

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: P869663

Luminaire Tested: **SMX14RLSFSD2W-2000LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869663
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFSD2W-2000LM-3500K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

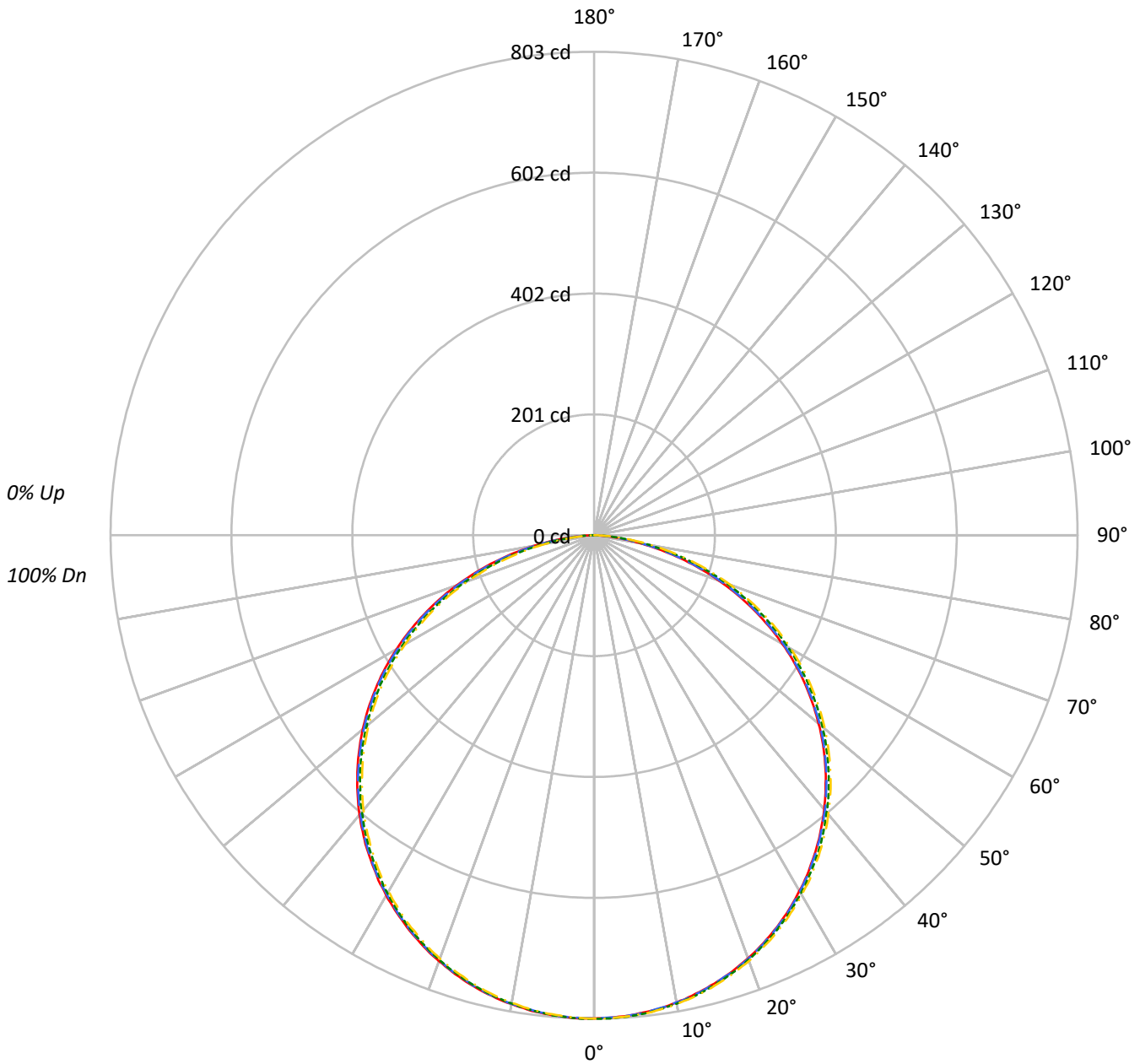
Lumens per Lamp: N/A
 Luminaire Lumens: 2350.0 lumens
 Efficiency: N/A
 Efficacy: 88.7 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

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	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	79	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	57	52	62	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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	42	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	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8077	8077	8077	8077
5°	8065	8085	8083	8083
10°	8052	8074	8079	8069
15°	8034	8057	8075	8059
20°	8007	8033	8063	8039
25°	7976	8013	8050	8015
30°	7924	7981	8024	7977
35°	7875	7946	7993	7935
40°	7812	7896	7959	7883
45°	7728	7840	7913	7812
50°	7621	7756	7854	7718
55°	7481	7653	7764	7602
60°	7268	7489	7628	7415
65°	6970	7260	7436	7151
70°	6508	6903	7129	6741
75°	5801	6342	6641	6097
80°	4659	5413	5842	5053
85°	2840	3868	4526	3383

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	3.2
10°-20°	218.2	9.3
20°-30°	332.5	14.1
30°-40°	404.2	17.2
40°-50°	423.9	18.0
50°-60°	387.9	16.5
60°-70°	298.8	12.7
70°-80°	169.0	7.2
80°-90°	39.5	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°	626.7	26.7
0°-40°	1030.9	43.9
0°-60°	1842.7	78.4
0°-90°	2350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2350.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	803	803	803	803	803	
5°	798	800	800	800	798	76
15°	771	773	775	774	771	218
25°	718	722	725	722	718	331
35°	641	647	651	646	641	401
45°	543	551	556	549	543	419
55°	426	436	442	433	426	381
65°	293	305	312	300	293	289
75°	149	163	171	157	149	158
85°	25	34	39	29	25	32
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°	802.6	802.6	802.6	802.6	802.6	802.6	802.6	802.6	802.6	802.6	802.6
0.5°	802.2	802.0	802.1	802.9	803.1	803.4	802.8	802.5	802.3	802.1	802.3
1°	802.3	801.6	801.9	803.0	803.1	803.1	802.8	802.3	802.7	802.2	801.9
1.5°	802.0	801.8	801.7	802.3	802.9	803.0	802.8	802.6	802.9	801.8	802.0
2°	801.8	801.1	801.4	801.8	803.0	802.8	802.4	802.5	802.7	801.6	802.0
2.5°	801.1	801.0	801.5	802.1	802.4	802.5	802.2	802.2	802.4	801.6	801.7
3°	800.8	800.6	801.0	801.4	802.0	802.2	801.7	801.8	802.0	801.6	801.4
3.5°	800.7	800.2	800.8	801.0	802.0	802.0	801.6	801.6	801.4	801.2	801.0
4°	800.2	799.6	800.2	800.6	801.4	801.4	801.1	801.0	800.8	800.9	801.1
4.5°	799.3	798.8	799.5	799.7	800.7	800.9	800.6	800.7	800.4	800.4	800.0
5°	798.4	797.8	798.8	799.6	800.4	800.1	800.1	800.2	800.2	799.7	799.7
5.5°	797.4	797.0	798.1	798.2	799.4	799.5	799.3	799.3	799.4	799.3	799.1
6°	796.8	796.2	797.2	797.2	798.8	798.6	798.7	798.7	798.8	798.6	798.2
6.5°	796.2	795.5	796.6	796.6	797.8	797.9	798.3	798.1	798.0	798.0	797.3
7°	795.3	794.7	795.0	795.6	796.8	796.5	797.3	797.0	797.4	797.0	796.3
7.5°	794.5	793.7	793.9	794.6	795.7	795.6	796.2	796.0	796.8	796.1	795.2
8°	793.3	792.8	792.7	793.7	794.6	794.5	795.3	795.3	795.7	795.3	794.8
8.5°	792.0	791.5	792.2	792.7	793.7	793.4	793.9	793.9	794.1	794.1	793.5
9°	790.7	790.5	790.9	791.3	792.3	792.9	793.4	792.9	793.0	792.6	792.7
9.5°	789.2	789.1	789.5	790.3	791.2	791.2	791.8	791.7	792.2	791.8	791.2
10°	788.0	787.9	787.9	789.2	790.1	790.1	790.7	790.7	790.6	790.9	790.3
10.5°	786.4	786.6	787.0	787.7	788.7	788.9	789.1	789.5	789.7	789.5	788.9
11°	785.6	784.8	785.5	786.4	787.2	787.4	787.7	788.0	788.5	787.9	787.6
11.5°	783.5	783.2	784.5	784.6	785.7	785.7	786.8	786.6	787.1	786.2	785.9
12°	781.9	781.8	782.6	783.1	784.5	784.3	785.2	785.1	785.6	784.9	784.5
12.5°	779.9	780.4	780.9	781.5	782.5	783.1	783.2	783.9	783.4	783.8	783.1
13°	778.7	778.7	779.1	779.3	780.8	781.6	781.9	782.2	782.4	782.0	781.7
13.5°	776.7	776.7	777.5	778.1	779.2	779.8	780.2	780.5	780.8	779.9	780.0
14°	775.0	774.7	775.5	776.3	777.4	777.9	778.4	778.4	779.0	778.3	777.9
14.5°	772.5	772.7	773.4	774.7	775.3	775.8	776.8	777.1	777.2	777.0	776.2
15°	771.1	770.6	771.8	771.9	773.4	773.9	774.5	775.4	775.1	774.7	774.6
15.5°	768.9	768.6	769.3	770.1	771.3	771.8	772.6	773.2	773.4	772.8	772.2
16°	766.7	766.9	767.1	768.3	769.3	769.8	770.6	770.6	771.4	770.6	769.8
16.5°	764.6	764.8	764.8	766.1	766.9	767.5	768.5	768.5	769.2	768.8	767.9
17°	762.6	762.7	763.2	763.9	764.8	765.2	766.5	766.6	766.7	767.0	765.9
17.5°	760.2	760.3	761.0	762.1	762.4	763.4	764.4	764.4	764.8	764.2	763.9
18°	757.9	757.8	758.5	759.5	760.6	761.2	762.1	762.4	762.6	762.3	761.4
18.5°	755.3	755.1	756.2	756.7	757.9	758.8	759.4	759.9	760.0	760.1	759.3
19°	752.8	752.6	753.8	754.1	755.2	756.4	757.1	757.4	758.1	757.4	756.6
19.5°	750.1	750.2	751.1	752.1	752.9	753.5	755.1	755.1	755.0	755.4	754.1
20°	747.7	747.5	748.5	749.3	750.1	751.5	752.5	752.9	752.9	752.7	751.8
20.5°	745.1	744.7	745.7	747.0	747.6	748.8	749.8	750.4	750.1	750.2	749.4
21°	742.5	742.2	742.8	743.9	745.0	745.8	747.2	747.8	747.8	747.5	746.4
21.5°	739.6	739.2	740.3	741.3	742.4	743.5	744.5	745.2	745.4	744.7	743.9
22°	736.4	736.8	737.7	738.2	739.2	740.6	742.0	742.3	742.4	741.7	740.9

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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°	733.8	733.5	734.6	735.3	736.7	737.7	738.8	739.5	739.7	739.1	738.4
23°	730.7	730.5	731.1	732.8	733.8	734.7	736.2	737.0	736.4	736.4	735.3
23.5°	727.5	727.5	728.0	729.4	730.6	731.5	733.4	733.6	733.5	733.8	732.1
24°	724.5	724.5	725.4	726.3	727.8	729.0	730.5	730.7	730.6	730.8	729.3
24.5°	721.0	721.4	722.1	723.3	724.9	725.6	727.2	727.8	727.8	727.3	726.4
25°	718.3	717.9	719.1	719.9	721.7	722.6	724.2	724.7	725.0	724.7	723.1
25.5°	714.7	715.1	715.6	716.7	718.0	719.5	720.9	721.8	721.4	721.3	719.9
26°	711.4	711.9	712.2	713.6	715.1	716.6	717.5	718.3	717.9	718.3	716.9
26.5°	707.9	707.9	708.5	710.1	711.7	712.9	714.6	715.0	714.7	714.7	713.4
27°	704.9	704.7	705.5	706.3	708.8	709.3	711.2	712.0	711.4	711.6	709.7
27.5°	700.9	701.0	702.0	702.8	705.1	706.0	707.4	708.2	708.1	708.1	706.6
28°	697.1	697.4	698.4	699.4	701.2	702.9	704.3	704.9	704.7	704.6	703.1
28.5°	693.4	693.7	694.5	695.4	697.8	699.0	700.7	701.2	701.2	700.8	699.5
29°	689.8	690.4	690.9	692.1	694.1	695.4	697.3	697.8	697.8	697.2	696.1
29.5°	685.5	686.0	687.1	688.4	690.8	691.7	693.7	694.2	694.4	694.1	692.5
30°	681.9	682.3	683.2	684.8	686.8	688.1	690.1	690.6	690.5	690.4	688.5
30.5°	678.7	678.7	679.9	681.2	683.3	684.3	686.0	686.8	686.6	686.7	685.0
31°	674.6	675.3	675.4	676.9	679.9	680.4	682.2	683.6	682.8	683.0	681.4
31.5°	670.6	670.8	671.8	673.3	675.5	676.9	678.7	679.3	679.3	679.5	677.6
32°	666.8	667.0	668.0	669.4	671.6	673.0	675.2	675.6	675.7	675.7	673.6
32.5°	662.7	663.1	663.3	664.8	667.2	669.0	671.0	672.1	671.3	671.3	669.9
33°	658.3	659.2	659.3	660.9	663.5	664.5	666.8	667.8	666.8	667.3	665.8
33.5°	653.7	654.6	655.3	657.0	659.2	660.5	662.5	663.9	663.1	663.1	661.7
34°	649.8	650.5	650.8	652.8	655.4	656.7	658.5	659.8	659.0	659.1	657.5
34.5°	645.1	646.0	647.0	648.5	651.1	652.5	654.4	655.6	654.7	654.8	653.3
35°	641.0	641.7	642.6	643.9	646.8	648.1	650.3	651.0	650.6	650.6	649.3
35.5°	636.6	637.0	638.2	639.5	642.4	643.9	645.6	646.7	646.7	646.6	645.0
36°	632.2	632.5	633.3	635.1	638.1	639.7	641.8	642.5	642.5	642.0	640.6
36.5°	627.8	628.0	629.3	630.7	634.0	635.0	637.4	638.2	638.2	638.3	636.1
37°	623.2	623.4	624.5	626.2	629.3	630.8	632.8	634.0	633.6	633.6	632.0
37.5°	618.2	618.9	619.8	621.6	624.5	626.2	628.3	629.2	629.0	628.9	627.5
38°	613.4	614.4	615.4	616.9	620.0	622.0	624.2	624.8	624.3	624.1	623.0
38.5°	609.0	609.6	610.4	611.9	615.4	617.1	619.4	620.1	620.1	619.6	618.4
39°	604.3	604.5	605.8	607.4	610.4	612.2	614.8	615.8	615.5	615.1	613.5
39.5°	599.6	599.6	601.0	602.8	605.6	607.8	610.3	611.0	610.7	610.4	608.4
40°	594.7	595.4	596.3	598.1	601.1	603.3	605.1	606.4	605.9	605.8	603.7
40.5°	589.4	590.1	591.6	593.3	596.4	598.4	600.4	601.5	601.2	600.9	599.0
41°	584.6	585.6	586.5	588.5	591.7	593.8	595.6	596.8	596.7	596.1	594.4
41.5°	579.5	580.3	581.5	583.7	586.8	588.9	590.8	591.7	591.8	591.0	589.2
42°	574.5	575.3	576.1	578.5	581.7	583.8	585.7	586.7	586.5	586.1	584.5
42.5°	569.1	570.3	571.0	573.4	576.7	578.5	580.8	581.9	581.6	581.5	579.4
43°	563.9	564.9	565.8	568.1	571.6	573.7	575.9	577.1	576.5	576.1	574.5
43.5°	559.0	559.8	560.9	563.1	566.1	568.4	570.5	572.1	571.6	570.9	569.3
44°	554.0	554.3	555.4	557.6	561.1	563.4	565.6	566.6	566.3	565.8	564.3
44.5°	548.2	548.9	550.4	552.5	556.0	558.2	560.2	561.2	561.1	560.6	559.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	543.0	543.5	545.0	547.3	550.9	552.9	555.0	556.1	556.0	555.6	553.7
45.5°	537.9	538.0	539.6	541.9	545.4	547.4	549.8	550.5	550.9	550.2	548.3
46°	532.2	532.7	533.9	536.5	539.8	542.1	544.5	545.4	545.6	545.1	543.2
46.5°	526.9	527.2	528.4	530.7	534.3	536.7	539.2	539.9	540.0	539.6	537.7
47°	521.2	521.7	523.1	525.5	528.8	531.3	533.7	534.5	534.6	533.9	532.1
47.5°	515.8	516.0	517.8	520.0	523.5	525.8	528.2	529.2	529.1	528.7	526.9
48°	510.0	510.4	512.3	514.3	518.1	520.3	522.8	523.8	523.7	523.0	521.6
48.5°	504.3	504.8	506.5	508.7	512.5	514.7	517.2	518.4	518.4	517.6	516.0
49°	498.8	499.0	500.8	503.0	506.8	509.0	511.8	512.8	512.7	512.0	510.4
49.5°	492.9	493.3	495.0	497.5	501.0	503.4	506.0	506.8	507.3	506.6	504.8
50°	486.8	487.4	489.1	491.5	495.4	498.0	500.6	501.5	501.7	501.0	498.7
50.5°	481.0	481.4	483.4	486.0	489.5	492.2	494.8	495.7	495.7	495.1	493.0
51°	475.2	475.6	477.3	479.9	484.0	486.4	488.7	490.0	490.1	489.0	487.5
51.5°	469.1	469.7	471.4	474.1	477.9	480.6	483.1	484.2	484.3	483.4	481.4
52°	463.1	463.7	465.3	468.1	472.4	474.8	477.5	478.7	478.3	477.4	475.9
52.5°	456.9	457.7	459.5	462.1	466.3	468.7	471.4	472.7	472.3	471.5	469.6
53°	451.1	451.8	453.7	456.1	460.2	462.9	465.5	466.8	466.5	465.8	463.8
53.5°	444.9	445.2	447.4	449.8	454.4	457.0	459.1	460.6	460.3	459.7	457.9
54°	438.7	438.8	441.0	443.6	448.3	450.7	453.4	454.8	454.3	454.0	451.7
54.5°	432.7	433.3	435.0	437.4	442.0	444.8	447.4	448.4	448.3	447.7	445.4
55°	426.4	427.0	428.9	431.7	436.2	438.8	441.5	442.9	442.5	441.7	439.4
55.5°	420.2	420.5	422.7	425.1	430.0	432.8	435.2	436.7	436.4	435.4	433.6
56°	413.8	414.2	416.2	419.0	423.9	426.3	429.4	430.7	430.2	429.3	427.2
56.5°	407.2	407.9	410.1	412.4	417.4	420.1	422.8	424.0	424.1	422.7	421.2
57°	400.7	401.5	403.4	405.8	411.0	414.0	416.7	418.2	417.6	416.6	414.8
57.5°	394.2	394.8	396.9	399.5	404.6	407.4	410.2	411.4	411.4	410.4	408.4
58°	388.1	388.5	390.3	393.2	398.3	401.2	404.0	405.1	404.8	403.8	402.0
58.5°	381.3	381.6	383.9	386.7	391.8	394.7	397.4	398.8	398.9	397.4	395.6
59°	374.7	375.5	377.3	380.2	385.5	388.3	391.0	392.3	392.4	390.7	389.0
59.5°	367.8	368.7	370.6	373.4	378.8	381.8	384.4	385.9	385.6	384.5	382.5
60°	361.1	361.9	364.3	367.1	372.1	375.3	378.0	379.3	379.0	377.9	375.9
60.5°	354.8	355.3	357.1	360.2	365.3	368.8	371.4	372.7	372.5	371.4	369.3
61°	348.2	348.8	350.7	354.0	358.7	362.1	365.0	366.2	365.9	364.6	363.0
61.5°	341.1	341.9	344.0	347.1	352.0	355.5	358.0	359.4	359.5	358.1	356.3
62°	334.2	335.2	337.3	340.1	345.9	349.1	351.6	353.0	352.9	351.6	349.7
62.5°	327.1	328.2	330.0	333.2	339.0	342.4	345.2	346.3	346.2	344.9	342.9
63°	320.4	321.5	323.4	326.5	332.2	335.6	338.2	339.6	339.4	338.2	336.2
63.5°	313.5	314.6	316.6	319.5	325.3	328.7	331.7	332.8	332.8	331.5	329.3
64°	306.3	307.5	309.8	312.8	318.3	322.1	324.6	325.7	325.8	324.5	322.7
64.5°	299.8	300.8	302.8	305.9	311.7	314.9	317.8	318.9	318.9	317.7	315.4
65°	292.7	293.7	296.0	299.2	304.9	308.3	311.3	312.3	312.3	311.1	309.0
65.5°	285.6	286.8	288.9	292.3	298.1	301.4	304.2	305.4	305.5	304.3	301.8
66°	278.5	279.6	281.7	284.9	290.9	294.4	297.1	298.5	298.2	297.2	294.9
66.5°	271.5	272.7	274.5	277.8	283.9	287.2	290.0	291.4	291.2	289.9	287.9
67°	264.7	265.4	267.6	270.9	276.9	280.3	283.0	284.4	284.3	283.2	280.7

TEST NUMBER: P869663
 CATALOG NUMBER: SMX14RLSFS2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	257.3	258.5	260.7	263.8	269.9	273.1	275.9	277.5	277.6	276.1	273.7
68°	250.2	251.1	253.5	256.8	262.8	266.4	269.4	270.4	270.5	269.1	267.0
68.5°	242.9	244.0	246.3	249.6	256.0	259.4	262.0	263.4	263.4	262.0	260.1
69°	235.7	236.7	239.1	242.4	248.8	252.2	255.2	256.4	256.4	254.9	253.1
69.5°	228.5	229.5	232.0	235.0	241.7	245.4	248.1	249.3	249.4	247.9	245.6
70°	221.2	222.3	224.8	227.9	234.6	238.0	240.9	242.1	242.3	240.8	238.4
70.5°	214.2	215.2	217.6	221.0	227.7	230.8	233.8	235.2	235.2	233.9	231.3
71°	206.9	207.7	210.3	213.5	220.4	224.1	227.0	228.2	228.2	226.7	224.4
71.5°	199.4	200.6	203.0	206.2	213.2	216.9	219.6	220.9	221.0	219.5	217.0
72°	192.5	193.4	195.8	199.0	205.8	209.6	212.7	213.7	213.9	212.4	209.8
72.5°	185.4	186.4	188.8	192.1	198.7	202.5	205.3	206.7	206.8	205.2	202.8
73°	178.0	179.2	181.7	184.6	191.5	195.2	198.1	199.2	199.4	197.9	195.3
73.5°	170.8	171.8	174.3	177.4	184.6	188.2	191.1	192.3	192.4	190.9	188.4
74°	163.5	164.7	167.1	170.3	177.4	181.1	184.1	185.1	185.3	183.7	181.4
74.5°	156.2	157.5	160.0	163.0	170.2	173.9	176.8	178.0	178.1	176.7	174.0
75°	149.2	150.3	152.8	155.9	163.1	166.6	169.5	170.8	170.8	169.4	166.9
75.5°	142.1	143.2	145.7	149.0	155.8	159.5	162.3	163.7	163.6	162.2	159.7
76°	134.9	136.1	138.6	141.7	148.7	152.3	155.0	156.4	156.6	155.0	152.5
76.5°	127.8	129.1	131.5	134.5	141.7	145.4	148.1	149.3	149.4	148.0	145.2
77°	120.7	121.9	124.5	127.7	134.5	138.2	141.0	142.3	142.1	140.9	138.5
77.5°	114.1	115.3	117.7	120.8	127.6	131.2	134.0	135.1	135.2	133.8	131.3
78°	107.1	108.3	110.7	113.6	120.6	124.2	127.1	128.1	128.2	126.7	124.3
78.5°	100.2	101.4	104.0	107.2	113.5	117.1	120.0	121.1	121.2	119.8	117.3
79°	93.6	94.8	97.3	100.3	107.0	110.2	112.9	114.2	114.2	112.8	110.5
79.5°	86.9	88.0	90.5	93.6	100.1	103.7	106.4	107.5	107.5	106.2	103.6
80°	80.4	81.3	84.0	86.9	93.4	96.9	99.5	100.7	100.8	99.4	97.1
80.5°	73.9	75.1	77.4	80.3	86.9	90.3	93.0	94.1	94.1	92.7	90.1
81°	67.7	68.8	71.1	74.0	80.3	83.6	86.2	87.5	87.5	86.2	83.8
81.5°	61.6	62.9	64.9	67.8	74.0	77.1	79.6	80.8	80.7	79.3	77.1
82°	55.5	56.6	58.8	61.5	67.5	70.9	73.2	74.4	74.5	73.1	70.8
82.5°	49.9	51.0	53.1	55.7	61.6	64.7	67.0	68.1	68.1	66.8	64.6
83°	44.2	45.3	47.3	49.8	55.6	58.7	61.1	62.4	62.2	61.0	58.6
83.5°	39.0	39.9	41.9	44.2	49.8	52.6	55.0	56.2	56.1	54.7	52.7
84°	33.7	34.8	36.7	39.0	43.9	47.0	49.2	50.3	50.3	48.9	46.8
84.5°	29.0	30.0	31.7	34.0	38.7	41.3	43.6	44.6	44.5	43.3	41.4
85°	24.6	25.5	27.3	29.1	33.5	36.1	38.3	39.3	39.2	37.9	36.2
85.5°	20.3	21.0	22.7	24.7	28.7	31.1	33.0	33.9	33.9	32.8	31.0
86°	16.5	17.0	18.6	20.4	24.5	26.4	28.2	29.1	29.0	27.9	26.3
86.5°	12.4	13.1	14.6	16.5	20.5	22.4	24.0	24.8	24.8	23.8	22.1
87°	9.0	9.5	10.7	12.5	16.6	18.5	20.1	20.9	20.8	19.9	18.3
87.5°	6.6	6.8	7.8	9.1	12.9	14.7	16.2	16.9	16.8	15.9	14.5
88°	4.0	4.5	5.2	6.6	9.6	11.1	12.5	13.2	13.1	12.3	11.1
88.5°	2.4	2.7	3.3	4.2	6.7	8.1	9.2	9.8	9.7	9.0	7.9
89°	1.5	1.6	2.0	2.5	4.1	5.5	6.4	6.9	6.8	6.2	5.3
89.5°	1.0	0.9	1.1	1.4	2.3	3.3	3.9	4.3	4.3	3.8	3.0

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



TEST NUMBER: P869663
CATALOG NUMBER: SMX14RLSFSD2W-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: P869663
 CATALOG NUMBER: SMX14RLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	802.6	802.6	802.6	802.6	802.6	802.6
0.5°	802.6	803.3	803.0	802.6	802.8	802.2
1°	802.6	803.3	802.8	802.4	802.6	802.3
1.5°	802.7	803.2	802.7	801.9	801.8	802.0
2°	802.3	802.8	802.3	802.0	801.8	801.8
2.5°	801.9	802.4	802.1	801.6	801.3	801.1
3°	801.6	801.7	801.9	801.3	801.4	800.8
3.5°	801.5	801.5	801.3	800.9	801.1	800.7
4°	801.1	801.0	800.6	799.8	799.6	800.2
4.5°	800.3	800.5	800.4	799.3	799.5	799.3
5°	799.6	800.2	799.5	798.7	798.3	798.4
5.5°	799.4	799.0	799.2	798.2	798.2	797.4
6°	798.5	798.3	798.1	797.2	797.4	796.8
6.5°	797.3	797.0	797.1	796.2	796.4	796.2
7°	796.4	796.3	796.2	795.5	795.6	795.3
7.5°	795.5	795.5	795.3	794.5	795.0	794.5
8°	794.4	794.2	794.2	793.5	794.1	793.3
8.5°	793.7	793.2	792.8	792.4	792.6	792.0
9°	792.8	792.4	792.1	790.9	791.2	790.7
9.5°	791.5	791.2	790.8	789.5	789.9	789.2
10°	790.0	789.6	789.3	788.7	788.6	788.0
10.5°	788.8	788.5	788.0	787.0	786.5	786.4
11°	787.5	787.0	786.5	785.7	785.0	785.6
11.5°	785.8	785.4	785.0	784.0	783.8	783.5
12°	784.3	783.9	783.4	782.6	782.5	781.9
12.5°	782.8	782.5	782.0	780.6	780.5	779.9
13°	780.9	781.1	780.2	779.2	779.0	778.7
13.5°	779.2	779.1	778.4	777.3	777.3	776.7
14°	777.7	777.2	777.0	775.3	774.9	775.0
14.5°	775.4	775.3	774.8	773.5	773.3	772.5
15°	773.7	773.5	772.8	771.5	771.1	771.1
15.5°	772.1	771.5	770.7	769.4	769.2	768.9
16°	769.8	769.5	768.5	767.2	767.1	766.7
16.5°	767.8	767.4	766.3	764.8	764.6	764.6
17°	765.8	765.1	763.9	762.9	762.6	762.6
17.5°	763.8	762.6	762.0	760.6	760.6	760.2
18°	761.2	760.5	759.0	758.2	757.8	757.9
18.5°	759.1	758.4	757.3	755.8	755.8	755.3
19°	756.6	755.8	754.8	753.5	752.9	752.8
19.5°	753.9	753.1	752.5	751.2	750.5	750.1
20°	751.6	750.7	749.6	748.4	748.1	747.7
20.5°	749.1	747.8	746.9	745.6	745.5	745.1
21°	746.2	745.3	744.2	742.9	742.1	742.5
21.5°	743.2	742.5	741.3	740.1	739.5	739.6
22°	740.5	739.7	738.4	737.1	736.1	736.4

TEST NUMBER: P869663
 CATALOG NUMBER: SMX14RLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	737.5	736.6	735.6	734.0	733.6	733.8
23°	734.8	734.1	732.8	730.9	730.4	730.7
23.5°	731.7	731.0	730.0	728.0	727.6	727.5
24°	728.7	728.0	726.5	724.8	724.3	724.5
24.5°	726.0	724.7	723.6	721.4	721.0	721.0
25°	723.1	721.8	720.4	718.9	718.2	718.3
25.5°	719.7	718.7	716.9	715.4	715.0	714.7
26°	716.2	715.5	713.7	712.5	711.5	711.4
26.5°	712.6	711.7	710.2	708.6	708.1	707.9
27°	709.4	708.3	707.0	705.0	704.5	704.9
27.5°	706.5	704.6	703.3	701.7	701.0	700.9
28°	702.3	701.2	700.0	697.5	696.8	697.1
28.5°	698.9	697.7	696.2	694.1	693.0	693.4
29°	695.6	694.0	692.3	690.5	689.6	689.8
29.5°	692.0	690.3	688.6	686.5	685.8	685.5
30°	688.2	686.5	685.2	682.8	682.3	681.9
30.5°	684.3	682.9	681.4	679.3	678.4	678.7
31°	680.8	678.9	676.8	675.4	674.5	674.6
31.5°	677.0	674.4	673.2	671.6	670.6	670.6
32°	672.9	671.0	669.2	667.5	666.2	666.8
32.5°	669.1	666.8	665.4	663.2	662.3	662.7
33°	664.8	662.7	661.2	659.2	658.3	658.3
33.5°	660.7	658.4	656.8	654.9	653.9	653.7
34°	656.4	654.6	652.3	650.4	649.7	649.8
34.5°	652.6	650.0	648.2	646.2	644.9	645.1
35°	648.0	645.9	643.5	641.9	640.9	641.0
35.5°	643.9	641.6	639.9	637.7	636.5	636.6
36°	639.3	637.3	635.3	632.9	632.1	632.2
36.5°	635.3	632.4	630.4	628.3	627.4	627.8
37°	630.4	628.1	625.6	624.3	623.1	623.2
37.5°	626.6	623.8	621.7	619.8	618.5	618.2
38°	621.4	618.9	616.7	614.7	613.5	613.4
38.5°	616.9	614.2	611.8	609.8	609.0	609.0
39°	611.9	609.4	607.0	605.5	604.5	604.3
39.5°	607.6	604.5	602.6	600.4	599.5	599.6
40°	602.5	600.1	597.9	595.7	594.8	594.7
40.5°	598.1	595.3	592.8	590.8	590.0	589.4
41°	592.9	590.3	587.6	585.8	584.8	584.6
41.5°	588.4	585.2	582.7	580.7	579.4	579.5
42°	583.2	580.0	577.7	575.3	574.6	574.5
42.5°	578.0	575.0	572.7	570.4	569.3	569.1
43°	573.1	569.6	567.5	565.2	564.2	563.9
43.5°	567.9	564.6	562.7	560.0	559.2	559.0
44°	562.6	559.6	557.1	554.6	553.7	554.0
44.5°	557.6	554.2	551.9	549.5	548.3	548.2

TEST NUMBER: P869663
 CATALOG NUMBER: SMX14RLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	552.3	548.9	546.4	544.2	543.1	543.0
45.5°	546.9	543.4	541.1	538.5	538.0	537.9
46°	541.5	538.4	535.5	533.4	532.2	532.2
46.5°	536.1	532.4	530.1	527.9	526.4	526.9
47°	530.8	527.3	524.4	522.4	520.8	521.2
47.5°	525.1	521.6	518.9	517.0	515.3	515.8
48°	519.6	516.0	513.4	511.3	509.9	510.0
48.5°	514.3	510.4	507.8	505.6	504.7	504.3
49°	508.7	505.0	502.1	499.7	498.8	498.8
49.5°	502.7	499.1	496.5	494.0	492.6	492.9
50°	497.1	493.0	490.4	488.3	487.0	486.8
50.5°	491.1	487.3	484.8	482.4	481.2	481.0
51°	485.4	481.6	478.8	476.4	475.5	475.2
51.5°	480.0	475.8	473.1	470.5	469.2	469.1
52°	473.9	469.8	467.2	464.8	463.2	463.1
52.5°	467.8	463.6	461.0	458.6	457.3	456.9
53°	461.8	457.6	455.1	452.5	451.0	451.1
53.5°	455.8	451.6	448.6	446.1	444.8	444.9
54°	449.5	445.2	442.7	440.2	438.6	438.7
54.5°	443.7	439.2	436.6	434.1	432.9	432.7
55°	437.5	433.3	430.3	427.8	426.6	426.4
55.5°	431.5	426.7	423.9	421.8	420.3	420.2
56°	425.2	420.4	417.9	415.2	413.7	413.8
56.5°	418.9	414.2	411.2	408.7	407.7	407.2
57°	412.5	407.9	404.9	402.2	400.8	400.7
57.5°	406.1	401.3	398.3	395.6	394.2	394.2
58°	399.7	394.8	391.8	389.2	387.9	388.1
58.5°	393.4	388.4	385.3	382.5	381.2	381.3
59°	387.0	381.7	378.5	375.9	374.7	374.7
59.5°	380.1	375.4	372.2	369.0	367.7	367.8
60°	373.5	368.4	365.3	362.4	361.2	361.1
60.5°	367.0	361.7	358.6	355.6	354.6	354.8
61°	360.2	355.1	351.9	349.4	347.9	348.2
61.5°	353.8	348.3	345.3	342.5	341.1	341.1
62°	347.2	341.5	338.5	335.6	334.3	334.2
62.5°	340.3	334.6	331.6	328.4	327.1	327.1
63°	333.6	327.8	324.6	321.8	320.6	320.4
63.5°	326.7	320.7	317.7	315.0	313.6	313.5
64°	319.8	314.0	310.9	308.2	306.8	306.3
64.5°	312.9	307.2	303.9	301.3	299.8	299.8
65°	306.2	300.3	296.8	294.2	292.7	292.7
65.5°	299.4	293.1	290.0	287.1	285.8	285.6
66°	292.1	286.2	282.8	279.7	278.5	278.5
66.5°	284.9	279.0	275.6	272.8	271.5	271.5
67°	278.1	272.2	268.7	266.0	264.3	264.7

TEST NUMBER: P869663
 CATALOG NUMBER: SMX14RLSFSD2W-2000LM-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	271.5	264.9	261.4	259.0	257.1	257.3
68°	264.2	257.9	254.1	251.5	250.2	250.2
68.5°	257.1	250.7	247.1	244.1	242.8	242.9
69°	249.8	243.4	239.8	237.3	235.5	235.7
69.5°	242.8	236.3	232.7	229.8	228.3	228.5
70°	235.8	229.1	225.7	222.6	221.5	221.2
70.5°	228.5	221.8	218.4	215.7	214.3	214.2
71°	221.3	214.4	211.1	208.2	206.7	206.9
71.5°	214.3	207.2	203.9	201.1	199.2	199.4
72°	207.0	200.1	196.7	193.8	192.5	192.5
72.5°	199.8	193.0	189.6	186.7	185.3	185.4
73°	192.4	185.7	182.2	179.3	178.1	178.0
73.5°	185.4	178.4	175.1	172.2	170.6	170.8
74°	178.3	171.4	167.6	164.9	163.4	163.5
74.5°	171.1	164.1	160.7	157.7	156.1	156.2
75°	163.7	156.8	153.4	150.6	149.4	149.2
75.5°	156.6	149.7	146.3	143.3	141.7	142.1
76°	149.4	142.4	139.1	136.3	134.9	134.9
76.5°	142.4	135.3	131.8	129.2	127.9	127.8
77°	135.2	128.5	125.1	122.2	120.7	120.7
77.5°	128.2	121.5	118.1	115.5	114.1	114.1
78°	121.2	114.4	111.0	108.5	107.1	107.1
78.5°	114.2	107.6	104.5	101.6	100.4	100.2
79°	107.4	100.8	97.6	95.0	93.7	93.6
79.5°	100.5	94.0	90.8	88.1	86.9	86.9
80°	94.0	87.2	84.0	81.5	80.2	80.4
80.5°	87.3	80.8	77.7	75.0	73.8	73.9
81°	80.7	74.3	71.2	68.8	67.7	67.7
81.5°	74.2	68.2	65.2	62.7	61.5	61.6
82°	67.9	62.1	59.0	56.6	55.5	55.5
82.5°	62.0	56.2	53.3	51.1	49.9	49.9
83°	55.9	50.2	47.5	45.3	44.3	44.2
83.5°	50.0	44.6	42.0	39.9	38.9	39.0
84°	44.2	39.4	36.7	34.7	33.7	33.7
84.5°	39.0	34.2	31.9	30.0	29.0	29.0
85°	33.7	29.3	27.3	25.5	24.7	24.6
85.5°	28.8	25.0	22.8	21.2	20.4	20.3
86°	24.4	20.7	18.7	17.1	16.4	16.5
86.5°	20.5	16.7	14.6	13.0	12.4	12.4
87°	16.6	12.7	10.8	9.6	8.9	9.0
87.5°	12.8	9.2	7.9	6.9	6.5	6.6
88°	9.6	6.6	5.5	4.5	4.1	4.0
88.5°	6.6	4.2	3.4	2.9	2.5	2.4
89°	4.2	2.7	2.1	1.6	1.4	1.5
89.5°	2.2	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



TEST NUMBER: P869663
CATALOG NUMBER: SMX14RLSFSD2W-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)