

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: P869637

Luminaire Tested: **SMX14RLSFS010-1300LM-3000K**

Issue Date: 8/29/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P869637
 Test Lab:
 Issue Date: 8/29/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: SMX14RLSFS010-1300LM-3000K
 Description: 14IN ROUND, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

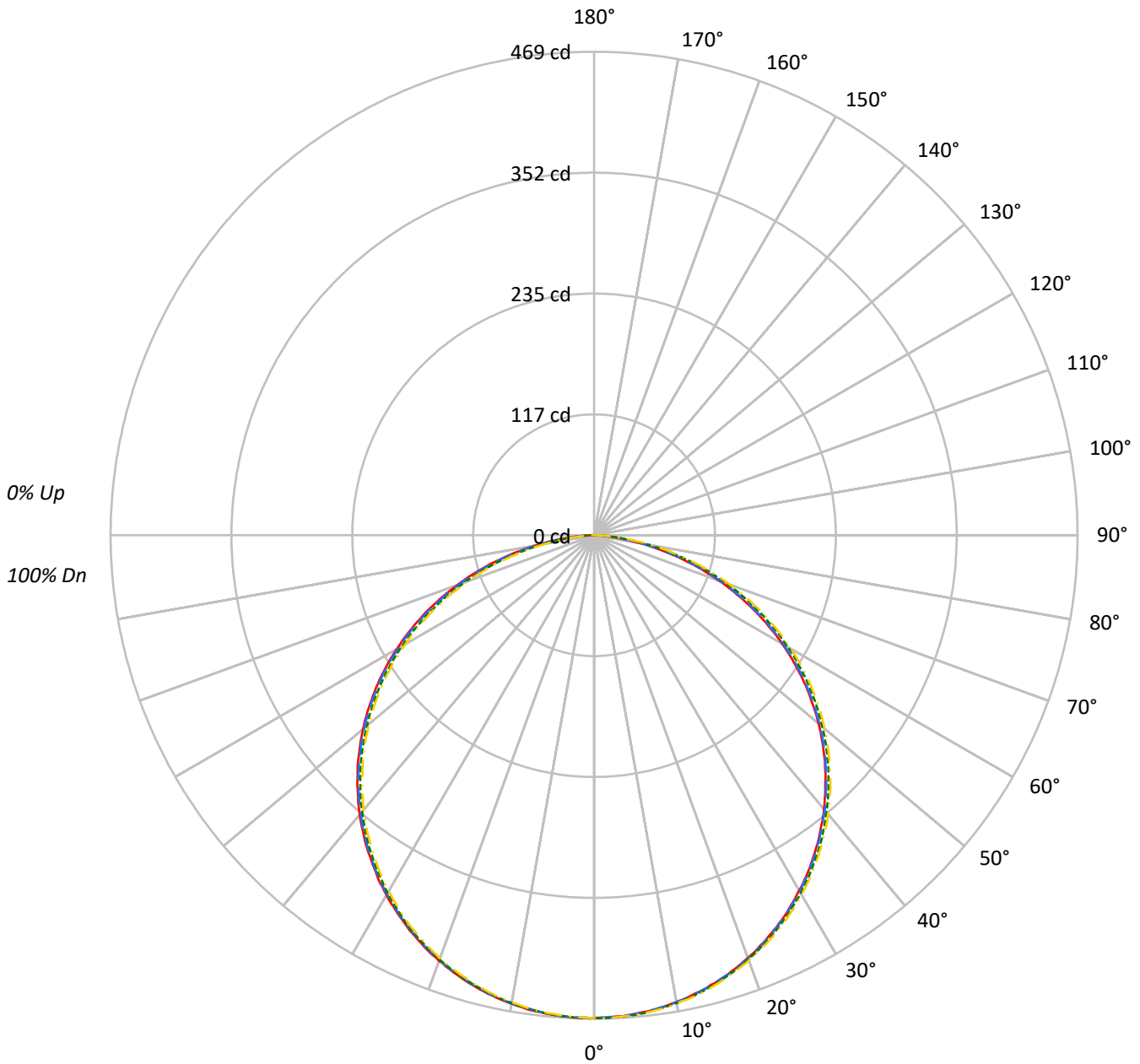
Lumens per Lamp: N/A
 Luminaire Lumens: 1371.3 lumens
 Efficiency: N/A
 Efficacy: 94.6 lumens/watt
 Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
 Luminous Opening: Circular (Dia: 1.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 14.5
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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

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Luminous Intensity Polar Plot



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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20										
RC	80					70					50					30					10					0					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	4713	4713	4713	4713
5°	4706	4717	4716	4716
10°	4698	4711	4714	4708
15°	4688	4702	4712	4703
20°	4672	4687	4706	4692
25°	4655	4676	4697	4677
30°	4624	4657	4682	4655
35°	4595	4636	4663	4630
40°	4558	4608	4644	4600
45°	4510	4575	4618	4558
50°	4448	4526	4584	4504
55°	4365	4465	4530	4435
60°	4241	4369	4452	4327
65°	4067	4236	4338	4172
70°	3799	4028	4160	3934
75°	3383	3702	3876	3558
80°	2718	3158	3408	2950
85°	1663	2263	2644	1974

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	3.2
10°-20°	127.4	9.3
20°-30°	194.0	14.1
30°-40°	235.9	17.2
40°-50°	247.3	18.0
50°-60°	226.4	16.5
60°-70°	174.3	12.7
70°-80°	98.6	7.2
80°-90°	23.0	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°	365.7	26.7
0°-40°	601.6	43.9
0°-60°	1075.3	78.4
0°-90°	1371.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1371.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	468	468	468	468	468	
5°	466	467	467	467	466	44
15°	450	451	452	451	450	127
25°	419	421	423	421	419	193
35°	374	377	380	377	374	234
45°	317	322	324	320	317	244
55°	249	254	258	253	249	222
65°	171	178	182	175	171	169
75°	87	95	100	92	87	92
85°	14	20	23	17	14	19
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°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
0.5°	468.1	468.0	468.0	468.5	468.6	468.8	468.5	468.3	468.2	468.0	468.2
1°	468.2	467.7	467.9	468.6	468.6	468.6	468.5	468.2	468.4	468.1	467.9
1.5°	468.0	467.9	467.8	468.2	468.5	468.6	468.5	468.3	468.5	467.9	468.0
2°	467.9	467.5	467.6	467.9	468.6	468.5	468.2	468.3	468.4	467.7	468.0
2.5°	467.5	467.4	467.7	468.0	468.2	468.3	468.1	468.1	468.2	467.7	467.8
3°	467.3	467.2	467.4	467.6	468.0	468.1	467.8	467.9	468.0	467.7	467.6
3.5°	467.2	466.9	467.3	467.4	468.0	468.0	467.7	467.7	467.6	467.5	467.4
4°	466.9	466.6	466.9	467.2	467.6	467.6	467.5	467.4	467.3	467.3	467.5
4.5°	466.4	466.1	466.5	466.6	467.2	467.3	467.2	467.2	467.0	467.0	466.8
5°	465.9	465.5	466.1	466.6	467.0	466.9	466.9	466.9	466.9	466.6	466.6
5.5°	465.3	465.1	465.7	465.7	466.5	466.5	466.4	466.4	466.5	466.4	466.3
6°	465.0	464.6	465.2	465.2	466.1	466.0	466.0	466.0	466.1	466.0	465.7
6.5°	464.6	464.2	464.9	464.9	465.5	465.6	465.8	465.7	465.6	465.6	465.3
7°	464.1	463.7	463.9	464.3	465.0	464.8	465.3	465.1	465.3	465.1	464.7
7.5°	463.6	463.2	463.3	463.7	464.3	464.3	464.6	464.5	465.0	464.6	464.0
8°	462.9	462.6	462.6	463.2	463.7	463.6	464.1	464.1	464.3	464.1	463.8
8.5°	462.2	461.9	462.3	462.6	463.2	463.0	463.3	463.3	463.4	463.4	463.0
9°	461.4	461.3	461.5	461.7	462.3	462.7	463.0	462.7	462.7	462.5	462.6
9.5°	460.5	460.4	460.7	461.2	461.7	461.7	462.0	462.0	462.3	462.0	461.7
10°	459.8	459.7	459.7	460.5	461.0	461.0	461.4	461.4	461.3	461.5	461.2
10.5°	458.9	459.0	459.2	459.6	460.2	460.3	460.4	460.7	460.8	460.7	460.3
11°	458.4	458.0	458.4	458.9	459.3	459.4	459.6	459.8	460.1	459.7	459.6
11.5°	457.2	457.0	457.8	457.9	458.5	458.5	459.1	459.0	459.3	458.8	458.6
12°	456.3	456.2	456.7	457.0	457.8	457.7	458.2	458.1	458.4	458.0	457.8
12.5°	455.1	455.4	455.7	456.0	456.6	457.0	457.0	457.4	457.1	457.4	457.0
13°	454.4	454.4	454.6	454.7	455.6	456.1	456.3	456.4	456.6	456.3	456.1
13.5°	453.2	453.2	453.7	454.0	454.7	455.0	455.3	455.4	455.6	455.1	455.1
14°	452.3	452.1	452.6	453.0	453.6	453.9	454.2	454.2	454.6	454.1	453.9
14.5°	450.8	450.9	451.3	452.1	452.4	452.7	453.3	453.4	453.5	453.4	452.9
15°	450.0	449.7	450.4	450.4	451.3	451.6	452.0	452.5	452.3	452.1	452.0
15.5°	448.7	448.5	448.9	449.4	450.1	450.4	450.8	451.2	451.3	451.0	450.6
16°	447.4	447.5	447.6	448.3	448.9	449.2	449.7	449.7	450.1	449.7	449.2
16.5°	446.2	446.3	446.3	447.0	447.5	447.8	448.4	448.4	448.8	448.6	448.1
17°	445.0	445.1	445.4	445.8	446.3	446.5	447.3	447.3	447.4	447.5	446.9
17.5°	443.6	443.7	444.1	444.7	444.9	445.5	446.1	446.1	446.3	446.0	445.8
18°	442.2	442.2	442.6	443.2	443.8	444.2	444.7	444.9	445.0	444.8	444.3
18.5°	440.7	440.6	441.2	441.5	442.2	442.8	443.1	443.4	443.5	443.5	443.1
19°	439.3	439.2	439.9	440.1	440.7	441.4	441.8	442.0	442.4	442.0	441.5
19.5°	437.7	437.8	438.3	438.9	439.4	439.7	440.6	440.6	440.5	440.8	440.1
20°	436.3	436.2	436.8	437.2	437.7	438.5	439.1	439.4	439.4	439.2	438.7
20.5°	434.8	434.5	435.1	435.9	436.2	436.9	437.5	437.9	437.7	437.8	437.3
21°	433.3	433.1	433.5	434.1	434.7	435.2	436.0	436.4	436.4	436.2	435.5
21.5°	431.6	431.3	432.0	432.6	433.2	433.8	434.4	434.8	434.9	434.5	434.1
22°	429.7	429.9	430.5	430.8	431.3	432.2	433.0	433.2	433.2	432.8	432.4

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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°	428.2	428.0	428.6	429.1	429.9	430.5	431.1	431.5	431.6	431.3	430.9
23°	426.4	426.3	426.6	427.6	428.2	428.7	429.6	430.1	429.7	429.7	429.1
23.5°	424.5	424.5	424.8	425.6	426.3	426.9	427.9	428.1	428.0	428.2	427.2
24°	422.8	422.8	423.3	423.8	424.7	425.4	426.3	426.4	426.3	426.5	425.6
24.5°	420.7	421.0	421.3	422.0	423.0	423.4	424.3	424.7	424.7	424.4	423.9
25°	419.2	418.9	419.6	420.1	421.1	421.6	422.6	422.9	423.0	422.9	421.9
25.5°	417.0	417.3	417.6	418.2	419.0	419.9	420.7	421.2	421.0	420.9	420.1
26°	415.1	415.4	415.6	416.4	417.3	418.2	418.7	419.2	418.9	419.2	418.3
26.5°	413.1	413.1	413.4	414.4	415.3	416.0	417.0	417.2	417.0	417.0	416.3
27°	411.3	411.2	411.7	412.1	413.6	413.9	415.0	415.4	415.1	415.2	414.2
27.5°	409.0	409.0	409.6	410.1	411.4	412.0	412.8	413.3	413.2	413.2	412.3
28°	406.8	407.0	407.6	408.1	409.1	410.1	411.0	411.3	411.2	411.1	410.3
28.5°	404.6	404.8	405.3	405.8	407.2	407.9	408.9	409.1	409.1	408.9	408.2
29°	402.5	402.8	403.1	403.8	405.0	405.8	406.9	407.2	407.2	406.8	406.2
29.5°	400.0	400.3	401.0	401.7	403.1	403.6	404.8	405.1	405.2	405.0	404.1
30°	397.9	398.1	398.7	399.6	400.8	401.5	402.7	403.0	402.9	402.8	401.8
30.5°	396.0	396.0	396.7	397.5	398.7	399.3	400.3	400.8	400.7	400.7	399.7
31°	393.7	394.1	394.1	395.0	396.7	397.0	398.1	398.9	398.4	398.5	397.6
31.5°	391.3	391.4	392.0	392.9	394.2	395.0	396.0	396.4	396.4	396.5	395.4
32°	389.1	389.2	389.8	390.6	391.9	392.7	394.0	394.2	394.3	394.3	393.1
32.5°	386.7	386.9	387.1	387.9	389.4	390.4	391.5	392.2	391.7	391.7	390.9
33°	384.1	384.6	384.7	385.6	387.2	387.8	389.1	389.7	389.1	389.4	388.5
33.5°	381.5	382.0	382.4	383.4	384.6	385.4	386.6	387.4	386.9	386.9	386.1
34°	379.2	379.6	379.8	380.9	382.5	383.2	384.2	385.0	384.5	384.6	383.6
34.5°	376.5	376.9	377.5	378.4	379.9	380.8	381.9	382.6	382.1	382.1	381.2
35°	374.0	374.5	375.0	375.8	377.4	378.2	379.5	379.9	379.6	379.6	378.9
35.5°	371.5	371.7	372.4	373.2	374.9	375.8	376.8	377.3	377.3	377.3	376.4
36°	368.9	369.1	369.6	370.6	372.3	373.3	374.5	374.9	374.9	374.6	373.8
36.5°	366.3	366.4	367.2	368.0	370.0	370.5	371.9	372.4	372.4	372.5	371.2
37°	363.7	363.8	364.4	365.4	367.2	368.1	369.3	370.0	369.7	369.7	368.8
37.5°	360.7	361.1	361.7	362.7	364.4	365.4	366.6	367.2	367.0	367.0	366.2
38°	357.9	358.5	359.1	360.0	361.8	363.0	364.2	364.6	364.3	364.2	363.6
38.5°	355.4	355.7	356.2	357.1	359.1	360.1	361.4	361.9	361.9	361.6	360.9
39°	352.6	352.7	353.5	354.4	356.2	357.3	358.7	359.3	359.1	358.9	358.0
39.5°	349.9	349.9	350.7	351.7	353.4	354.7	356.1	356.6	356.4	356.2	355.0
40°	347.0	347.4	348.0	349.0	350.8	352.0	353.1	353.8	353.5	353.5	352.3
40.5°	343.9	344.4	345.2	346.2	348.0	349.2	350.4	351.0	350.8	350.7	349.5
41°	341.1	341.7	342.2	343.4	345.2	346.5	347.5	348.2	348.2	347.8	346.8
41.5°	338.2	338.6	339.3	340.6	342.4	343.7	344.8	345.2	345.3	344.9	343.8
42°	335.2	335.7	336.2	337.6	339.4	340.7	341.8	342.4	342.2	342.0	341.1
42.5°	332.1	332.8	333.2	334.6	336.5	337.6	338.9	339.5	339.4	339.3	338.1
43°	329.0	329.6	330.2	331.5	333.5	334.8	336.1	336.8	336.4	336.2	335.2
43.5°	326.2	326.6	327.3	328.6	330.3	331.7	332.9	333.8	333.5	333.1	332.2
44°	323.3	323.5	324.1	325.4	327.4	328.8	330.0	330.6	330.5	330.2	329.3
44.5°	319.9	320.3	321.2	322.4	324.5	325.8	326.9	327.5	327.4	327.1	326.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	316.9	317.2	318.0	319.4	321.5	322.6	323.9	324.5	324.5	324.2	323.1
45.5°	313.9	313.9	314.9	316.2	318.3	319.4	320.8	321.2	321.5	321.0	319.9
46°	310.6	310.8	311.6	313.1	315.0	316.3	317.7	318.3	318.4	318.1	317.0
46.5°	307.4	307.6	308.3	309.7	311.8	313.2	314.6	315.0	315.1	314.9	313.7
47°	304.1	304.4	305.3	306.7	308.6	310.0	311.4	311.9	312.0	311.6	310.5
47.5°	301.0	301.1	302.1	303.4	305.5	306.8	308.2	308.8	308.7	308.5	307.4
48°	297.6	297.8	299.0	300.1	302.3	303.6	305.1	305.7	305.6	305.2	304.4
48.5°	294.3	294.5	295.5	296.8	299.1	300.4	301.8	302.5	302.5	302.0	301.1
49°	291.1	291.2	292.2	293.5	295.7	297.0	298.7	299.2	299.2	298.8	297.8
49.5°	287.6	287.9	288.8	290.3	292.4	293.8	295.2	295.7	296.0	295.6	294.5
50°	284.1	284.4	285.4	286.8	289.1	290.6	292.1	292.7	292.8	292.4	291.0
50.5°	280.7	280.9	282.1	283.6	285.6	287.2	288.7	289.2	289.2	288.9	287.7
51°	277.3	277.5	278.5	280.0	282.4	283.8	285.2	285.9	286.0	285.3	284.5
51.5°	273.7	274.1	275.1	276.6	278.9	280.5	281.9	282.5	282.6	282.1	280.9
52°	270.2	270.6	271.5	273.2	275.6	277.0	278.6	279.3	279.1	278.6	277.7
52.5°	266.6	267.1	268.2	269.6	272.1	273.5	275.1	275.8	275.6	275.2	274.0
53°	263.2	263.6	264.7	266.1	268.6	270.1	271.6	272.4	272.2	271.8	270.6
53.5°	259.6	259.8	261.1	262.5	265.1	266.7	267.9	268.8	268.6	268.3	267.2
54°	256.0	256.1	257.3	258.8	261.6	263.0	264.6	265.4	265.1	264.9	263.6
54.5°	252.5	252.8	253.8	255.3	257.9	259.6	261.1	261.7	261.6	261.3	259.9
55°	248.8	249.2	250.2	251.9	254.5	256.1	257.6	258.4	258.2	257.7	256.4
55.5°	245.2	245.4	246.7	248.1	250.9	252.5	254.0	254.8	254.7	254.1	253.0
56°	241.5	241.7	242.9	244.5	247.4	248.8	250.5	251.3	251.0	250.5	249.3
56.5°	237.6	238.0	239.3	240.6	243.6	245.1	246.7	247.4	247.5	246.7	245.8
57°	233.8	234.3	235.4	236.8	239.8	241.6	243.2	244.0	243.7	243.1	242.1
57.5°	230.0	230.4	231.6	233.1	236.1	237.7	239.4	240.1	240.1	239.5	238.3
58°	226.5	226.7	227.7	229.5	232.4	234.1	235.8	236.4	236.2	235.6	234.6
58.5°	222.5	222.7	224.0	225.6	228.6	230.3	231.9	232.7	232.8	231.9	230.9
59°	218.6	219.1	220.2	221.9	224.9	226.6	228.2	228.9	229.0	228.0	227.0
59.5°	214.6	215.1	216.3	217.9	221.0	222.8	224.3	225.2	225.0	224.4	223.2
60°	210.7	211.2	212.6	214.2	217.1	219.0	220.6	221.3	221.2	220.5	219.3
60.5°	207.0	207.3	208.4	210.2	213.1	215.2	216.7	217.5	217.4	216.7	215.5
61°	203.2	203.5	204.7	206.5	209.3	211.3	213.0	213.7	213.5	212.7	211.8
61.5°	199.1	199.5	200.7	202.5	205.4	207.4	208.9	209.7	209.8	209.0	207.9
62°	195.0	195.6	196.8	198.5	201.8	203.7	205.2	206.0	205.9	205.2	204.1
62.5°	190.9	191.5	192.6	194.4	197.8	199.8	201.4	202.1	202.0	201.2	200.1
63°	186.9	187.6	188.7	190.5	193.8	195.8	197.4	198.2	198.1	197.4	196.2
63.5°	182.9	183.6	184.8	186.5	189.8	191.8	193.5	194.2	194.2	193.4	192.2
64°	178.7	179.5	180.7	182.5	185.8	187.9	189.4	190.1	190.1	189.3	188.3
64.5°	174.9	175.5	176.7	178.5	181.9	183.8	185.5	186.1	186.1	185.4	184.0
65°	170.8	171.4	172.7	174.6	177.9	179.9	181.6	182.2	182.2	181.5	180.3
65.5°	166.7	167.4	168.6	170.6	174.0	175.9	177.5	178.2	178.3	177.6	176.1
66°	162.5	163.1	164.4	166.3	169.7	171.8	173.4	174.2	174.0	173.4	172.1
66.5°	158.4	159.1	160.2	162.1	165.7	167.6	169.2	170.0	169.9	169.1	168.0
67°	154.5	154.9	156.1	158.1	161.6	163.6	165.1	166.0	165.9	165.3	163.8

TEST NUMBER: P869637
 CATALOG NUMBER: SMX14RLSFS010-1300LM-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	150.1	150.8	152.1	154.0	157.5	159.4	161.0	161.9	162.0	161.1	159.7
68°	146.0	146.5	147.9	149.8	153.4	155.4	157.2	157.8	157.8	157.0	155.8
68.5°	141.8	142.4	143.7	145.6	149.4	151.4	152.9	153.7	153.7	152.9	151.8
69°	137.5	138.1	139.5	141.5	145.2	147.2	148.9	149.6	149.6	148.8	147.7
69.5°	133.3	133.9	135.4	137.1	141.1	143.2	144.8	145.5	145.5	144.6	143.3
70°	129.1	129.7	131.2	133.0	136.9	138.9	140.6	141.3	141.4	140.5	139.1
70.5°	125.0	125.6	127.0	129.0	132.9	134.7	136.4	137.2	137.2	136.5	135.0
71°	120.7	121.2	122.7	124.6	128.6	130.7	132.5	133.2	133.2	132.3	130.9
71.5°	116.4	117.1	118.4	120.3	124.4	126.6	128.2	128.9	129.0	128.1	126.6
72°	112.3	112.8	114.3	116.1	120.1	122.3	124.1	124.7	124.8	123.9	122.4
72.5°	108.2	108.8	110.2	112.1	116.0	118.1	119.8	120.6	120.7	119.7	118.3
73°	103.9	104.5	106.0	107.7	111.7	113.9	115.6	116.3	116.4	115.5	114.0
73.5°	99.7	100.2	101.7	103.5	107.7	109.8	111.5	112.2	112.3	111.4	110.0
74°	95.4	96.1	97.5	99.4	103.5	105.7	107.4	108.0	108.1	107.2	105.8
74.5°	91.2	91.9	93.3	95.1	99.3	101.5	103.2	103.9	104.0	103.1	101.5
75°	87.0	87.7	89.2	91.0	95.2	97.2	98.9	99.7	99.7	98.8	97.4
75.5°	82.9	83.6	85.0	86.9	90.9	93.1	94.7	95.5	95.5	94.6	93.2
76°	78.7	79.4	80.9	82.7	86.8	88.9	90.5	91.3	91.4	90.5	89.0
76.5°	74.6	75.3	76.7	78.5	82.7	84.9	86.4	87.1	87.2	86.3	84.8
77°	70.4	71.1	72.7	74.5	78.5	80.6	82.3	83.0	82.9	82.2	80.8
77.5°	66.6	67.3	68.7	70.5	74.4	76.6	78.2	78.9	78.9	78.1	76.6
78°	62.5	63.2	64.6	66.3	70.4	72.5	74.1	74.7	74.8	73.9	72.6
78.5°	58.5	59.2	60.7	62.5	66.3	68.3	70.0	70.7	70.7	69.9	68.4
79°	54.6	55.3	56.8	58.5	62.4	64.3	65.9	66.6	66.6	65.8	64.5
79.5°	50.7	51.4	52.8	54.6	58.4	60.5	62.1	62.7	62.7	62.0	60.4
80°	46.9	47.5	49.0	50.7	54.5	56.5	58.1	58.8	58.8	58.0	56.7
80.5°	43.1	43.8	45.2	46.9	50.7	52.7	54.2	54.9	54.9	54.1	52.6
81°	39.5	40.2	41.5	43.2	46.9	48.8	50.3	51.1	51.1	50.3	48.9
81.5°	35.9	36.7	37.9	39.6	43.2	45.0	46.5	47.2	47.1	46.3	45.0
82°	32.4	33.0	34.3	35.9	39.4	41.3	42.7	43.4	43.5	42.6	41.3
82.5°	29.1	29.7	31.0	32.5	35.9	37.8	39.1	39.8	39.8	39.0	37.7
83°	25.8	26.4	27.6	29.0	32.5	34.3	35.6	36.4	36.3	35.6	34.2
83.5°	22.7	23.3	24.4	25.8	29.0	30.7	32.1	32.8	32.7	31.9	30.7
84°	19.7	20.3	21.4	22.7	25.6	27.4	28.7	29.3	29.3	28.5	27.3
84.5°	16.9	17.5	18.5	19.8	22.6	24.1	25.4	26.0	26.0	25.3	24.1
85°	14.4	14.9	15.9	17.0	19.6	21.1	22.3	22.9	22.9	22.1	21.1
85.5°	11.8	12.3	13.3	14.4	16.7	18.1	19.3	19.8	19.8	19.1	18.1
86°	9.6	9.9	10.8	11.9	14.3	15.4	16.4	17.0	16.9	16.3	15.4
86.5°	7.2	7.7	8.5	9.6	12.0	13.1	14.0	14.5	14.5	13.9	12.9
87°	5.2	5.5	6.2	7.3	9.7	10.8	11.7	12.2	12.1	11.6	10.7
87.5°	3.8	3.9	4.5	5.3	7.5	8.6	9.5	9.8	9.8	9.3	8.5
88°	2.4	2.7	3.1	3.8	5.6	6.5	7.3	7.7	7.7	7.2	6.5
88.5°	1.4	1.6	1.9	2.5	3.9	4.7	5.4	5.7	5.7	5.2	4.6
89°	0.9	0.9	1.2	1.5	2.4	3.2	3.7	4.0	3.9	3.6	3.1
89.5°	0.6	0.5	0.6	0.8	1.4	1.9	2.3	2.5	2.5	2.2	1.8

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



TEST NUMBER: P869637
CATALOG NUMBER: SMX14RLSFS010-1300LM-3000K

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: P869637
 CATALOG NUMBER: SMX14RLSFS010-1300LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	468.3	468.3	468.3	468.3	468.3	468.3
0.5°	468.3	468.7	468.6	468.3	468.5	468.1
1°	468.3	468.7	468.5	468.2	468.3	468.2
1.5°	468.4	468.7	468.4	467.9	467.9	468.0
2°	468.2	468.5	468.2	468.0	467.9	467.9
2.5°	467.9	468.2	468.0	467.7	467.6	467.5
3°	467.7	467.8	467.9	467.6	467.6	467.3
3.5°	467.7	467.7	467.6	467.3	467.5	467.2
4°	467.5	467.4	467.2	466.7	466.6	466.9
4.5°	467.0	467.1	467.0	466.4	466.5	466.4
5°	466.6	466.9	466.5	466.0	465.8	465.9
5.5°	466.5	466.2	466.3	465.7	465.7	465.3
6°	465.9	465.8	465.7	465.2	465.3	465.0
6.5°	465.3	465.1	465.2	464.6	464.7	464.6
7°	464.7	464.7	464.6	464.2	464.3	464.1
7.5°	464.2	464.2	464.1	463.6	463.9	463.6
8°	463.6	463.4	463.4	463.0	463.4	462.9
8.5°	463.2	462.9	462.6	462.4	462.5	462.2
9°	462.6	462.4	462.2	461.5	461.7	461.4
9.5°	461.9	461.7	461.4	460.7	460.9	460.5
10°	461.0	460.7	460.6	460.2	460.1	459.8
10.5°	460.3	460.1	459.8	459.2	459.0	458.9
11°	459.5	459.2	459.0	458.5	458.1	458.4
11.5°	458.6	458.3	458.1	457.5	457.4	457.2
12°	457.7	457.4	457.1	456.7	456.6	456.3
12.5°	456.8	456.6	456.3	455.5	455.4	455.1
13°	455.7	455.8	455.3	454.7	454.6	454.4
13.5°	454.7	454.6	454.2	453.6	453.6	453.2
14°	453.8	453.5	453.4	452.4	452.2	452.3
14.5°	452.5	452.4	452.1	451.4	451.3	450.8
15°	451.5	451.4	451.0	450.2	450.0	450.0
15.5°	450.5	450.2	449.7	449.0	448.8	448.7
16°	449.2	449.0	448.4	447.7	447.6	447.4
16.5°	448.0	447.8	447.1	446.3	446.2	446.2
17°	446.8	446.4	445.8	445.2	445.0	445.0
17.5°	445.7	445.0	444.7	443.8	443.8	443.6
18°	444.2	443.8	442.9	442.4	442.2	442.2
18.5°	443.0	442.5	441.9	441.0	441.0	440.7
19°	441.5	441.0	440.4	439.7	439.4	439.3
19.5°	439.9	439.5	439.1	438.4	437.9	437.7
20°	438.6	438.1	437.4	436.7	436.5	436.3
20.5°	437.1	436.4	435.8	435.1	435.0	434.8
21°	435.4	434.9	434.2	433.5	433.1	433.3
21.5°	433.7	433.3	432.6	431.9	431.5	431.6
22°	432.1	431.6	430.9	430.1	429.5	429.7

TEST NUMBER: P869637
 CATALOG NUMBER: SMX14RLSFS010-1300LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	430.3	429.8	429.2	428.3	428.1	428.2
23°	428.8	428.3	427.6	426.5	426.2	426.4
23.5°	427.0	426.6	426.0	424.8	424.6	424.5
24°	425.2	424.8	423.9	422.9	422.6	422.8
24.5°	423.6	422.9	422.2	421.0	420.7	420.7
25°	421.9	421.2	420.4	419.5	419.1	419.2
25.5°	420.0	419.4	418.3	417.5	417.2	417.0
26°	417.9	417.5	416.4	415.7	415.2	415.1
26.5°	415.8	415.3	414.4	413.5	413.2	413.1
27°	414.0	413.3	412.6	411.4	411.1	411.3
27.5°	412.3	411.1	410.4	409.4	409.0	409.0
28°	409.8	409.1	408.4	407.0	406.6	406.8
28.5°	407.9	407.1	406.3	405.0	404.4	404.6
29°	405.9	405.0	404.0	402.9	402.4	402.5
29.5°	403.8	402.8	401.8	400.6	400.2	400.0
30°	401.6	400.6	399.8	398.4	398.1	397.9
30.5°	399.3	398.5	397.6	396.4	395.8	396.0
31°	397.2	396.1	395.0	394.1	393.6	393.7
31.5°	395.1	393.5	392.8	391.9	391.3	391.3
32°	392.7	391.5	390.5	389.5	388.8	389.1
32.5°	390.4	389.1	388.3	387.0	386.5	386.7
33°	387.9	386.7	385.8	384.6	384.1	384.1
33.5°	385.5	384.2	383.2	382.2	381.6	381.5
34°	383.1	382.0	380.6	379.5	379.1	379.2
34.5°	380.8	379.3	378.2	377.0	376.3	376.5
35°	378.1	376.9	375.5	374.6	374.0	374.0
35.5°	375.8	374.4	373.4	372.1	371.4	371.5
36°	373.0	371.9	370.7	369.3	368.9	368.9
36.5°	370.7	369.0	367.9	366.6	366.1	366.3
37°	367.9	366.5	365.0	364.3	363.6	363.7
37.5°	365.6	364.0	362.8	361.7	360.9	360.7
38°	362.6	361.1	359.9	358.7	358.0	357.9
38.5°	360.0	358.4	357.0	355.8	355.4	355.4
39°	357.1	355.6	354.2	353.3	352.7	352.6
39.5°	354.6	352.7	351.6	350.4	349.8	349.9
40°	351.5	350.2	348.9	347.6	347.1	347.0
40.5°	349.0	347.4	345.9	344.8	344.3	343.9
41°	346.0	344.5	342.9	341.8	341.2	341.1
41.5°	343.4	341.5	340.0	338.8	338.1	338.2
42°	340.3	338.5	337.1	335.7	335.3	335.2
42.5°	337.3	335.5	334.2	332.8	332.2	332.1
43°	334.4	332.4	331.2	329.8	329.2	329.0
43.5°	331.4	329.5	328.3	326.8	326.3	326.2
44°	328.3	326.5	325.1	323.6	323.1	323.3
44.5°	325.4	323.4	322.0	320.6	319.9	319.9

TEST NUMBER: P869637
 CATALOG NUMBER: SMX14RLSFS010-1300LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	322.3	320.3	318.9	317.6	316.9	316.9
45.5°	319.2	317.1	315.7	314.2	313.9	313.9
46°	316.0	314.1	312.5	311.3	310.6	310.6
46.5°	312.9	310.7	309.3	308.0	307.1	307.4
47°	309.7	307.7	306.0	304.8	303.9	304.1
47.5°	306.4	304.4	302.8	301.7	300.7	301.0
48°	303.2	301.1	299.6	298.4	297.5	297.6
48.5°	300.1	297.8	296.3	295.0	294.5	294.3
49°	296.8	294.7	293.0	291.6	291.1	291.1
49.5°	293.4	291.2	289.7	288.2	287.5	287.6
50°	290.1	287.7	286.2	284.9	284.2	284.1
50.5°	286.6	284.3	282.9	281.5	280.8	280.7
51°	283.2	281.0	279.4	278.0	277.5	277.3
51.5°	280.1	277.6	276.0	274.6	273.8	273.7
52°	276.5	274.2	272.6	271.2	270.3	270.2
52.5°	273.0	270.5	269.0	267.6	266.9	266.6
53°	269.4	267.0	265.6	264.0	263.1	263.2
53.5°	266.0	263.5	261.8	260.3	259.6	259.6
54°	262.3	259.8	258.3	256.8	256.0	256.0
54.5°	258.9	256.3	254.8	253.3	252.6	252.5
55°	255.3	252.8	251.1	249.7	249.0	248.8
55.5°	251.8	249.0	247.4	246.1	245.2	245.2
56°	248.1	245.3	243.8	242.3	241.4	241.5
56.5°	244.4	241.7	239.9	238.5	237.9	237.6
57°	240.7	238.0	236.3	234.7	233.9	233.8
57.5°	237.0	234.2	232.4	230.9	230.0	230.0
58°	233.2	230.4	228.6	227.1	226.3	226.5
58.5°	229.6	226.6	224.8	223.2	222.4	222.5
59°	225.8	222.7	220.9	219.3	218.6	218.6
59.5°	221.8	219.0	217.2	215.3	214.6	214.6
60°	218.0	215.0	213.1	211.5	210.8	210.7
60.5°	214.1	211.1	209.3	207.5	206.9	207.0
61°	210.2	207.2	205.4	203.9	203.0	203.2
61.5°	206.4	203.2	201.5	199.8	199.1	199.1
62°	202.6	199.3	197.5	195.8	195.1	195.0
62.5°	198.6	195.2	193.5	191.6	190.9	190.9
63°	194.6	191.3	189.4	187.8	187.1	186.9
63.5°	190.6	187.1	185.4	183.8	183.0	182.9
64°	186.6	183.2	181.4	179.9	179.0	178.7
64.5°	182.6	179.3	177.3	175.8	174.9	174.9
65°	178.7	175.2	173.2	171.7	170.8	170.8
65.5°	174.7	171.0	169.2	167.6	166.8	166.7
66°	170.4	167.0	165.0	163.2	162.5	162.5
66.5°	166.3	162.8	160.8	159.2	158.4	158.4
67°	162.3	158.8	156.8	155.2	154.2	154.5

TEST NUMBER: P869637
 CATALOG NUMBER: SMX14RLSFS010-1300LM-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	158.4	154.6	152.5	151.1	150.0	150.1
68°	154.2	150.5	148.3	146.8	146.0	146.0
68.5°	150.0	146.3	144.2	142.5	141.7	141.8
69°	145.8	142.1	139.9	138.5	137.4	137.5
69.5°	141.7	137.9	135.8	134.1	133.2	133.3
70°	137.6	133.7	131.7	129.9	129.3	129.1
70.5°	133.3	129.5	127.4	125.9	125.0	125.0
71°	129.2	125.1	123.2	121.5	120.6	120.7
71.5°	125.0	120.9	119.0	117.3	116.3	116.4
72°	120.8	116.8	114.8	113.1	112.3	112.3
72.5°	116.6	112.6	110.7	109.0	108.1	108.2
73°	112.3	108.4	106.3	104.6	104.0	103.9
73.5°	108.2	104.1	102.2	100.5	99.5	99.7
74°	104.1	100.0	97.8	96.2	95.4	95.4
74.5°	99.8	95.8	93.8	92.0	91.1	91.2
75°	95.5	91.5	89.5	87.9	87.2	87.0
75.5°	91.4	87.3	85.4	83.6	82.7	82.9
76°	87.2	83.1	81.2	79.5	78.7	78.7
76.5°	83.1	79.0	76.9	75.4	74.6	74.6
77°	78.9	75.0	73.0	71.3	70.4	70.4
77.5°	74.8	70.9	68.9	67.4	66.6	66.6
78°	70.7	66.7	64.8	63.3	62.5	62.5
78.5°	66.6	62.8	61.0	59.3	58.6	58.5
79°	62.7	58.8	57.0	55.4	54.7	54.6
79.5°	58.7	54.8	53.0	51.4	50.7	50.7
80°	54.8	50.9	49.0	47.5	46.8	46.9
80.5°	50.9	47.2	45.3	43.8	43.1	43.1
81°	47.1	43.3	41.5	40.2	39.5	39.5
81.5°	43.3	39.8	38.0	36.6	35.9	35.9
82°	39.6	36.2	34.5	33.0	32.4	32.4
82.5°	36.2	32.8	31.1	29.8	29.1	29.1
83°	32.6	29.3	27.7	26.4	25.9	25.8
83.5°	29.2	26.0	24.5	23.3	22.7	22.7
84°	25.8	23.0	21.4	20.3	19.7	19.7
84.5°	22.7	20.0	18.6	17.5	16.9	16.9
85°	19.7	17.1	15.9	14.9	14.4	14.4
85.5°	16.8	14.6	13.3	12.4	11.9	11.8
86°	14.3	12.1	10.9	10.0	9.5	9.6
86.5°	12.0	9.7	8.5	7.6	7.2	7.2
87°	9.7	7.4	6.3	5.6	5.2	5.2
87.5°	7.5	5.4	4.6	4.0	3.8	3.8
88°	5.6	3.8	3.2	2.7	2.4	2.4
88.5°	3.8	2.5	2.0	1.7	1.5	1.4
89°	2.5	1.6	1.2	0.9	0.8	0.9
89.5°	1.3	0.9	0.7	0.6	0.8	0.6

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P869637
CATALOG NUMBER: SMX14RLSFS010-1300LM-3000K

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)