SLSFS010-2000LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	546.6	549.9	553.6	553.8	557.1	557.6
45.5°	540.9	544.6	548.0	548.7	551.5	552.6
46°	535.6	539.0	542.9	543.5	546.4	546.9
46.5°	530.1	533.3	537.5	539.0	541.0	541.0
47°	524.6	527.8	532.0	533.3	535.6	535.8
47.5°	518.9	522.6	526.4	527.6	529.8	530.5
48°	513.5	516.8	520.9	522.0	524.6	525.1
48.5°	507.9	510.6	515.0	516.5	519.1	518.8
49°	502.0	504.9	509.0	510.8	513.4	513.3
49.5°	496.4	499.3	502.9	505.2	507.9	507.7
50°	490.6	492.8	496.9	499.8	502.0	502.5
50.5°	484.6	487.2	491.1	494.1	495.8	496.1
51°	479.1	482.0	485.8	487.7	490.2	490.1
51.5°	473.3	475.6	480.2	481.6	484.8	484.6
52°	467.5	469.5	474.5	475.5	479.2	479.2
52.5°	461.2	464.0	468.6	470.4	473.2	473.3
53°	455.2	458.1	462.6	464.6	467.7	467.2
53.5°	449.7	452.1	456.3	457.6	461.3	460.8
54°	443.2	445.9	450.3	451.6	455.2	455.2
54.5°	437.1	439.4	444.2	446.1	448.5	449.5
55°	431.0	433.3	437.8	439.7	442.9	442.8
55.5°	425.0	427.0	431.4	433.8	436.9	436.3
56°	418.7	420.8	425.4	427.5	430.6	430.6
56.5°	412.3	414.4	419.1	420.8	424.5	424.1
57°	405.6	407.9	412.6	414.5	418.1	417.6
57.5°	398.9	401.3	406.1	407.4	411.2	411.4
58°	392.8	395.0	399.4	401.5	405.2	405.2
58.5°	386.8	388.4	392.5	395.6	398.5	398.5
59°	380.4	382.1	386.1	389.2	392.2	392.2
59.5°	373.4	375.5	379.4	382.6	385.6	385.9
60°	367.2	368.5	373.3	375.8	379.2	379.2
60.5°	359.8	361.9	366.2	369.1	372.6	372.7
61°	353.2	355.1	359.8	362.3	365.7	366.2
61.5°	346.7	348.9	353.6	355.5	358.8	358.9
62°	339.9	342.3	346.9	348.8	352.3	352.7
62.5°	333.3	335.5	340.3	342.3	345.5	345.8
63°	326.3	328.3	333.2	335.2	339.1	339.2
63.5°	319.7	321.6	326.6	328.6	332.1	333.0
64°	312.9	315.1	319.7	321.7	324.6	325.6
64.5°	306.0	308.4	313.0	315.2	317.8	318.9
65°	299.1	301.4	305.6	308.4	311.1	312.3
65.5°	292.5	294.4	298.7	301.2	304.2	305.4
66°	285.4	286.9	291.8	294.3	297.2	297.8
66.5°	278.3	280.3	284.8	287.7	290.3	290.5
67°	271.1	273.4	277.7	280.7	283.6	284.0

TEST NUMBER: P869733  
 CATALOG NUMBER: SMX18SLSFS010-2000LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	264.3	266.1	270.2	273.0	276.5	276.7
68°	257.0	258.7	263.3	266.3	269.4	269.6
68.5°	250.2	251.9	256.3	259.2	261.9	262.4
69°	243.6	245.0	248.8	251.9	254.8	255.5
69.5°	236.2	238.0	241.8	244.8	247.7	248.6
70°	228.9	230.7	234.5	238.0	240.6	240.9
70.5°	221.8	223.1	227.6	230.7	233.6	233.8
71°	214.5	216.0	220.4	223.2	226.4	226.6
71.5°	207.2	208.9	213.0	216.4	219.3	219.7
72°	199.9	201.8	206.0	209.1	211.8	212.6
72.5°	193.1	194.4	198.8	201.6	204.5	205.5
73°	185.9	186.9	191.4	194.3	197.2	198.1
73.5°	178.8	180.1	184.7	187.2	190.1	190.7
74°	171.7	172.7	177.1	179.8	183.0	183.5
74.5°	164.7	165.5	169.9	172.9	175.6	176.3
75°	157.3	158.3	162.6	165.8	168.2	168.9
75.5°	150.4	151.3	155.7	158.6	161.0	161.9
76°	143.3	144.2	148.4	151.3	154.0	154.9
76.5°	136.1	137.2	141.4	144.4	146.8	147.6
77°	129.0	130.0	134.3	137.1	139.8	140.8
77.5°	122.0	123.3	127.3	130.5	133.1	133.8
78°	115.2	116.4	120.5	123.5	126.0	126.7
78.5°	108.3	109.5	113.8	116.8	119.2	119.7
79°	101.7	102.8	106.8	109.7	112.1	113.0
79.5°	94.8	96.2	100.0	103.0	105.4	106.2
80°	88.4	89.4	93.2	96.1	98.7	99.4
80.5°	82.1	83.0	87.0	89.6	92.1	92.8
81°	75.9	76.7	80.5	83.3	85.6	86.1
81.5°	69.6	70.3	74.1	76.8	79.0	79.7
82°	63.4	64.0	67.7	70.5	72.7	73.2
82.5°	57.5	58.1	61.5	64.1	66.4	66.8
83°	51.9	52.2	55.3	57.9	60.3	60.6
83.5°	46.1	46.5	49.6	52.1	54.4	54.9
84°	40.6	41.1	44.2	46.4	48.4	49.1
84.5°	35.4	35.9	38.8	41.1	43.1	43.6
85°	30.5	31.0	33.7	36.0	37.6	38.2
85.5°	25.6	26.2	28.9	31.0	32.6	33.0
86°	21.4	22.1	24.2	26.3	28.0	28.3
86.5°	17.5	18.1	20.3	22.1	23.5	23.8
87°	14.3	14.6	16.5	18.1	19.4	19.9
87.5°	11.2	11.4	13.2	14.5	15.7	16.1
88°	8.4	8.2	9.9	11.4	12.4	12.6
88.5°	5.7	5.6	6.7	8.1	9.1	9.4
89°	3.6	3.7	4.6	5.6	6.3	6.7
89.5°	1.7	2.1	2.8	3.5	4.4	4.7

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869733  
CATALOG NUMBER: SMX18SLSFS010-2000LM-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)