

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: P869664

Luminaire Tested: **SMX14RLSFSD2W-2000LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869664
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFSD2W-2000LM-4000K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

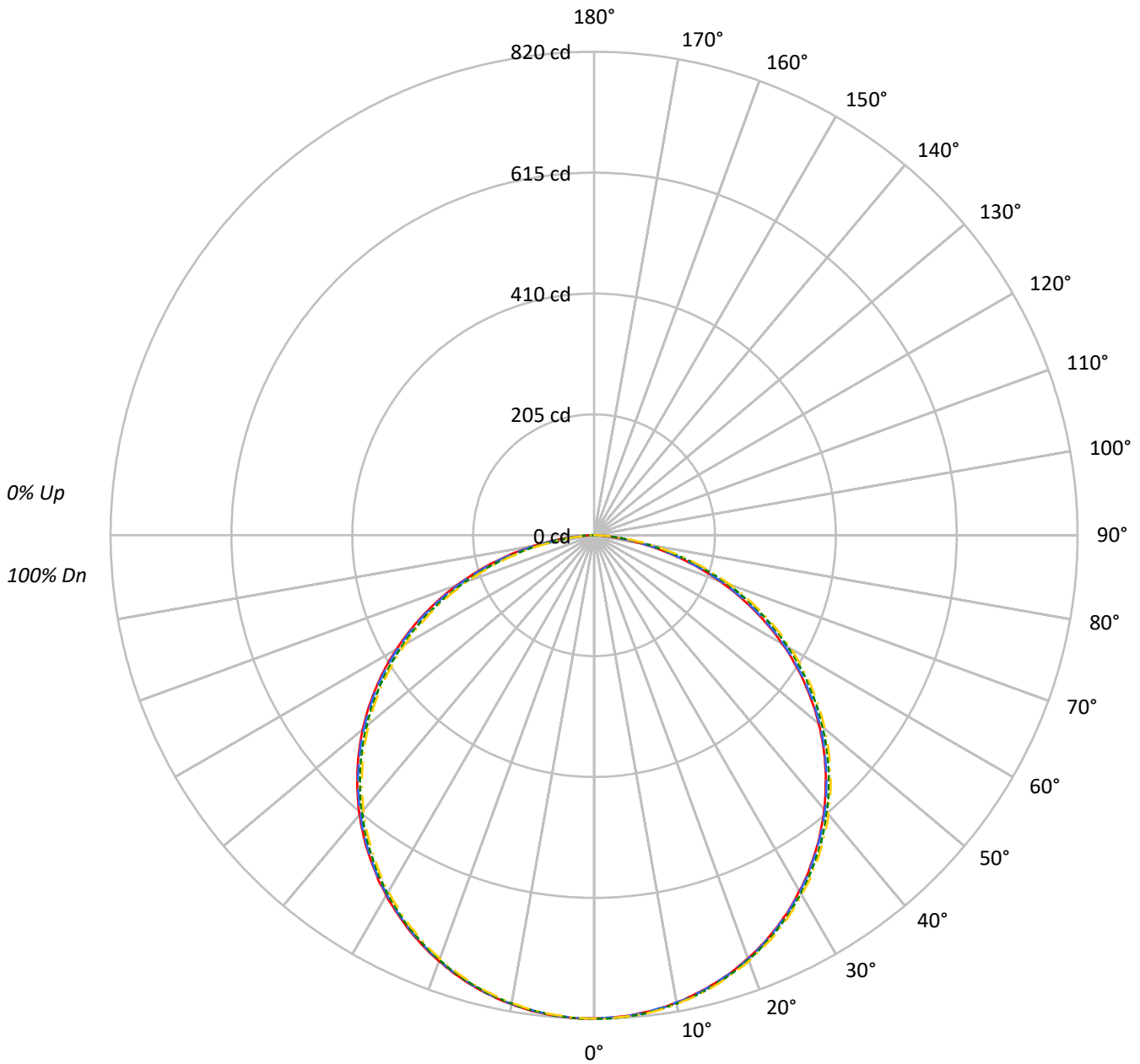
Lumens per Lamp: N/A
 Luminaire Lumens: 2400.0 lumens
 Efficiency: N/A
 Efficacy: 90.6 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 26.5
 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	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	52	52	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8249	8249	8249	8249
5°	8236	8257	8255	8255
10°	8223	8245	8250	8240
15°	8204	8229	8247	8230
20°	8177	8204	8235	8211
25°	8146	8183	8221	8184
30°	8092	8150	8194	8147
35°	8042	8114	8162	8103
40°	7978	8065	8129	8051
45°	7893	8007	8082	7977
50°	7782	7920	8022	7883
55°	7641	7816	7928	7764
60°	7423	7648	7791	7572
65°	7117	7415	7594	7303
70°	6647	7050	7282	6885
75°	5922	6478	6781	6229
80°	4764	5523	5969	5164
85°	2910	3949	4619	3452

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.2
10°-20°	222.9	9.3
20°-30°	339.6	14.1
30°-40°	412.8	17.2
40°-50°	432.9	18.0
50°-60°	396.2	16.5
60°-70°	305.1	12.7
70°-80°	172.6	7.2
80°-90°	40.3	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°	640.1	26.7
0°-40°	1052.8	43.9
0°-60°	1881.9	78.4
0°-90°	2400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	820	820	820	820	820	
5°	815	817	817	817	815	78
15°	788	790	792	790	788	222
25°	734	737	740	737	734	338
35°	655	660	664	660	655	410
45°	555	563	568	560	555	428
55°	436	446	452	442	436	389
65°	299	311	319	307	299	295
75°	152	167	174	160	152	161
85°	25	34	40	30	25	33
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°	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7	819.7
0.5°	819.3	819.1	819.2	820.0	820.2	820.5	819.9	819.6	819.4	819.2	819.4
1°	819.4	818.6	819.0	820.1	820.2	820.2	819.9	819.4	819.8	819.3	819.0
1.5°	819.1	818.8	818.7	819.4	820.0	820.1	819.9	819.7	820.0	818.8	819.1
2°	818.8	818.1	818.4	818.8	820.1	819.9	819.5	819.6	819.8	818.6	819.1
2.5°	818.1	818.0	818.5	819.2	819.5	819.6	819.3	819.3	819.5	818.6	818.7
3°	817.8	817.6	818.0	818.4	819.1	819.3	818.7	818.8	819.1	818.6	818.4
3.5°	817.7	817.2	817.8	818.0	819.1	819.1	818.6	818.6	818.4	818.2	818.0
4°	817.2	816.6	817.2	817.6	818.4	818.4	818.1	818.0	817.8	817.9	818.1
4.5°	816.3	815.8	816.5	816.7	817.7	817.9	817.6	817.7	817.4	817.4	817.0
5°	815.3	814.7	815.8	816.6	817.4	817.1	817.1	817.2	817.2	816.7	816.7
5.5°	814.4	814.0	815.0	815.1	816.4	816.5	816.3	816.3	816.4	816.3	816.1
6°	813.8	813.2	814.2	814.2	815.8	815.5	815.7	815.7	815.8	815.5	815.1
6.5°	813.2	812.5	813.6	813.6	814.7	814.8	815.2	815.0	814.9	814.9	814.3
7°	812.3	811.6	811.9	812.6	813.8	813.5	814.3	814.0	814.4	814.0	813.3
7.5°	811.4	810.6	810.8	811.5	812.7	812.6	813.2	813.0	813.8	813.1	812.1
8°	810.2	809.7	809.6	810.6	811.5	811.4	812.3	812.3	812.7	812.3	811.7
8.5°	808.8	808.3	809.1	809.6	810.6	810.3	810.8	810.8	811.0	811.0	810.4
9°	807.5	807.3	807.7	808.1	809.2	809.8	810.3	809.8	809.9	809.5	809.6
9.5°	806.0	805.9	806.3	807.1	808.0	808.0	808.6	808.5	809.1	808.6	808.0
10°	804.7	804.6	804.6	806.0	806.9	806.9	807.5	807.5	807.4	807.7	807.1
10.5°	803.2	803.4	803.7	804.4	805.4	805.7	805.9	806.3	806.5	806.3	805.7
11°	802.4	801.5	802.3	803.2	803.9	804.1	804.4	804.7	805.2	804.6	804.3
11.5°	800.2	799.9	801.2	801.3	802.5	802.5	803.5	803.4	803.8	803.0	802.7
12°	798.5	798.4	799.3	799.8	801.2	801.0	801.9	801.8	802.4	801.6	801.2
12.5°	796.5	797.0	797.5	798.1	799.2	799.8	799.9	800.6	800.1	800.5	799.8
13°	795.2	795.2	795.7	795.9	797.4	798.2	798.5	798.9	799.1	798.6	798.3
13.5°	793.2	793.2	794.0	794.6	795.8	796.4	796.8	797.1	797.4	796.5	796.6
14°	791.5	791.2	792.0	792.8	793.9	794.4	794.9	794.9	795.6	794.8	794.4
14.5°	789.0	789.2	789.9	791.2	791.8	792.4	793.3	793.6	793.7	793.5	792.7
15°	787.5	787.0	788.2	788.3	789.9	790.4	791.0	791.9	791.6	791.2	791.1
15.5°	785.2	784.9	785.7	786.5	787.7	788.2	789.1	789.7	789.9	789.3	788.6
16°	783.0	783.2	783.4	784.6	785.7	786.2	787.0	787.0	787.8	787.0	786.2
16.5°	780.9	781.1	781.1	782.4	783.2	783.8	784.8	784.8	785.6	785.1	784.2
17°	778.9	779.0	779.5	780.2	781.1	781.4	782.8	782.9	783.0	783.3	782.2
17.5°	776.4	776.5	777.2	778.3	778.6	779.7	780.7	780.7	781.1	780.5	780.2
18°	774.0	773.9	774.6	775.7	776.8	777.4	778.3	778.6	778.9	778.5	777.6
18.5°	771.3	771.1	772.3	772.8	774.0	774.9	775.6	776.1	776.2	776.3	775.5
19°	768.9	768.6	769.9	770.2	771.2	772.5	773.2	773.5	774.2	773.5	772.7
19.5°	766.1	766.2	767.1	768.1	769.0	769.6	771.1	771.1	771.0	771.4	770.2
20°	763.6	763.4	764.4	765.2	766.1	767.5	768.5	769.0	769.0	768.8	767.8
20.5°	760.9	760.5	761.5	762.9	763.5	764.7	765.8	766.4	766.1	766.2	765.4
21°	758.3	758.0	758.7	759.7	760.8	761.6	763.1	763.7	763.7	763.4	762.3
21.5°	755.4	754.9	756.1	757.1	758.2	759.3	760.3	761.0	761.2	760.5	759.7
22°	752.1	752.5	753.4	753.9	754.9	756.4	757.8	758.1	758.2	757.5	756.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	749.4	749.1	750.2	750.9	752.4	753.4	754.5	755.2	755.5	754.8	754.1
23°	746.3	746.1	746.7	748.3	749.4	750.3	751.8	752.7	752.1	752.1	750.9
23.5°	743.0	743.0	743.5	744.9	746.2	747.1	749.0	749.2	749.1	749.4	747.7
24°	739.9	739.9	740.8	741.7	743.3	744.5	746.1	746.3	746.2	746.4	744.8
24.5°	736.4	736.8	737.4	738.7	740.3	741.0	742.7	743.3	743.3	742.8	741.8
25°	733.6	733.2	734.4	735.3	737.0	737.9	739.6	740.1	740.4	740.1	738.4
25.5°	729.9	730.3	730.8	732.0	733.3	734.8	736.3	737.1	736.8	736.7	735.3
26°	726.5	727.0	727.3	728.8	730.3	731.9	732.8	733.6	733.2	733.6	732.2
26.5°	723.0	723.0	723.6	725.3	726.8	728.0	729.8	730.2	729.9	729.9	728.6
27°	719.9	719.7	720.5	721.3	723.9	724.4	726.3	727.1	726.5	726.7	724.8
27.5°	715.8	715.9	716.9	717.7	720.1	721.0	722.5	723.3	723.2	723.2	721.6
28°	712.0	712.3	713.3	714.3	716.1	717.8	719.3	719.9	719.7	719.6	718.0
28.5°	708.1	708.5	709.3	710.2	712.7	713.9	715.6	716.1	716.1	715.7	714.4
29°	704.4	705.1	705.6	706.8	708.9	710.2	712.2	712.7	712.7	712.1	710.9
29.5°	700.1	700.6	701.8	703.1	705.5	706.4	708.5	709.0	709.2	708.9	707.2
30°	696.4	696.8	697.7	699.4	701.4	702.8	704.7	705.3	705.2	705.1	703.2
30.5°	693.1	693.1	694.3	695.7	697.8	698.9	700.6	701.4	701.2	701.3	699.6
31°	689.0	689.7	689.8	691.3	694.3	694.8	696.7	698.1	697.3	697.5	695.9
31.5°	684.8	685.1	686.1	687.6	689.9	691.3	693.1	693.7	693.7	693.9	692.1
32°	681.0	681.2	682.2	683.6	685.9	687.3	689.6	690.0	690.1	690.1	687.9
32.5°	676.8	677.2	677.4	679.0	681.4	683.2	685.3	686.4	685.6	685.6	684.1
33°	672.3	673.2	673.3	675.0	677.6	678.7	681.0	682.0	681.0	681.5	680.0
33.5°	667.6	668.6	669.3	670.9	673.2	674.5	676.6	678.0	677.2	677.2	675.8
34°	663.6	664.3	664.6	666.7	669.4	670.6	672.5	673.8	673.0	673.1	671.4
34.5°	658.9	659.7	660.7	662.3	665.0	666.4	668.4	669.6	668.7	668.8	667.2
35°	654.6	655.4	656.3	657.6	660.5	661.9	664.1	664.9	664.4	664.4	663.1
35.5°	650.1	650.5	651.8	653.1	656.1	657.6	659.4	660.4	660.4	660.3	658.8
36°	645.7	646.0	646.8	648.6	651.7	653.3	655.5	656.2	656.2	655.7	654.2
36.5°	641.1	641.3	642.7	644.1	647.5	648.5	650.9	651.8	651.8	651.9	649.6
37°	636.5	636.7	637.7	639.5	642.7	644.2	646.3	647.5	647.1	647.1	645.5
37.5°	631.4	632.1	633.0	634.9	637.7	639.5	641.7	642.6	642.4	642.3	640.8
38°	626.4	627.4	628.5	630.0	633.2	635.3	637.4	638.1	637.5	637.3	636.3
38.5°	622.0	622.6	623.4	625.0	628.5	630.2	632.6	633.3	633.3	632.8	631.6
39°	617.1	617.3	618.7	620.3	623.4	625.3	627.8	628.9	628.6	628.2	626.5
39.5°	612.4	612.4	613.8	615.6	618.5	620.7	623.3	624.0	623.7	623.4	621.4
40°	607.3	608.1	609.0	610.8	613.9	616.1	617.9	619.3	618.8	618.7	616.5
40.5°	602.0	602.7	604.1	605.9	609.1	611.1	613.2	614.3	614.0	613.7	611.8
41°	597.0	598.1	599.0	601.0	604.2	606.4	608.3	609.5	609.4	608.8	607.0
41.5°	591.9	592.7	593.8	596.1	599.3	601.5	603.4	604.2	604.3	603.6	601.8
42°	586.7	587.5	588.4	590.8	594.0	596.2	598.2	599.2	599.0	598.6	596.9
42.5°	581.3	582.4	583.1	585.6	589.0	590.8	593.1	594.2	593.9	593.8	591.8
43°	575.9	576.9	577.9	580.2	583.7	585.9	588.2	589.4	588.8	588.4	586.7
43.5°	570.8	571.7	572.8	575.1	578.2	580.5	582.6	584.2	583.7	583.0	581.5
44°	565.8	566.1	567.2	569.5	573.0	575.4	577.6	578.7	578.4	577.9	576.3
44.5°	559.8	560.5	562.1	564.2	567.9	570.1	572.1	573.1	573.0	572.5	570.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	554.6	555.1	556.6	559.0	562.6	564.7	566.8	568.0	567.9	567.4	565.5
45.5°	549.3	549.4	551.1	553.4	557.0	559.1	561.5	562.2	562.6	561.9	559.9
46°	543.5	544.0	545.3	548.0	551.3	553.6	556.1	557.0	557.2	556.7	554.8
46.5°	538.1	538.4	539.6	542.0	545.7	548.2	550.6	551.4	551.5	551.1	549.1
47°	532.3	532.8	534.3	536.7	540.0	542.6	545.1	545.9	546.0	545.3	543.4
47.5°	526.7	526.9	528.8	531.1	534.7	537.0	539.4	540.4	540.3	539.9	538.1
48°	520.9	521.3	523.2	525.3	529.1	531.4	533.9	535.0	534.9	534.1	532.7
48.5°	515.1	515.5	517.2	519.5	523.4	525.7	528.2	529.4	529.4	528.6	526.9
49°	509.4	509.6	511.5	513.7	517.6	519.8	522.7	523.7	523.6	522.9	521.3
49.5°	503.4	503.8	505.5	508.1	511.7	514.2	516.7	517.6	518.1	517.3	515.5
50°	497.1	497.8	499.5	502.0	505.9	508.6	511.3	512.2	512.4	511.7	509.3
50.5°	491.3	491.7	493.6	496.3	499.9	502.7	505.3	506.2	506.2	505.6	503.5
51°	485.3	485.7	487.5	490.1	494.3	496.7	499.1	500.4	500.5	499.4	497.9
51.5°	479.1	479.7	481.5	484.2	488.1	490.9	493.3	494.5	494.6	493.6	491.7
52°	472.9	473.5	475.2	478.1	482.4	484.9	487.7	488.9	488.5	487.6	486.0
52.5°	466.6	467.5	469.3	471.9	476.2	478.7	481.5	482.7	482.3	481.6	479.6
53°	460.7	461.4	463.3	465.8	470.0	472.7	475.4	476.7	476.4	475.7	473.6
53.5°	454.4	454.7	456.9	459.4	464.1	466.7	468.9	470.4	470.1	469.5	467.7
54°	448.1	448.2	450.3	453.0	457.9	460.2	463.0	464.5	464.0	463.6	461.3
54.5°	441.9	442.5	444.3	446.7	451.4	454.3	456.9	458.0	457.9	457.3	454.9
55°	435.5	436.1	438.0	440.9	445.5	448.2	450.9	452.3	451.9	451.1	448.8
55.5°	429.1	429.4	431.7	434.2	439.1	442.0	444.5	446.0	445.7	444.7	442.8
56°	422.6	423.0	425.1	427.9	432.9	435.4	438.5	439.8	439.3	438.4	436.3
56.5°	415.8	416.5	418.8	421.2	426.3	429.0	431.8	433.0	433.1	431.7	430.1
57°	409.2	410.0	412.0	414.5	419.7	422.8	425.6	427.1	426.5	425.5	423.6
57.5°	402.6	403.2	405.3	408.0	413.2	416.0	418.9	420.1	420.1	419.1	417.1
58°	396.3	396.7	398.6	401.6	406.7	409.7	412.6	413.8	413.4	412.4	410.6
58.5°	389.4	389.7	392.1	394.9	400.1	403.1	405.8	407.3	407.4	405.8	404.1
59°	382.6	383.4	385.3	388.3	393.7	396.5	399.3	400.7	400.8	399.0	397.3
59.5°	375.6	376.5	378.5	381.4	386.9	389.9	392.6	394.1	393.8	392.7	390.7
60°	368.8	369.6	372.0	374.9	380.0	383.2	386.0	387.4	387.1	385.9	383.9
60.5°	362.3	362.8	364.7	367.9	373.0	376.6	379.3	380.7	380.5	379.3	377.2
61°	355.6	356.2	358.2	361.5	366.3	369.8	372.7	374.0	373.7	372.3	370.8
61.5°	348.4	349.1	351.3	354.5	359.5	363.0	365.6	367.1	367.2	365.7	363.9
62°	341.3	342.3	344.5	347.4	353.2	356.5	359.1	360.5	360.4	359.1	357.2
62.5°	334.1	335.2	337.1	340.3	346.2	349.6	352.5	353.7	353.6	352.2	350.2
63°	327.2	328.3	330.3	333.5	339.2	342.7	345.4	346.9	346.6	345.4	343.4
63.5°	320.2	321.3	323.4	326.3	332.2	335.7	338.7	339.8	339.8	338.5	336.3
64°	312.8	314.1	316.3	319.4	325.1	328.9	331.5	332.6	332.7	331.4	329.5
64.5°	306.1	307.2	309.2	312.4	318.3	321.6	324.6	325.7	325.7	324.5	322.1
65°	298.9	300.0	302.3	305.5	311.4	314.9	317.9	318.9	318.9	317.7	315.6
65.5°	291.7	292.9	295.0	298.5	304.5	307.8	310.7	311.9	312.0	310.8	308.2
66°	284.4	285.5	287.7	291.0	297.1	300.7	303.5	304.8	304.6	303.6	301.2
66.5°	277.3	278.5	280.4	283.7	290.0	293.4	296.1	297.6	297.4	296.0	294.0
67°	270.4	271.1	273.3	276.7	282.7	286.2	289.0	290.5	290.4	289.2	286.7

TEST NUMBER: P869664
 CATALOG NUMBER: SMX14RLSFS2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	262.7	264.0	266.2	269.4	275.6	278.9	281.8	283.4	283.5	282.0	279.5
68°	255.5	256.5	258.9	262.2	268.4	272.0	275.1	276.1	276.2	274.8	272.6
68.5°	248.1	249.2	251.5	254.9	261.4	264.9	267.6	269.0	269.0	267.6	265.6
69°	240.7	241.7	244.2	247.6	254.1	257.6	260.6	261.8	261.8	260.4	258.5
69.5°	233.4	234.4	237.0	240.0	246.9	250.6	253.4	254.6	254.7	253.2	250.8
70°	225.9	227.1	229.6	232.7	239.6	243.1	246.0	247.3	247.5	245.9	243.5
70.5°	218.7	219.8	222.2	225.7	232.5	235.7	238.7	240.2	240.2	238.8	236.3
71°	211.3	212.1	214.8	218.0	225.1	228.8	231.8	233.1	233.1	231.5	229.1
71.5°	203.7	204.9	207.3	210.6	217.7	221.5	224.3	225.6	225.7	224.2	221.6
72°	196.6	197.5	200.0	203.3	210.2	214.1	217.2	218.2	218.4	216.9	214.3
72.5°	189.4	190.4	192.9	196.2	203.0	206.8	209.7	211.1	211.2	209.6	207.1
73°	181.8	183.0	185.5	188.5	195.5	199.4	202.3	203.5	203.7	202.1	199.5
73.5°	174.4	175.4	178.0	181.2	188.5	192.2	195.1	196.4	196.5	194.9	192.4
74°	167.0	168.2	170.7	173.9	181.2	184.9	188.0	189.0	189.3	187.6	185.2
74.5°	159.6	160.8	163.4	166.5	173.8	177.6	180.6	181.8	181.9	180.5	177.7
75°	152.3	153.5	156.1	159.3	166.6	170.2	173.1	174.4	174.4	173.0	170.5
75.5°	145.1	146.3	148.8	152.1	159.2	162.9	165.7	167.2	167.1	165.6	163.1
76°	137.8	138.9	141.5	144.7	151.8	155.5	158.3	159.8	160.0	158.3	155.8
76.5°	130.5	131.8	134.3	137.4	144.7	148.5	151.2	152.5	152.6	151.1	148.3
77°	123.3	124.5	127.2	130.4	137.4	141.1	144.0	145.3	145.1	143.9	141.4
77.5°	116.5	117.7	120.2	123.4	130.3	134.0	136.9	138.0	138.1	136.7	134.1
78°	109.4	110.6	113.1	116.1	123.2	126.9	129.8	130.8	130.9	129.4	127.0
78.5°	102.4	103.6	106.2	109.5	116.0	119.6	122.6	123.7	123.8	122.4	119.8
79°	95.6	96.8	99.4	102.5	109.3	112.6	115.3	116.6	116.6	115.2	112.9
79.5°	88.7	89.9	92.5	95.6	102.3	105.9	108.6	109.8	109.8	108.4	105.8
80°	82.2	83.1	85.8	88.7	95.3	99.0	101.6	102.9	103.0	101.5	99.2
80.5°	75.5	76.7	79.1	82.0	88.7	92.3	94.9	96.1	96.1	94.6	92.0
81°	69.2	70.3	72.6	75.6	82.0	85.3	88.0	89.4	89.4	88.0	85.6
81.5°	62.9	64.2	66.3	69.3	75.6	78.8	81.3	82.6	82.5	81.0	78.8
82°	56.7	57.8	60.1	62.8	69.0	72.4	74.7	76.0	76.1	74.6	72.3
82.5°	50.9	52.1	54.2	56.9	62.9	66.1	68.4	69.6	69.6	68.2	66.0
83°	45.1	46.3	48.3	50.8	56.8	60.0	62.4	63.7	63.5	62.3	59.9
83.5°	39.8	40.7	42.8	45.1	50.8	53.7	56.2	57.4	57.3	55.9	53.8
84°	34.4	35.6	37.5	39.8	44.8	48.0	50.2	51.3	51.3	49.9	47.8
84.5°	29.6	30.6	32.4	34.7	39.5	42.2	44.5	45.6	45.5	44.2	42.3
85°	25.2	26.1	27.8	29.7	34.2	36.9	39.1	40.1	40.0	38.8	37.0
85.5°	20.7	21.4	23.2	25.3	29.3	31.7	33.7	34.6	34.6	33.5	31.6
86°	16.8	17.3	19.0	20.8	25.0	27.0	28.8	29.7	29.6	28.4	26.9
86.5°	12.7	13.4	14.9	16.8	20.9	22.9	24.5	25.4	25.4	24.3	22.6
87°	9.2	9.7	10.9	12.8	16.9	18.9	20.5	21.3	21.2	20.3	18.7
87.5°	6.7	6.9	7.9	9.3	13.2	15.0	16.6	17.2	17.1	16.3	14.8
88°	4.1	4.6	5.4	6.7	9.8	11.3	12.8	13.5	13.4	12.6	11.3
88.5°	2.5	2.8	3.4	4.3	6.8	8.2	9.4	10.0	9.9	9.2	8.0
89°	1.5	1.6	2.1	2.6	4.2	5.6	6.5	7.0	6.9	6.3	5.5
89.5°	1.0	0.9	1.1	1.4	2.4	3.4	4.0	4.4	4.4	3.9	3.1

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



TEST NUMBER: P869664
CATALOG NUMBER: SMX14RLSFSD2W-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: P869664
 CATALOG NUMBER: SMX14RLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	819.7	819.7	819.7	819.7	819.7	819.7
0.5°	819.7	820.4	820.1	819.7	819.9	819.3
1°	819.7	820.4	819.9	819.5	819.7	819.4
1.5°	819.8	820.3	819.8	819.0	818.8	819.1
2°	819.4	819.9	819.4	819.1	818.8	818.8
2.5°	819.0	819.5	819.2	818.6	818.3	818.1
3°	818.6	818.7	819.0	818.3	818.4	817.8
3.5°	818.5	818.5	818.3	817.9	818.1	817.7
4°	818.1	818.0	817.6	816.8	816.6	817.2
4.5°	817.3	817.5	817.4	816.3	816.5	816.3
5°	816.6	817.2	816.5	815.7	815.2	815.3
5.5°	816.4	816.0	816.2	815.1	815.1	814.4
6°	815.4	815.2	815.0	814.2	814.4	813.8
6.5°	814.3	814.0	814.1	813.2	813.4	813.2
7°	813.4	813.3	813.2	812.5	812.6	812.3
7.5°	812.5	812.5	812.3	811.4	811.9	811.4
8°	811.3	811.1	811.1	810.4	811.0	810.2
8.5°	810.6	810.1	809.7	809.3	809.5	808.8
9°	809.7	809.3	809.0	807.7	808.0	807.5
9.5°	808.3	808.0	807.6	806.3	806.7	806.0
10°	806.8	806.4	806.1	805.4	805.3	804.7
10.5°	805.6	805.2	804.7	803.7	803.3	803.2
11°	804.2	803.7	803.3	802.5	801.7	802.4
11.5°	802.6	802.1	801.7	800.7	800.5	800.2
12°	801.0	800.6	800.1	799.3	799.2	798.5
12.5°	799.5	799.2	798.6	797.2	797.1	796.5
13°	797.5	797.7	796.8	795.8	795.6	795.2
13.5°	795.8	795.7	794.9	793.8	793.8	793.2
14°	794.2	793.7	793.5	791.8	791.4	791.5
14.5°	791.9	791.8	791.3	790.0	789.8	789.0
15°	790.2	790.0	789.3	787.9	787.5	787.5
15.5°	788.5	787.9	787.1	785.8	785.6	785.2
16°	786.2	785.9	784.8	783.5	783.4	783.0
16.5°	784.1	783.7	782.6	781.1	780.9	780.9
17°	782.0	781.3	780.2	779.2	778.9	778.9
17.5°	780.1	778.9	778.2	776.8	776.8	776.4
18°	777.4	776.7	775.1	774.3	773.9	774.0
18.5°	775.2	774.5	773.4	771.8	771.8	771.3
19°	772.7	771.8	770.8	769.6	769.0	768.9
19.5°	770.0	769.2	768.5	767.2	766.5	766.1
20°	767.6	766.7	765.6	764.3	764.0	763.6
20.5°	765.0	763.7	762.8	761.4	761.3	760.9
21°	762.1	761.1	760.0	758.8	757.9	758.3
21.5°	759.1	758.3	757.1	755.9	755.2	755.4
22°	756.3	755.5	754.1	752.8	751.7	752.1

TEST NUMBER: P869664
 CATALOG NUMBER: SMX14RLSFSD2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	753.2	752.3	751.2	749.6	749.2	749.4
23°	750.4	749.7	748.3	746.5	746.0	746.3
23.5°	747.3	746.6	745.6	743.5	743.1	743.0
24°	744.2	743.5	742.0	740.2	739.7	739.9
24.5°	741.4	740.1	739.0	736.8	736.4	736.4
25°	738.4	737.1	735.8	734.2	733.5	733.6
25.5°	735.0	734.0	732.2	730.6	730.2	729.9
26°	731.4	730.7	728.9	727.6	726.6	726.5
26.5°	727.7	726.8	725.4	723.7	723.2	723.0
27°	724.5	723.4	722.1	720.0	719.5	719.9
27.5°	721.5	719.6	718.2	716.6	715.9	715.8
28°	717.2	716.1	714.8	712.4	711.6	712.0
28.5°	713.8	712.6	711.0	708.9	707.7	708.1
29°	710.4	708.8	707.0	705.2	704.2	704.4
29.5°	706.7	704.9	703.3	701.1	700.4	700.1
30°	702.9	701.1	699.8	697.3	696.8	696.4
30.5°	698.9	697.4	695.9	693.7	692.8	693.1
31°	695.3	693.3	691.2	689.8	688.9	689.0
31.5°	691.4	688.8	687.5	685.9	684.8	684.8
32°	687.2	685.3	683.4	681.7	680.4	681.0
32.5°	683.3	681.0	679.6	677.3	676.4	676.8
33°	679.0	676.8	675.3	673.2	672.3	672.3
33.5°	674.7	672.4	670.7	668.9	667.8	667.6
34°	670.4	668.6	666.2	664.2	663.5	663.6
34.5°	666.5	663.8	662.0	659.9	658.7	658.9
35°	661.8	659.6	657.2	655.6	654.5	654.6
35.5°	657.6	655.3	653.5	651.2	650.0	650.1
36°	652.9	650.8	648.8	646.4	645.6	645.7
36.5°	648.8	645.9	643.8	641.7	640.7	641.1
37°	643.8	641.5	638.9	637.5	636.4	636.5
37.5°	639.9	637.1	635.0	633.0	631.7	631.4
38°	634.6	632.1	629.8	627.7	626.5	626.4
38.5°	630.0	627.2	624.9	622.8	622.0	622.0
39°	625.0	622.4	619.9	618.4	617.3	617.1
39.5°	620.5	617.3	615.4	613.2	612.3	612.4
40°	615.3	612.9	610.6	608.4	607.4	607.3
40.5°	610.8	608.0	605.4	603.4	602.6	602.0
41°	605.5	602.9	600.1	598.3	597.2	597.0
41.5°	600.9	597.6	595.1	593.0	591.8	591.9
42°	595.6	592.4	590.0	587.5	586.8	586.7
42.5°	590.3	587.2	584.9	582.5	581.5	581.3
43°	585.3	581.8	579.6	577.2	576.2	575.9
43.5°	580.0	576.6	574.7	571.9	571.0	570.8
44°	574.6	571.5	569.0	566.4	565.5	565.8
44.5°	569.5	566.0	563.6	561.2	559.9	559.8

TEST NUMBER: P869664
 CATALOG NUMBER: SMX14RLSFS2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	564.0	560.5	558.1	555.8	554.7	554.6
45.5°	558.6	555.0	552.6	549.9	549.4	549.3
46°	553.0	549.8	546.9	544.8	543.5	543.5
46.5°	547.5	543.7	541.4	539.1	537.5	538.1
47°	542.1	538.5	535.6	533.5	531.9	532.3
47.5°	536.3	532.7	529.9	528.0	526.3	526.7
48°	530.6	526.9	524.4	522.2	520.7	520.9
48.5°	525.3	521.3	518.6	516.3	515.4	515.1
49°	519.5	515.7	512.8	510.3	509.4	509.4
49.5°	513.4	509.7	507.0	504.5	503.1	503.4
50°	507.7	503.5	500.9	498.7	497.3	497.1
50.5°	501.6	497.7	495.1	492.7	491.5	491.3
51°	495.7	491.9	489.0	486.5	485.6	485.3
51.5°	490.2	485.9	483.1	480.5	479.2	479.1
52°	483.9	479.8	477.1	474.7	473.0	472.9
52.5°	477.8	473.4	470.9	468.4	467.0	466.6
53°	471.6	467.4	464.8	462.1	460.6	460.7
53.5°	465.5	461.2	458.2	455.6	454.3	454.4
54°	459.1	454.7	452.1	449.5	448.0	448.1
54.5°	453.1	448.6	445.9	443.3	442.1	441.9
55°	446.8	442.5	439.4	436.9	435.7	435.5
55.5°	440.7	435.8	432.9	430.8	429.2	429.1
56°	434.3	429.3	426.7	424.1	422.5	422.6
56.5°	427.8	423.0	419.9	417.4	416.3	415.8
57°	421.3	416.5	413.5	410.8	409.3	409.2
57.5°	414.8	409.8	406.7	404.1	402.6	402.6
58°	408.2	403.2	400.1	397.5	396.1	396.3
58.5°	401.8	396.6	393.4	390.7	389.3	389.4
59°	395.2	389.8	386.5	383.9	382.6	382.6
59.5°	388.2	383.3	380.2	376.9	375.5	375.6
60°	381.5	376.2	373.0	370.2	368.9	368.8
60.5°	374.8	369.4	366.2	363.1	362.1	362.3
61°	367.9	362.6	359.4	356.9	355.3	355.6
61.5°	361.3	355.7	352.6	349.7	348.4	348.4
62°	354.6	348.8	345.7	342.7	341.4	341.3
62.5°	347.6	341.7	338.6	335.4	334.1	334.1
63°	340.7	334.8	331.5	328.6	327.4	327.2
63.5°	333.7	327.5	324.5	321.7	320.3	320.2
64°	326.7	320.7	317.5	314.8	313.4	312.8
64.5°	319.5	313.8	310.4	307.7	306.1	306.1
65°	312.7	306.7	303.2	300.5	298.9	298.9
65.5°	305.7	299.3	296.1	293.3	291.9	291.7
66°	298.3	292.3	288.8	285.6	284.4	284.4
66.5°	291.0	284.9	281.5	278.6	277.3	277.3
67°	284.0	278.0	274.4	271.6	270.0	270.4

TEST NUMBER: P869664
 CATALOG NUMBER: SMX14RLSFS2W-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	277.3	270.6	267.0	264.5	262.5	262.7
68°	269.9	263.4	259.5	256.9	255.5	255.5
68.5°	262.5	256.0	252.3	249.3	248.0	248.1
69°	255.1	248.6	244.9	242.3	240.5	240.7
69.5°	248.0	241.3	237.7	234.7	233.2	233.4
70°	240.8	234.0	230.5	227.3	226.3	225.9
70.5°	233.4	226.6	223.1	220.3	218.8	218.7
71°	226.0	218.9	215.6	212.6	211.1	211.3
71.5°	218.8	211.6	208.2	205.3	203.5	203.7
72°	211.4	204.4	200.9	197.9	196.6	196.6
72.5°	204.1	197.1	193.7	190.7	189.3	189.4
73°	196.5	189.7	186.1	183.1	181.9	181.8
73.5°	189.4	182.2	178.8	175.9	174.2	174.4
74°	182.1	175.0	171.2	168.4	166.9	167.0
74.5°	174.7	167.6	164.1	161.0	159.5	159.6
75°	167.2	160.2	156.7	153.8	152.6	152.3
75.5°	160.0	152.9	149.5	146.4	144.7	145.1
76°	152.6	145.4	142.0	139.2	137.8	137.8
76.5°	145.4	138.2	134.6	131.9	130.6	130.5
77°	138.1	131.2	127.7	124.8	123.3	123.3
77.5°	130.9	124.1	120.6	117.9	116.5	116.5
78°	123.8	116.8	113.4	110.8	109.4	109.4
78.5°	116.6	109.9	106.7	103.8	102.6	102.4
79°	109.7	103.0	99.7	97.0	95.7	95.6
79.5°	102.7	96.0	92.8	90.0	88.7	88.7
80°	96.0	89.1	85.8	83.2	81.9	82.2
80.5°	89.2	82.6	79.4	76.6	75.3	75.5
81°	82.5	75.9	72.7	70.3	69.2	69.2
81.5°	75.8	69.7	66.6	64.0	62.8	62.9
82°	69.4	63.4	60.3	57.8	56.7	56.7
82.5°	63.3	57.4	54.4	52.2	50.9	50.9
83°	57.1	51.2	48.5	46.3	45.3	45.1
83.5°	51.0	45.6	42.9	40.7	39.7	39.8
84°	45.1	40.2	37.5	35.5	34.4	34.4
84.5°	39.8	34.9	32.6	30.6	29.6	29.6
85°	34.4	29.9	27.8	26.1	25.3	25.2
85.5°	29.4	25.6	23.3	21.6	20.8	20.7
86°	24.9	21.1	19.1	17.4	16.7	16.8
86.5°	20.9	17.0	14.9	13.3	12.7	12.7
87°	16.9	13.0	11.0	9.8	9.1	9.2
87.5°	13.1	9.4	8.0	7.0	6.6	6.7
88°	9.8	6.7	5.6	4.6	4.2	4.1
88.5°	6.7	4.3	3.5	3.0	2.6	2.5
89°	4.3	2.8	2.2	1.6	1.4	1.5
89.5°	2.3	1.6	1.2	1.0	1.3	1.0

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869664
CATALOG NUMBER: SMX14RLSFSD2W-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)