

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: P869680

Luminaire Tested: **SMX14SLSFS010-2000LM-5000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P869680  
 Test Lab:  
 Issue Date: 8/29/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: SMX14SLSFS010-2000LM-5000K  
 Description: 14IN SQUARE, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT  
 Ballast/Driver: -

**Summary**

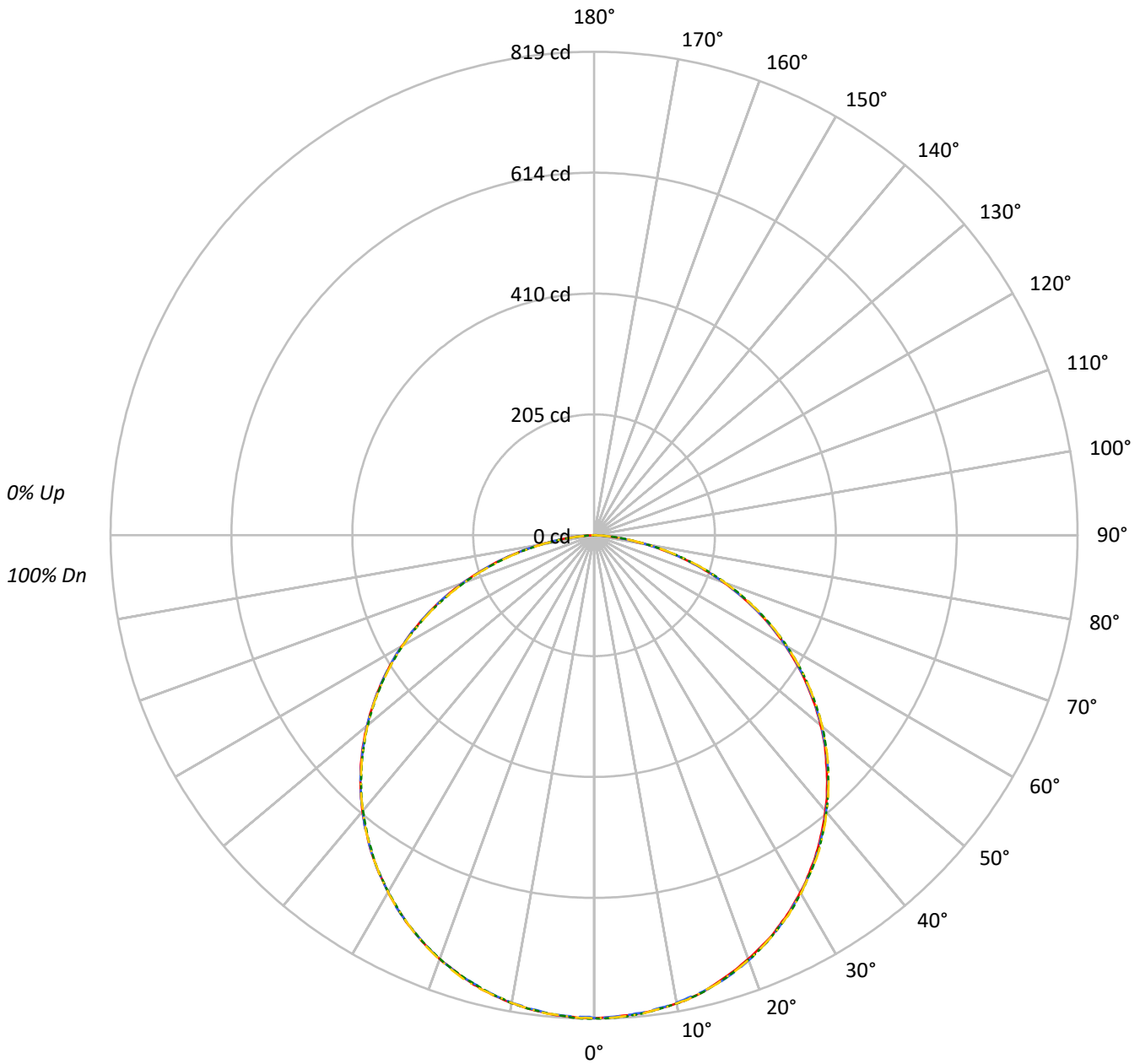
Lumens per Lamp: N/A  
 Luminaire Lumens: 2390.0 lumens  
 Efficiency: N/A  
 Efficacy: 93.0 lumens/watt  
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
 CIE Type: Direct

Input Watts (W): 25.7  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20										
RC	80					70					50					30					10					0					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	80	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	58	52	62	56	52	50													
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43													
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37													
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33													
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29													
9	56	43	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°	6465	6465	6465	6465
5°	6458	6468	6465	6463
10°	6464	6463	6459	6457
15°	6448	6455	6449	6436
20°	6421	6437	6426	6423
25°	6405	6415	6398	6399
30°	6375	6394	6370	6363
35°	6334	6359	6339	6326
40°	6286	6315	6298	6281
45°	6226	6269	6252	6226
50°	6164	6207	6175	6154
55°	6059	6106	6082	6062
60°	5921	5980	5950	5920
65°	5721	5786	5766	5708
70°	5389	5488	5474	5394
75°	4898	5011	5014	4904
80°	4101	4265	4247	4105
85°	2802	2965	2947	2811

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.4	3.2
10°-20°	222.4	9.3
20°-30°	338.7	14.2
30°-40°	411.3	17.2
40°-50°	431.0	18.0
50°-60°	394.1	16.5
60°-70°	303.5	12.7
70°-80°	171.6	7.2
80°-90°	39.9	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
<b>0°-30°</b>	<b>638.5</b>	<b>26.7</b>
<b>0°-40°</b>	<b>1049.9</b>	<b>43.9</b>
<b>0°-60°</b>	<b>1875.0</b>	<b>78.5</b>
<b>0°-90°</b>	<b>2390.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>2390.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	818	818	818	818	818	
5°	814	815	815	815	814	77
15°	788	789	788	787	788	222
25°	734	736	734	734	734	339
35°	656	659	657	656	656	411
45°	557	561	559	557	557	430
55°	440	443	441	440	440	393
65°	306	309	308	305	306	302
75°	160	164	164	161	160	170
85°	31	33	32	31	31	39
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°	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0
0.5°	817.6	819.0	816.9	817.8	818.6	818.1	818.2	818.1	817.7	818.6	815.9
1°	817.6	819.2	817.3	817.4	818.6	817.9	817.8	817.6	817.9	817.9	816.1
1.5°	817.2	818.4	816.9	817.0	818.5	817.6	818.3	817.1	817.5	818.0	816.2
2°	817.1	818.2	816.5	817.1	818.2	817.2	818.0	816.9	817.7	818.2	816.1
2.5°	816.7	818.1	816.4	816.3	818.3	817.5	817.6	816.7	816.9	818.0	815.9
3°	815.6	817.8	815.6	816.0	817.5	817.0	817.2	816.6	816.5	817.2	815.7
3.5°	815.2	817.0	815.7	815.7	817.2	816.2	816.5	816.2	816.1	817.1	815.4
4°	815.1	816.2	814.8	814.8	817.1	816.1	816.1	816.1	815.7	816.3	815.2
4.5°	814.6	815.9	814.3	814.5	815.9	815.5	815.6	815.2	815.6	816.7	814.1
5°	814.0	815.4	813.3	814.3	815.2	815.0	815.4	814.5	814.8	815.6	813.9
5.5°	813.6	814.5	813.1	813.5	814.5	814.4	815.0	813.4	814.0	814.7	813.3
6°	813.1	813.7	812.4	812.9	813.9	813.1	813.9	812.9	813.1	813.6	812.6
6.5°	812.5	813.5	811.3	812.0	813.1	811.8	813.1	812.3	812.0	812.8	811.3
7°	811.5	812.5	810.6	811.2	812.0	811.3	811.4	811.0	811.5	811.7	810.3
7.5°	810.6	811.2	809.2	809.9	810.9	810.2	810.6	810.0	810.4	811.0	809.4
8°	809.2	810.1	808.4	809.0	809.8	809.1	809.8	809.1	809.5	810.0	808.2
8.5°	808.4	809.2	808.1	807.7	808.7	808.4	808.8	807.4	808.4	808.4	806.8
9°	807.6	808.3	806.7	806.8	807.6	807.0	808.1	806.2	807.2	807.6	805.7
9.5°	806.5	806.8	805.3	805.6	806.5	805.4	806.5	805.2	805.7	806.8	804.8
10°	805.4	804.9	804.0	804.5	805.3	804.9	805.4	804.1	804.8	805.3	804.1
10.5°	804.4	804.0	802.4	803.1	804.9	803.4	803.9	802.7	803.1	803.8	802.5
11°	803.1	802.2	801.5	802.0	803.3	802.2	803.1	801.0	801.8	802.9	800.7
11.5°	801.7	801.0	799.5	800.1	801.8	801.2	802.1	799.6	800.0	800.7	799.4
12°	799.9	800.0	798.2	799.2	800.1	799.4	799.7	797.8	798.8	798.8	798.0
12.5°	798.3	798.7	797.2	797.4	798.9	798.4	798.1	796.4	797.2	797.2	796.1
13°	796.8	797.2	795.5	795.9	796.9	796.5	796.5	794.9	795.2	795.6	794.2
13.5°	794.9	795.6	794.3	793.5	795.3	794.1	793.8	792.9	793.9	794.3	792.6
14°	792.8	793.6	792.4	791.8	793.3	792.6	792.2	790.7	792.3	792.3	790.3
14.5°	790.3	791.5	790.7	789.7	791.0	790.7	790.9	788.8	789.6	790.7	788.0
15°	788.0	789.8	789.2	788.3	788.9	789.2	789.3	786.2	788.2	788.8	786.7
15.5°	785.6	787.8	787.6	785.6	787.0	787.0	787.1	784.3	785.7	786.8	784.5
16°	783.3	784.9	785.4	783.4	784.4	784.4	784.3	783.0	783.3	784.2	782.8
16.5°	781.0	782.3	783.1	781.6	782.7	782.3	782.0	781.0	781.2	781.9	780.9
17°	778.8	779.9	781.2	778.9	780.2	779.8	779.9	778.9	778.9	779.2	778.7
17.5°	776.3	777.4	778.9	776.1	777.6	777.4	777.9	776.4	776.1	777.2	776.4
18°	774.0	774.5	776.7	774.1	775.3	775.3	775.6	773.8	773.5	774.3	773.7
18.5°	771.5	772.3	774.5	771.9	773.2	772.6	773.0	772.0	771.1	772.3	771.2
19°	768.8	769.4	771.7	769.2	770.3	770.6	770.7	769.7	768.8	769.8	769.0
19.5°	766.3	766.8	769.1	766.2	767.7	768.2	768.0	766.8	766.9	767.3	766.9
20°	763.4	764.5	766.1	763.8	765.3	765.7	765.6	764.5	764.0	764.7	764.0
20.5°	761.1	762.3	763.7	761.0	763.1	763.4	763.0	761.6	761.6	761.7	761.7
21°	758.3	758.9	761.1	758.7	760.4	760.2	760.2	759.4	758.7	759.1	758.5
21.5°	755.4	756.3	758.0	755.5	757.3	756.9	756.8	756.4	755.6	756.2	755.5
22°	752.8	753.4	753.9	752.9	754.5	753.6	754.2	754.2	753.0	753.0	752.5

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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°	750.1	750.9	751.9	750.2	751.6	750.6	751.4	750.8	749.9	749.9	749.3
23°	747.2	747.9	748.8	746.9	748.8	747.7	748.4	747.4	747.2	746.7	745.8
23.5°	744.6	745.1	745.8	744.1	745.6	745.0	745.4	744.3	743.5	743.6	743.5
24°	741.7	741.9	742.2	741.1	742.4	742.2	742.5	741.3	740.5	741.1	740.2
24.5°	738.3	738.7	739.4	737.8	739.4	739.3	739.8	738.5	737.2	738.5	737.3
25°	734.4	735.8	736.3	734.4	735.6	736.0	736.3	735.3	733.7	734.6	733.9
25.5°	731.2	732.6	732.7	731.1	732.7	732.6	732.6	731.4	731.1	731.1	731.0
26°	727.2	728.9	729.1	727.2	729.5	729.4	729.6	728.2	727.7	728.5	727.8
26.5°	724.4	725.5	726.0	724.1	726.4	725.7	726.1	724.2	723.8	724.5	723.8
27°	721.0	722.4	721.9	721.2	723.2	722.2	723.2	721.3	720.3	720.9	720.8
27.5°	717.5	718.6	718.6	717.7	719.3	718.6	719.7	717.9	717.3	717.7	716.8
28°	713.7	714.6	714.8	714.0	715.8	715.4	715.5	714.1	713.3	714.4	713.7
28.5°	709.9	710.9	710.9	711.1	712.3	711.5	711.9	710.9	709.2	710.9	709.9
29°	706.0	707.4	707.7	707.1	708.0	707.6	708.0	707.1	705.2	707.2	705.5
29.5°	702.4	703.4	703.7	703.6	704.2	703.9	704.6	703.0	701.9	703.8	701.6
30°	698.5	699.4	699.8	699.6	700.6	700.4	700.8	699.4	698.0	699.2	697.6
30.5°	694.6	695.6	696.3	696.3	696.6	696.7	696.7	695.6	694.0	695.2	693.9
31°	691.1	691.5	691.7	692.6	692.4	692.8	692.3	691.7	689.9	691.5	690.2
31.5°	686.9	687.8	688.0	688.5	688.2	688.6	688.5	687.4	685.8	687.1	686.2
32°	682.4	683.9	684.0	684.1	683.9	684.6	684.5	683.2	681.7	683.0	682.2
32.5°	678.4	679.9	680.3	680.6	680.6	680.7	681.0	679.6	678.3	679.5	677.9
33°	673.6	675.6	675.6	676.3	676.5	676.3	676.6	675.4	674.1	675.5	674.1
33.5°	669.8	671.5	671.9	672.1	672.2	671.6	672.6	671.1	669.9	671.5	669.8
34°	665.6	667.5	667.4	667.9	667.9	667.5	668.6	666.4	665.4	666.5	665.5
34.5°	661.3	662.5	663.0	663.5	663.7	663.4	664.7	661.8	661.3	662.1	661.6
35°	656.5	657.2	658.3	658.9	659.1	659.3	660.5	658.1	657.0	657.5	656.9
35.5°	652.5	653.0	653.8	654.1	655.1	655.2	655.9	653.4	652.8	652.9	652.4
36°	647.9	648.6	649.0	649.8	650.4	650.1	651.4	648.8	648.0	648.4	647.9
36.5°	643.0	644.8	644.5	645.3	645.9	645.2	646.8	644.2	643.2	643.7	642.7
37°	637.9	639.7	640.2	640.7	641.2	641.1	642.2	639.0	638.3	639.3	638.6
37.5°	633.5	635.4	635.9	636.1	636.2	636.2	637.1	634.9	633.7	634.6	634.1
38°	628.8	630.9	631.0	631.1	631.7	631.2	632.0	630.3	629.6	630.2	629.6
38.5°	624.0	625.7	626.0	626.1	626.7	626.2	627.4	625.5	624.9	625.2	625.1
39°	619.2	621.2	621.0	621.3	622.0	621.5	622.7	620.5	620.2	620.3	619.8
39.5°	614.3	616.0	616.1	615.9	617.1	617.6	617.4	615.8	615.6	615.3	614.9
40°	609.3	610.6	611.1	611.1	612.1	612.9	612.6	611.5	610.4	610.6	610.2
40.5°	604.6	606.1	606.3	605.8	607.0	607.9	608.1	606.6	605.4	605.7	605.1
41°	599.4	601.1	601.3	601.0	602.5	602.9	602.8	601.6	600.0	600.7	600.2
41.5°	594.8	595.9	596.5	595.6	597.4	598.3	598.2	596.6	595.6	595.7	595.5
42°	589.4	590.6	591.3	590.6	591.8	592.9	592.7	591.7	591.1	590.3	590.3
42.5°	583.9	585.4	586.4	585.3	586.9	587.7	587.3	586.5	585.6	584.9	585.1
43°	578.7	580.1	581.3	580.1	581.9	582.3	582.1	581.1	580.2	579.6	580.0
43.5°	573.3	575.1	575.7	574.9	576.7	576.7	577.0	575.9	575.1	574.3	574.5
44°	567.9	569.7	570.4	569.8	571.3	571.5	571.7	570.7	569.6	569.0	569.3
44.5°	562.7	564.1	565.0	564.1	566.1	566.4	566.4	565.4	564.4	563.8	563.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	557.0	558.9	559.8	558.9	560.9	561.2	560.7	560.0	559.3	558.7	558.1
45.5°	551.2	553.3	554.6	553.5	555.7	555.8	555.1	554.8	553.7	553.2	552.5
46°	546.0	548.4	548.7	548.3	550.0	550.0	549.9	549.1	547.9	547.4	547.3
46.5°	541.1	542.7	543.0	542.8	544.4	544.5	544.7	543.3	542.4	542.5	541.6
47°	535.7	537.0	537.3	537.2	538.7	538.9	539.1	537.5	537.0	536.6	536.0
47.5°	530.4	531.8	531.5	531.3	533.0	533.6	533.1	531.9	531.4	530.9	530.1
48°	524.4	525.9	525.6	525.8	527.4	528.1	527.6	526.5	525.4	525.5	524.4
48.5°	518.5	520.1	520.1	519.8	521.9	521.9	521.9	520.9	519.5	519.7	519.0
49°	512.7	514.4	514.2	514.2	516.4	516.2	516.0	515.0	514.2	514.1	513.3
49.5°	507.0	508.7	508.5	508.2	510.6	510.1	510.3	509.6	508.2	508.7	507.4
50°	501.3	502.7	502.7	502.3	504.8	504.8	504.5	503.4	502.2	502.6	501.9
50.5°	494.8	496.9	496.8	496.5	498.8	498.7	498.6	497.7	496.3	496.6	496.0
51°	489.0	490.6	490.5	490.3	492.6	492.6	492.9	491.5	490.4	490.7	490.4
51.5°	483.0	484.7	484.8	484.5	486.7	486.5	486.9	485.4	484.3	484.7	483.8
52°	477.1	478.9	478.6	478.5	480.4	480.8	480.9	479.3	477.8	478.6	477.8
52.5°	470.9	472.5	472.5	472.5	474.6	474.9	474.6	473.3	472.1	473.0	471.8
53°	464.7	466.5	466.2	466.0	468.2	468.6	468.2	467.1	466.4	466.8	466.0
53.5°	458.4	460.2	460.0	459.7	461.9	462.1	461.8	461.4	460.2	461.1	459.7
54°	452.1	453.4	453.6	453.3	455.7	455.9	455.7	455.2	453.7	454.5	453.7
54.5°	445.5	447.0	447.5	447.3	449.6	449.6	449.4	448.5	447.4	448.0	447.7
55°	439.7	441.1	440.6	441.3	443.1	443.3	443.3	442.4	441.4	441.8	441.6
55.5°	433.7	434.7	434.6	434.7	436.7	437.3	436.5	435.7	435.1	436.0	435.2
56°	427.1	428.5	428.0	428.6	430.4	431.1	431.0	429.8	429.0	429.5	428.9
56.5°	420.8	421.9	421.8	422.1	424.1	424.7	424.6	423.2	422.3	423.0	422.2
57°	414.0	415.1	415.3	415.8	417.7	418.4	418.0	416.9	415.6	416.5	415.9
57.5°	407.2	408.5	408.8	409.1	411.2	411.4	411.5	410.3	409.4	410.0	409.7
58°	401.0	402.0	402.2	402.3	404.4	405.1	404.4	404.1	402.8	403.2	403.5
58.5°	394.3	395.6	395.7	395.7	398.0	398.8	397.4	397.4	396.3	396.7	396.9
59°	387.5	389.2	388.5	388.7	391.7	391.7	391.1	390.7	389.9	390.4	390.1
59.5°	380.9	382.1	381.8	382.1	385.1	384.8	384.5	384.0	382.9	383.8	383.4
60°	374.6	375.3	374.9	375.2	378.3	378.2	377.9	377.8	376.4	377.0	376.7
60.5°	368.3	368.5	368.4	368.1	371.5	371.5	370.7	370.7	369.1	370.1	369.9
61°	361.0	361.5	361.7	361.3	364.5	365.2	364.0	364.4	362.9	363.3	363.0
61.5°	354.2	354.9	355.2	354.3	357.6	358.3	357.2	357.4	356.3	356.9	356.2
62°	347.4	348.0	348.4	348.0	351.0	351.5	351.1	350.8	349.7	350.1	350.0
62.5°	340.6	340.8	341.5	340.8	343.7	344.4	343.9	343.8	342.6	343.1	342.8
63°	333.4	333.8	334.6	334.2	336.8	337.8	337.1	337.0	335.8	336.2	335.7
63.5°	326.6	327.2	327.5	327.2	330.0	330.9	330.3	330.3	329.2	329.3	329.1
64°	319.5	320.2	320.5	320.3	323.3	323.9	323.4	322.9	322.2	322.4	321.9
64.5°	312.9	313.6	313.8	313.2	316.2	316.4	316.1	315.7	315.2	315.2	315.0
65°	305.9	306.5	306.4	306.3	309.4	310.0	309.5	308.9	308.3	308.6	308.3
65.5°	298.8	299.2	299.3	298.8	302.8	302.4	302.1	301.6	301.0	301.6	301.4
66°	291.7	292.1	292.1	291.6	295.4	295.2	294.4	294.4	293.8	294.6	294.3
66.5°	284.2	284.9	284.5	284.5	288.1	288.0	287.7	287.3	287.0	287.6	286.9
67°	276.8	277.4	277.5	277.4	280.7	281.2	280.6	280.4	279.8	280.2	280.1



TEST NUMBER: P869680  
 CATALOG NUMBER: SMX14SLSFS010-2000LM-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	269.8	270.4	270.3	270.2	273.5	273.9	273.3	273.1	272.8	273.2	272.8
68°	262.5	263.2	263.0	263.2	266.5	267.0	266.3	266.0	266.2	266.1	265.6
68.5°	255.4	255.9	255.9	255.8	259.4	259.8	259.1	258.8	259.1	259.0	258.3
69°	248.2	248.7	248.6	248.3	252.4	252.6	251.9	251.6	251.6	251.5	250.7
69.5°	240.6	241.2	241.4	241.1	244.9	245.3	244.7	244.1	244.2	244.2	243.7
70°	233.2	234.1	233.9	233.6	237.5	237.9	237.1	236.7	236.9	237.1	236.3
70.5°	226.0	226.7	226.1	226.5	230.4	230.8	230.0	229.8	230.0	229.7	229.3
71°	218.8	219.2	218.9	219.0	223.0	223.5	222.3	222.6	222.4	222.4	222.0
71.5°	211.7	212.0	211.6	211.4	215.6	215.8	215.3	215.1	215.4	214.9	214.6
72°	204.4	204.6	204.3	204.1	208.2	208.6	208.0	208.0	208.2	207.7	207.3
72.5°	196.7	197.6	197.3	196.5	201.0	201.2	200.9	200.5	200.8	200.4	200.0
73°	189.6	190.1	189.8	189.6	193.7	194.0	193.6	193.4	193.4	193.2	192.8
73.5°	182.4	182.9	182.4	182.4	186.6	187.0	186.8	186.3	186.2	186.0	185.8
74°	174.9	175.3	175.2	175.1	179.2	179.7	179.6	178.9	179.0	178.6	178.4
74.5°	167.7	168.4	167.8	167.9	171.9	172.4	171.8	171.7	171.6	171.6	171.3
75°	160.4	160.9	160.7	160.4	164.1	164.7	164.6	164.3	164.2	164.2	164.1
75.5°	153.2	153.3	153.2	153.0	156.9	157.5	157.1	157.1	157.0	157.0	156.9
76°	146.0	146.2	146.0	146.1	149.6	150.3	149.6	149.8	149.8	149.6	149.5
76.5°	138.6	138.9	139.0	138.6	142.6	142.8	142.5	142.7	142.6	142.5	142.6
77°	131.5	131.7	131.4	131.5	135.3	135.9	135.6	135.4	135.3	135.5	135.5
77.5°	124.4	124.9	124.6	124.6	128.0	128.5	128.2	128.3	128.2	128.4	128.4
78°	117.3	117.7	117.3	117.5	121.1	121.4	121.2	121.0	120.7	121.3	121.2
78.5°	110.5	110.7	110.4	110.6	114.4	114.4	114.4	114.0	113.7	114.2	114.3
79°	103.6	103.8	103.5	104.0	107.6	107.8	107.4	107.3	106.9	107.4	107.2
79.5°	96.7	97.0	96.8	97.0	100.8	100.7	100.4	100.4	100.1	100.6	100.6
80°	90.1	90.2	90.1	90.0	93.7	93.9	93.4	93.4	93.3	93.8	93.7
80.5°	83.4	83.5	83.4	83.2	86.9	87.4	87.0	86.9	86.6	87.1	87.2
81°	77.0	77.1	76.9	76.4	80.2	80.6	80.4	80.1	80.2	80.5	80.6
81.5°	70.5	70.6	70.4	70.1	73.7	74.0	73.7	73.6	73.6	74.0	74.1
82°	64.4	64.4	64.3	63.8	67.4	67.6	67.4	67.1	67.1	67.5	67.8
82.5°	58.3	58.4	58.1	57.8	61.4	61.6	61.4	61.2	61.1	61.5	61.9
83°	52.2	52.4	52.1	51.6	55.3	55.4	55.4	55.0	55.0	55.5	55.9
83.5°	46.4	46.6	46.3	46.1	49.0	49.4	49.1	49.1	49.1	49.4	49.8
84°	41.0	41.2	40.9	40.4	43.4	43.5	43.5	43.3	43.2	43.6	44.0
84.5°	35.9	35.9	35.8	35.4	38.0	38.4	38.0	37.9	37.8	38.1	38.5
85°	30.9	30.8	30.8	30.3	32.7	32.9	32.8	32.6	32.5	32.8	33.1
85.5°	26.3	26.3	26.3	25.9	27.7	27.8	27.7	27.7	27.6	27.8	28.2
86°	21.9	21.9	21.8	21.4	23.7	23.7	23.7	23.5	23.5	23.9	24.1
86.5°	17.7	17.8	17.7	17.4	19.7	19.7	19.8	19.5	19.6	19.9	20.0
87°	13.8	13.8	13.9	13.5	15.7	15.8	15.9	15.6	15.6	15.8	16.0
87.5°	10.1	10.0	10.0	9.7	12.0	12.0	12.0	11.9	11.8	12.1	12.3
88°	7.0	7.1	7.0	6.8	8.8	8.8	8.8	8.7	8.7	8.9	9.1
88.5°	4.7	4.8	4.7	4.5	5.9	6.2	5.9	5.8	5.7	6.0	6.1
89°	2.9	3.0	3.0	2.9	3.5	3.7	3.5	3.5	3.3	3.6	3.7
89.5°	1.6	1.6	1.6	1.5	1.7	1.8	1.7	1.5	1.4	1.6	1.7

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



TEST NUMBER: P869680  
CATALOG NUMBER: SMX14SLSFS010-2000LM-5000K

**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: P869680  
 CATALOG NUMBER: SMX14SLSFS010-2000LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	818.0	818.0	818.0	818.0	818.0	818.0
0.5°	817.3	819.1	818.4	818.0	817.8	817.6
1°	817.1	818.8	819.1	817.6	817.3	817.6
1.5°	817.4	819.1	818.5	818.1	816.7	817.2
2°	816.7	818.3	817.9	817.6	817.0	817.1
2.5°	817.0	817.9	817.4	816.9	817.4	816.7
3°	816.5	816.9	816.6	816.6	817.0	815.6
3.5°	815.7	816.1	816.6	815.8	816.7	815.2
4°	815.6	815.7	816.5	815.0	815.8	815.1
4.5°	814.9	815.0	815.4	814.7	815.4	814.6
5°	813.6	814.6	814.3	814.4	814.3	814.0
5.5°	812.8	813.8	813.8	814.5	813.7	813.6
6°	811.5	812.9	812.5	813.4	813.0	813.1
6.5°	811.1	811.8	811.7	812.8	811.7	812.5
7°	810.2	810.9	810.6	811.3	810.6	811.5
7.5°	810.1	810.3	809.9	810.1	810.3	810.6
8°	808.5	809.6	808.4	809.2	808.9	809.2
8.5°	807.3	808.5	807.9	808.3	807.4	808.4
9°	805.9	807.0	806.9	806.8	806.5	807.6
9.5°	804.3	806.1	805.2	805.5	805.2	806.5
10°	803.6	804.6	803.6	804.2	804.3	805.4
10.5°	802.0	803.1	802.6	802.9	803.5	804.4
11°	800.5	801.0	801.6	801.3	801.8	803.1
11.5°	799.0	799.3	800.4	799.1	800.5	801.7
12°	797.4	798.0	798.9	797.9	799.0	799.9
12.5°	796.0	796.4	797.2	797.1	798.4	798.3
13°	794.6	794.7	795.5	795.1	796.4	796.8
13.5°	792.8	792.7	793.3	793.8	794.4	794.9
14°	791.1	790.3	791.1	792.7	792.7	792.8
14.5°	788.7	788.3	788.6	790.4	790.3	790.3
15°	787.0	786.6	786.4	788.8	788.0	788.0
15.5°	784.7	784.5	784.5	787.2	786.0	785.6
16°	782.8	782.5	782.1	785.4	783.0	783.3
16.5°	780.6	780.3	780.3	783.1	781.1	781.0
17°	778.2	778.0	778.0	780.4	778.7	778.8
17.5°	775.9	776.0	775.4	777.9	776.0	776.3
18°	773.5	773.6	773.4	775.7	773.9	774.0
18.5°	771.3	771.4	771.0	772.7	771.0	771.5
19°	769.0	769.0	768.6	770.2	768.1	768.8
19.5°	766.1	766.4	766.6	767.4	765.7	766.3
20°	763.6	763.6	764.6	764.6	763.3	763.4
20.5°	760.7	760.9	762.0	762.0	761.1	761.1
21°	758.0	757.9	759.2	759.5	758.4	758.3
21.5°	755.2	755.1	756.8	756.5	756.2	755.4
22°	752.6	752.6	754.4	753.5	753.1	752.8

TEST NUMBER: P869680  
 CATALOG NUMBER: SMX14SLSFS010-2000LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	749.2	749.4	751.1	750.4	750.2	750.1
23°	746.5	746.5	747.6	747.0	747.1	747.2
23.5°	743.9	743.4	745.3	744.2	744.3	744.6
24°	740.7	740.1	742.3	740.5	740.6	741.7
24.5°	737.4	736.9	738.1	737.8	737.4	738.3
25°	733.8	733.8	734.9	734.0	733.8	734.4
25.5°	730.5	730.5	731.4	730.8	730.5	731.2
26°	726.6	727.1	727.4	727.0	726.9	727.2
26.5°	723.3	723.4	724.1	723.3	723.3	724.4
27°	719.9	719.9	720.8	719.9	719.9	721.0
27.5°	716.9	716.3	717.5	716.3	716.3	717.5
28°	713.1	712.4	713.9	712.7	712.5	713.7
28.5°	709.5	708.5	710.3	709.6	709.3	709.9
29°	705.6	705.0	706.8	705.5	705.2	706.0
29.5°	701.7	700.8	703.3	701.9	701.5	702.4
30°	697.8	697.2	699.4	697.9	697.2	698.5
30.5°	693.7	693.8	695.3	693.4	693.2	694.6
31°	689.5	689.5	690.6	689.7	689.3	691.1
31.5°	685.7	685.6	686.2	685.9	685.3	686.9
32°	681.8	681.9	681.9	681.6	681.0	682.4
32.5°	678.0	677.4	678.1	678.1	677.2	678.4
33°	673.8	673.8	673.7	673.7	672.9	673.6
33.5°	669.6	669.4	670.0	669.3	668.9	669.8
34°	665.1	665.0	665.1	665.5	664.2	665.6
34.5°	661.1	660.3	660.9	661.3	660.0	661.3
35°	657.0	655.6	656.1	656.9	655.8	656.5
35.5°	652.5	650.9	651.6	652.4	651.4	652.5
36°	647.7	646.7	647.1	647.6	646.7	647.9
36.5°	643.2	642.1	642.4	642.8	642.5	643.0
37°	638.6	637.6	637.8	638.1	637.9	637.9
37.5°	634.1	632.5	633.1	633.9	633.4	633.5
38°	629.6	627.5	628.4	629.0	629.1	628.8
38.5°	625.1	622.7	624.0	623.7	624.0	624.0
39°	620.3	618.3	619.2	619.1	619.0	619.2
39.5°	615.4	613.5	614.5	614.2	614.2	614.3
40°	610.3	608.8	609.6	609.3	609.0	609.3
40.5°	605.0	604.1	604.4	604.2	604.4	604.6
41°	600.1	599.8	599.7	599.6	599.4	599.4
41.5°	594.9	594.4	594.8	594.8	595.1	594.8
42°	589.8	589.2	589.5	589.7	590.3	589.4
42.5°	584.7	583.7	584.6	584.4	584.2	583.9
43°	579.5	578.5	578.9	579.1	578.7	578.7
43.5°	574.7	573.1	574.2	573.6	573.5	573.3
44°	569.2	567.5	569.0	568.1	568.0	567.9
44.5°	564.1	562.6	563.3	562.8	563.5	562.7

TEST NUMBER: P869680  
 CATALOG NUMBER: SMX14SLSFS010-2000LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	558.6	557.0	557.9	557.5	557.7	557.0
45.5°	553.4	551.5	552.4	552.0	551.6	551.2
46°	547.7	546.1	546.8	546.7	546.0	546.0
46.5°	542.0	540.3	541.7	541.0	540.4	541.1
47°	536.4	534.4	536.4	535.6	535.2	535.7
47.5°	530.7	528.7	530.7	529.8	530.1	530.4
48°	525.0	523.2	524.8	524.0	524.7	524.4
48.5°	519.7	517.8	519.0	518.3	518.9	518.5
49°	513.4	512.0	513.2	512.4	512.1	512.7
49.5°	507.8	506.3	507.5	506.5	506.2	507.0
50°	502.2	500.5	501.4	500.7	501.0	501.3
50.5°	496.2	494.6	495.4	494.8	494.8	494.8
51°	490.6	488.6	489.5	488.9	488.5	489.0
51.5°	484.4	482.3	483.2	482.9	482.2	483.0
52°	478.5	476.4	477.4	476.9	476.2	477.1
52.5°	472.1	469.9	471.3	471.2	470.3	470.9
53°	466.3	464.2	464.7	464.8	464.2	464.7
53.5°	460.3	458.2	458.8	458.6	458.0	458.4
54°	454.1	451.9	452.0	452.2	452.2	452.1
54.5°	447.8	445.7	446.2	445.4	445.4	445.5
55°	441.5	439.9	439.9	439.0	439.3	439.7
55.5°	435.3	433.6	433.8	432.6	433.0	433.7
56°	429.6	427.0	427.3	426.1	426.7	427.1
56.5°	422.8	420.6	420.8	420.1	420.5	420.8
57°	416.3	413.9	414.4	413.5	413.9	414.0
57.5°	409.8	407.6	408.0	407.2	407.2	407.2
58°	403.5	400.9	401.0	401.3	400.5	401.0
58.5°	396.9	394.4	394.4	394.7	394.5	394.3
59°	390.3	387.7	387.7	388.1	388.0	387.5
59.5°	383.3	381.1	380.9	381.1	381.4	380.9
60°	376.4	374.5	374.3	374.3	374.3	374.6
60.5°	370.0	367.8	367.6	367.4	367.2	368.3
61°	363.6	360.9	361.2	360.4	360.5	361.0
61.5°	356.8	353.9	354.7	353.4	354.0	354.2
62°	349.9	347.5	347.7	346.6	346.8	347.4
62.5°	343.0	340.5	340.8	340.0	339.8	340.6
63°	336.1	333.3	333.7	333.3	332.8	333.4
63.5°	329.0	326.4	326.9	326.0	325.8	326.6
64°	322.5	319.3	319.8	319.1	319.0	319.5
64.5°	315.0	312.4	313.0	312.3	312.1	312.9
65°	308.5	305.2	305.7	305.2	305.0	305.9
65.5°	301.2	298.3	298.5	298.0	298.2	298.8
66°	293.9	290.9	291.0	291.1	291.1	291.7
66.5°	286.8	283.8	284.0	283.9	284.4	284.2
67°	280.1	276.4	277.0	276.5	277.6	276.8

TEST NUMBER: P869680  
 CATALOG NUMBER: SMX14SLSFS010-2000LM-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	272.7	269.3	270.3	269.5	270.3	269.8
68°	265.6	262.2	262.9	262.2	262.4	262.5
68.5°	258.3	255.6	255.7	255.2	255.3	255.4
69°	251.0	248.3	248.6	248.3	248.3	248.2
69.5°	243.7	240.9	241.4	240.9	241.0	240.6
70°	236.5	233.4	233.9	233.5	233.6	233.2
70.5°	229.8	226.3	226.6	226.5	226.6	226.0
71°	222.6	218.5	219.0	219.1	219.1	218.8
71.5°	215.1	211.5	211.9	211.5	211.5	211.7
72°	207.8	204.3	204.3	204.2	204.0	204.4
72.5°	200.5	197.1	197.2	197.1	196.3	196.7
73°	193.6	189.7	190.3	189.8	189.3	189.6
73.5°	186.3	182.4	183.1	182.5	182.3	182.4
74°	179.3	175.1	175.5	174.8	174.9	174.9
74.5°	171.9	167.9	168.2	167.7	167.4	167.7
75°	164.6	160.6	160.8	160.4	159.9	160.4
75.5°	157.2	153.4	153.5	152.9	152.7	153.2
76°	150.1	146.1	146.2	145.8	145.7	146.0
76.5°	143.0	138.6	138.9	138.7	138.5	138.6
77°	135.8	131.7	131.7	131.3	131.3	131.5
77.5°	128.5	125.0	124.6	124.5	124.6	124.4
78°	121.4	117.8	117.3	117.4	117.4	117.3
78.5°	114.4	111.0	110.5	110.5	110.6	110.5
79°	107.5	104.2	103.6	103.7	104.1	103.6
79.5°	100.7	97.0	97.0	96.8	97.3	96.7
80°	93.9	90.2	90.2	90.0	90.4	90.1
80.5°	87.4	83.7	83.7	83.7	83.5	83.4
81°	80.7	77.1	77.2	77.2	77.0	77.0
81.5°	74.1	70.6	71.0	71.1	70.5	70.5
82°	67.8	64.5	64.6	64.7	64.2	64.4
82.5°	61.9	58.4	58.7	58.4	58.1	58.3
83°	55.9	52.6	52.7	52.6	52.1	52.2
83.5°	49.8	46.9	46.9	46.8	46.3	46.4
84°	44.0	41.4	41.4	41.3	41.0	41.0
84.5°	38.5	36.0	36.1	36.0	35.9	35.9
85°	33.3	31.0	31.2	30.9	30.9	30.9
85.5°	28.2	26.5	26.6	26.5	26.5	26.3
86°	24.3	22.0	22.2	22.2	22.0	21.9
86.5°	20.1	17.8	18.1	17.9	17.8	17.7
87°	16.2	14.0	14.2	14.1	14.0	13.8
87.5°	12.5	10.1	10.3	10.3	10.2	10.1
88°	9.2	7.1	7.3	7.2	7.2	7.0
88.5°	6.2	4.7	4.9	4.9	4.9	4.7
89°	3.9	2.8	3.0	3.0	3.0	2.9
89.5°	1.9	1.5	1.6	1.6	1.6	1.6

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P869680  
CATALOG NUMBER: SMX14SLSFS010-2000LM-5000K

**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)