

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: P869648

Luminaire Tested: **SMX14RLSFS010-2000LM-3500K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869648  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14RLSFS010-2000LM-3500K  
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

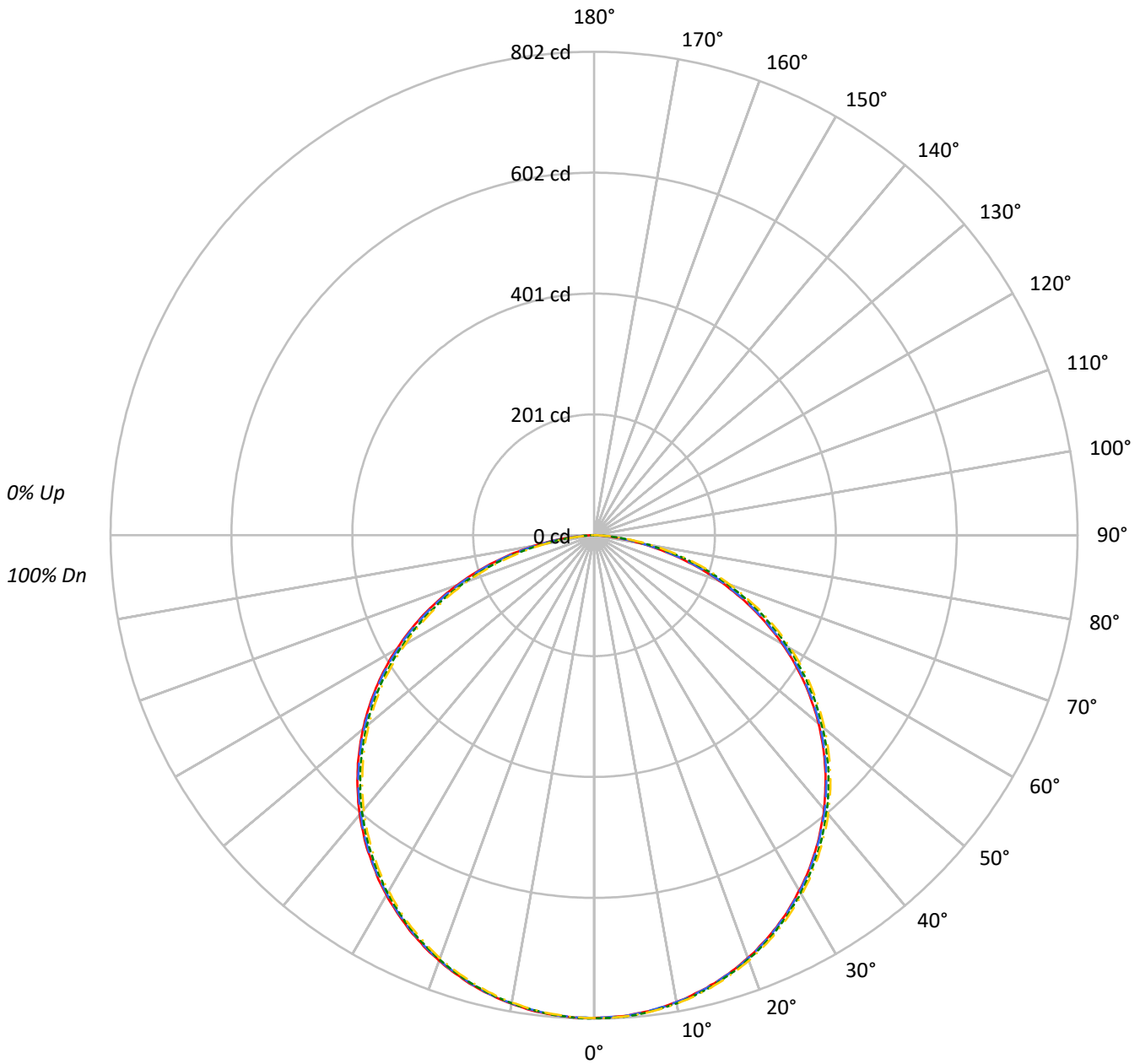
Lumens per Lamp: N/A  
 Luminaire Lumens: 2345.0 lumens  
 Efficiency: N/A  
 Efficacy: 89.8 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Circular (Dia: 1.17' x H: 0')  
 CIE Type: Direct

Input Watts (W): 26.1  
 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	50	30	10	0				
RCR																															
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100													
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84													
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69													
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58													
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49													
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43													
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37													
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33													
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29													
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26													
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	8060	8060	8060	8060
5°	8048	8068	8066	8066
10°	8035	8056	8061	8051
15°	8017	8041	8059	8042
20°	7990	8016	8046	8022
25°	7959	7996	8032	7997
30°	7906	7964	8006	7961
35°	7857	7929	7975	7918
40°	7795	7881	7942	7868
45°	7711	7823	7896	7795
50°	7606	7739	7839	7703
55°	7465	7637	7746	7586
60°	7254	7473	7612	7399
65°	6955	7246	7420	7134
70°	6497	6888	7114	6726
75°	5789	6330	6625	6085
80°	4654	5401	5830	5042
85°	2840	3856	4515	3372

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	3.2
10°-20°	217.8	9.3
20°-30°	331.8	14.1
30°-40°	403.3	17.2
40°-50°	422.9	18.0
50°-60°	387.1	16.5
60°-70°	298.2	12.7
70°-80°	168.7	7.2
80°-90°	39.4	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°	625.4	26.7
0°-40°	1028.7	43.9
0°-60°	1838.8	78.4
0°-90°	2345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2345.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	801	801	801	801	801	
5°	797	799	798	798	797	76
15°	770	772	774	772	770	217
25°	717	720	723	720	717	330
35°	640	645	649	644	640	400
45°	542	550	555	548	542	418
55°	426	435	442	432	426	380
65°	292	304	312	300	292	288
75°	149	163	170	156	149	157
85°	25	33	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°	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9
0.5°	800.5	800.3	800.4	801.2	801.4	801.7	801.1	800.8	800.6	800.4	800.6
1°	800.6	799.9	800.2	801.3	801.4	801.4	801.1	800.6	801.0	800.5	800.2
1.5°	800.3	800.1	800.0	800.6	801.2	801.3	801.1	800.9	801.2	800.1	800.3
2°	800.1	799.4	799.7	800.1	801.3	801.1	800.7	800.8	801.0	799.9	800.3
2.5°	799.4	799.3	799.8	800.4	800.7	800.8	800.5	800.5	800.7	799.9	800.0
3°	799.1	798.9	799.3	799.7	800.3	800.5	800.0	800.1	800.3	799.9	799.7
3.5°	799.0	798.5	799.1	799.3	800.3	800.3	799.9	799.9	799.7	799.5	799.3
4°	798.5	797.9	798.5	798.9	799.7	799.7	799.4	799.3	799.1	799.2	799.4
4.5°	797.6	797.1	797.8	798.0	799.0	799.2	798.9	799.0	798.7	798.7	798.3
5°	796.7	796.1	797.1	797.9	798.7	798.4	798.4	798.5	798.5	798.0	798.0
5.5°	795.8	795.3	796.4	796.5	797.7	797.8	797.6	797.6	797.7	797.6	797.4
6°	795.1	794.5	795.6	795.6	797.1	796.9	797.0	797.0	797.1	796.9	796.5
6.5°	794.5	793.8	794.9	794.9	796.1	796.2	796.6	796.4	796.3	796.3	795.7
7°	793.6	793.0	793.3	793.9	795.1	794.8	795.7	795.3	795.8	795.3	794.6
7.5°	792.8	792.0	792.2	792.9	794.0	793.9	794.5	794.3	795.1	794.4	793.5
8°	791.6	791.1	791.0	792.0	792.9	792.8	793.6	793.6	794.0	793.6	793.1
8.5°	790.3	789.8	790.5	791.0	792.0	791.7	792.2	792.2	792.4	792.4	791.8
9°	789.0	788.8	789.2	789.6	790.6	791.2	791.7	791.2	791.3	790.9	791.0
9.5°	787.5	787.4	787.8	788.6	789.5	789.5	790.1	790.0	790.5	790.1	789.5
10°	786.3	786.2	786.2	787.5	788.4	788.4	789.0	789.0	788.9	789.2	788.6
10.5°	784.8	785.0	785.3	786.0	787.0	787.2	787.4	787.8	788.0	787.8	787.2
11°	784.0	783.2	783.9	784.8	785.5	785.7	786.0	786.3	786.8	786.2	785.9
11.5°	781.9	781.6	782.9	783.0	784.1	784.1	785.1	785.0	785.4	784.6	784.3
12°	780.2	780.1	780.9	781.5	782.9	782.7	783.6	783.5	784.0	783.3	782.9
12.5°	778.2	778.7	779.2	779.8	780.8	781.5	781.6	782.3	781.8	782.2	781.5
13°	777.0	777.0	777.4	777.6	779.1	779.9	780.2	780.5	780.7	780.3	780.0
13.5°	775.0	775.0	775.8	776.4	777.5	778.1	778.5	778.8	779.1	778.2	778.3
14°	773.4	773.1	773.9	774.6	775.7	776.2	776.7	776.7	777.3	776.6	776.2
14.5°	770.9	771.1	771.8	773.1	773.7	774.2	775.1	775.4	775.5	775.3	774.5
15°	769.5	769.0	770.2	770.3	771.8	772.3	772.9	773.8	773.5	773.1	773.0
15.5°	767.2	766.9	767.7	768.5	769.7	770.2	771.0	771.6	771.8	771.2	770.6
16°	765.0	765.2	765.4	766.6	767.7	768.2	769.0	769.0	769.8	769.0	768.2
16.5°	763.0	763.2	763.2	764.4	765.2	765.8	766.8	766.8	767.6	767.1	766.2
17°	761.0	761.1	761.6	762.3	763.2	763.5	764.8	764.9	765.0	765.3	764.2
17.5°	758.6	758.7	759.4	760.5	760.8	761.8	762.8	762.8	763.2	762.6	762.3
18°	756.3	756.2	756.9	757.9	759.0	759.6	760.5	760.8	761.0	760.7	759.8
18.5°	753.7	753.5	754.6	755.1	756.3	757.2	757.8	758.3	758.4	758.5	757.7
19°	751.2	751.0	752.2	752.5	753.6	754.8	755.5	755.8	756.5	755.8	755.0
19.5°	748.5	748.6	749.5	750.5	751.3	751.9	753.5	753.5	753.4	753.8	752.5
20°	746.1	745.9	746.9	747.7	748.5	749.9	750.9	751.3	751.3	751.1	750.2
20.5°	743.5	743.1	744.1	745.4	746.0	747.2	748.2	748.8	748.5	748.6	747.8
21°	741.0	740.7	741.3	742.3	743.4	744.2	745.6	746.2	746.2	745.9	744.8
21.5°	738.0	737.6	738.7	739.8	740.9	741.9	742.9	743.6	743.8	743.1	742.3
22°	734.8	735.2	736.1	736.6	737.6	739.0	740.5	740.8	740.9	740.2	739.4

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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°	732.2	731.9	733.0	733.7	735.1	736.1	737.2	737.9	738.1	737.5	736.8
23°	729.2	729.0	729.6	731.2	732.2	733.1	734.6	735.4	734.8	734.8	733.7
23.5°	726.0	726.0	726.5	727.9	729.1	730.0	731.8	732.0	731.9	732.2	730.6
24°	722.9	722.9	723.8	724.7	726.3	727.5	729.0	729.2	729.1	729.3	727.8
24.5°	719.5	719.9	720.5	721.7	723.3	724.0	725.7	726.3	726.3	725.8	724.8
25°	716.8	716.4	717.6	718.4	720.1	721.0	722.6	723.1	723.4	723.1	721.5
25.5°	713.2	713.6	714.1	715.2	716.5	718.0	719.4	720.2	719.9	719.8	718.4
26°	709.8	710.3	710.6	712.1	713.6	715.1	716.0	716.8	716.4	716.8	715.4
26.5°	706.4	706.4	707.0	708.6	710.1	711.4	713.1	713.5	713.2	713.2	711.9
27°	703.4	703.2	704.0	704.8	707.3	707.8	709.6	710.4	709.8	710.0	708.2
27.5°	699.4	699.5	700.5	701.3	703.6	704.5	705.9	706.7	706.6	706.6	705.1
28°	695.6	695.9	697.0	698.0	699.7	701.4	702.8	703.4	703.2	703.1	701.6
28.5°	691.9	692.2	693.0	693.9	696.3	697.6	699.2	699.7	699.7	699.3	698.1
29°	688.3	688.9	689.4	690.6	692.6	693.9	695.8	696.3	696.3	695.7	694.6
29.5°	684.1	684.6	685.7	687.0	689.3	690.2	692.2	692.7	692.9	692.6	691.0
30°	680.4	680.8	681.7	683.4	685.4	686.7	688.6	689.1	689.0	688.9	687.1
30.5°	677.2	677.2	678.4	679.7	681.8	682.9	684.6	685.4	685.2	685.3	683.6
31°	673.2	673.9	674.0	675.5	678.4	678.9	680.7	682.1	681.3	681.5	679.9
31.5°	669.2	669.4	670.4	671.9	674.1	675.5	677.2	677.8	677.8	678.0	676.2
32°	665.4	665.6	666.5	667.9	670.2	671.6	673.8	674.2	674.3	674.3	672.2
32.5°	661.3	661.7	661.9	663.4	665.8	667.5	669.6	670.7	669.9	669.9	668.4
33°	656.9	657.8	657.9	659.5	662.1	663.1	665.4	666.3	665.4	665.9	664.4
33.5°	652.3	653.2	653.9	655.6	657.8	659.1	661.1	662.5	661.7	661.7	660.3
34°	648.4	649.1	649.4	651.4	654.0	655.3	657.1	658.4	657.6	657.7	656.1
34.5°	643.8	644.6	645.6	647.1	649.7	651.1	653.0	654.2	653.3	653.4	651.9
35°	639.6	640.3	641.3	642.6	645.4	646.7	648.9	649.6	649.2	649.2	647.9
35.5°	635.2	635.6	636.8	638.1	641.1	642.6	644.3	645.3	645.3	645.2	643.7
36°	630.9	631.2	632.0	633.7	636.7	638.3	640.4	641.2	641.2	640.7	639.2
36.5°	626.4	626.7	628.0	629.4	632.7	633.6	636.0	636.8	636.8	636.9	634.7
37°	621.9	622.1	623.1	624.8	628.0	629.5	631.5	632.7	632.3	632.3	630.7
37.5°	616.9	617.6	618.5	620.3	623.1	624.8	627.0	627.9	627.7	627.6	626.1
38°	612.0	613.1	614.1	615.6	618.7	620.7	622.8	623.4	622.9	622.7	621.7
38.5°	607.7	608.3	609.1	610.6	614.1	615.8	618.1	618.8	618.8	618.3	617.1
39°	603.0	603.2	604.5	606.1	609.1	610.9	613.5	614.5	614.2	613.8	612.1
39.5°	598.4	598.4	599.8	601.5	604.3	606.5	609.0	609.7	609.4	609.1	607.1
40°	593.4	594.1	595.0	596.8	599.9	602.0	603.8	605.1	604.6	604.5	602.4
40.5°	588.2	588.9	590.3	592.0	595.1	597.1	599.2	600.3	600.0	599.7	597.7
41°	583.3	584.4	585.3	587.3	590.4	592.5	594.3	595.5	595.4	594.8	593.1
41.5°	578.3	579.1	580.2	582.4	585.6	587.7	589.6	590.4	590.5	589.8	588.0
42°	573.3	574.1	574.9	577.3	580.4	582.5	584.5	585.5	585.3	584.9	583.2
42.5°	567.9	569.0	569.7	572.2	575.5	577.3	579.5	580.6	580.3	580.2	578.2
43°	562.7	563.7	564.6	566.9	570.4	572.5	574.7	575.9	575.3	574.9	573.3
43.5°	557.8	558.6	559.7	561.9	564.9	567.2	569.2	570.9	570.4	569.6	568.1
44°	552.8	553.1	554.2	556.5	559.9	562.2	564.4	565.4	565.1	564.6	563.1
44.5°	547.0	547.7	549.2	551.3	554.8	557.1	559.0	560.0	559.9	559.4	557.8

TEST NUMBER: P869648  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	541.8	542.4	543.9	546.2	549.7	551.7	553.8	554.9	554.8	554.4	552.5
45.5°	536.7	536.8	538.4	540.7	544.3	546.3	548.6	549.3	549.7	549.0	547.1
46°	531.1	531.6	532.8	535.4	538.6	540.9	543.4	544.3	544.5	544.0	542.1
46.5°	525.7	526.0	527.2	529.6	533.2	535.6	538.0	538.7	538.8	538.4	536.5
47°	520.1	520.6	522.0	524.4	527.6	530.2	532.6	533.4	533.5	532.8	531.0
47.5°	514.7	514.9	516.7	518.9	522.4	524.7	527.0	528.1	527.9	527.5	525.7
48°	508.9	509.3	511.2	513.2	517.0	519.2	521.7	522.7	522.6	521.9	520.5
48.5°	503.3	503.7	505.4	507.6	511.4	513.6	516.1	517.3	517.3	516.5	514.9
49°	497.7	497.9	499.7	502.0	505.7	507.9	510.7	511.7	511.6	510.9	509.3
49.5°	491.9	492.3	493.9	496.4	500.0	502.4	504.9	505.7	506.2	505.5	503.7
50°	485.8	486.4	488.1	490.5	494.3	496.9	499.5	500.5	500.7	500.0	497.6
50.5°	480.0	480.4	482.3	484.9	488.5	491.2	493.7	494.6	494.6	494.0	492.0
51°	474.2	474.6	476.3	478.9	482.9	485.3	487.7	489.0	489.1	488.0	486.5
51.5°	468.1	468.7	470.4	473.1	476.9	479.6	482.0	483.1	483.2	482.3	480.4
52°	462.1	462.7	464.3	467.1	471.3	473.8	476.5	477.7	477.3	476.4	474.9
52.5°	455.9	456.7	458.6	461.1	465.3	467.7	470.4	471.7	471.2	470.5	468.6
53°	450.1	450.8	452.7	455.1	459.3	461.9	464.5	465.8	465.5	464.8	462.8
53.5°	444.0	444.3	446.5	448.9	453.4	456.0	458.2	459.7	459.4	458.8	456.9
54°	437.8	437.9	440.0	442.6	447.4	449.7	452.4	453.8	453.3	453.0	450.7
54.5°	431.8	432.4	434.1	436.5	441.0	443.9	446.5	447.5	447.4	446.8	444.5
55°	425.5	426.1	427.9	430.8	435.3	437.9	440.5	441.9	441.5	440.7	438.5
55.5°	419.3	419.6	421.8	424.2	429.0	431.9	434.3	435.8	435.5	434.5	432.7
56°	412.9	413.3	415.4	418.1	423.0	425.4	428.4	429.8	429.2	428.3	426.3
56.5°	406.3	407.0	409.2	411.5	416.6	419.2	421.9	423.1	423.2	421.8	420.3
57°	399.8	400.6	402.6	405.0	410.1	413.1	415.9	417.3	416.8	415.8	413.9
57.5°	393.4	394.0	396.0	398.6	403.8	406.5	409.3	410.5	410.5	409.5	407.5
58°	387.3	387.7	389.5	392.4	397.4	400.3	403.2	404.3	404.0	403.0	401.1
58.5°	380.5	380.8	383.1	385.8	391.0	393.9	396.5	397.9	398.0	396.5	394.8
59°	373.9	374.7	376.5	379.4	384.6	387.5	390.2	391.5	391.6	389.9	388.2
59.5°	367.0	367.9	369.8	372.6	378.0	381.0	383.6	385.0	384.7	383.7	381.7
60°	360.4	361.2	363.5	366.3	371.3	374.5	377.2	378.5	378.2	377.1	375.1
60.5°	354.0	354.5	356.3	359.5	364.5	368.0	370.6	371.9	371.7	370.6	368.5
61°	347.5	348.1	350.0	353.2	357.9	361.4	364.2	365.4	365.1	363.8	362.3
61.5°	340.4	341.1	343.2	346.4	351.3	354.7	357.2	358.6	358.7	357.3	355.5
62°	333.5	334.5	336.6	339.4	345.2	348.4	350.9	352.2	352.1	350.9	349.0
62.5°	326.4	327.5	329.3	332.5	338.3	341.6	344.4	345.6	345.5	344.1	342.1
63°	319.7	320.8	322.7	325.8	331.5	334.9	337.5	338.9	338.7	337.5	335.5
63.5°	312.8	313.9	315.9	318.9	324.6	328.0	331.0	332.1	332.1	330.7	328.6
64°	305.7	306.9	309.1	312.1	317.7	321.4	323.9	325.0	325.1	323.8	322.0
64.5°	299.1	300.1	302.1	305.3	311.0	314.2	317.2	318.3	318.3	317.1	314.7
65°	292.1	293.1	295.4	298.5	304.3	307.7	310.6	311.6	311.6	310.4	308.4
65.5°	285.0	286.2	288.2	291.7	297.5	300.7	303.6	304.8	304.9	303.7	301.1
66°	277.9	279.0	281.1	284.3	290.3	293.8	296.5	297.8	297.6	296.6	294.3
66.5°	270.9	272.1	273.9	277.2	283.3	286.6	289.4	290.8	290.6	289.3	287.2
67°	264.2	264.9	267.0	270.3	276.3	279.7	282.4	283.8	283.7	282.6	280.1



TEST NUMBER: P869648  
 CATALOG NUMBER: SMX14RLSFS010-2000LM-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	256.7	257.9	260.1	263.3	269.3	272.5	275.4	276.9	277.0	275.6	273.1
68°	249.7	250.6	253.0	256.2	262.3	265.8	268.8	269.8	269.9	268.5	266.4
68.5°	242.4	243.5	245.7	249.1	255.4	258.8	261.5	262.9	262.9	261.5	259.5
69°	235.2	236.2	238.6	241.9	248.3	251.7	254.6	255.8	255.8	254.4	252.6
69.5°	228.0	229.0	231.5	234.5	241.2	244.8	247.6	248.8	248.9	247.4	245.0
70°	220.8	221.9	224.3	227.4	234.1	237.5	240.4	241.6	241.8	240.3	237.9
70.5°	213.7	214.7	217.1	220.6	227.2	230.3	233.3	234.7	234.7	233.4	230.8
71°	206.5	207.3	209.9	213.0	220.0	223.6	226.5	227.7	227.7	226.2	223.9
71.5°	199.0	200.2	202.5	205.8	212.7	216.4	219.2	220.5	220.6	219.1	216.5
72°	192.1	193.0	195.4	198.6	205.4	209.2	212.2	213.2	213.4	211.9	209.4
72.5°	185.0	186.0	188.4	191.7	198.3	202.0	204.9	206.3	206.4	204.8	202.3
73°	177.7	178.8	181.3	184.2	191.1	194.8	197.7	198.8	199.0	197.5	194.9
73.5°	170.4	171.4	173.9	177.1	184.2	187.8	190.7	191.9	192.0	190.5	188.0
74°	163.2	164.4	166.8	169.9	177.1	180.7	183.7	184.7	184.9	183.3	181.0
74.5°	155.9	157.1	159.6	162.7	169.8	173.5	176.5	177.7	177.8	176.4	173.6
75°	148.9	150.0	152.5	155.6	162.8	166.3	169.1	170.4	170.4	169.0	166.6
75.5°	141.8	142.9	145.4	148.7	155.5	159.1	162.0	163.4	163.3	161.8	159.3
76°	134.7	135.8	138.3	141.4	148.4	152.0	154.7	156.1	156.3	154.7	152.2
76.5°	127.5	128.8	131.2	134.3	141.4	145.1	147.7	149.0	149.1	147.6	144.9
77°	120.5	121.7	124.3	127.4	134.3	137.9	140.7	142.0	141.8	140.6	138.2
77.5°	113.8	115.0	117.4	120.6	127.3	130.9	133.8	134.9	135.0	133.5	131.0
78°	106.9	108.1	110.5	113.4	120.4	124.0	126.8	127.8	127.9	126.4	124.1
78.5°	100.0	101.2	103.7	107.0	113.3	116.8	119.8	120.9	121.0	119.5	117.0
79°	93.4	94.6	97.1	100.1	106.8	110.0	112.7	113.9	113.9	112.6	110.3
79.5°	86.7	87.8	90.3	93.4	99.9	103.4	106.2	107.3	107.3	106.0	103.3
80°	80.3	81.2	83.8	86.7	93.2	96.7	99.3	100.5	100.6	99.2	96.9
80.5°	73.7	74.9	77.2	80.2	86.7	90.1	92.8	93.9	93.9	92.5	89.9
81°	67.6	68.7	70.9	73.8	80.2	83.4	86.0	87.3	87.3	86.0	83.6
81.5°	61.4	62.7	64.8	67.7	73.8	76.9	79.5	80.7	80.6	79.2	76.9
82°	55.4	56.5	58.7	61.3	67.4	70.7	73.0	74.2	74.3	72.9	70.6
82.5°	49.8	50.9	53.0	55.6	61.4	64.6	66.9	68.0	68.0	66.7	64.5
83°	44.1	45.2	47.2	49.7	55.5	58.6	60.9	62.2	62.0	60.8	58.5
83.5°	38.9	39.8	41.8	44.1	49.7	52.5	54.9	56.1	56.0	54.6	52.6
84°	33.6	34.7	36.7	38.9	43.8	46.9	49.0	50.2	50.2	48.7	46.7
84.5°	28.9	29.9	31.6	33.9	38.6	41.2	43.5	44.5	44.4	43.2	41.3
85°	24.6	25.5	27.2	29.0	33.4	36.1	38.2	39.2	39.1	37.9	36.2
85.5°	20.2	20.9	22.7	24.7	28.6	31.0	32.9	33.8	33.8	32.7	30.9
86°	16.4	16.9	18.5	20.3	24.5	26.4	28.1	29.0	28.9	27.8	26.3
86.5°	12.4	13.1	14.6	16.4	20.4	22.4	24.0	24.8	24.8	23.8	22.1
87°	9.0	9.5	10.7	12.5	16.5	18.4	20.0	20.8	20.7	19.8	18.2
87.5°	6.5	6.7	7.8	9.1	12.9	14.7	16.2	16.8	16.7	15.9	14.5
88°	4.0	4.5	5.2	6.5	9.6	11.1	12.5	13.2	13.1	12.3	11.1
88.5°	2.4	2.7	3.3	4.2	6.6	8.1	9.2	9.8	9.7	9.0	7.9
89°	1.5	1.6	2.0	2.5	4.1	5.4	6.3	6.8	6.7	6.1	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: P869648  
CATALOG NUMBER: SMX14RLSFS010-2000LM-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: P869648  
 CATALOG NUMBER: SMX14RLSFS010-2000LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	800.9	800.9	800.9	800.9	800.9	800.9
0.5°	800.9	801.6	801.3	800.9	801.1	800.5
1°	800.9	801.6	801.1	800.7	800.9	800.6
1.5°	801.0	801.5	801.0	800.2	800.1	800.3
2°	800.6	801.1	800.6	800.3	800.1	800.1
2.5°	800.2	800.7	800.4	799.9	799.6	799.4
3°	799.9	800.0	800.2	799.6	799.7	799.1
3.5°	799.8	799.8	799.6	799.2	799.4	799.0
4°	799.4	799.3	798.9	798.1	797.9	798.5
4.5°	798.6	798.8	798.7	797.6	797.8	797.6
5°	797.9	798.5	797.8	797.0	796.6	796.7
5.5°	797.7	797.3	797.5	796.5	796.5	795.8
6°	796.8	796.6	796.4	795.6	795.8	795.1
6.5°	795.7	795.3	795.4	794.5	794.7	794.5
7°	794.7	794.6	794.5	793.8	793.9	793.6
7.5°	793.8	793.8	793.6	792.8	793.3	792.8
8°	792.7	792.5	792.5	791.8	792.4	791.6
8.5°	792.0	791.5	791.1	790.7	790.9	790.3
9°	791.1	790.7	790.4	789.2	789.5	789.0
9.5°	789.8	789.5	789.1	787.8	788.2	787.5
10°	788.3	787.9	787.6	787.0	786.9	786.3
10.5°	787.1	786.8	786.3	785.3	784.9	784.8
11°	785.8	785.3	784.9	784.1	783.4	784.0
11.5°	784.2	783.8	783.4	782.4	782.2	781.9
12°	782.7	782.3	781.8	780.9	780.8	780.2
12.5°	781.1	780.8	780.3	778.9	778.8	778.2
13°	779.2	779.4	778.5	777.5	777.3	777.0
13.5°	777.5	777.4	776.7	775.6	775.6	775.0
14°	776.0	775.5	775.3	773.7	773.3	773.4
14.5°	773.8	773.7	773.2	771.9	771.7	770.9
15°	772.1	771.9	771.2	769.9	769.5	769.5
15.5°	770.5	769.9	769.1	767.8	767.6	767.2
16°	768.2	767.9	766.8	765.5	765.4	765.0
16.5°	766.1	765.7	764.6	763.2	763.0	763.0
17°	764.1	763.4	762.3	761.3	761.0	761.0
17.5°	762.2	761.0	760.4	759.0	759.0	758.6
18°	759.6	758.9	757.4	756.6	756.2	756.3
18.5°	757.5	756.8	755.7	754.2	754.2	753.7
19°	755.0	754.2	753.1	751.9	751.3	751.2
19.5°	752.3	751.5	750.9	749.6	748.9	748.5
20°	750.0	749.1	748.0	746.8	746.5	746.1
20.5°	747.5	746.2	745.3	744.0	743.9	743.5
21°	744.6	743.7	742.6	741.4	740.6	741.0
21.5°	741.7	741.0	739.8	738.5	737.9	738.0
22°	738.9	738.1	736.8	735.5	734.5	734.8

TEST NUMBER: P869648  
 CATALOG NUMBER: SMX14RLSFS010-2000LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	735.9	735.0	734.0	732.4	732.0	732.2
23°	733.2	732.5	731.2	729.4	728.9	729.2
23.5°	730.2	729.5	728.5	726.5	726.1	726.0
24°	727.2	726.5	724.9	723.2	722.7	722.9
24.5°	724.4	723.1	722.0	719.9	719.5	719.5
25°	721.5	720.2	718.9	717.4	716.7	716.8
25.5°	718.2	717.2	715.4	713.9	713.5	713.2
26°	714.7	714.0	712.2	710.9	709.9	709.8
26.5°	711.1	710.1	708.7	707.1	706.6	706.4
27°	707.9	706.8	705.5	703.5	703.0	703.4
27.5°	705.0	703.1	701.8	700.2	699.5	699.4
28°	700.8	699.7	698.5	696.0	695.3	695.6
28.5°	697.5	696.2	694.7	692.6	691.5	691.9
29°	694.1	692.5	690.8	689.0	688.1	688.3
29.5°	690.5	688.8	687.2	685.1	684.4	684.1
30°	686.8	685.1	683.8	681.3	680.8	680.4
30.5°	682.9	681.4	679.9	677.8	676.9	677.2
31°	679.3	677.4	675.4	674.0	673.1	673.2
31.5°	675.6	673.0	671.8	670.2	669.2	669.2
32°	671.5	669.6	667.7	666.0	664.8	665.4
32.5°	667.6	665.4	664.0	661.8	660.9	661.3
33°	663.4	661.3	659.8	657.8	656.9	656.9
33.5°	659.3	657.0	655.4	653.5	652.5	652.3
34°	655.1	653.2	650.9	649.0	648.3	648.4
34.5°	651.2	648.6	646.8	644.8	643.6	643.8
35°	646.6	644.5	642.2	640.5	639.5	639.6
35.5°	642.6	640.2	638.5	636.3	635.1	635.2
36°	637.9	635.9	633.9	631.6	630.8	630.9
36.5°	633.9	631.1	629.1	627.0	626.0	626.4
37°	629.1	626.8	624.2	622.9	621.8	621.9
37.5°	625.2	622.5	620.4	618.5	617.2	616.9
38°	620.1	617.6	615.4	613.4	612.1	612.0
38.5°	615.6	612.9	610.5	608.5	607.7	607.7
39°	610.6	608.1	605.7	604.2	603.2	603.0
39.5°	606.3	603.2	601.3	599.2	598.2	598.4
40°	601.2	598.9	596.6	594.4	593.5	593.4
40.5°	596.8	594.0	591.5	589.6	588.8	588.2
41°	591.6	589.1	586.4	584.6	583.5	583.3
41.5°	587.2	583.9	581.4	579.4	578.2	578.3
42°	581.9	578.8	576.5	574.1	573.4	573.3
42.5°	576.8	573.8	571.5	569.1	568.1	567.9
43°	571.9	568.4	566.3	564.0	563.0	562.7
43.5°	566.7	563.4	561.5	558.8	558.0	557.8
44°	561.4	558.4	555.9	553.4	552.5	552.8
44.5°	556.5	553.0	550.7	548.3	547.1	547.0

TEST NUMBER: P869648  
 CATALOG NUMBER: SMX14RLSFS010-2000LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	551.1	547.7	545.3	543.1	541.9	541.8
45.5°	545.8	542.3	539.9	537.3	536.8	536.7
46°	540.3	537.2	534.4	532.3	531.1	531.1
46.5°	535.0	531.3	529.0	526.7	525.2	525.7
47°	529.7	526.1	523.3	521.3	519.7	520.1
47.5°	524.0	520.5	517.8	515.9	514.3	514.7
48°	518.5	514.9	512.3	510.2	508.8	508.9
48.5°	513.2	509.3	506.7	504.5	503.6	503.3
49°	507.6	503.9	501.1	498.6	497.7	497.7
49.5°	501.7	498.0	495.4	492.9	491.6	491.9
50°	496.0	492.0	489.4	487.3	486.0	485.8
50.5°	490.1	486.3	483.7	481.4	480.2	480.0
51°	484.3	480.6	477.8	475.4	474.5	474.2
51.5°	479.0	474.8	472.1	469.5	468.2	468.1
52°	472.9	468.8	466.2	463.8	462.2	462.1
52.5°	466.8	462.6	460.1	457.7	456.3	455.9
53°	460.8	456.6	454.1	451.5	450.0	450.1
53.5°	454.8	450.6	447.7	445.2	443.9	444.0
54°	448.6	444.3	441.7	439.2	437.7	437.8
54.5°	442.7	438.3	435.7	433.2	432.0	431.8
55°	436.6	432.4	429.3	426.9	425.7	425.5
55.5°	430.6	425.8	423.0	420.9	419.4	419.3
56°	424.3	419.5	417.0	414.3	412.8	412.9
56.5°	418.0	413.3	410.3	407.8	406.8	406.3
57°	411.6	407.0	404.1	401.4	399.9	399.8
57.5°	405.3	400.4	397.4	394.8	393.4	393.4
58°	398.8	394.0	391.0	388.4	387.0	387.3
58.5°	392.6	387.6	384.4	381.7	380.4	380.5
59°	386.1	380.9	377.7	375.1	373.9	373.9
59.5°	379.3	374.6	371.4	368.2	366.9	367.0
60°	372.7	367.6	364.5	361.7	360.5	360.4
60.5°	366.2	361.0	357.8	354.8	353.8	354.0
61°	359.5	354.3	351.2	348.7	347.2	347.5
61.5°	353.0	347.6	344.5	341.7	340.4	340.4
62°	346.5	340.8	337.8	334.9	333.6	333.5
62.5°	339.6	333.9	330.8	327.7	326.4	326.4
63°	332.9	327.1	323.9	321.1	319.9	319.7
63.5°	326.0	320.0	317.1	314.3	312.9	312.8
64°	319.2	313.3	310.2	307.6	306.2	305.7
64.5°	312.2	306.6	303.3	300.6	299.1	299.1
65°	305.6	299.6	296.2	293.6	292.1	292.1
65.5°	298.7	292.5	289.4	286.5	285.2	285.0
66°	291.5	285.6	282.2	279.1	277.9	277.9
66.5°	284.3	278.4	275.1	272.2	270.9	270.9
67°	277.5	271.6	268.1	265.4	263.8	264.2

TEST NUMBER: P869648  
 CATALOG NUMBER: SMX14RLSFS010-2000LM-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	270.9	264.4	260.9	258.4	256.5	256.7
68°	263.7	257.3	253.6	251.0	249.7	249.7
68.5°	256.5	250.2	246.6	243.6	242.3	242.4
69°	249.3	242.9	239.3	236.8	235.0	235.2
69.5°	242.3	235.8	232.2	229.3	227.8	228.0
70°	235.3	228.6	225.2	222.1	221.1	220.8
70.5°	228.0	221.4	217.9	215.2	213.8	213.7
71°	220.9	213.9	210.7	207.8	206.3	206.5
71.5°	213.8	206.8	203.4	200.6	198.8	199.0
72°	206.6	199.7	196.3	193.4	192.1	192.1
72.5°	199.4	192.6	189.2	186.3	184.9	185.0
73°	192.0	185.3	181.8	178.9	177.8	177.7
73.5°	185.0	178.1	174.7	171.8	170.2	170.4
74°	178.0	171.0	167.3	164.6	163.1	163.2
74.5°	170.7	163.8	160.3	157.3	155.8	155.9
75°	163.4	156.5	153.1	150.3	149.1	148.9
75.5°	156.3	149.4	146.0	143.0	141.4	141.8
76°	149.1	142.1	138.8	136.0	134.7	134.7
76.5°	142.1	135.1	131.5	128.9	127.6	127.5
77°	135.0	128.2	124.8	122.0	120.5	120.5
77.5°	127.9	121.3	117.8	115.2	113.8	113.8
78°	121.0	114.1	110.8	108.3	106.9	106.9
78.5°	113.9	107.4	104.2	101.4	100.2	100.0
79°	107.2	100.6	97.4	94.8	93.5	93.4
79.5°	100.3	93.8	90.6	87.9	86.7	86.7
80°	93.8	87.0	83.8	81.3	80.1	80.3
80.5°	87.1	80.7	77.6	74.8	73.6	73.7
81°	80.6	74.1	71.0	68.7	67.6	67.6
81.5°	74.0	68.1	65.1	62.5	61.3	61.4
82°	67.8	61.9	58.9	56.5	55.4	55.4
82.5°	61.8	56.1	53.2	51.0	49.8	49.8
83°	55.8	50.1	47.4	45.2	44.2	44.1
83.5°	49.9	44.5	41.9	39.8	38.8	38.9
84°	44.1	39.3	36.7	34.6	33.6	33.6
84.5°	38.9	34.1	31.8	29.9	28.9	28.9
85°	33.6	29.2	27.2	25.5	24.7	24.6
85.5°	28.7	25.0	22.8	21.2	20.3	20.2
86°	24.4	20.6	18.6	17.0	16.3	16.4
86.5°	20.4	16.6	14.6	13.0	12.4	12.4
87°	16.5	12.7	10.8	9.6	8.9	9.0
87.5°	12.8	9.2	7.9	6.8	6.4	6.5
88°	9.6	6.5	5.4	4.5	4.1	4.0
88.5°	6.5	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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869648  
CATALOG NUMBER: SMX14RLSFS010-2000LM-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)