

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: P869656

Luminaire Tested: **SMX14RLSFSD2W-1600LM-2700K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869656
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFSD2W-1600LM-2700K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

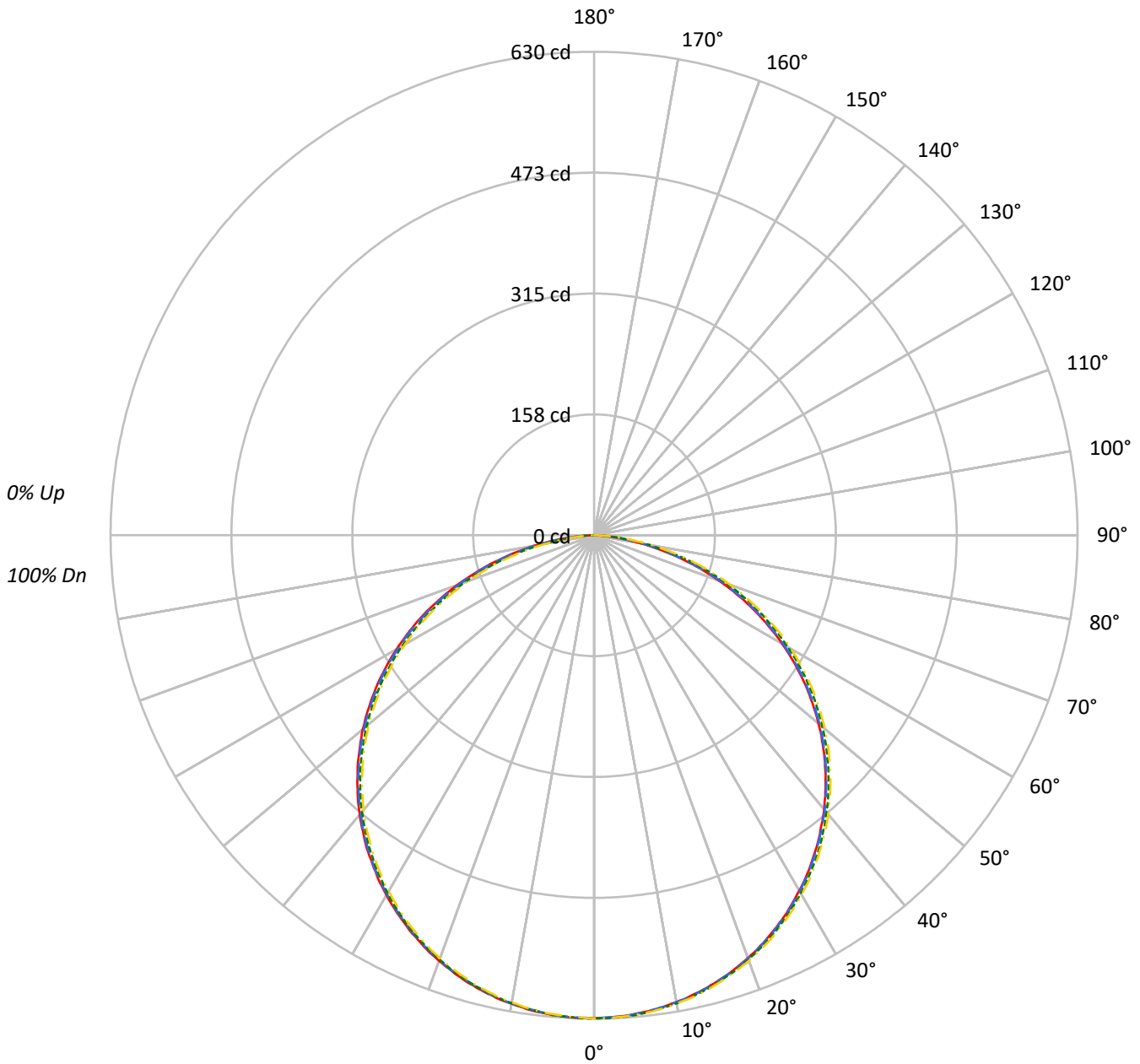
Lumens per Lamp: N/A
 Luminaire Lumens: 1842.5 lumens
 Efficiency: N/A
 Efficacy: 88.2 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 20.9
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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

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Luminous Intensity Polar Plot



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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	52	52	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6333	6333	6333	6333
5°	6323	6339	6338	6338
10°	6313	6329	6333	6325
15°	6299	6318	6331	6319
20°	6278	6298	6322	6303
25°	6254	6282	6311	6284
30°	6212	6257	6290	6255
35°	6174	6230	6267	6221
40°	6124	6191	6240	6181
45°	6058	6147	6204	6124
50°	5976	6081	6159	6052
55°	5865	6000	6086	5960
60°	5698	5873	5980	5813
65°	5465	5693	5829	5605
70°	5105	5411	5590	5284
75°	4549	4973	5206	4782
80°	3657	4242	4584	3964
85°	2228	3037	3545	2644

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.2
10°-20°	171.1	9.3
20°-30°	260.7	14.1
30°-40°	316.9	17.2
40°-50°	332.3	18.0
50°-60°	304.2	16.5
60°-70°	234.3	12.7
70°-80°	132.5	7.2
80°-90°	31.0	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°	491.4	26.7
0°-40°	808.3	43.9
0°-60°	1444.7	78.4
0°-90°	1842.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	629	629	629	629	629	
5°	626	628	627	627	626	60
15°	605	606	608	606	605	171
25°	563	566	568	566	563	259
35°	503	507	510	506	503	314
45°	426	432	436	430	426	328
55°	334	342	347	340	334	298
65°	230	239	245	235	230	227
75°	117	128	134	123	117	124
85°	19	26	31	23	19	25
90°	0	0	0	0	0	

TEST NUMBER: P869656
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3
0.5°	628.9	628.8	628.9	629.5	629.6	629.9	629.4	629.2	629.0	628.9	629.0
1°	629.0	628.5	628.7	629.6	629.6	629.6	629.4	629.0	629.3	628.9	628.7
1.5°	628.8	628.6	628.5	629.0	629.5	629.6	629.4	629.3	629.5	628.6	628.8
2°	628.6	628.1	628.3	628.6	629.6	629.4	629.1	629.2	629.3	628.5	628.8
2.5°	628.1	628.0	628.4	628.9	629.1	629.2	628.9	628.9	629.1	628.5	628.5
3°	627.8	627.7	628.0	628.3	628.8	628.9	628.5	628.6	628.8	628.5	628.3
3.5°	627.7	627.4	627.8	628.0	628.8	628.8	628.5	628.5	628.3	628.1	628.0
4°	627.4	626.9	627.4	627.7	628.3	628.3	628.1	628.0	627.8	627.9	628.1
4.5°	626.6	626.2	626.8	627.0	627.7	627.9	627.7	627.7	627.5	627.5	627.2
5°	625.9	625.5	626.2	626.9	627.5	627.3	627.3	627.4	627.4	627.0	627.0
5.5°	625.2	624.9	625.7	625.8	626.7	626.8	626.6	626.6	626.7	626.6	626.5
6°	624.7	624.3	625.1	625.1	626.2	626.1	626.2	626.2	626.2	626.1	625.8
6.5°	624.3	623.7	624.6	624.6	625.5	625.5	625.8	625.7	625.6	625.6	625.1
7°	623.6	623.1	623.3	623.8	624.7	624.5	625.1	624.9	625.2	624.9	624.3
7.5°	622.9	622.3	622.4	623.0	623.9	623.8	624.3	624.1	624.7	624.2	623.5
8°	622.0	621.6	621.5	622.3	623.0	622.9	623.6	623.6	623.9	623.6	623.2
8.5°	620.9	620.5	621.1	621.5	622.3	622.1	622.4	622.4	622.6	622.6	622.1
9°	619.9	619.8	620.1	620.4	621.2	621.7	622.1	621.7	621.7	621.4	621.5
9.5°	618.7	618.6	619.0	619.6	620.3	620.3	620.8	620.7	621.1	620.8	620.3
10°	617.8	617.7	617.7	618.7	619.4	619.4	619.9	619.9	619.8	620.1	619.6
10.5°	616.6	616.7	617.0	617.5	618.3	618.5	618.6	619.0	619.1	619.0	618.5
11°	616.0	615.3	615.9	616.6	617.1	617.3	617.5	617.8	618.2	617.7	617.5
11.5°	614.3	614.1	615.1	615.2	616.0	616.0	616.8	616.7	617.1	616.4	616.2
12°	613.0	613.0	613.6	614.0	615.1	614.9	615.6	615.6	616.0	615.4	615.1
12.5°	611.4	611.8	612.2	612.7	613.5	614.0	614.1	614.6	614.2	614.5	614.0
13°	610.5	610.5	610.8	611.0	612.2	612.8	613.0	613.3	613.4	613.1	612.9
13.5°	608.9	608.9	609.5	610.0	610.9	611.4	611.7	611.9	612.2	611.4	611.5
14°	607.6	607.4	608.0	608.6	609.5	609.9	610.3	610.3	610.7	610.2	609.9
14.5°	605.7	605.8	606.4	607.4	607.9	608.3	609.0	609.2	609.3	609.2	608.5
15°	604.6	604.2	605.1	605.2	606.4	606.8	607.3	608.0	607.7	607.4	607.3
15.5°	602.8	602.6	603.1	603.8	604.7	605.1	605.8	606.2	606.4	605.9	605.4
16°	601.1	601.2	601.4	602.3	603.1	603.5	604.2	604.2	604.8	604.2	603.5
16.5°	599.5	599.7	599.7	600.6	601.2	601.7	602.5	602.5	603.1	602.7	602.0
17°	597.9	598.0	598.4	598.9	599.7	599.9	600.9	601.0	601.1	601.3	600.4
17.5°	596.0	596.1	596.7	597.5	597.8	598.5	599.3	599.3	599.7	599.2	598.9
18°	594.2	594.1	594.7	595.5	596.3	596.8	597.5	597.8	597.9	597.7	597.0
18.5°	592.1	592.0	592.9	593.2	594.2	594.9	595.4	595.8	595.9	595.9	595.3
19°	590.2	590.1	591.0	591.3	592.1	593.0	593.6	593.8	594.4	593.8	593.2
19.5°	588.1	588.2	588.9	589.7	590.3	590.8	592.0	592.0	591.9	592.2	591.3
20°	586.2	586.0	586.8	587.5	588.1	589.2	590.0	590.3	590.3	590.2	589.4
20.5°	584.1	583.8	584.6	585.7	586.1	587.1	587.9	588.3	588.1	588.2	587.6
21°	582.2	581.9	582.4	583.2	584.1	584.7	585.8	586.3	586.3	586.0	585.2
21.5°	579.9	579.6	580.4	581.2	582.1	582.9	583.7	584.2	584.4	583.8	583.2
22°	577.3	577.7	578.4	578.8	579.6	580.7	581.8	582.0	582.1	581.5	580.9

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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°	575.3	575.0	575.9	576.5	577.6	578.4	579.2	579.8	580.0	579.5	578.9
23°	572.9	572.8	573.2	574.5	575.3	576.0	577.2	577.8	577.3	577.3	576.5
23.5°	570.4	570.4	570.8	571.9	572.8	573.5	575.0	575.1	575.0	575.3	574.0
24°	568.0	568.0	568.7	569.4	570.6	571.6	572.8	572.9	572.8	573.0	571.8
24.5°	565.3	565.6	566.1	567.1	568.3	568.9	570.1	570.6	570.6	570.2	569.5
25°	563.2	562.9	563.8	564.4	565.8	566.5	567.8	568.2	568.4	568.2	566.9
25.5°	560.3	560.6	561.0	561.9	562.9	564.1	565.2	565.9	565.6	565.6	564.4
26°	557.7	558.1	558.4	559.5	560.6	561.8	562.5	563.2	562.9	563.2	562.1
26.5°	555.0	555.0	555.5	556.8	558.0	558.9	560.2	560.6	560.3	560.3	559.3
27°	552.7	552.5	553.1	553.8	555.7	556.1	557.6	558.2	557.7	557.9	556.5
27.5°	549.5	549.6	550.4	551.0	552.8	553.5	554.6	555.3	555.2	555.2	554.0
28°	546.6	546.8	547.6	548.4	549.7	551.1	552.2	552.7	552.5	552.4	551.2
28.5°	543.6	543.9	544.5	545.2	547.1	548.1	549.3	549.7	549.7	549.4	548.5
29°	540.8	541.3	541.7	542.6	544.2	545.2	546.7	547.1	547.1	546.6	545.8
29.5°	537.5	537.9	538.7	539.8	541.6	542.3	543.9	544.3	544.4	544.2	542.9
30°	534.6	534.9	535.6	536.9	538.5	539.5	541.0	541.4	541.3	541.3	539.8
30.5°	532.1	532.1	533.0	534.1	535.7	536.5	537.9	538.5	538.3	538.4	537.1
31°	528.9	529.5	529.5	530.7	533.0	533.4	534.8	536.0	535.3	535.5	534.2
31.5°	525.7	525.9	526.7	527.9	529.6	530.7	532.1	532.6	532.6	532.7	531.3
32°	522.8	523.0	523.7	524.8	526.5	527.6	529.4	529.7	529.8	529.8	528.1
32.5°	519.6	519.9	520.1	521.2	523.1	524.5	526.1	526.9	526.3	526.3	525.2
33°	516.1	516.8	516.9	518.2	520.2	521.0	522.8	523.5	522.8	523.2	522.0
33.5°	512.5	513.2	513.8	515.1	516.8	517.8	519.4	520.5	519.9	519.9	518.8
34°	509.4	510.0	510.2	511.8	513.9	514.8	516.3	517.3	516.6	516.7	515.5
34.5°	505.8	506.4	507.2	508.4	510.5	511.6	513.1	514.0	513.3	513.4	512.2
35°	502.6	503.1	503.8	504.9	507.1	508.1	509.8	510.4	510.1	510.1	509.1
35.5°	499.1	499.4	500.3	501.4	503.7	504.9	506.2	507.0	507.0	506.9	505.7
36°	495.7	495.9	496.5	497.9	500.3	501.5	503.2	503.8	503.8	503.4	502.2
36.5°	492.2	492.4	493.4	494.5	497.1	497.8	499.7	500.3	500.3	500.4	498.7
37°	488.6	488.8	489.6	490.9	493.4	494.6	496.2	497.1	496.8	496.8	495.5
37.5°	484.7	485.2	485.9	487.4	489.6	490.9	492.6	493.3	493.1	493.1	492.0
38°	480.9	481.7	482.5	483.7	486.1	487.7	489.3	489.8	489.4	489.3	488.5
38.5°	477.5	478.0	478.6	479.8	482.5	483.8	485.6	486.2	486.2	485.8	484.8
39°	473.8	473.9	474.9	476.2	478.6	480.0	482.0	482.8	482.5	482.2	481.0
39.5°	470.1	470.1	471.2	472.6	474.8	476.5	478.5	479.1	478.8	478.6	477.0
40°	466.2	466.8	467.5	468.9	471.3	473.0	474.4	475.4	475.0	474.9	473.3
40.5°	462.1	462.7	463.8	465.1	467.6	469.2	470.8	471.6	471.4	471.1	469.6
41°	458.3	459.1	459.8	461.4	463.9	465.5	467.0	467.9	467.8	467.3	466.0
41.5°	454.4	455.0	455.9	457.6	460.1	461.7	463.2	463.9	463.9	463.4	462.0
42°	450.4	451.0	451.7	453.6	456.0	457.7	459.2	460.0	459.8	459.5	458.2
42.5°	446.2	447.1	447.6	449.5	452.2	453.6	455.3	456.2	456.0	455.9	454.3
43°	442.1	442.9	443.6	445.4	448.1	449.8	451.5	452.5	452.0	451.7	450.4
43.5°	438.2	438.9	439.7	441.5	443.8	445.7	447.3	448.5	448.1	447.6	446.4
44°	434.4	434.6	435.5	437.2	439.9	441.7	443.5	444.2	444.0	443.6	442.4
44.5°	429.8	430.3	431.5	433.2	435.9	437.7	439.2	440.0	439.9	439.5	438.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	425.7	426.1	427.3	429.1	431.9	433.5	435.1	436.0	435.9	435.6	434.1
45.5°	421.7	421.8	423.0	424.9	427.6	429.2	431.0	431.6	431.9	431.3	429.8
46°	417.3	417.7	418.6	420.7	423.2	425.0	426.9	427.6	427.8	427.4	425.9
46.5°	413.1	413.3	414.3	416.1	418.9	420.8	422.7	423.3	423.4	423.0	421.5
47°	408.6	409.0	410.1	412.0	414.6	416.5	418.4	419.1	419.2	418.6	417.2
47.5°	404.4	404.5	405.9	407.7	410.5	412.3	414.1	414.9	414.8	414.5	413.1
48°	399.9	400.2	401.7	403.3	406.2	407.9	409.9	410.7	410.6	410.1	409.0
48.5°	395.4	395.7	397.1	398.8	401.8	403.6	405.5	406.4	406.4	405.8	404.5
49°	391.1	391.2	392.6	394.4	397.3	399.1	401.3	402.1	402.0	401.4	400.2
49.5°	386.5	386.8	388.1	390.0	392.8	394.7	396.7	397.3	397.7	397.2	395.7
50°	381.7	382.1	383.5	385.4	388.4	390.4	392.5	393.2	393.4	392.8	391.0
50.5°	377.1	377.5	379.0	381.0	383.8	385.9	387.9	388.6	388.6	388.1	386.6
51°	372.6	372.9	374.2	376.3	379.4	381.3	383.2	384.2	384.3	383.4	382.2
51.5°	367.8	368.3	369.6	371.7	374.7	376.8	378.7	379.6	379.7	379.0	377.5
52°	363.1	363.5	364.8	367.0	370.3	372.2	374.4	375.3	375.0	374.3	373.1
52.5°	358.2	358.9	360.3	362.3	365.6	367.5	369.6	370.6	370.3	369.7	368.2
53°	353.6	354.2	355.7	357.6	360.8	362.9	365.0	366.0	365.7	365.2	363.6
53.5°	348.8	349.0	350.8	352.7	356.2	358.3	360.0	361.2	360.9	360.4	359.0
54°	344.0	344.1	345.7	347.8	351.5	353.3	355.5	356.6	356.2	355.9	354.1
54.5°	339.2	339.7	341.1	343.0	346.5	348.7	350.8	351.6	351.5	351.0	349.2
55°	334.3	334.8	336.2	338.4	342.0	344.1	346.1	347.2	346.9	346.3	344.5
55.5°	329.4	329.7	331.4	333.3	337.1	339.3	341.2	342.4	342.2	341.4	339.9
56°	324.4	324.8	326.3	328.5	332.4	334.3	336.6	337.7	337.3	336.5	335.0
56.5°	319.2	319.8	321.5	323.3	327.3	329.3	331.5	332.4	332.5	331.4	330.2
57°	314.2	314.8	316.3	318.2	322.2	324.6	326.7	327.8	327.4	326.7	325.2
57.5°	309.1	309.6	311.1	313.2	317.2	319.4	321.6	322.5	322.5	321.7	320.2
58°	304.3	304.6	306.0	308.3	312.3	314.5	316.8	317.6	317.4	316.6	315.2
58.5°	299.0	299.2	301.0	303.2	307.2	309.5	311.5	312.6	312.7	311.5	310.2
59°	293.7	294.4	295.8	298.1	302.2	304.4	306.6	307.6	307.7	306.3	305.0
59.5°	288.4	289.1	290.6	292.8	297.0	299.4	301.4	302.5	302.3	301.5	299.9
60°	283.1	283.8	285.6	287.8	291.8	294.2	296.3	297.4	297.1	296.3	294.7
60.5°	278.1	278.5	280.0	282.4	286.4	289.1	291.2	292.2	292.1	291.2	289.5
61°	273.0	273.5	275.0	277.5	281.2	283.9	286.1	287.1	286.9	285.8	284.6
61.5°	267.5	268.0	269.7	272.1	276.0	278.7	280.7	281.8	281.9	280.8	279.3
62°	262.0	262.8	264.5	266.7	271.2	273.7	275.7	276.7	276.6	275.7	274.2
62.5°	256.5	257.3	258.8	261.2	265.8	268.4	270.6	271.5	271.4	270.4	268.8
63°	251.2	252.0	253.5	256.0	260.4	263.1	265.2	266.3	266.1	265.2	263.6
63.5°	245.8	246.7	248.2	250.5	255.0	257.7	260.0	260.9	260.9	259.9	258.2
64°	240.2	241.1	242.9	245.2	249.6	252.5	254.5	255.4	255.4	254.4	253.0
64.5°	235.0	235.8	237.4	239.8	244.4	246.9	249.2	250.1	250.1	249.1	247.3
65°	229.5	230.3	232.1	234.5	239.1	241.7	244.0	244.8	244.8	243.9	242.3
65.5°	223.9	224.9	226.5	229.2	233.8	236.3	238.5	239.5	239.5	238.6	236.6
66°	218.3	219.2	220.9	223.4	228.1	230.8	233.0	234.0	233.8	233.0	231.2
66.5°	212.9	213.8	215.2	217.8	222.6	225.2	227.3	228.5	228.3	227.3	225.7
67°	207.6	208.1	209.8	212.4	217.1	219.7	221.9	223.0	222.9	222.0	220.1

TEST NUMBER: P869656
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	201.7	202.7	204.4	206.8	211.6	214.1	216.3	217.5	217.6	216.5	214.6
68°	196.2	196.9	198.8	201.3	206.1	208.8	211.2	212.0	212.1	211.0	209.3
68.5°	190.5	191.3	193.1	195.7	200.7	203.4	205.4	206.5	206.5	205.4	203.9
69°	184.8	185.6	187.5	190.1	195.1	197.7	200.0	201.0	201.0	199.9	198.5
69.5°	179.2	179.9	181.9	184.2	189.5	192.4	194.5	195.5	195.5	194.3	192.5
70°	173.5	174.3	176.2	178.7	183.9	186.6	188.9	189.8	190.0	188.8	186.9
70.5°	167.9	168.7	170.6	173.3	178.5	181.0	183.3	184.4	184.4	183.3	181.4
71°	162.2	162.9	164.9	167.4	172.8	175.7	178.0	178.9	178.9	177.7	175.9
71.5°	156.4	157.3	159.1	161.7	167.1	170.1	172.2	173.2	173.3	172.1	170.1
72°	150.9	151.6	153.5	156.0	161.3	164.4	166.7	167.5	167.7	166.5	164.5
72.5°	145.4	146.2	148.1	150.6	155.8	158.7	161.0	162.1	162.1	160.9	159.0
73°	139.6	140.5	142.4	144.7	150.1	153.0	155.3	156.2	156.4	155.2	153.1
73.5°	133.9	134.7	136.7	139.1	144.7	147.6	149.8	150.7	150.8	149.6	147.7
74°	128.2	129.1	131.0	133.5	139.1	142.0	144.3	145.1	145.3	144.0	142.2
74.5°	122.5	123.4	125.4	127.8	133.4	136.3	138.6	139.6	139.7	138.6	136.4
75°	117.0	117.8	119.8	122.3	127.9	130.6	132.9	133.9	133.9	132.8	130.9
75.5°	111.4	112.3	114.3	116.8	122.2	125.0	127.2	128.4	128.3	127.2	125.2
76°	105.8	106.7	108.6	111.1	116.6	119.4	121.5	122.7	122.8	121.5	119.6
76.5°	100.2	101.2	103.1	105.5	111.1	114.0	116.1	117.0	117.1	116.0	113.9
77°	94.6	95.6	97.6	100.1	105.5	108.3	110.5	111.6	111.4	110.5	108.6
77.5°	89.4	90.4	92.3	94.7	100.0	102.9	105.1	106.0	106.0	104.9	102.9
78°	84.0	84.9	86.8	89.1	94.6	97.4	99.6	100.4	100.5	99.3	97.5
78.5°	78.6	79.5	81.5	84.0	89.0	91.8	94.1	95.0	95.0	93.9	92.0
79°	73.4	74.3	76.3	78.7	83.9	86.4	88.5	89.5	89.5	88.5	86.6
79.5°	68.1	69.0	71.0	73.4	78.5	81.3	83.4	84.3	84.3	83.2	81.2
80°	63.1	63.8	65.8	68.1	73.2	76.0	78.0	79.0	79.1	77.9	76.1
80.5°	57.9	58.9	60.7	63.0	68.1	70.8	72.9	73.8	73.8	72.6	70.7
81°	53.1	54.0	55.7	58.0	63.0	65.5	67.6	68.6	68.6	67.6	65.7
81.5°	48.3	49.3	50.9	53.2	58.0	60.5	62.4	63.4	63.3	62.2	60.5
82°	43.5	44.4	46.1	48.2	52.9	55.6	57.4	58.3	58.4	57.3	55.5
82.5°	39.1	40.0	41.6	43.7	48.3	50.7	52.5	53.4	53.4	52.4	50.6
83°	34.7	35.5	37.1	39.0	43.6	46.1	47.9	48.9	48.7	47.8	46.0
83.5°	30.5	31.3	32.8	34.7	39.0	41.2	43.1	44.1	44.0	42.9	41.3
84°	26.4	27.3	28.8	30.5	34.4	36.9	38.5	39.4	39.4	38.3	36.7
84.5°	22.7	23.5	24.8	26.7	30.3	32.4	34.2	35.0	34.9	33.9	32.4
85°	19.3	20.0	21.4	22.8	26.3	28.3	30.0	30.8	30.7	29.8	28.4
85.5°	15.9	16.5	17.8	19.4	22.5	24.4	25.9	26.6	26.6	25.7	24.3
86°	12.9	13.3	14.6	16.0	19.2	20.7	22.1	22.8	22.7	21.8	20.7
86.5°	9.7	10.3	11.5	12.9	16.1	17.6	18.8	19.5	19.5	18.7	17.3
87°	7.0	7.4	8.4	9.8	13.0	14.5	15.7	16.4	16.3	15.6	14.3
87.5°	5.1	5.3	6.1	7.1	10.1	11.6	12.7	13.2	13.1	12.5	11.4
88°	3.2	3.6	4.1	5.1	7.5	8.7	9.8	10.4	10.3	9.7	8.7
88.5°	1.9	2.1	2.6	3.3	5.2	6.3	7.2	7.7	7.6	7.0	6.2
89°	1.2	1.3	1.6	2.0	3.2	4.3	5.0	5.4	5.3	4.8	4.2
89.5°	0.8	0.7	0.9	1.1	1.8	2.6	3.1	3.4	3.4	3.0	2.4

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



TEST NUMBER: P869656
CATALOG NUMBER: SMX14RLSFSD2W-1600LM-2700K

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: P869656
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	629.3	629.3	629.3	629.3	629.3	629.3
0.5°	629.3	629.8	629.6	629.3	629.4	628.9
1°	629.3	629.8	629.4	629.1	629.3	629.0
1.5°	629.3	629.7	629.3	628.7	628.6	628.8
2°	629.0	629.4	629.0	628.8	628.6	628.6
2.5°	628.7	629.1	628.9	628.5	628.2	628.1
3°	628.5	628.5	628.7	628.2	628.3	627.8
3.5°	628.4	628.4	628.2	627.9	628.1	627.7
4°	628.1	628.0	627.7	627.0	626.9	627.4
4.5°	627.4	627.6	627.5	626.6	626.8	626.6
5°	626.9	627.4	626.8	626.2	625.8	625.9
5.5°	626.7	626.4	626.6	625.8	625.8	625.2
6°	626.0	625.8	625.7	625.1	625.2	624.7
6.5°	625.1	624.9	625.0	624.3	624.4	624.3
7°	624.4	624.3	624.3	623.7	623.8	623.6
7.5°	623.7	623.7	623.6	622.9	623.3	622.9
8°	622.8	622.7	622.7	622.1	622.6	622.0
8.5°	622.3	621.9	621.6	621.3	621.4	620.9
9°	621.6	621.3	621.0	620.1	620.3	619.9
9.5°	620.5	620.3	620.0	619.0	619.3	618.7
10°	619.4	619.0	618.8	618.3	618.3	617.8
10.5°	618.4	618.2	617.8	617.0	616.7	616.6
11°	617.4	617.0	616.7	616.0	615.5	616.0
11.5°	616.1	615.8	615.5	614.7	614.5	614.3
12°	614.9	614.6	614.2	613.6	613.5	613.0
12.5°	613.7	613.5	613.1	612.0	611.9	611.4
13°	612.2	612.4	611.7	610.9	610.7	610.5
13.5°	610.9	610.8	610.3	609.4	609.4	608.9
14°	609.7	609.3	609.2	607.9	607.6	607.6
14.5°	608.0	607.9	607.5	606.5	606.3	605.7
15°	606.6	606.5	605.9	604.9	604.6	604.6
15.5°	605.4	604.9	604.2	603.2	603.1	602.8
16°	603.5	603.3	602.5	601.5	601.4	601.1
16.5°	602.0	601.6	600.8	599.7	599.5	599.5
17°	600.4	599.8	598.9	598.2	597.9	597.9
17.5°	598.9	597.9	597.4	596.3	596.3	596.0
18°	596.8	596.3	595.1	594.4	594.1	594.2
18.5°	595.1	594.6	593.7	592.5	592.5	592.1
19°	593.2	592.5	591.7	590.8	590.3	590.2
19.5°	591.1	590.5	590.0	589.0	588.4	588.1
20°	589.3	588.6	587.7	586.8	586.5	586.2
20.5°	587.3	586.3	585.6	584.5	584.5	584.1
21°	585.0	584.3	583.4	582.5	581.9	582.2
21.5°	582.7	582.2	581.2	580.3	579.8	579.9
22°	580.6	580.0	578.9	577.9	577.1	577.3

TEST NUMBER: P869656
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	578.2	577.5	576.7	575.4	575.1	575.3
23°	576.1	575.5	574.5	573.1	572.7	572.9
23.5°	573.7	573.1	572.4	570.8	570.5	570.4
24°	571.3	570.8	569.6	568.2	567.8	568.0
24.5°	569.2	568.2	567.3	565.6	565.3	565.3
25°	566.9	565.9	564.8	563.7	563.1	563.2
25.5°	564.3	563.5	562.1	560.9	560.6	560.3
26°	561.5	561.0	559.5	558.6	557.8	557.7
26.5°	558.7	558.0	556.8	555.6	555.2	555.0
27°	556.2	555.3	554.3	552.7	552.3	552.7
27.5°	553.9	552.4	551.4	550.1	549.6	549.5
28°	550.6	549.7	548.8	546.9	546.3	546.6
28.5°	548.0	547.0	545.8	544.2	543.3	543.6
29°	545.4	544.1	542.8	541.3	540.6	540.8
29.5°	542.5	541.2	539.9	538.3	537.7	537.5
30°	539.6	538.3	537.2	535.3	534.9	534.6
30.5°	536.5	535.4	534.2	532.6	531.8	532.1
31°	533.7	532.2	530.7	529.5	528.8	528.9
31.5°	530.8	528.8	527.8	526.5	525.7	525.7
32°	527.6	526.1	524.6	523.3	522.3	522.8
32.5°	524.6	522.8	521.7	520.0	519.3	519.6
33°	521.2	519.6	518.4	516.8	516.1	516.1
33.5°	518.0	516.2	514.9	513.5	512.7	512.5
34°	514.7	513.2	511.4	509.9	509.4	509.4
34.5°	511.7	509.6	508.2	506.6	505.6	505.8
35°	508.0	506.4	504.5	503.3	502.5	502.6
35.5°	504.9	503.0	501.7	500.0	499.0	499.1
36°	501.2	499.6	498.1	496.2	495.6	495.7
36.5°	498.1	495.8	494.3	492.6	491.9	492.2
37°	494.3	492.4	490.5	489.4	488.6	488.6
37.5°	491.2	489.1	487.4	485.9	484.9	484.7
38°	487.2	485.2	483.5	481.9	481.0	480.9
38.5°	483.7	481.5	479.7	478.1	477.5	477.5
39°	479.8	477.8	475.9	474.7	473.9	473.8
39.5°	476.4	473.9	472.4	470.8	470.0	470.1
40°	472.3	470.5	468.8	467.0	466.3	466.2
40.5°	468.9	466.7	464.7	463.2	462.6	462.1
41°	464.8	462.8	460.7	459.3	458.5	458.3
41.5°	461.3	458.8	456.8	455.2	454.3	454.4
42°	457.2	454.8	452.9	451.0	450.5	450.4
42.5°	453.2	450.8	449.0	447.2	446.4	446.2
43°	449.3	446.6	445.0	443.1	442.3	442.1
43.5°	445.3	442.7	441.2	439.0	438.4	438.2
44°	441.1	438.7	436.8	434.8	434.1	434.4
44.5°	437.2	434.5	432.7	430.8	429.8	429.8

TEST NUMBER: P869656
 CATALOG NUMBER: SMX14RLSFS2W-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	433.0	430.3	428.4	426.7	425.8	425.7
45.5°	428.8	426.0	424.2	422.2	421.8	421.7
46°	424.5	422.1	419.9	418.2	417.3	417.3
46.5°	420.3	417.4	415.6	413.9	412.7	413.1
47°	416.2	413.4	411.2	409.6	408.3	408.6
47.5°	411.7	409.0	406.8	405.3	404.0	404.4
48°	407.4	404.5	402.5	400.9	399.8	399.9
48.5°	403.3	400.2	398.1	396.4	395.7	395.4
49°	398.8	395.9	393.7	391.8	391.1	391.1
49.5°	394.2	391.3	389.2	387.3	386.2	386.5
50°	389.7	386.6	384.5	382.8	381.8	381.7
50.5°	385.1	382.0	380.1	378.2	377.3	377.1
51°	380.5	377.6	375.4	373.5	372.8	372.6
51.5°	376.3	373.0	370.9	368.9	367.9	367.8
52°	371.5	368.4	366.3	364.4	363.1	363.1
52.5°	366.8	363.5	361.5	359.6	358.5	358.2
53°	362.0	358.8	356.8	354.7	353.6	353.6
53.5°	357.4	354.0	351.7	349.8	348.7	348.8
54°	352.5	349.0	347.1	345.1	343.9	344.0
54.5°	347.9	344.4	342.3	340.3	339.4	339.2
55°	343.0	339.7	337.3	335.4	334.5	334.3
55.5°	338.3	334.6	332.4	330.7	329.5	329.4
56°	333.4	329.6	327.6	325.5	324.4	324.4
56.5°	328.4	324.8	322.4	320.4	319.6	319.2
57°	323.4	319.8	317.5	315.3	314.2	314.2
57.5°	318.4	314.6	312.3	310.2	309.1	309.1
58°	313.4	309.6	307.2	305.1	304.1	304.3
58.5°	308.5	304.5	302.0	299.9	298.9	299.0
59°	303.4	299.3	296.7	294.7	293.7	293.7
59.5°	298.0	294.3	291.8	289.3	288.3	288.4
60°	292.9	288.8	286.4	284.2	283.2	283.1
60.5°	287.7	283.6	281.2	278.8	278.0	278.1
61°	282.4	278.4	275.9	274.0	272.8	273.0
61.5°	277.4	273.1	270.7	268.5	267.5	267.5
62°	272.2	267.8	265.4	263.1	262.1	262.0
62.5°	266.8	262.3	259.9	257.5	256.5	256.5
63°	261.5	257.0	254.5	252.3	251.3	251.2
63.5°	256.1	251.4	249.1	247.0	245.9	245.8
64°	250.8	246.2	243.7	241.7	240.6	240.2
64.5°	245.3	240.9	238.3	236.2	235.0	235.0
65°	240.1	235.4	232.7	230.7	229.5	229.5
65.5°	234.7	229.8	227.3	225.1	224.1	223.9
66°	229.0	224.4	221.7	219.3	218.3	218.3
66.5°	223.4	218.7	216.1	213.9	212.9	212.9
67°	218.0	213.4	210.6	208.5	207.2	207.6

TEST NUMBER: P869656
 CATALOG NUMBER: SMX14RLSFSD2W-1600LM-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	212.9	207.7	205.0	203.1	201.5	201.7
68°	207.2	202.2	199.3	197.2	196.2	196.2
68.5°	201.5	196.6	193.7	191.4	190.4	190.5
69°	195.9	190.9	188.0	186.0	184.6	184.8
69.5°	190.4	185.2	182.5	180.2	179.0	179.2
70°	184.9	179.6	176.9	174.5	173.7	173.5
70.5°	179.2	173.9	171.2	169.1	168.0	167.9
71°	173.5	168.1	165.5	163.2	162.1	162.2
71.5°	168.0	162.5	159.8	157.6	156.2	156.4
72°	162.3	156.9	154.2	151.9	150.9	150.9
72.5°	156.7	151.3	148.7	146.4	145.3	145.4
73°	150.8	145.6	142.8	140.5	139.7	139.6
73.5°	145.4	139.9	137.3	135.0	133.7	133.9
74°	139.8	134.4	131.4	129.3	128.1	128.2
74.5°	134.1	128.7	126.0	123.6	122.4	122.5
75°	128.4	123.0	120.3	118.1	117.1	117.0
75.5°	122.8	117.4	114.7	112.4	111.1	111.4
76°	117.1	111.7	109.0	106.8	105.8	105.8
76.5°	111.7	106.1	103.3	101.3	100.3	100.2
77°	106.0	100.7	98.0	95.8	94.6	94.6
77.5°	100.5	95.3	92.6	90.5	89.4	89.4
78°	95.0	89.7	87.0	85.1	84.0	84.0
78.5°	89.5	84.4	81.9	79.7	78.7	78.6
79°	84.2	79.1	76.5	74.5	73.4	73.4
79.5°	78.8	73.7	71.2	69.1	68.1	68.1
80°	73.7	68.4	65.8	63.9	62.9	63.1
80.5°	68.4	63.4	60.9	58.8	57.8	57.9
81°	63.3	58.2	55.8	54.0	53.1	53.1
81.5°	58.2	53.5	51.1	49.1	48.2	48.3
82°	53.3	48.7	46.3	44.4	43.5	43.5
82.5°	48.6	44.1	41.8	40.0	39.1	39.1
83°	43.8	39.3	37.3	35.5	34.7	34.7
83.5°	39.2	35.0	32.9	31.3	30.5	30.5
84°	34.7	30.9	28.8	27.2	26.4	26.4
84.5°	30.5	26.8	25.0	23.5	22.7	22.7
85°	26.4	22.9	21.4	20.0	19.4	19.3
85.5°	22.6	19.6	17.9	16.6	16.0	15.9
86°	19.1	16.2	14.6	13.4	12.8	12.9
86.5°	16.1	13.1	11.5	10.2	9.7	9.7
87°	13.0	10.0	8.5	7.5	7.0	7.0
87.5°	10.0	7.2	6.2	5.4	5.1	5.1
88°	7.5	5.1	4.3	3.6	3.2	3.2
88.5°	5.1	3.3	2.7	2.3	2.0	1.9
89°	3.3	2.1	1.7	1.3	1.1	1.2
89.5°	1.7	1.3	0.9	0.8	1.0	0.8

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



TEST NUMBER: P869656
CATALOG NUMBER: SMX14RLSFSD2W-1600LM-2700K

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)