

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: P869734

Luminaire Tested: **SMX18SLSFS010-2000LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869734
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX18SLSFS010-2000LM-4000K
 Description: 18IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

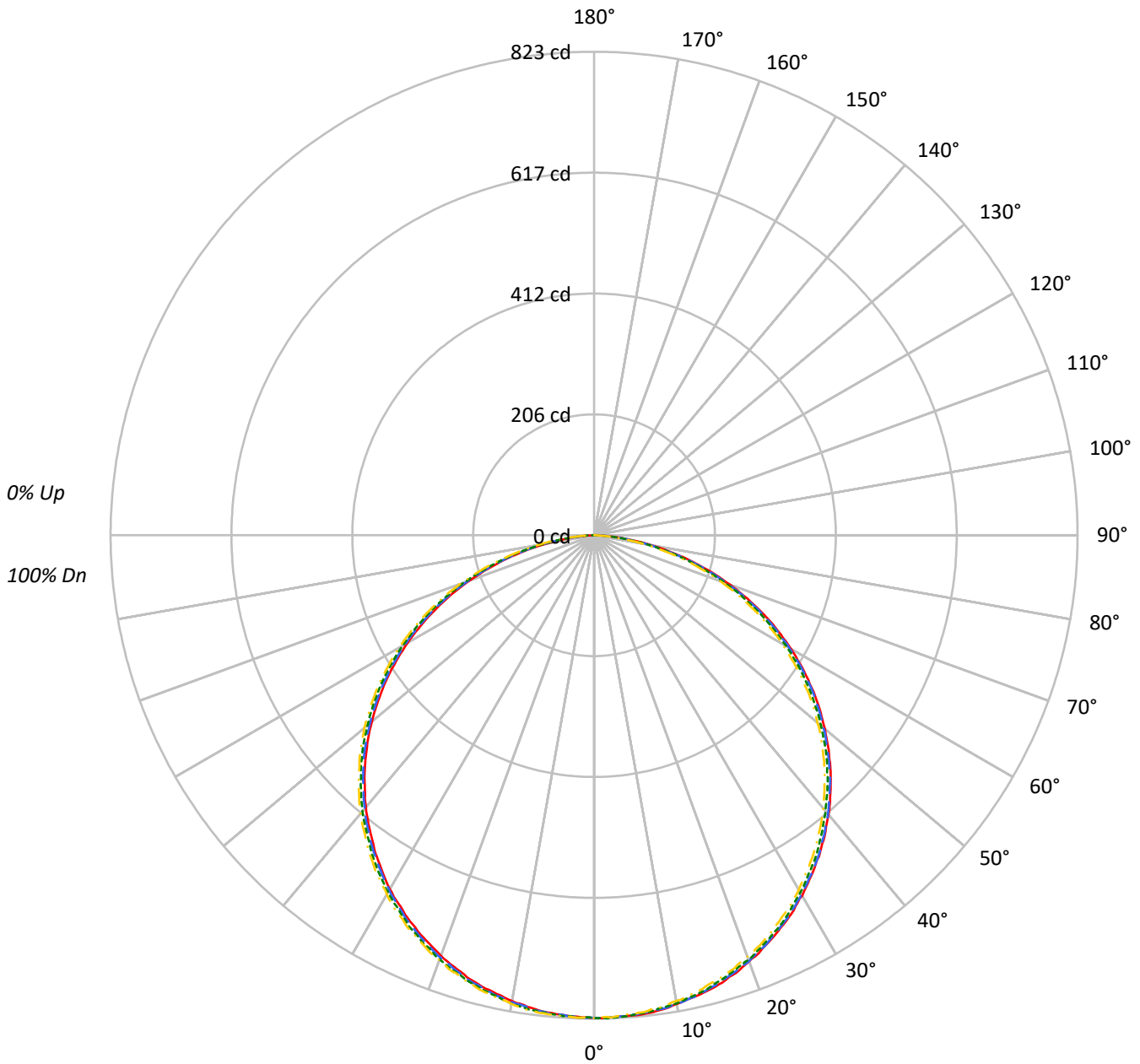
Lumens per Lamp: N/A
 Luminaire Lumens: 2399.3 lumens
 Efficiency: N/A
 Efficacy: 101.2 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3932	3932	3932	3932
5°	3940	3931	3921	3930
10°	3935	3931	3910	3933
15°	3942	3916	3897	3919
20°	3930	3916	3880	3912
25°	3921	3901	3857	3897
30°	3914	3878	3841	3875
35°	3898	3860	3810	3856
40°	3878	3828	3775	3829
45°	3851	3795	3731	3798
50°	3818	3753	3676	3744
55°	3770	3700	3610	3690
60°	3704	3615	3509	3599
65°	3609	3496	3365	3483
70°	3441	3309	3150	3294
75°	3187	3024	2821	2987
80°	2794	2562	2292	2515
85°	2141	1806	1416	1740

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	3.2
10°-20°	223.4	9.3
20°-30°	340.1	14.2
30°-40°	412.9	17.2
40°-50°	432.5	18.0
50°-60°	395.4	16.5
60°-70°	304.4	12.7
70°-80°	172.1	7.2
80°-90°	40.5	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	641.4	26.7
0°-40°	1054.3	43.9
0°-60°	1882.3	78.5
0°-90°	2399.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2399.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	822	822	822	822	822	
5°	820	818	816	818	820	78
15°	796	791	787	791	796	224
25°	743	739	731	738	743	342
35°	667	661	652	660	667	417
45°	569	561	551	561	569	439
55°	452	444	433	442	452	404
65°	319	309	297	308	319	314
75°	172	164	153	162	172	182
85°	39	33	26	32	39	47
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°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
0.5°	821.7	821.5	822.0	821.3	822.2	822.8	821.3	821.9	821.3	821.7	820.9
1°	822.4	821.0	822.1	821.8	821.7	822.1	820.7	821.2	820.8	821.4	821.9
1.5°	821.6	821.6	821.2	821.8	822.7	821.9	820.1	821.1	821.1	820.7	821.6
2°	821.1	820.6	821.0	821.6	822.4	821.6	821.2	820.1	820.0	820.1	820.1
2.5°	821.1	821.4	820.7	821.6	821.7	821.6	820.3	820.1	819.7	819.7	819.8
3°	819.9	821.6	820.5	820.8	821.0	820.8	819.2	820.6	819.6	818.9	820.0
3.5°	820.4	821.7	820.2	820.7	821.1	820.1	819.2	820.0	818.6	818.7	818.7
4°	820.1	820.8	820.0	820.9	820.6	819.6	817.5	819.2	817.9	819.0	817.9
4.5°	820.1	820.7	818.9	820.6	819.7	819.4	817.5	817.6	817.9	818.2	817.7
5°	820.4	820.0	818.9	819.4	818.5	819.0	816.9	817.2	816.5	816.2	818.4
5.5°	819.8	819.4	818.2	818.0	817.9	818.0	816.5	815.9	816.3	815.3	817.2
6°	819.4	819.4	817.6	818.1	817.9	816.3	815.9	815.7	815.6	814.5	815.7
6.5°	818.6	819.0	817.0	816.7	816.9	816.5	814.7	814.5	814.4	813.9	815.0
7°	818.1	818.4	816.2	816.4	815.9	815.4	812.4	813.0	813.3	812.5	814.9
7.5°	816.7	816.5	815.0	814.8	813.9	814.8	812.3	812.2	811.8	811.5	813.3
8°	815.8	814.8	814.5	814.5	812.6	813.8	811.7	810.8	810.9	810.5	811.0
8.5°	814.9	813.7	814.2	812.5	812.1	812.7	810.3	809.9	808.5	809.7	810.2
9°	813.7	812.3	812.8	812.0	811.0	811.6	808.3	808.9	807.5	808.0	808.9
9.5°	811.8	811.8	811.0	810.2	810.2	810.4	806.2	806.8	807.2	806.9	808.6
10°	810.0	810.1	809.4	809.6	809.2	808.9	805.2	805.3	805.0	806.3	807.1
10.5°	809.0	809.0	808.9	807.5	807.6	806.6	804.2	803.8	803.3	804.5	805.5
11°	807.6	807.6	807.6	806.8	805.9	805.5	802.5	803.3	801.7	802.1	803.6
11.5°	805.8	806.8	805.6	804.5	803.2	804.3	800.9	801.2	799.2	801.1	802.1
12°	805.1	804.7	804.5	802.9	802.5	803.0	798.6	800.4	798.1	798.8	801.2
12.5°	803.7	803.0	803.9	801.4	801.4	801.4	796.8	798.8	795.9	797.3	799.1
13°	802.2	802.7	801.8	799.5	799.5	799.4	795.6	796.3	794.4	795.9	796.5
13.5°	800.6	801.2	799.1	798.0	797.8	797.3	793.4	795.0	793.6	794.3	794.2
14°	799.1	799.4	797.3	796.9	796.1	793.9	790.5	792.7	791.6	792.9	793.1
14.5°	797.3	796.9	795.1	794.2	793.9	792.7	788.5	790.2	789.2	790.4	791.1
15°	796.0	794.7	793.5	793.1	790.7	791.2	787.1	788.3	786.9	787.4	789.7
15.5°	793.4	793.0	791.6	790.5	789.0	788.9	785.6	785.9	785.2	785.2	787.8
16°	792.0	790.7	789.1	788.8	787.6	787.1	783.3	783.7	783.1	783.8	785.6
16.5°	789.5	788.5	787.0	786.1	784.8	785.0	781.0	781.6	779.6	781.6	783.2
17°	786.4	785.9	784.7	784.8	782.5	782.7	778.7	779.7	777.0	778.5	779.9
17.5°	784.8	783.9	782.7	781.3	779.6	780.2	776.6	777.4	774.7	775.8	777.7
18°	783.1	781.9	780.4	779.1	777.9	777.4	774.5	774.4	772.2	773.4	775.5
18.5°	780.3	779.6	778.1	776.5	774.9	775.1	770.8	771.2	770.3	770.8	772.1
19°	777.0	777.6	775.5	774.1	773.3	772.4	768.3	768.7	767.2	768.3	768.8
19.5°	774.5	775.5	773.7	771.5	770.5	770.0	766.2	765.8	764.9	765.7	766.9
20°	771.9	772.1	771.3	769.7	769.2	767.7	763.5	763.0	762.1	762.9	765.0
20.5°	769.1	769.0	767.7	766.4	766.2	764.6	761.0	760.4	758.5	760.0	763.0
21°	767.3	766.1	765.1	763.9	762.9	761.8	758.4	757.3	755.8	758.1	759.5
21.5°	764.6	763.9	762.9	762.0	759.9	758.9	755.3	754.2	752.8	755.4	756.1
22°	760.8	760.7	760.0	759.3	757.2	755.3	753.0	752.7	749.7	751.6	753.4

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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°	757.7	757.7	757.8	755.8	753.7	752.1	749.9	749.2	746.8	748.4	750.0
23°	755.1	754.7	754.5	752.4	750.7	750.1	746.4	746.5	743.9	745.9	747.3
23.5°	752.0	752.3	750.8	749.3	748.1	747.0	743.1	743.6	741.3	743.3	744.1
24°	749.0	749.5	747.6	747.0	744.5	743.6	740.2	739.6	738.1	739.3	741.1
24.5°	746.2	745.9	744.4	743.3	741.5	740.4	735.6	735.7	733.8	735.2	737.6
25°	742.9	742.1	741.5	739.9	739.1	737.1	732.5	733.2	730.7	732.0	733.9
25.5°	739.5	739.1	738.0	736.3	735.6	733.9	729.9	730.4	728.1	728.8	730.6
26°	736.6	736.1	734.7	733.1	732.9	730.5	726.2	726.7	724.6	725.9	728.3
26.5°	733.5	733.2	732.0	729.6	728.6	726.5	722.6	723.3	721.3	722.0	724.3
27°	729.8	729.7	728.7	726.4	725.5	722.6	719.5	719.7	717.0	718.0	720.1
27.5°	726.7	726.9	724.4	723.4	721.5	718.7	716.1	716.0	713.1	714.7	716.3
28°	723.5	722.1	721.0	720.1	716.7	715.3	712.4	711.6	710.2	712.2	712.8
28.5°	718.3	718.4	717.3	716.4	712.7	711.1	708.6	708.1	706.7	708.4	708.6
29°	715.3	715.2	713.3	712.5	709.6	708.2	704.9	704.4	703.4	704.7	705.3
29.5°	710.7	712.2	710.3	708.7	705.6	704.7	701.2	700.3	698.7	700.6	701.5
30°	708.6	708.1	706.0	704.4	702.0	699.8	697.0	696.2	695.4	696.2	697.5
30.5°	704.2	703.7	702.0	699.9	698.7	695.8	692.4	692.3	691.5	691.8	692.9
31°	699.6	699.2	698.2	696.3	694.1	691.5	688.4	687.8	687.3	687.9	689.6
31.5°	695.6	694.8	694.6	692.2	690.0	687.4	683.7	683.2	682.7	683.2	685.1
32°	691.7	691.4	689.9	688.7	685.7	684.2	679.6	679.6	678.5	679.1	681.0
32.5°	687.7	687.4	686.6	684.0	681.2	680.6	675.6	674.7	673.6	675.3	676.3
33°	683.8	683.5	683.0	680.3	677.8	676.2	671.7	670.5	669.4	670.9	672.7
33.5°	679.5	679.3	678.7	675.6	673.2	671.9	667.1	667.3	665.2	666.5	667.6
34°	674.6	675.7	674.2	671.5	669.7	667.1	663.3	663.3	660.8	662.4	663.5
34.5°	670.2	671.5	670.2	666.7	665.2	663.0	659.4	658.3	657.1	657.6	659.3
35°	667.4	667.0	666.0	662.0	660.9	658.6	654.3	653.6	652.4	653.4	655.2
35.5°	663.0	662.4	661.6	658.6	656.2	653.6	649.3	648.4	646.8	649.6	650.5
36°	657.8	657.7	657.1	654.2	651.7	648.2	644.9	645.2	642.3	645.0	646.6
36.5°	653.1	653.4	651.5	650.1	646.5	643.8	639.9	640.0	637.6	639.9	641.1
37°	649.4	649.3	647.1	644.8	641.8	639.3	635.2	635.8	632.8	634.5	636.1
37.5°	644.9	643.9	643.2	640.0	637.6	634.3	631.0	630.3	628.2	629.8	631.8
38°	640.1	639.5	638.1	636.0	632.7	629.6	626.8	624.7	623.9	625.7	627.4
38.5°	634.4	635.0	633.1	630.4	627.2	624.8	622.0	620.0	618.9	621.5	623.0
39°	630.0	629.7	629.1	625.7	622.1	620.7	616.6	615.6	613.9	616.7	617.9
39.5°	625.1	624.7	624.4	620.4	617.6	615.8	611.7	610.5	609.5	610.6	612.4
40°	621.0	619.7	619.6	615.5	612.9	610.5	607.1	605.6	604.5	605.8	607.2
40.5°	616.3	615.3	614.6	610.5	607.5	605.1	601.5	601.1	599.2	600.5	602.3
41°	611.2	610.5	609.0	606.4	602.8	600.0	596.0	595.5	594.4	594.8	597.4
41.5°	606.2	605.4	603.9	601.4	597.6	595.6	591.1	589.8	588.2	590.0	592.1
42°	600.8	599.8	598.8	596.1	592.8	589.6	585.9	585.0	583.1	584.8	586.9
42.5°	595.7	595.3	593.1	591.4	587.7	584.6	580.5	579.5	577.6	580.1	582.5
43°	590.5	590.7	587.8	585.6	582.5	580.3	575.3	574.6	572.7	574.3	576.4
43.5°	585.1	585.3	583.6	580.0	577.8	574.9	570.2	568.6	567.8	569.5	571.3
44°	580.0	579.5	578.1	574.6	572.3	568.8	565.0	563.4	562.6	564.3	565.9
44.5°	574.7	574.4	572.5	569.1	565.9	563.2	559.9	558.1	556.9	559.3	560.7

TEST NUMBER: P869734
 CATALOG NUMBER: SMX18SLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	569.2	568.3	566.9	563.9	561.0	557.9	554.2	552.9	551.4	553.1	555.3
45.5°	564.2	563.4	561.2	559.4	556.0	553.1	549.0	547.2	545.5	548.0	549.7
46°	558.3	558.4	555.8	553.5	550.6	547.6	542.4	541.4	539.6	542.4	544.7
46.5°	552.3	552.0	550.4	547.2	545.2	542.0	537.2	535.8	534.1	537.0	539.0
47°	547.0	546.4	544.4	542.0	539.7	536.3	531.3	530.2	528.7	531.2	533.6
47.5°	541.6	540.8	538.5	535.9	533.7	530.4	525.6	524.5	523.4	524.9	527.5
48°	536.0	535.7	532.7	530.6	527.6	524.9	520.5	519.2	517.5	519.2	521.3
48.5°	529.7	529.7	527.5	524.9	521.4	518.8	514.5	513.6	512.0	513.1	516.2
49°	524.0	524.1	521.9	519.1	515.8	512.7	509.0	507.7	505.8	507.5	509.8
49.5°	518.3	518.6	516.0	513.2	509.8	506.5	502.7	501.7	499.9	502.1	503.3
50°	513.0	512.6	509.6	507.1	504.3	501.2	496.5	496.1	493.9	496.4	497.9
50.5°	506.5	506.5	503.9	501.0	498.9	495.9	491.0	490.1	487.7	489.9	492.2
51°	500.3	500.4	497.8	495.3	493.0	489.3	484.6	483.5	481.8	483.4	486.1
51.5°	494.7	494.5	492.3	489.3	487.2	483.0	479.4	477.3	475.7	477.6	479.9
52°	489.3	488.1	486.3	483.4	480.4	477.8	473.5	471.8	469.5	471.6	473.7
52.5°	483.2	482.3	480.2	477.3	473.7	471.4	467.5	465.8	463.7	465.0	467.5
53°	477.0	476.5	473.9	471.1	467.8	464.4	461.0	459.3	457.2	459.8	461.6
53.5°	470.4	470.1	467.9	465.4	461.9	458.3	455.0	452.4	451.3	453.6	455.3
54°	464.7	464.4	462.3	458.7	455.5	452.7	448.3	446.4	444.7	446.7	449.4
54.5°	458.9	458.1	456.0	452.2	450.0	446.7	441.2	439.8	439.1	440.1	443.0
55°	452.0	451.7	450.1	445.8	443.6	440.3	435.1	434.1	432.8	433.9	436.4
55.5°	445.4	444.9	443.2	440.0	437.0	433.3	429.1	427.2	426.1	427.5	429.6
56°	439.6	438.5	436.4	433.5	430.1	426.7	422.9	420.9	419.8	421.2	423.8
56.5°	433.0	432.6	430.4	426.7	423.9	420.1	416.1	415.1	413.3	415.2	417.4
57°	426.4	426.3	423.5	420.1	417.6	414.0	409.7	408.4	406.3	408.9	411.2
57.5°	420.0	419.8	417.4	413.6	411.3	407.8	402.7	401.1	400.0	401.9	404.4
58°	413.6	412.6	410.9	406.9	404.6	400.8	396.0	394.6	393.3	395.0	397.4
58.5°	406.8	405.8	403.9	400.4	397.6	393.7	389.4	388.1	387.0	388.2	390.7
59°	400.4	399.9	397.0	393.8	391.3	387.4	383.2	381.4	379.8	381.8	383.9
59.5°	394.0	393.0	390.8	387.8	384.8	380.8	376.4	375.0	373.2	375.5	377.2
60°	387.1	386.3	383.7	381.1	377.8	374.1	370.2	368.4	366.7	368.8	371.1
60.5°	380.5	379.3	377.0	374.4	370.4	367.6	363.3	361.6	360.0	361.4	364.3
61°	373.8	372.3	370.1	367.2	363.9	360.7	356.7	354.4	353.3	355.0	357.6
61.5°	366.4	365.5	363.3	360.1	357.1	353.8	350.0	347.3	346.0	348.0	350.7
62°	360.1	358.7	356.5	353.2	350.3	346.9	343.1	340.8	339.1	341.2	343.7
62.5°	353.0	351.9	349.6	346.5	343.2	340.3	336.0	333.8	332.1	334.2	336.5
63°	346.3	345.0	342.6	339.7	336.6	333.2	328.9	327.2	325.4	327.1	329.4
63.5°	339.9	337.8	335.8	332.3	330.0	326.3	322.2	320.0	318.7	319.9	322.9
64°	332.4	331.3	328.9	325.6	323.3	319.2	314.7	312.9	311.6	313.1	316.1
64.5°	325.6	324.4	321.9	318.3	315.7	312.4	307.4	305.8	304.2	305.8	308.8
65°	318.8	317.6	315.0	311.2	308.8	305.2	300.4	298.8	297.3	298.9	301.6
65.5°	311.8	310.4	308.1	303.9	301.8	297.9	293.2	291.8	290.4	292.0	294.7
66°	304.0	303.3	300.5	296.8	294.6	290.8	286.1	284.4	283.4	284.8	287.5
66.5°	296.6	295.9	293.2	289.9	287.4	283.8	278.9	277.4	276.3	277.5	280.1
67°	289.9	288.5	286.0	282.6	280.4	276.6	272.4	270.0	269.2	270.3	273.0

TEST NUMBER: P869734
 CATALOG NUMBER: SMX18SLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	282.5	281.3	278.7	275.1	273.2	269.4	265.2	262.6	262.0	263.0	265.6
68°	275.2	274.1	271.5	267.7	266.1	262.1	257.9	255.9	254.7	256.1	258.7
68.5°	267.9	266.9	264.4	260.9	258.7	254.9	250.5	248.7	247.2	248.6	251.7
69°	260.8	260.1	257.2	253.9	251.8	247.5	243.0	241.1	239.8	241.3	244.4
69.5°	253.8	252.8	249.8	245.9	244.1	239.8	235.7	233.6	232.6	233.7	237.2
70°	246.0	245.4	242.4	238.6	236.6	232.8	228.4	226.5	225.2	226.5	229.5
70.5°	238.7	238.1	234.9	231.4	229.5	225.8	221.5	219.4	218.2	219.6	222.4
71°	231.4	230.7	228.0	224.3	222.3	218.6	214.1	212.2	211.0	212.3	214.9
71.5°	224.3	223.6	220.6	216.5	214.8	211.1	206.6	204.6	203.5	205.0	207.6
72°	217.0	216.0	213.0	209.2	207.6	203.5	199.3	197.2	196.5	197.7	200.5
72.5°	209.8	208.2	205.5	202.1	200.3	196.4	192.1	190.2	189.0	190.5	193.2
73°	202.3	200.8	198.1	194.5	193.0	189.3	185.0	182.7	181.5	183.2	185.9
73.5°	194.7	193.5	191.1	187.2	185.4	181.7	177.7	175.3	174.2	176.3	178.6
74°	187.4	186.1	183.3	179.9	178.1	174.4	170.5	168.2	167.0	168.8	171.3
74.5°	180.0	178.7	176.1	172.2	171.0	167.2	163.2	161.0	160.0	161.5	163.9
75°	172.4	171.3	168.8	164.7	163.6	159.7	155.8	153.8	152.6	154.3	156.7
75.5°	165.2	164.2	161.5	157.7	156.3	152.6	149.0	146.4	145.5	147.4	149.6
76°	158.1	157.0	154.3	150.4	149.1	145.3	141.6	139.2	138.4	140.0	142.4
76.5°	150.7	149.7	147.0	143.2	142.0	138.2	134.4	132.4	131.2	132.7	135.1
77°	143.8	142.3	139.9	136.0	134.8	130.9	127.3	125.1	124.2	125.5	127.9
77.5°	136.6	135.1	132.9	128.9	127.5	123.7	120.3	118.0	117.1	118.6	121.1
78°	129.4	127.9	125.7	122.0	120.6	116.9	113.5	110.9	110.2	111.5	114.0
78.5°	122.2	120.9	118.6	114.9	113.7	109.8	106.3	104.2	103.3	104.6	107.0
79°	115.4	113.9	111.5	107.8	106.6	102.7	99.3	97.3	96.3	97.7	100.0
79.5°	108.4	107.1	104.7	101.0	99.7	96.1	92.7	90.8	89.8	91.3	93.4
80°	101.4	99.8	97.7	94.2	93.0	89.5	86.2	84.2	83.2	84.8	87.0
80.5°	94.7	93.2	91.2	87.6	86.5	82.9	79.7	77.7	76.6	78.3	80.6
81°	87.9	86.5	84.8	81.1	80.1	76.5	73.2	71.3	70.4	71.9	74.2
81.5°	81.3	80.1	78.0	74.6	73.5	70.1	66.9	65.1	64.4	65.5	67.7
82°	74.8	73.7	71.3	68.1	67.2	63.8	60.7	58.8	58.1	59.4	61.5
82.5°	68.2	67.4	64.9	61.6	60.9	57.7	54.9	52.9	52.1	53.4	55.5
83°	61.9	60.7	58.7	55.7	55.1	51.9	49.0	47.2	46.5	47.8	49.9
83.5°	56.0	54.7	52.6	50.0	49.2	46.1	43.3	41.6	41.0	42.1	44.0
84°	50.1	49.0	46.9	44.3	43.6	40.6	37.8	36.1	35.5	36.7	38.6
84.5°	44.5	43.4	41.6	38.9	38.1	35.3	32.7	31.0	30.6	31.7	33.4
85°	39.0	38.0	36.2	33.6	32.9	30.3	27.7	26.2	25.8	26.7	28.5
85.5°	33.7	32.8	31.2	28.8	27.9	25.3	23.0	21.8	21.5	22.2	23.8
86°	28.9	28.0	26.5	24.2	23.4	21.0	18.9	17.6	17.4	18.1	19.6
86.5°	24.3	23.6	22.3	20.2	19.2	17.2	15.4	14.3	14.0	15.0	16.0
87°	20.3	19.6	18.3	16.3	15.7	13.8	12.2	11.1	11.0	11.7	12.9
87.5°	16.4	15.8	14.7	12.9	12.3	10.6	9.1	8.1	8.1	8.8	9.8
88°	12.9	12.4	11.3	9.6	9.2	7.7	6.4	5.6	5.5	6.1	7.0
88.5°	9.6	9.1	8.3	6.9	6.7	5.2	4.1	3.4	3.2	3.8	4.6
89°	6.9	6.5	5.8	4.7	4.7	3.3	2.2	1.7	1.5	1.8	2.6
89.5°	4.8	4.5	3.9	2.9	2.6	1.6	0.8	1.5	1.3	1.7	0.9

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



TEST NUMBER: P869734
CATALOG NUMBER: SMX18SLSFS010-2000LM-4000K

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: P869734
 CATALOG NUMBER: SMX18SLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	821.9	821.9	821.9	821.9	821.9	821.9
0.5°	822.6	820.9	823.0	821.4	821.3	821.7
1°	821.8	820.7	823.3	821.6	821.1	822.4
1.5°	821.6	821.6	822.7	821.6	821.4	821.6
2°	821.1	821.5	821.7	821.6	822.6	821.1
2.5°	820.6	820.2	822.7	821.1	821.1	821.1
3°	821.4	819.6	822.6	820.5	821.9	819.9
3.5°	820.7	820.5	821.6	820.1	821.2	820.4
4°	820.5	819.7	821.5	820.3	820.2	820.1
4.5°	820.4	818.9	821.0	819.9	820.1	820.1
5°	819.8	818.3	821.1	819.2	819.6	820.4
5.5°	817.9	817.5	820.8	818.9	820.0	819.8
6°	816.9	817.2	820.9	818.6	818.6	819.4
6.5°	816.0	817.5	819.9	818.5	818.3	818.6
7°	815.6	815.5	819.0	817.1	818.0	818.1
7.5°	814.6	815.4	818.0	816.6	817.8	816.7
8°	813.4	814.4	816.0	815.9	816.6	815.8
8.5°	812.1	812.8	814.9	814.7	814.4	814.9
9°	811.0	811.8	814.7	812.8	814.3	813.7
9.5°	809.0	810.8	813.3	811.8	812.6	811.8
10°	807.9	809.6	811.3	810.2	811.0	810.0
10.5°	806.1	807.8	810.0	807.6	810.7	809.0
11°	804.9	806.1	808.4	806.3	808.5	807.6
11.5°	802.7	804.0	806.7	805.5	806.6	805.8
12°	801.0	801.7	805.8	804.3	805.2	805.1
12.5°	799.4	800.6	803.1	802.1	804.0	803.7
13°	798.2	798.5	800.9	801.1	802.1	802.2
13.5°	796.2	797.3	799.5	799.7	800.4	800.6
14°	794.8	795.2	798.6	798.3	797.9	799.1
14.5°	793.4	793.7	795.7	796.1	796.7	797.3
15°	791.2	791.2	793.5	793.3	795.7	796.0
15.5°	787.8	790.0	791.9	790.6	794.2	793.4
16°	785.6	788.1	789.8	789.5	791.6	792.0
16.5°	783.4	785.3	787.8	787.3	790.1	789.5
17°	781.7	782.1	785.4	784.2	787.7	786.4
17.5°	779.2	780.3	784.2	781.8	785.4	784.8
18°	776.5	778.6	781.7	780.8	783.1	783.1
18.5°	774.2	776.5	778.6	778.6	779.9	780.3
19°	771.4	773.5	775.3	775.4	776.9	777.0
19.5°	768.3	771.0	772.7	772.3	774.5	774.5
20°	766.2	768.4	770.5	769.6	771.8	771.9
20.5°	764.5	766.2	767.1	767.3	769.4	769.1
21°	761.9	762.6	764.6	765.4	767.0	767.3
21.5°	758.8	758.9	761.8	763.0	764.9	764.6
22°	755.5	755.8	758.8	759.7	762.5	760.8

TEST NUMBER: P869734
 CATALOG NUMBER: SMX18SLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	751.5	754.0	755.8	756.1	758.6	757.7
23°	748.9	751.1	753.4	753.3	755.0	755.1
23.5°	745.4	747.1	750.0	751.2	752.1	752.0
24°	742.5	744.0	747.6	747.0	749.0	749.0
24.5°	740.3	741.6	744.2	744.1	745.9	746.2
25°	736.8	738.3	740.7	741.8	743.7	742.9
25.5°	733.1	735.6	737.0	738.6	741.1	739.5
26°	729.9	730.9	733.8	734.9	736.9	736.6
26.5°	726.5	727.3	731.0	730.6	732.9	733.5
27°	722.4	723.6	728.1	727.5	729.9	729.8
27.5°	718.4	719.4	724.0	724.6	727.6	726.7
28°	714.9	715.7	719.9	721.8	723.8	723.5
28.5°	710.7	713.1	715.9	717.7	719.8	718.3
29°	707.8	709.5	713.2	713.9	715.0	715.3
29.5°	704.2	705.4	709.1	710.0	712.3	710.7
30°	701.0	701.5	704.9	705.5	708.9	708.6
30.5°	695.8	698.6	700.3	700.9	704.5	704.2
31°	691.7	693.0	696.8	697.7	700.3	699.6
31.5°	687.5	689.2	693.4	693.1	696.9	695.6
32°	684.3	685.4	689.5	689.3	693.4	691.7
32.5°	680.7	681.8	685.1	685.6	689.8	687.7
33°	676.2	677.6	681.3	682.5	685.2	683.8
33.5°	670.7	673.2	676.9	678.0	681.1	679.5
34°	666.8	668.8	672.2	673.0	676.3	674.6
34.5°	661.9	664.6	667.9	668.8	672.0	670.2
35°	657.8	660.2	663.5	664.9	667.8	667.4
35.5°	653.9	655.1	659.5	660.6	663.0	663.0
36°	649.4	650.0	654.7	656.1	658.3	657.8
36.5°	644.9	645.4	650.0	650.4	653.8	653.1
37°	640.2	640.8	646.0	646.0	649.0	649.4
37.5°	634.9	636.8	641.2	641.1	645.2	644.9
38°	629.8	631.9	636.6	636.9	640.7	640.1
38.5°	625.1	627.2	631.4	632.4	636.1	634.4
39°	620.0	623.0	627.1	627.7	630.1	630.0
39.5°	615.4	618.6	622.1	622.3	625.5	625.1
40°	610.3	613.2	617.3	618.4	620.3	621.0
40.5°	606.1	607.9	612.1	613.6	615.6	616.3
41°	601.4	603.3	607.0	608.6	610.2	611.2
41.5°	595.8	598.6	601.9	603.3	605.5	606.2
42°	590.8	593.0	597.2	597.7	601.3	600.8
42.5°	584.7	587.1	591.8	592.4	596.1	595.7
43°	579.4	582.5	585.7	587.7	591.1	590.5
43.5°	573.8	576.6	580.0	582.8	585.4	585.1
44°	568.9	570.7	574.6	577.0	580.1	580.0
44.5°	563.4	566.3	570.3	570.8	574.8	574.7

TEST NUMBER: P869734
 CATALOG NUMBER: SMX18SLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	558.0	561.3	565.2	565.4	568.7	569.2
45.5°	552.2	556.0	559.5	560.2	563.0	564.2
46°	546.8	550.3	554.2	554.9	557.8	558.3
46.5°	541.2	544.4	548.7	550.3	552.3	552.3
47°	535.5	538.9	543.2	544.4	546.8	547.0
47.5°	529.7	533.5	537.5	538.6	540.9	541.6
48°	524.2	527.6	531.8	532.9	535.6	536.0
48.5°	518.5	521.3	525.8	527.3	530.0	529.7
49°	512.5	515.4	519.6	521.4	524.1	524.0
49.5°	506.8	509.7	513.4	515.7	518.5	518.3
50°	500.8	503.1	507.3	510.3	512.5	513.0
50.5°	494.7	497.4	501.3	504.4	506.2	506.5
51°	489.1	492.1	496.0	497.9	500.5	500.3
51.5°	483.2	485.6	490.3	491.7	495.0	494.7
52°	477.3	479.3	484.4	485.5	489.3	489.3
52.5°	470.9	473.7	478.4	480.2	483.0	483.2
53°	464.7	467.7	472.3	474.3	477.4	477.0
53.5°	459.1	461.6	465.9	467.1	471.0	470.4
54°	452.4	455.2	459.7	461.0	464.7	464.7
54.5°	446.2	448.6	453.5	455.4	457.9	458.9
55°	440.0	442.4	446.9	448.9	452.1	452.0
55.5°	433.8	435.9	440.5	442.9	446.1	445.4
56°	427.5	429.6	434.3	436.4	439.6	439.6
56.5°	420.9	423.1	427.9	429.6	433.4	433.0
57°	414.1	416.4	421.2	423.2	426.8	426.4
57.5°	407.3	409.7	414.6	415.9	419.8	420.0
58°	401.1	403.2	407.8	409.9	413.6	413.6
58.5°	394.9	396.5	400.7	403.8	406.8	406.8
59°	388.3	390.1	394.2	397.4	400.4	400.4
59.5°	381.2	383.4	387.3	390.6	393.7	394.0
60°	374.9	376.2	381.1	383.6	387.1	387.1
60.5°	367.4	369.5	373.9	376.8	380.4	380.5
61°	360.6	362.5	367.4	369.9	373.4	373.8
61.5°	353.9	356.2	361.0	362.9	366.4	366.4
62°	347.0	349.4	354.2	356.1	359.6	360.1
62.5°	340.3	342.5	347.4	349.5	352.8	353.0
63°	333.2	335.2	340.2	342.2	346.2	346.3
63.5°	326.4	328.3	333.4	335.5	339.0	339.9
64°	319.4	321.7	326.4	328.4	331.4	332.4
64.5°	312.4	314.9	319.6	321.8	324.4	325.6
65°	305.3	307.7	312.0	314.9	317.6	318.8
65.5°	298.6	300.5	305.0	307.5	310.5	311.8
66°	291.4	292.9	297.9	300.5	303.4	304.0
66.5°	284.1	286.2	290.7	293.7	296.4	296.6
67°	276.8	279.1	283.5	286.5	289.6	289.9

TEST NUMBER: P869734
 CATALOG NUMBER: SMX18SLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	269.8	271.6	275.8	278.7	282.3	282.5
68°	262.4	264.2	268.8	271.9	275.1	275.2
68.5°	255.4	257.1	261.6	264.7	267.3	267.9
69°	248.6	250.2	254.0	257.1	260.1	260.8
69.5°	241.2	242.9	246.8	249.9	252.9	253.8
70°	233.7	235.5	239.4	242.9	245.6	246.0
70.5°	226.4	227.8	232.4	235.5	238.5	238.7
71°	219.0	220.5	225.0	227.9	231.1	231.4
71.5°	211.5	213.3	217.5	220.9	223.9	224.3
72°	204.0	206.1	210.3	213.4	216.2	217.0
72.5°	197.2	198.4	203.0	205.8	208.7	209.8
73°	189.8	190.8	195.4	198.3	201.4	202.3
73.5°	182.6	183.8	188.5	191.1	194.1	194.7
74°	175.3	176.3	180.8	183.6	186.8	187.4
74.5°	168.2	169.0	173.5	176.6	179.2	180.0
75°	160.6	161.6	166.0	169.3	171.7	172.4
75.5°	153.5	154.5	158.9	161.9	164.4	165.2
76°	146.3	147.2	151.5	154.5	157.2	158.1
76.5°	139.0	140.1	144.4	147.4	149.9	150.7
77°	131.7	132.7	137.1	140.0	142.8	143.8
77.5°	124.6	125.8	129.9	133.2	135.9	136.6
78°	117.6	118.8	123.0	126.1	128.7	129.4
78.5°	110.6	111.8	116.2	119.2	121.6	122.2
79°	103.9	105.0	109.1	112.0	114.4	115.4
79.5°	96.8	98.2	102.1	105.1	107.6	108.4
80°	90.2	91.3	95.2	98.1	100.8	101.4
80.5°	83.8	84.8	88.8	91.5	94.0	94.7
81°	77.5	78.3	82.2	85.0	87.4	87.9
81.5°	71.1	71.8	75.6	78.4	80.6	81.3
82°	64.7	65.3	69.2	71.9	74.2	74.8
82.5°	58.7	59.3	62.8	65.4	67.8	68.2
83°	53.0	53.3	56.5	59.1	61.5	61.9
83.5°	47.0	47.4	50.6	53.2	55.5	56.0
84°	41.5	41.9	45.1	47.4	49.5	50.1
84.5°	36.1	36.6	39.6	41.9	44.0	44.5
85°	31.1	31.7	34.5	36.7	38.4	39.0
85.5°	26.2	26.7	29.5	31.7	33.3	33.7
86°	21.8	22.6	24.7	26.8	28.6	28.9
86.5°	17.9	18.5	20.7	22.6	24.0	24.3
87°	14.6	14.9	16.9	18.4	19.8	20.3
87.5°	11.4	11.7	13.5	14.8	16.0	16.4
88°	8.6	8.4	10.1	11.7	12.7	12.9
88.5°	5.9	5.7	6.9	8.3	9.3	9.6
89°	3.7	3.8	4.7	5.7	6.5	6.9
89.5°	1.8	2.1	2.9	3.6	4.5	4.8

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869734
CATALOG NUMBER: SMX18SLSFS010-2000LM-4000K

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)