

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: P869649

Luminaire Tested: **SMX14RLSFS010-2000LM-4000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869649
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFS010-2000LM-4000K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

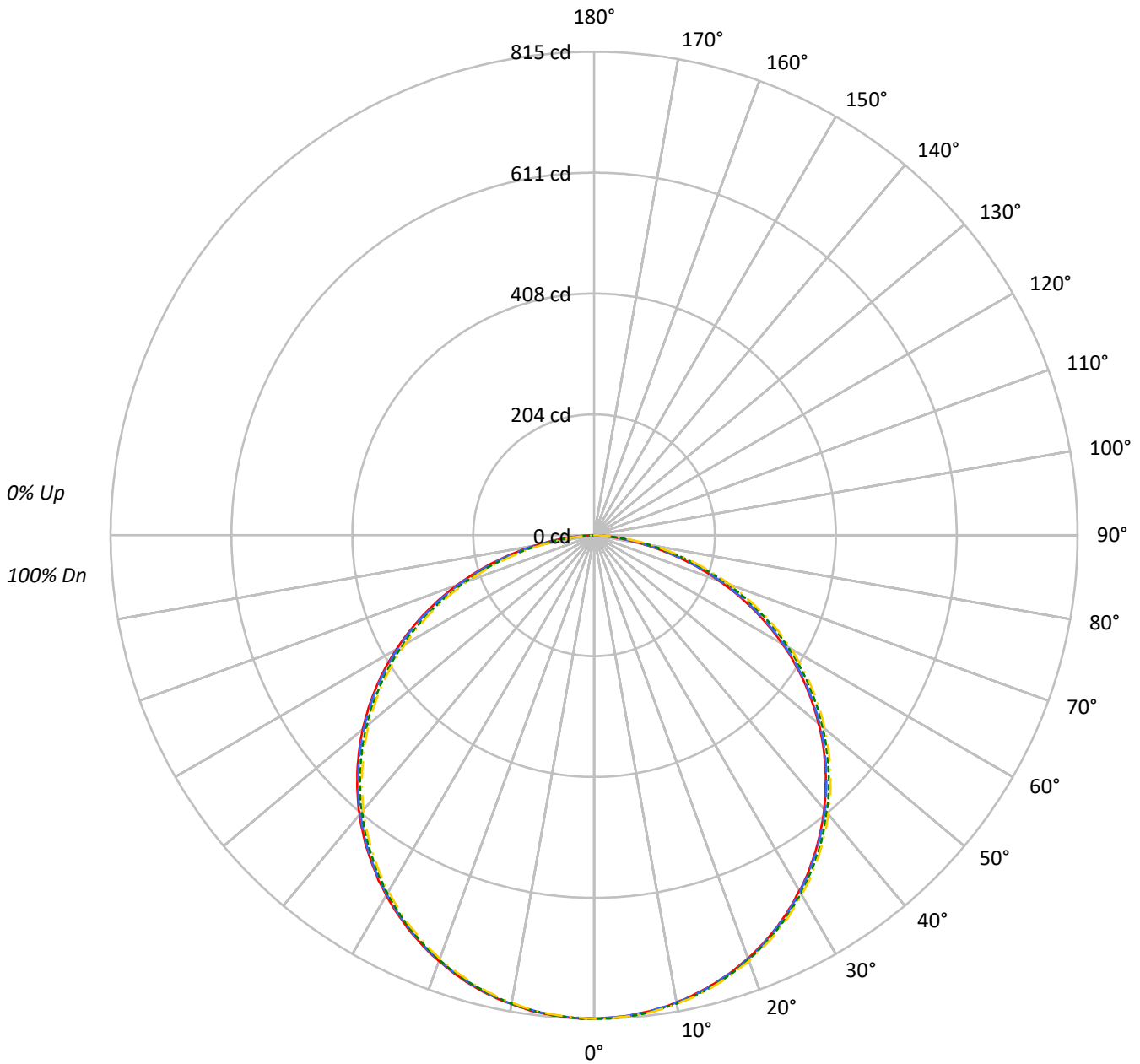
Lumens per Lamp: N/A
 Luminaire Lumens: 2385.0 lumens
 Efficiency: N/A
 Efficacy: 91.7 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 26
 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	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°	8197	8197	8197	8197
5°	8184	8206	8204	8204
10°	8172	8193	8199	8188
15°	8153	8177	8196	8178
20°	8126	8153	8184	8159
25°	8095	8132	8170	8133
30°	8041	8100	8142	8097
35°	7993	8064	8112	8053
40°	7928	8015	8078	8002
45°	7843	7957	8031	7927
50°	7734	7870	7972	7834
55°	7593	7767	7879	7714
60°	7376	7602	7741	7525
65°	7074	7370	7546	7255
70°	6605	7006	7235	6841
75°	5887	6435	6738	6190
80°	4729	5494	5928	5129
85°	2887	3926	4584	3429

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	3.2
10°-20°	221.5	9.3
20°-30°	337.4	14.1
30°-40°	410.2	17.2
40°-50°	430.2	18.0
50°-60°	393.7	16.5
60°-70°	303.2	12.7
70°-80°	171.5	7.2
80°-90°	40.1	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°	636.1	26.7
0°-40°	1046.3	43.9
0°-60°	1870.2	78.4
0°-90°	2385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2385.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	814	814	814	814	814	
5°	810	812	812	812	810	77
15°	783	785	787	785	783	221
25°	729	732	736	732	729	336
35°	651	656	660	656	651	407
45°	551	559	564	557	551	425
55°	433	443	449	440	433	386
65°	297	310	317	305	297	293
75°	151	166	173	159	151	160
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°	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5
0.5°	814.1	813.9	814.0	814.9	815.1	815.4	814.8	814.4	814.2	814.0	814.2
1°	814.2	813.5	813.8	815.0	815.1	815.1	814.8	814.2	814.7	814.1	813.8
1.5°	813.9	813.7	813.6	814.2	814.9	815.0	814.8	814.5	814.9	813.7	813.9
2°	813.7	813.0	813.3	813.7	815.0	814.8	814.3	814.4	814.7	813.5	813.9
2.5°	813.0	812.9	813.4	814.0	814.3	814.4	814.1	814.1	814.3	813.5	813.6
3°	812.7	812.5	812.9	813.3	813.9	814.1	813.6	813.7	813.9	813.5	813.3
3.5°	812.6	812.1	812.7	812.9	813.9	813.9	813.5	813.5	813.3	813.1	812.9
4°	812.1	811.5	812.1	812.5	813.3	813.3	813.0	812.9	812.7	812.8	813.0
4.5°	811.2	810.7	811.4	811.6	812.6	812.8	812.5	812.6	812.3	812.3	811.9
5°	810.2	809.6	810.7	811.5	812.3	812.0	812.0	812.1	812.1	811.6	811.6
5.5°	809.3	808.9	809.9	810.0	811.3	811.4	811.2	811.2	811.3	811.2	811.0
6°	808.7	808.1	809.1	809.1	810.7	810.5	810.6	810.6	810.7	810.5	810.0
6.5°	808.1	807.4	808.5	808.5	809.6	809.7	810.1	809.9	809.8	809.8	809.2
7°	807.2	806.6	806.9	807.5	808.7	808.4	809.2	808.9	809.3	808.9	808.2
7.5°	806.4	805.5	805.7	806.5	807.6	807.5	808.1	807.9	808.7	808.0	807.1
8°	805.1	804.6	804.5	805.5	806.5	806.4	807.2	807.2	807.6	807.2	806.7
8.5°	803.8	803.3	804.0	804.5	805.5	805.2	805.7	805.7	805.9	805.9	805.3
9°	802.5	802.3	802.7	803.1	804.1	804.7	805.2	804.7	804.8	804.4	804.5
9.5°	800.9	800.8	801.2	802.1	803.0	803.0	803.6	803.5	804.0	803.6	803.0
10°	799.7	799.6	799.6	800.9	801.8	801.8	802.5	802.5	802.4	802.7	802.1
10.5°	798.2	798.4	798.7	799.4	800.4	800.6	800.8	801.2	801.4	801.2	800.6
11°	797.3	796.5	797.2	798.2	798.9	799.1	799.4	799.7	800.2	799.6	799.3
11.5°	795.2	794.9	796.2	796.3	797.4	797.4	798.5	798.4	798.8	798.0	797.6
12°	793.6	793.4	794.3	794.8	796.2	796.0	796.9	796.8	797.3	796.6	796.2
12.5°	791.5	792.0	792.5	793.1	794.2	794.8	794.9	795.6	795.1	795.5	794.8
13°	790.3	790.3	790.7	790.9	792.4	793.2	793.6	793.9	794.1	793.7	793.3
13.5°	788.2	788.2	789.0	789.7	790.8	791.4	791.8	792.1	792.4	791.5	791.6
14°	786.6	786.3	787.1	787.8	788.9	789.5	790.0	790.0	790.6	789.9	789.5
14.5°	784.0	784.2	784.9	786.3	786.9	787.4	788.3	788.6	788.7	788.5	787.7
15°	782.6	782.1	783.3	783.4	784.9	785.5	786.1	787.0	786.7	786.3	786.2
15.5°	780.3	780.0	780.7	781.6	782.8	783.3	784.1	784.7	784.9	784.3	783.7
16°	778.1	778.3	778.5	779.7	780.7	781.3	782.1	782.1	782.9	782.1	781.3
16.5°	776.0	776.2	776.2	777.5	778.3	778.9	779.9	779.9	780.6	780.2	779.3
17°	774.0	774.1	774.6	775.3	776.2	776.5	777.9	778.0	778.1	778.4	777.3
17.5°	771.5	771.6	772.3	773.5	773.8	774.8	775.8	775.8	776.2	775.6	775.3
18°	769.2	769.1	769.8	770.8	771.9	772.6	773.5	773.8	774.0	773.7	772.8
18.5°	766.5	766.3	767.4	767.9	769.2	770.1	770.7	771.2	771.3	771.4	770.6
19°	764.1	763.8	765.1	765.4	766.4	767.6	768.4	768.7	769.4	768.7	767.8
19.5°	761.3	761.4	762.3	763.3	764.2	764.8	766.3	766.3	766.2	766.6	765.4
20°	758.8	758.6	759.6	760.5	761.3	762.7	763.7	764.2	764.2	763.9	763.0
20.5°	756.2	755.8	756.8	758.1	758.7	760.0	761.0	761.6	761.3	761.4	760.6
21°	753.6	753.3	753.9	754.9	756.1	756.9	758.3	758.9	758.9	758.6	757.5
21.5°	750.6	750.2	751.3	752.4	753.5	754.5	755.5	756.3	756.5	755.8	754.9
22°	747.4	747.8	748.7	749.2	750.2	751.7	753.1	753.4	753.5	752.8	752.0

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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°	744.7	744.4	745.5	746.2	747.7	748.7	749.8	750.5	750.7	750.1	749.4
23°	741.6	741.4	742.0	743.7	744.7	745.6	747.1	748.0	747.4	747.4	746.2
23.5°	738.3	738.3	738.9	740.3	741.5	742.4	744.3	744.5	744.4	744.7	743.1
24°	735.3	735.3	736.2	737.1	738.6	739.9	741.4	741.6	741.5	741.7	740.2
24.5°	731.8	732.2	732.8	734.0	735.7	736.4	738.0	738.6	738.6	738.1	737.2
25°	729.0	728.6	729.8	730.7	732.4	733.3	735.0	735.5	735.8	735.5	733.8
25.5°	725.3	725.7	726.3	727.4	728.7	730.2	731.7	732.5	732.2	732.1	730.7
26°	722.0	722.5	722.8	724.2	725.7	727.3	728.2	729.0	728.6	729.0	727.6
26.5°	718.5	718.5	719.1	720.7	722.3	723.5	725.2	725.6	725.3	725.3	724.0
27°	715.4	715.2	716.0	716.8	719.4	719.9	721.7	722.6	722.0	722.2	720.3
27.5°	711.3	711.4	712.4	713.2	715.6	716.5	718.0	718.8	718.7	718.7	717.1
28°	707.5	707.8	708.8	709.9	711.6	713.3	714.8	715.4	715.2	715.1	713.6
28.5°	703.7	704.0	704.8	705.8	708.2	709.5	711.1	711.6	711.6	711.2	710.0
29°	700.0	700.6	701.2	702.4	704.4	705.8	707.7	708.2	708.2	707.6	706.5
29.5°	695.7	696.2	697.4	698.7	701.1	702.0	704.0	704.5	704.7	704.4	702.8
30°	692.0	692.4	693.4	695.0	697.1	698.4	700.3	700.8	700.7	700.6	698.8
30.5°	688.8	688.8	690.0	691.3	693.5	694.5	696.2	697.1	696.9	697.0	695.2
31°	684.7	685.4	685.5	687.0	690.0	690.5	692.3	693.8	693.0	693.2	691.5
31.5°	680.6	680.8	681.8	683.3	685.6	687.0	688.8	689.4	689.4	689.6	687.7
32°	676.8	677.0	677.9	679.3	681.6	683.0	685.3	685.7	685.8	685.8	683.6
32.5°	672.6	673.0	673.2	674.7	677.2	678.9	681.0	682.1	681.3	681.3	679.9
33°	668.1	669.0	669.1	670.7	673.4	674.4	676.8	677.7	676.8	677.3	675.8
33.5°	663.5	664.4	665.1	666.7	669.0	670.3	672.4	673.8	673.0	673.0	671.6
34°	659.5	660.2	660.5	662.5	665.2	666.4	668.3	669.6	668.8	668.9	667.3
34.5°	654.8	655.6	656.6	658.1	660.8	662.2	664.2	665.4	664.5	664.6	663.1
35°	650.6	651.3	652.2	653.5	656.4	657.7	660.0	660.7	660.3	660.3	659.0
35.5°	646.0	646.5	647.7	649.0	652.0	653.5	655.3	656.3	656.3	656.2	654.7
36°	641.6	641.9	642.8	644.5	647.6	649.2	651.4	652.1	652.1	651.6	650.1
36.5°	637.1	637.3	638.7	640.1	643.5	644.4	646.9	647.7	647.7	647.8	645.5
37°	632.5	632.7	633.8	635.5	638.7	640.2	642.3	643.5	643.1	643.1	641.4
37.5°	627.4	628.1	629.0	630.9	633.8	635.5	637.6	638.6	638.4	638.3	636.8
38°	622.5	623.5	624.5	626.1	629.2	631.3	633.4	634.1	633.6	633.3	632.3
38.5°	618.1	618.7	619.5	621.1	624.5	626.3	628.6	629.4	629.4	628.8	627.6
39°	613.3	613.5	614.8	616.4	619.5	621.4	623.9	624.9	624.6	624.2	622.6
39.5°	608.6	608.6	610.0	611.7	614.6	616.9	619.4	620.1	619.8	619.5	617.5
40°	603.5	604.3	605.2	607.0	610.1	612.2	614.1	615.4	614.9	614.8	612.7
40.5°	598.2	598.9	600.4	602.1	605.3	607.3	609.4	610.5	610.2	609.9	607.9
41°	593.3	594.3	595.2	597.3	600.5	602.6	604.5	605.7	605.6	605.0	603.2
41.5°	588.2	589.0	590.1	592.4	595.5	597.7	599.6	600.5	600.6	599.8	598.0
42°	583.1	583.9	584.7	587.1	590.3	592.5	594.4	595.4	595.2	594.8	593.2
42.5°	577.6	578.7	579.5	581.9	585.3	587.1	589.4	590.5	590.2	590.1	588.1
43°	572.3	573.3	574.2	576.6	580.1	582.2	584.5	585.7	585.1	584.7	583.1
43.5°	567.3	568.1	569.2	571.5	574.5	576.9	579.0	580.6	580.1	579.4	577.8
44°	562.3	562.6	563.7	565.9	569.4	571.8	574.0	575.1	574.8	574.2	572.7
44.5°	556.3	557.0	558.6	560.7	564.3	566.6	568.5	569.5	569.4	568.9	567.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	551.1	551.6	553.1	555.5	559.1	561.1	563.3	564.4	564.3	563.9	561.9
45.5°	545.9	546.0	547.6	550.0	553.5	555.6	558.0	558.7	559.1	558.4	556.4
46°	540.1	540.6	541.9	544.5	547.8	550.2	552.6	553.5	553.8	553.2	551.3
46.5°	534.7	535.0	536.2	538.6	542.3	544.7	547.2	547.9	548.0	547.6	545.7
47°	529.0	529.5	530.9	533.4	536.6	539.2	541.7	542.5	542.6	541.9	540.0
47.5°	523.4	523.6	525.5	527.7	531.3	533.7	536.0	537.1	537.0	536.5	534.7
48°	517.6	518.0	520.0	522.0	525.8	528.0	530.6	531.6	531.5	530.8	529.4
48.5°	511.9	512.3	514.0	516.3	520.2	522.4	524.9	526.1	526.1	525.3	523.6
49°	506.2	506.4	508.3	510.5	514.3	516.6	519.4	520.5	520.4	519.6	518.0
49.5°	500.3	500.7	502.3	504.9	508.5	510.9	513.5	514.3	514.8	514.1	512.3
50°	494.0	494.7	496.4	498.9	502.7	505.4	508.1	509.0	509.2	508.5	506.1
50.5°	488.2	488.6	490.6	493.2	496.8	499.6	502.1	503.1	503.1	502.4	500.4
51°	482.3	482.7	484.4	487.1	491.2	493.6	496.0	497.3	497.4	496.3	494.8
51.5°	476.1	476.7	478.5	481.1	485.0	487.8	490.2	491.4	491.5	490.6	488.6
52°	470.0	470.6	472.2	475.1	479.4	481.8	484.6	485.8	485.4	484.5	483.0
52.5°	463.7	464.5	466.4	468.9	473.2	475.7	478.5	479.7	479.3	478.6	476.6
53°	457.8	458.5	460.4	462.9	467.1	469.8	472.4	473.8	473.4	472.7	470.7
53.5°	451.5	451.8	454.1	456.5	461.2	463.8	466.0	467.5	467.2	466.6	464.7
54°	445.3	445.4	447.5	450.2	455.0	457.4	460.1	461.6	461.1	460.7	458.4
54.5°	439.1	439.7	441.5	443.9	448.6	451.4	454.1	455.1	455.0	454.4	452.0
55°	432.8	433.4	435.2	438.1	442.7	445.4	448.0	449.5	449.1	448.2	446.0
55.5°	426.4	426.7	429.0	431.4	436.4	439.2	441.7	443.2	442.9	441.9	440.1
56°	420.0	420.4	422.4	425.2	430.2	432.7	435.8	437.1	436.6	435.6	433.6
56.5°	413.2	413.9	416.2	418.5	423.7	426.3	429.1	430.3	430.4	429.0	427.5
57°	406.7	407.5	409.4	411.9	417.1	420.2	422.9	424.4	423.9	422.8	421.0
57.5°	400.1	400.7	402.8	405.4	410.7	413.4	416.3	417.5	417.5	416.5	414.4
58°	393.9	394.3	396.1	399.1	404.2	407.2	410.0	411.2	410.9	409.8	408.0
58.5°	387.0	387.3	389.7	392.4	397.6	400.6	403.3	404.7	404.8	403.3	401.5
59°	380.2	381.1	382.9	385.9	391.2	394.1	396.8	398.2	398.3	396.5	394.8
59.5°	373.3	374.2	376.1	379.0	384.4	387.5	390.2	391.6	391.3	390.3	388.2
60°	366.5	367.3	369.7	372.6	377.7	380.8	383.6	384.9	384.6	383.5	381.5
60.5°	360.1	360.6	362.4	365.6	370.7	374.3	377.0	378.3	378.1	377.0	374.8
61°	353.4	354.0	356.0	359.2	364.0	367.5	370.4	371.6	371.3	370.0	368.5
61.5°	346.2	346.9	349.1	352.3	357.3	360.8	363.3	364.8	364.9	363.4	361.6
62°	339.2	340.2	342.3	345.2	351.0	354.3	356.9	358.2	358.1	356.9	354.9
62.5°	332.0	333.1	335.0	338.1	344.1	347.5	350.3	351.4	351.3	350.0	348.0
63°	325.1	326.3	328.2	331.4	337.1	340.6	343.3	344.7	344.5	343.3	341.2
63.5°	318.2	319.3	321.3	324.3	330.1	333.6	336.6	337.7	337.7	336.4	334.2
64°	310.9	312.1	314.4	317.4	323.1	326.9	329.4	330.6	330.7	329.3	327.5
64.5°	304.2	305.3	307.3	310.5	316.3	319.6	322.6	323.7	323.7	322.5	320.1
65°	297.1	298.1	300.4	303.6	309.5	312.9	315.9	316.9	316.9	315.7	313.7
65.5°	289.9	291.1	293.2	296.6	302.6	305.9	308.7	310.0	310.1	308.8	306.3
66°	282.6	283.7	285.9	289.2	295.2	298.8	301.6	302.9	302.7	301.7	299.3
66.5°	275.5	276.8	278.6	281.9	288.1	291.5	294.3	295.7	295.5	294.2	292.1
67°	268.7	269.4	271.6	274.9	281.0	284.5	287.2	288.7	288.6	287.4	284.9

TEST NUMBER: P869649
 CATALOG NUMBER: SMX14RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	261.1	262.3	264.6	267.8	273.9	277.2	280.1	281.6	281.7	280.3	277.8
68°	253.9	254.9	257.3	260.6	266.7	270.3	273.4	274.4	274.5	273.1	270.9
68.5°	246.6	247.7	249.9	253.3	259.8	263.3	265.9	267.4	267.4	265.9	264.0
69°	239.2	240.2	242.7	246.0	252.5	256.0	259.0	260.2	260.2	258.7	256.9
69.5°	231.9	232.9	235.5	238.5	245.3	249.0	251.8	253.0	253.1	251.6	249.2
70°	224.5	225.7	228.1	231.3	238.1	241.5	244.5	245.7	245.9	244.4	241.9
70.5°	217.4	218.4	220.8	224.3	231.1	234.3	237.2	238.7	238.7	237.3	234.8
71°	210.0	210.8	213.5	216.6	223.7	227.4	230.4	231.6	231.6	230.1	227.7
71.5°	202.4	203.6	206.0	209.3	216.3	220.1	222.9	224.2	224.3	222.8	220.2
72°	195.3	196.3	198.7	202.0	208.9	212.8	215.8	216.9	217.1	215.5	213.0
72.5°	188.2	189.2	191.7	194.9	201.7	205.5	208.3	209.8	209.9	208.2	205.8
73°	180.7	181.8	184.4	187.4	194.3	198.1	201.1	202.2	202.4	200.9	198.2
73.5°	173.3	174.3	176.9	180.1	187.4	191.0	193.9	195.1	195.2	193.7	191.2
74°	165.9	167.2	169.6	172.8	180.1	183.8	186.8	187.9	188.1	186.4	184.1
74.5°	158.6	159.8	162.4	165.4	172.7	176.5	179.5	180.7	180.8	179.4	176.6
75°	151.4	152.5	155.1	158.3	165.5	169.1	172.0	173.3	173.3	171.9	169.4
75.5°	144.2	145.4	147.9	151.2	158.2	161.8	164.7	166.1	166.0	164.6	162.0
76°	137.0	138.1	140.6	143.8	150.9	154.6	157.3	158.8	159.0	157.3	154.8
76.5°	129.7	131.0	133.5	136.5	143.8	147.6	150.3	151.5	151.6	150.2	147.4
77°	122.5	123.7	126.4	129.6	136.5	140.2	143.1	144.4	144.2	143.0	140.5
77.5°	115.7	117.0	119.4	122.6	129.5	133.2	136.0	137.2	137.3	135.8	133.3
78°	108.7	109.9	112.4	115.3	122.4	126.1	129.0	130.0	130.1	128.6	126.2
78.5°	101.7	102.9	105.5	108.8	115.2	118.8	121.8	122.9	123.0	121.6	119.0
79°	95.0	96.2	98.7	101.8	108.6	111.9	114.6	115.9	115.9	114.5	112.2
79.5°	88.2	89.3	91.9	95.0	101.6	105.2	108.0	109.1	109.1	107.8	105.1
80°	81.6	82.6	85.2	88.2	94.8	98.3	101.0	102.2	102.3	100.9	98.5
80.5°	75.0	76.2	78.6	81.5	88.2	91.7	94.3	95.5	95.5	94.0	91.5
81°	68.7	69.9	72.1	75.1	81.5	84.8	87.5	88.8	88.8	87.5	85.0
81.5°	62.5	63.8	65.9	68.8	75.1	78.3	80.8	82.0	81.9	80.5	78.3
82°	56.3	57.5	59.7	62.4	68.5	71.9	74.3	75.5	75.6	74.2	71.8
82.5°	50.6	51.7	53.9	56.5	62.5	65.7	68.0	69.1	69.1	67.8	65.6
83°	44.9	46.0	48.0	50.5	56.4	59.6	62.0	63.3	63.1	61.9	59.5
83.5°	39.5	40.5	42.5	44.9	50.5	53.4	55.8	57.1	57.0	55.5	53.5
84°	34.2	35.3	37.3	39.5	44.6	47.7	49.9	51.0	51.0	49.6	47.5
84.5°	29.4	30.4	32.2	34.5	39.2	41.9	44.3	45.3	45.2	43.9	42.0
85°	25.0	25.9	27.7	29.5	34.0	36.7	38.8	39.8	39.7	38.5	36.8
85.5°	20.6	21.3	23.0	25.1	29.1	31.5	33.5	34.4	34.4	33.3	31.4
86°	16.7	17.2	18.8	20.7	24.9	26.8	28.6	29.5	29.4	28.3	26.7
86.5°	12.6	13.3	14.9	16.7	20.8	22.7	24.4	25.2	25.2	24.2	22.4
87°	9.1	9.6	10.9	12.7	16.8	18.7	20.4	21.2	21.1	20.2	18.5
87.5°	6.7	6.9	7.9	9.2	13.1	15.0	16.5	17.1	17.0	16.2	14.8
88°	4.1	4.6	5.3	6.7	9.7	11.3	12.7	13.4	13.3	12.5	11.3
88.5°	2.5	2.8	3.4	4.3	6.8	8.2	9.3	9.9	9.8	9.1	8.0
89°	1.5	1.6	2.0	2.6	4.2	5.5	6.5	7.0	6.9	6.2	5.4
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: P869649
CATALOG NUMBER: SMX14RLSFS010-2000LM-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: P869649
 CATALOG NUMBER: SMX14RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	814.5	814.5	814.5	814.5	814.5	814.5
0.5°	814.5	815.3	815.0	814.5	814.8	814.1
1°	814.5	815.3	814.8	814.3	814.5	814.2
1.5°	814.7	815.2	814.7	813.8	813.7	813.9
2°	814.2	814.8	814.2	813.9	813.7	813.7
2.5°	813.8	814.3	814.0	813.5	813.2	813.0
3°	813.5	813.6	813.8	813.2	813.3	812.7
3.5°	813.4	813.4	813.2	812.8	813.0	812.6
4°	813.0	812.9	812.5	811.7	811.5	812.1
4.5°	812.2	812.4	812.3	811.2	811.4	811.2
5°	811.5	812.1	811.4	810.6	810.1	810.2
5.5°	811.3	810.9	811.1	810.0	810.0	809.3
6°	810.4	810.1	809.9	809.1	809.3	808.7
6.5°	809.2	808.9	809.0	808.1	808.3	808.1
7°	808.3	808.2	808.1	807.4	807.5	807.2
7.5°	807.4	807.4	807.2	806.4	806.9	806.4
8°	806.3	806.0	806.0	805.3	805.9	805.1
8.5°	805.5	805.0	804.6	804.2	804.4	803.8
9°	804.6	804.2	803.9	802.7	803.0	802.5
9.5°	803.3	803.0	802.6	801.2	801.6	800.9
10°	801.7	801.3	801.0	800.4	800.3	799.7
10.5°	800.5	800.2	799.7	798.7	798.3	798.2
11°	799.2	798.7	798.3	797.4	796.7	797.3
11.5°	797.5	797.1	796.7	795.7	795.5	795.2
12°	796.0	795.6	795.1	794.3	794.2	793.6
12.5°	794.5	794.2	793.7	792.2	792.1	791.5
13°	792.5	792.7	791.8	790.8	790.6	790.3
13.5°	790.8	790.7	790.0	788.8	788.8	788.2
14°	789.2	788.7	788.5	786.9	786.5	786.6
14.5°	787.0	786.9	786.4	785.0	784.8	784.0
15°	785.3	785.0	784.3	783.0	782.6	782.6
15.5°	783.6	783.0	782.2	780.8	780.6	780.3
16°	781.3	781.0	779.9	778.6	778.5	778.1
16.5°	779.2	778.8	777.7	776.2	776.0	776.0
17°	777.2	776.4	775.3	774.3	774.0	774.0
17.5°	775.2	774.0	773.4	771.9	771.9	771.5
18°	772.6	771.8	770.3	769.5	769.1	769.2
18.5°	770.4	769.7	768.6	767.0	767.0	766.5
19°	767.8	767.0	766.0	764.8	764.2	764.1
19.5°	765.2	764.4	763.7	762.4	761.7	761.3
20°	762.8	761.9	760.8	759.5	759.2	758.8
20.5°	760.3	758.9	758.0	756.7	756.6	756.2
21°	757.3	756.4	755.2	754.0	753.2	753.6
21.5°	754.3	753.6	752.4	751.1	750.5	750.6
22°	751.6	750.7	749.4	748.1	747.0	747.4

TEST NUMBER: P869649
 CATALOG NUMBER: SMX14RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	748.5	747.6	746.5	744.9	744.5	744.7
23°	745.7	745.0	743.7	741.8	741.3	741.6
23.5°	742.6	741.9	740.9	738.9	738.4	738.3
24°	739.6	738.9	737.3	735.6	735.1	735.3
24.5°	736.8	735.5	734.3	732.2	731.8	731.8
25°	733.8	732.5	731.2	729.6	728.9	729.0
25.5°	730.5	729.4	727.6	726.0	725.6	725.3
26°	726.9	726.1	724.3	723.1	722.1	722.0
26.5°	723.2	722.3	720.8	719.2	718.7	718.5
27°	720.0	718.9	717.5	715.5	715.0	715.4
27.5°	717.0	715.1	713.8	712.1	711.4	711.3
28°	712.7	711.6	710.4	707.9	707.2	707.5
28.5°	709.4	708.1	706.6	704.4	703.3	703.7
29°	706.0	704.3	702.6	700.7	699.8	700.0
29.5°	702.3	700.5	698.9	696.8	696.0	695.7
30°	698.5	696.8	695.4	693.0	692.4	692.0
30.5°	694.5	693.1	691.5	689.4	688.5	688.8
31°	690.9	689.0	686.9	685.5	684.6	684.7
31.5°	687.1	684.5	683.2	681.6	680.6	680.6
32°	682.9	681.0	679.1	677.4	676.2	676.8
32.5°	679.0	676.8	675.3	673.1	672.2	672.6
33°	674.7	672.6	671.0	669.0	668.1	668.1
33.5°	670.5	668.2	666.5	664.7	663.7	663.5
34°	666.2	664.4	662.0	660.1	659.4	659.5
34.5°	662.3	659.7	657.8	655.8	654.5	654.8
35°	657.6	655.5	653.1	651.5	650.5	650.6
35.5°	653.5	651.2	649.4	647.2	645.9	646.0
36°	648.8	646.8	644.7	642.4	641.5	641.6
36.5°	644.7	641.8	639.8	637.6	636.7	637.1
37°	639.8	637.4	634.9	633.6	632.4	632.5
37.5°	635.9	633.1	631.0	629.0	627.7	627.4
38°	630.7	628.1	625.9	623.8	622.6	622.5
38.5°	626.1	623.3	621.0	618.9	618.1	618.1
39°	621.1	618.5	616.0	614.5	613.5	613.3
39.5°	616.6	613.5	611.5	609.4	608.5	608.6
40°	611.4	609.1	606.8	604.6	603.6	603.5
40.5°	607.0	604.2	601.6	599.6	598.8	598.2
41°	601.7	599.1	596.4	594.5	593.5	593.3
41.5°	597.2	593.9	591.3	589.3	588.1	588.2
42°	591.9	588.7	586.3	583.9	583.2	583.1
42.5°	586.6	583.6	581.2	578.9	577.8	577.6
43°	581.6	578.1	576.0	573.6	572.6	572.3
43.5°	576.4	573.0	571.1	568.3	567.5	567.3
44°	571.0	567.9	565.4	562.9	561.9	562.3
44.5°	565.9	562.5	560.1	557.6	556.4	556.3

TEST NUMBER: P869649
 CATALOG NUMBER: SMX14RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	560.5	557.0	554.6	552.3	551.2	551.1
45.5°	555.1	551.5	549.1	546.5	546.0	545.9
46°	549.6	546.4	543.5	541.4	540.1	540.1
46.5°	544.1	540.3	538.0	535.7	534.2	534.7
47°	538.7	535.1	532.2	530.2	528.6	529.0
47.5°	533.0	529.4	526.6	524.7	523.0	523.4
48°	527.3	523.6	521.1	518.9	517.5	517.6
48.5°	522.0	518.0	515.3	513.1	512.2	511.9
49°	516.3	512.5	509.6	507.1	506.2	506.2
49.5°	510.2	506.5	503.9	501.3	500.0	500.3
50°	504.5	500.4	497.7	495.6	494.2	494.0
50.5°	498.4	494.5	492.0	489.6	488.4	488.2
51°	492.6	488.8	485.9	483.5	482.6	482.3
51.5°	487.2	482.9	480.1	477.5	476.2	476.1
52°	480.9	476.8	474.2	471.7	470.1	470.0
52.5°	474.8	470.5	467.9	465.5	464.1	463.7
53°	468.6	464.4	461.9	459.2	457.7	457.8
53.5°	462.6	458.3	455.3	452.8	451.4	451.5
54°	456.2	451.8	449.3	446.7	445.2	445.3
54.5°	450.3	445.8	443.1	440.6	439.3	439.1
55°	444.0	439.7	436.7	434.2	433.0	432.8
55.5°	437.9	433.1	430.2	428.1	426.5	426.4
56°	431.6	426.6	424.1	421.4	419.9	420.0
56.5°	425.1	420.4	417.3	414.8	413.7	413.2
57°	418.6	413.9	411.0	408.2	406.8	406.7
57.5°	412.2	407.3	404.2	401.5	400.1	400.1
58°	405.6	400.7	397.6	395.0	393.7	393.9
58.5°	399.3	394.2	391.0	388.2	386.9	387.0
59°	392.7	387.4	384.1	381.5	380.2	380.2
59.5°	385.8	380.9	377.8	374.5	373.2	373.3
60°	379.1	373.9	370.7	367.8	366.6	366.5
60.5°	372.4	367.1	363.9	360.9	359.8	360.1
61°	365.6	360.4	357.2	354.6	353.1	353.4
61.5°	359.0	353.5	350.4	347.6	346.2	346.2
62°	352.4	346.6	343.6	340.6	339.3	339.2
62.5°	345.4	339.6	336.5	333.3	332.0	332.0
63°	338.5	332.7	329.4	326.6	325.3	325.1
63.5°	331.6	325.4	322.5	319.7	318.3	318.2
64°	324.6	318.7	315.5	312.8	311.4	310.9
64.5°	317.5	311.8	308.4	305.8	304.2	304.2
65°	310.8	304.7	301.3	298.6	297.1	297.1
65.5°	303.8	297.5	294.3	291.4	290.1	289.9
66°	296.4	290.5	287.0	283.8	282.6	282.6
66.5°	289.2	283.1	279.7	276.9	275.5	275.5
67°	282.2	276.3	272.7	269.9	268.3	268.7

TEST NUMBER: P869649
 CATALOG NUMBER: SMX14RLSFS010-2000LM-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	275.5	268.9	265.3	262.8	260.9	261.1
68°	268.2	261.7	257.9	255.3	253.9	253.9
68.5°	260.9	254.4	250.8	247.8	246.5	246.6
69°	253.5	247.1	243.4	240.8	239.0	239.2
69.5°	246.5	239.8	236.2	233.2	231.7	231.9
70°	239.3	232.5	229.0	225.9	224.8	224.5
70.5°	231.9	225.1	221.7	218.9	217.5	217.4
71°	224.6	217.6	214.3	211.3	209.8	210.0
71.5°	217.5	210.3	206.9	204.0	202.2	202.4
72°	210.1	203.1	199.6	196.7	195.3	195.3
72.5°	202.8	195.9	192.5	189.5	188.1	188.2
73°	195.2	188.5	184.9	181.9	180.8	180.7
73.5°	188.2	181.1	177.7	174.8	173.1	173.3
74°	181.0	173.9	170.1	167.4	165.8	165.9
74.5°	173.6	166.6	163.1	160.0	158.5	158.6
75°	166.1	159.2	155.7	152.8	151.6	151.4
75.5°	159.0	151.9	148.5	145.5	143.8	144.2
76°	151.6	144.5	141.2	138.3	137.0	137.0
76.5°	144.5	137.4	133.8	131.1	129.8	129.7
77°	137.3	130.4	126.9	124.0	122.5	122.5
77.5°	130.1	123.3	119.8	117.2	115.7	115.7
78°	123.0	116.1	112.7	110.1	108.7	108.7
78.5°	115.9	109.2	106.0	103.2	101.9	101.7
79°	109.0	102.3	99.1	96.4	95.1	95.0
79.5°	102.0	95.4	92.2	89.4	88.2	88.2
80°	95.4	88.5	85.2	82.7	81.4	81.6
80.5°	88.6	82.0	78.9	76.1	74.9	75.0
81°	81.9	75.4	72.2	69.9	68.7	68.7
81.5°	75.3	69.2	66.2	63.6	62.4	62.5
82°	68.9	63.0	59.9	57.5	56.3	56.3
82.5°	62.9	57.1	54.1	51.8	50.6	50.6
83°	56.7	50.9	48.2	46.0	45.0	44.9
83.5°	50.7	45.3	42.6	40.5	39.4	39.5
84°	44.9	39.9	37.3	35.2	34.2	34.2
84.5°	39.5	34.7	32.4	30.4	29.4	29.4
85°	34.2	29.7	27.7	25.9	25.1	25.0
85.5°	29.2	25.4	23.1	21.5	20.7	20.6
86°	24.8	21.0	19.0	17.3	16.6	16.7
86.5°	20.8	16.9	14.9	13.2	12.6	12.6
87°	16.8	12.9	11.0	9.7	9.0	9.1
87.5°	13.0	9.3	8.0	7.0	6.6	6.7
88°	9.7	6.7	5.5	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: P869649
CATALOG NUMBER: SMX14RLSFS010-2000LM-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)