

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: P895722

Luminaire Tested: **RLWZC409-3000K**

Issue Date: 11/14/2024

Tested By:

Approved By:



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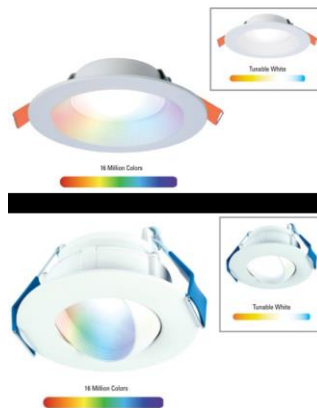
Test Information

Test Method: LM-79-08
 Report Number: P895722
 Test Lab:
 Issue Date: 11/14/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: RLWZC409-3000K
 Description: 4IN DM WiZ SELECTABLE CCT
 Light Source: WiZ SELECTABLE 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 925.0 lumens
 Efficiency: N/A
 Efficacy: 90.7 lumens/watt
 Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.29
 Luminous Opening: Circular (Dia: 0.33' x H: 0')
 CIE Type: Direct

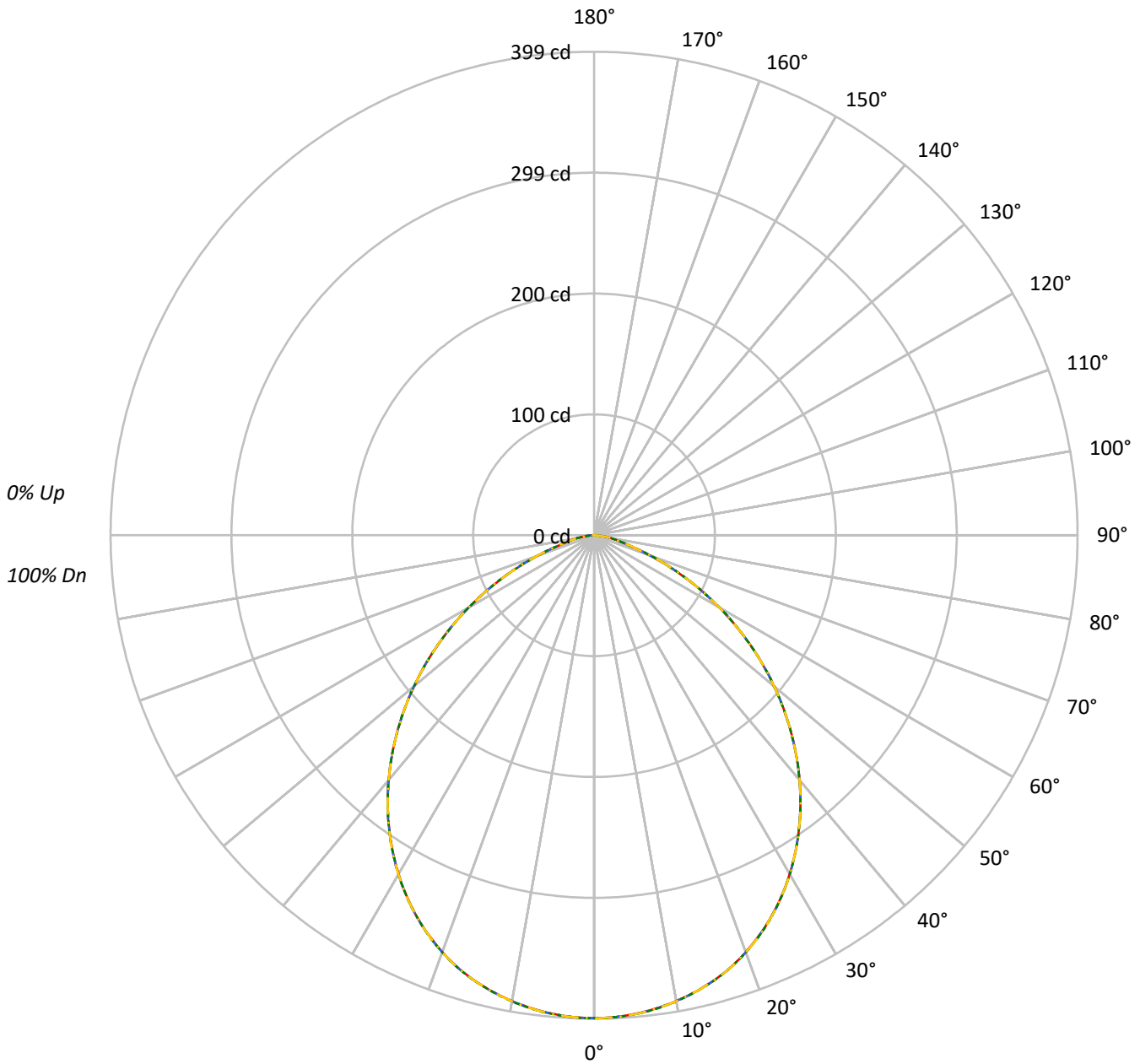
Input Watts (W): 10.2
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



Measurements		Calibration Due Date	
Instrument	Identification		
Photometer	GONIO 1 11111111	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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	30	55	43	35	30	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	50164	50164	50164	50164
5°	50065	50103	50065	50103
10°	49877	49915	49877	49915
15°	49588	49614	49588	49614
20°	49031	49071	49031	49071
25°	48143	48170	48143	48170
30°	46909	46938	46909	46938
35°	45307	45337	45307	45337
40°	43338	43322	43338	43322
45°	40899	40899	40899	40899
50°	37963	37983	37963	37983
55°	34448	34492	34448	34492
60°	30078	30179	30078	30179
65°	24806	24865	24806	24865
70°	18398	18619	18398	18619
75°	12594	13031	12594	13031
80°	10291	10436	10291	10436
85°	7653	7797	7653	7797

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	4.1
10°-20°	107.3	11.6
20°-30°	159.6	17.3
30°-40°	184.2	19.9
40°-50°	176.9	19.1
50°-60°	140.2	15.2
60°-70°	82.8	9.0
70°-80°	30.0	3.2
80°-90°	6.4	0.7
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°	304.5	32.9
0°-40°	488.7	52.8
0°-60°	805.8	87.1
0°-90°	925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	399	399	399	399	399	
5°	396	397	396	397	396	38
15°	381	381	381	381	381	107
25°	347	347	347	347	347	160
35°	295	295	295	295	295	184
45°	230	230	230	230	230	177
55°	157	157	157	157	157	140
65°	83	84	83	84	83	83
75°	26	27	26	27	26	30
85°	5	5	5	5	5	6
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°	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6
0.5°	398.5	398.5	398.6	398.6	398.6	398.6	398.6	398.5	398.5	398.5	398.6
1°	398.4	398.4	398.5	398.5	398.6	398.5	398.5	398.4	398.4	398.4	398.5
1.5°	398.3	398.3	398.4	398.4	398.5	398.4	398.4	398.3	398.3	398.3	398.4
2°	398.1	398.2	398.2	398.2	398.3	398.2	398.2	398.2	398.1	398.2	398.2
2.5°	398.0	398.0	398.0	398.1	398.1	398.1	398.0	398.0	398.0	398.0	398.0
3°	397.7	397.8	397.8	397.8	397.9	397.8	397.8	397.8	397.7	397.8	397.8
3.5°	397.5	397.5	397.6	397.6	397.6	397.6	397.6	397.5	397.5	397.5	397.6
4°	397.2	397.2	397.2	397.2	397.3	397.2	397.2	397.2	397.2	397.2	397.2
4.5°	396.8	396.8	396.9	396.9	397.0	396.9	396.9	396.8	396.8	396.8	396.9
5°	396.3	396.4	396.5	396.5	396.6	396.5	396.5	396.4	396.3	396.4	396.5
5.5°	395.9	396.0	396.1	396.0	396.1	396.0	396.1	396.0	395.9	396.0	396.1
6°	395.5	395.6	395.7	395.7	395.8	395.7	395.7	395.6	395.5	395.6	395.7
6.5°	395.0	395.1	395.1	395.1	395.3	395.1	395.1	395.1	395.0	395.1	395.1
7°	394.4	394.5	394.6	394.6	394.7	394.6	394.6	394.5	394.4	394.5	394.6
7.5°	393.8	393.9	394.0	394.0	394.1	394.0	394.0	393.9	393.8	393.9	394.0
8°	393.2	393.3	393.3	393.3	393.5	393.3	393.3	393.3	393.2	393.3	393.3
8.5°	392.5	392.6	392.7	392.7	392.7	392.7	392.7	392.6	392.5	392.6	392.7
9°	391.9	392.0	392.0	392.1	392.1	392.1	392.0	392.0	391.9	392.0	392.0
9.5°	391.2	391.2	391.3	391.3	391.4	391.3	391.3	391.2	391.2	391.2	391.3
10°	390.3	390.4	390.5	390.5	390.6	390.5	390.5	390.4	390.3	390.4	390.5
10.5°	389.5	389.6	389.6	389.7	389.8	389.7	389.6	389.6	389.5	389.6	389.6
11°	388.7	388.8	388.8	388.8	388.9	388.8	388.8	388.8	388.7	388.8	388.8
11.5°	387.8	387.9	388.0	388.0	388.1	388.0	388.0	387.9	387.8	387.9	388.0
12°	386.9	386.9	387.0	387.0	387.1	387.0	387.0	386.9	386.9	386.9	387.0
12.5°	385.9	385.9	386.0	386.0	386.1	386.0	386.0	385.9	385.9	385.9	386.0
13°	385.0	385.0	385.1	385.1	385.2	385.1	385.1	385.0	385.0	385.0	385.1
13.5°	383.9	383.9	384.0	384.0	384.1	384.0	384.0	383.9	383.9	383.9	384.0
14°	382.8	382.8	382.9	383.0	383.0	383.0	382.9	382.8	382.8	382.8	382.9
14.5°	381.7	381.7	381.8	381.8	381.9	381.8	381.8	381.7	381.7	381.7	381.8
15°	380.6	380.6	380.7	380.7	380.8	380.7	380.7	380.6	380.6	380.6	380.7
15.5°	379.4	379.4	379.5	379.5	379.6	379.5	379.5	379.4	379.4	379.4	379.5
16°	378.1	378.1	378.2	378.2	378.3	378.2	378.2	378.1	378.1	378.1	378.2
16.5°	376.9	376.9	377.0	376.9	377.0	376.9	377.0	376.9	376.9	376.9	377.0
17°	375.5	375.6	375.6	375.5	375.6	375.5	375.6	375.6	375.5	375.6	375.6
17.5°	374.1	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.1	374.2	374.2
18°	372.6	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.6	372.7	372.7
18.5°	371.0	371.1	371.1	371.1	371.2	371.1	371.1	371.1	371.0	371.1	371.1
19°	369.4	369.5	369.6	369.6	369.7	369.6	369.6	369.5	369.4	369.5	369.6
19.5°	367.8	367.8	367.9	367.9	368.0	367.9	367.9	367.8	367.8	367.8	367.9
20°	366.1	366.2	366.3	366.3	366.4	366.3	366.3	366.2	366.1	366.2	366.3
20.5°	364.3	364.4	364.5	364.5	364.6	364.5	364.5	364.4	364.3	364.4	364.5
21°	362.6	362.6	362.8	362.7	362.8	362.7	362.8	362.6	362.6	362.6	362.8
21.5°	360.7	360.8	360.9	360.8	360.9	360.8	360.9	360.8	360.7	360.8	360.9
22°	358.9	359.0	359.1	359.0	359.2	359.0	359.1	359.0	358.9	359.0	359.1

TEST NUMBER: P895722
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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°	356.9	357.0	357.1	357.1	357.2	357.1	357.1	357.0	356.9	357.0	357.1
23°	355.0	355.1	355.2	355.2	355.3	355.2	355.2	355.1	355.0	355.1	355.2
23.5°	353.1	353.1	353.2	353.2	353.3	353.2	353.2	353.1	353.1	353.1	353.2
24°	350.9	351.0	351.1	351.1	351.2	351.1	351.1	351.0	350.9	351.0	351.1
24.5°	348.8	348.9	349.0	349.0	349.2	349.0	349.0	348.9	348.8	348.9	349.0
25°	346.7	346.7	346.8	346.8	346.9	346.8	346.8	346.7	346.7	346.7	346.8
25.5°	344.5	344.6	344.7	344.7	344.7	344.7	344.7	344.6	344.5	344.6	344.7
26°	342.3	342.4	342.5	342.5	342.6	342.5	342.5	342.4	342.3	342.4	342.5
26.5°	340.0	340.0	340.1	340.1	340.2	340.1	340.1	340.0	340.0	340.0	340.1
27°	337.7	337.7	337.9	337.8	338.0	337.8	337.9	337.7	337.7	337.7	337.9
27.5°	335.3	335.4	335.5	335.5	335.5	335.5	335.5	335.4	335.3	335.4	335.5
28°	332.9	332.9	333.0	333.0	333.1	333.0	333.0	332.9	332.9	332.9	333.0
28.5°	330.5	330.5	330.6	330.5	330.7	330.5	330.6	330.5	330.5	330.5	330.6
29°	328.0	328.0	328.1	328.1	328.2	328.1	328.1	328.0	328.0	328.0	328.1
29.5°	325.4	325.4	325.5	325.5	325.6	325.5	325.5	325.4	325.4	325.4	325.5
30°	322.8	322.9	323.0	322.9	323.0	322.9	323.0	322.9	322.8	322.9	323.0
30.5°	320.2	320.3	320.4	320.3	320.4	320.3	320.4	320.3	320.2	320.3	320.4
31°	317.6	317.6	317.7	317.7	317.8	317.7	317.7	317.6	317.6	317.6	317.7
31.5°	314.8	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.8	314.9	314.9
32°	312.1	312.1	312.2	312.1	312.2	312.1	312.2	312.1	312.1	312.1	312.2
32.5°	309.4	309.4	309.5	309.4	309.5	309.4	309.5	309.4	309.4	309.4	309.5
33°	306.6	306.6	306.7	306.6	306.7	306.6	306.7	306.6	306.6	306.6	306.7
33.5°	303.7	303.7	303.8	303.7	303.8	303.7	303.8	303.7	303.7	303.7	303.8
34°	300.8	300.8	300.9	300.8	300.9	300.8	300.9	300.8	300.8	300.8	300.9
34.5°	297.9	297.9	298.0	297.9	298.0	297.9	298.0	297.9	297.9	297.9	298.0
35°	294.9	295.0	295.0	295.0	295.1	295.0	295.0	295.0	294.9	295.0	295.0
35.5°	292.0	292.0	292.1	292.0	292.1	292.0	292.1	292.0	292.0	292.0	292.1
36°	289.1	289.0	289.1	289.0	289.1	289.0	289.1	289.0	289.1	289.0	289.1
36.5°	285.9	285.9	286.0	285.9	285.9	285.9	286.0	285.9	285.9	285.9	286.0
37°	282.8	282.8	282.9	282.8	282.9	282.8	282.9	282.8	282.8	282.8	282.9
37.5°	279.7	279.8	279.8	279.7	279.7	279.7	279.8	279.8	279.7	279.8	279.8
38°	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6
38.5°	273.4	273.5	273.5	273.4	273.4	273.4	273.5	273.5	273.4	273.5	273.5
39°	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3
39.5°	267.0	267.1	267.1	267.0	267.1	267.0	267.1	267.1	267.0	267.1	267.1
40°	263.8	263.8	263.8	263.7	263.7	263.7	263.8	263.8	263.8	263.8	263.8
40.5°	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5
41°	257.2	257.2	257.2	257.2	257.1	257.2	257.2	257.2	257.2	257.2	257.2
41.5°	253.8	253.8	253.8	253.8	253.8	253.8	253.8	253.8	253.8	253.8	253.8
42°	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4
42.5°	247.1	247.1	247.1	247.0	247.0	247.0	247.1	247.1	247.1	247.1	247.1
43°	243.6	243.7	243.7	243.6	243.7	243.6	243.7	243.7	243.6	243.7	243.7
43.5°	240.2	240.2	240.3	240.2	240.2	240.2	240.3	240.2	240.2	240.2	240.3
44°	236.7	236.8	236.8	236.7	236.7	236.7	236.8	236.8	236.7	236.8	236.8
44.5°	233.3	233.3	233.4	233.2	233.2	233.2	233.4	233.3	233.3	233.3	233.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	229.8	229.8	229.9	229.7	229.8	229.7	229.9	229.8	229.8	229.8	229.9
45.5°	226.4	226.3	226.4	226.3	226.3	226.3	226.4	226.3	226.4	226.3	226.4
46°	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8	222.8
46.5°	219.2	219.3	219.3	219.2	219.2	219.2	219.3	219.3	219.2	219.3	219.3
47°	215.6	215.7	215.7	215.6	215.7	215.6	215.7	215.7	215.6	215.7	215.7
47.5°	212.1	212.1	212.1	212.0	212.1	212.0	212.1	212.1	212.1	212.1	212.1
48°	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5
48.5°	204.9	204.9	204.9	204.8	204.9	204.8	204.9	204.9	204.9	204.9	204.9
49°	201.2	201.3	201.3	201.3	201.3	201.3	201.3	201.3	201.2	201.3	201.3
49.5°	197.6	197.6	197.7	197.6	197.7	197.6	197.7	197.6	197.6	197.6	197.7
50°	193.9	194.0	194.0	194.0	194.0	194.0	194.0	194.0	193.9	194.0	194.0
50.5°	190.3	190.3	190.4	190.3	190.3	190.3	190.4	190.3	190.3	190.3	190.4
51°	186.6	186.6	186.7	186.6	186.7	186.6	186.7	186.6	186.6	186.6	186.7
51.5°	183.0	182.9	183.0	182.9	183.0	182.9	183.0	182.9	183.0	182.9	183.0
52°	179.3	179.3	179.3	179.3	179.4	179.3	179.3	179.3	179.3	179.3	179.3
52.5°	175.7	175.6	175.7	175.7	175.7	175.7	175.7	175.6	175.7	175.6	175.7
53°	171.9	171.9	172.0	172.0	172.0	172.0	172.0	171.9	171.9	171.9	172.0
53.5°	168.2	168.2	168.2	168.2	168.3	168.2	168.2	168.2	168.2	168.2	168.2
54°	164.4	164.5	164.5	164.5	164.6	164.5	164.5	164.5	164.4	164.5	164.5
54.5°	160.7	160.7	160.8	160.8	160.9	160.8	160.8	160.7	160.7	160.7	160.8
55°	157.0	157.0	157.1	157.1	157.2	157.1	157.1	157.0	157.0	157.0	157.1
55.5°	153.2	153.3	153.3	153.3	153.4	153.3	153.3	153.3	153.2	153.3	153.3
56°	149.5	149.5	149.6	149.6	149.6	149.6	149.6	149.5	149.5	149.5	149.6
56.5°	145.8	145.8	145.9	145.9	145.9	145.9	145.9	145.8	145.8	145.8	145.9
57°	142.0	142.1	142.1	142.1	142.2	142.1	142.1	142.1	142.0	142.1	142.1
57.5°	138.3	138.3	138.3	138.4	138.5	138.4	138.3	138.3	138.3	138.3	138.3
58°	134.6	134.6	134.6	134.7	134.7	134.7	134.6	134.6	134.6	134.6	134.6
58.5°	130.8	130.8	130.9	130.9	131.0	130.9	130.9	130.8	130.8	130.8	130.9
59°	127.0	127.1	127.1	127.2	127.3	127.2	127.1	127.1	127.0	127.1	127.1
59.5°	123.3	123.4	123.4	123.5	123.6	123.5	123.4	123.4	123.3	123.4	123.4
60°	119.5	119.6	119.7	119.8	119.9	119.8	119.7	119.6	119.5	119.6	119.7
60.5°	115.8	115.9	116.0	116.1	116.2	116.1	116.0	115.9	115.8	115.9	116.0
61°	112.1	112.2	112.3	112.3	112.4	112.3	112.3	112.2	112.1	112.2	112.3
61.5°	108.4	108.5	108.6	108.7	108.8	108.7	108.6	108.5	108.4	108.5	108.6
62°	104.8	104.8	104.9	105.0	105.1	105.0	104.9	104.8	104.8	104.8	104.9
62.5°	101.2	101.2	101.3	101.4	101.4	101.4	101.3	101.2	101.2	101.2	101.3
63°	97.5	97.6	97.6	97.7	97.8	97.7	97.6	97.6	97.5	97.6	97.6
63.5°	93.9	93.9	94.1	94.1	94.2	94.1	94.1	93.9	93.9	93.9	94.1
64°	90.3	90.4	90.5	90.5	90.6	90.5	90.5	90.4	90.3	90.4	90.5
64.5°	86.7	86.9	87.0	87.0	87.1	87.0	87.0	86.9	86.7	86.9	87.0
65°	83.3	83.3	83.4	83.4	83.5	83.4	83.4	83.3	83.3	83.3	83.4
65.5°	79.7	79.8	79.9	79.9	80.0	79.9	79.9	79.8	79.7	79.8	79.9
66°	76.2	76.3	76.4	76.4	76.5	76.4	76.4	76.3	76.2	76.3	76.4
66.5°	72.8	72.8	72.9	73.0	73.1	73.0	72.9	72.8	72.8	72.8	72.9
67°	69.3	69.4	69.5	69.6	69.8	69.6	69.5	69.4	69.3	69.4	69.5

TEST NUMBER: P895722
 CATALOG NUMBER: RLWZC409-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	66.0	66.0	66.2	66.3	66.4	66.3	66.2	66.0	66.0	66.0	66.2
68°	62.6	62.7	62.9	63.0	63.2	63.0	62.9	62.7	62.6	62.7	62.9
68.5°	59.4	59.5	59.7	59.7	59.9	59.7	59.7	59.5	59.4	59.5	59.7
69°	56.2	56.3	56.5	56.6	56.8	56.6	56.5	56.3	56.2	56.3	56.5
69.5°	53.1	53.2	53.4	53.5	53.6	53.5	53.4	53.2	53.1	53.2	53.4
70°	50.0	50.1	50.4	50.5	50.6	50.5	50.4	50.1	50.0	50.1	50.4
70.5°	47.1	47.2	47.4	47.5	47.7	47.5	47.4	47.2	47.1	47.2	47.4
71°	44.3	44.4	44.5	44.6	44.8	44.6	44.5	44.4	44.3	44.4	44.5
71.5°	41.4	41.5	41.8	41.9	42.3	41.9	41.8	41.5	41.4	41.5	41.8
72°	38.8	38.9	39.2	39.3	39.7	39.3	39.2	38.9	38.8	38.9	39.2
72.5°	36.4	36.5	36.8	36.8	37.3	36.8	36.8	36.5	36.4	36.5	36.8
73°	34.0	34.1	34.2	34.3	34.7	34.3	34.2	34.1	34.0	34.1	34.2
73.5°	31.7	31.8	32.0	32.1	32.4	32.1	32.0	31.8	31.7	31.8	32.0
74°	29.6	29.8	30.0	30.2	30.3	30.2	30.0	29.8	29.6	29.8	30.0
74.5°	27.6	27.8	28.1	28.4	28.5	28.4	28.1	27.8	27.6	27.8	28.1
75°	25.9	26.0	26.3	26.6	26.8	26.6	26.3	26.0	25.9	26.0	26.3
75.5°	24.4	24.4	24.5	25.0	25.1	25.0	24.5	24.4	24.4	24.4	24.5
76°	23.0	23.0	23.1	23.3	23.5	23.3	23.1	23.0	23.0	23.0	23.1
76.5°	21.6	21.7	21.8	21.9	22.1	21.9	21.8	21.7	21.6	21.7	21.8
77°	20.3	20.4	20.6	20.6	20.7	20.6	20.6	20.4	20.3	20.4	20.6
77.5°	19.3	19.3	19.5	19.5	19.5	19.5	19.5	19.3	19.3	19.3	19.5
78°	18.2	18.2	18.3	18.4	18.4	18.4	18.3	18.2	18.2	18.2	18.3
78.5°	17.2	17.2	17.3	17.3	17.3	17.3	17.3	17.2	17.2	17.2	17.3
79°	16.2	16.2	16.2	16.3	16.3	16.3	16.2	16.2	16.2	16.2	16.2
79.5°	15.2	15.3	15.3	15.4	15.4	15.4	15.3	15.3	15.2	15.3	15.3
80°	14.2	14.3	14.3	14.4	14.4	14.4	14.3	14.3	14.2	14.3	14.3
80.5°	13.3	13.3	13.3	13.4	13.4	13.4	13.3	13.3	13.3	13.3	13.3
81°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
81.5°	11.4	11.5	11.5	11.5	11.6	11.5	11.5	11.5	11.4	11.5	11.5
82°	10.5	10.5	10.5	10.6	10.6	10.6	10.5	10.5	10.5	10.5	10.5
82.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
83°	8.7	8.7	8.8	8.9	8.9	8.9	8.8	8.7	8.7	8.7	8.8
83.5°	7.8	7.8	7.9	7.9	8.0	7.9	7.9	7.8	7.8	7.8	7.9
84°	6.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9	7.0	7.0
84.5°	6.1	6.1	6.1	6.2	6.2	6.2	6.1	6.1	6.1	6.1	6.1
85°	5.3	5.3	5.3	5.3	5.4	5.3	5.3	5.3	5.3	5.3	5.3
85.5°	4.4	4.5	4.6	4.6	4.7	4.6	4.6	4.5	4.4	4.5	4.6
86°	3.6	3.7	3.7	3.8	3.9	3.8	3.7	3.7	3.6	3.7	3.7
86.5°	2.8	2.9	2.9	3.0	3.1	3.0	2.9	2.9	2.8	2.9	2.9
87°	2.1	2.1	2.2	2.3	2.4	2.3	2.2	2.1	2.1	2.1	2.2
87.5°	1.5	1.5	1.7	1.8	1.8	1.8	1.7	1.5	1.5	1.5	1.7
88°	0.8	1.0	1.2	1.4	1.6	1.4	1.2	1.0	0.8	1.0	1.2
88.5°	0.4	0.5	0.7	1.0	1.2	1.0	0.7	0.5	0.4	0.5	0.7
89°	0.2	0.2	0.4	0.6	0.7	0.6	0.4	0.2	0.2	0.2	0.4
89.5°	0.0	0.1	0.2	0.3	0.4	0.3	0.2	0.1	0.0	0.1	0.2

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



TEST NUMBER: P895722
CATALOG NUMBER: RLWZC409-3000K

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: P895722
 CATALOG NUMBER: RLWZC409-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	398.6	398.6	398.6	398.6	398.6	398.6
0.5°	398.6	398.6	398.6	398.6	398.5	398.5
1°	398.5	398.6	398.5	398.5	398.4	398.4
1.5°	398.4	398.5	398.4	398.4	398.3	398.3
2°	398.2	398.3	398.2	398.2	398.2	398.1
2.5°	398.1	398.1	398.1	398.0	398.0	398.0
3°	397.8	397.9	397.8	397.8	397.8	397.7
3.5°	397.6	397.6	397.6	397.6	397.5	397.5
4°	397.2	397.3	397.2	397.2	397.2	397.2
4.5°	396.9	397.0	396.9	396.9	396.8	396.8
5°	396.5	396.6	396.5	396.5	396.4	396.3
5.5°	396.0	396.1	396.0	396.1	396.0	395.9
6°	395.7	395.8	395.7	395.7	395.6	395.5
6.5°	395.1	395.3	395.1	395.1	395.1	395.0
7°	394.6	394.7	394.6	394.6	394.5	394.4
7.5°	394.0	394.1	394.0	394.0	393.9	393.8
8°	393.3	393.5	393.3	393.3	393.3	393.2
8.5°	392.7	392.7	392.7	392.7	392.6	392.5
9°	392.1	392.1	392.1	392.0	392.0	391.9
9.5°	391.3	391.4	391.3	391.3	391.2	391.2
10°	390.5	390.6	390.5	390.5	390.4	390.3
10.5°	389.7	389.8	389.7	389.6	389.6	389.5
11°	388.8	388.9	388.8	388.8	388.8	388.7
11.5°	388.0	388.1	388.0	388.0	387.9	387.8
12°	387.0	387.1	387.0	387.0	386.9	386.9
12.5°	386.0	386.1	386.0	386.0	385.9	385.9
13°	385.1	385.2	385.1	385.1	385.0	385.0
13.5°	384.0	384.1	384.0	384.0	383.9	383.9
14°	383.0	383.0	383.0	382.9	382.8	382.8
14.5°	381.8	381.9	381.8	381.8	381.7	381.7
15°	380.7	380.8	380.7	380.7	380.6	380.6
15.5°	379.5	379.6	379.5	379.5	379.4	379.4
16°	378.2	378.3	378.2	378.2	378.1	378.1
16.5°	376.9	377.0	376.9	377.0	376.9	376.9
17°	375.5	375.6	375.5	375.6	375.6	375.5
17.5°	374.2	374.2	374.2	374.2	374.2	374.1
18°	372.7	372.7	372.7	372.7	372.7	372.6
18.5°	371.1	371.2	371.1	371.1	371.1	371.0
19°	369.6	369.7	369.6	369.6	369.5	369.4
19.5°	367.9	368.0	367.9	367.9	367.8	367.8
20°	366.3	366.4	366.3	366.3	366.2	366.1
20.5°	364.5	364.6	364.5	364.5	364.4	364.3
21°	362.7	362.8	362.7	362.8	362.6	362.6
21.5°	360.8	360.9	360.8	360.9	360.8	360.7
22°	359.0	359.2	359.0	359.1	359.0	358.9

TEST NUMBER: P895722
 CATALOG NUMBER: RLWZC409-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	357.1	357.2	357.1	357.1	357.0	356.9
23°	355.2	355.3	355.2	355.2	355.1	355.0
23.5°	353.2	353.3	353.2	353.2	353.1	353.1
24°	351.1	351.2	351.1	351.1	351.0	350.9
24.5°	349.0	349.2	349.0	349.0	348.9	348.8
25°	346.8	346.9	346.8	346.8	346.7	346.7
25.5°	344.7	344.7	344.7	344.7	344.6	344.5
26°	342.5	342.6	342.5	342.5	342.4	342.3
26.5°	340.1	340.2	340.1	340.1	340.0	340.0
27°	337.8	338.0	337.8	337.9	337.7	337.7
27.5°	335.5	335.5	335.5	335.5	335.4	335.3
28°	333.0	333.1	333.0	333.0	332.9	332.9
28.5°	330.5	330.7	330.5	330.6	330.5	330.5
29°	328.1	328.2	328.1	328.1	328.0	328.0
29.5°	325.5	325.6	325.5	325.5	325.4	325.4
30°	322.9	323.0	322.9	323.0	322.9	322.8
30.5°	320.3	320.4	320.3	320.4	320.3	320.2
31°	317.7	317.8	317.7	317.7	317.6	317.6
31.5°	314.9	314.9	314.9	314.9	314.9	314.8
32°	312.1	312.2	312.1	312.2	312.1	312.1
32.5°	309.4	309.5	309.4	309.5	309.4	309.4
33°	306.6	306.7	306.6	306.7	306.6	306.6
33.5°	303.7	303.8	303.7	303.8	303.7	303.7
34°	300.8	300.9	300.8	300.9	300.8	300.8
34.5°	297.9	298.0	297.9	298.0	297.9	297.9
35°	295.0	295.1	295.0	295.0	295.0	294.9
35.5°	292.0	292.1	292.0	292.1	292.0	292.0
36°	289.0	289.1	289.0	289.1	289.0	289.1
36.5°	285.9	285.9	285.9	286.0	285.9	285.9
37°	282.8	282.9	282.8	282.9	282.8	282.8
37.5°	279.7	279.7	279.7	279.8	279.8	279.7
38°	276.6	276.6	276.6	276.6	276.6	276.6
38.5°	273.4	273.4	273.4	273.5	273.5	273.4
39°	270.3	270.3	270.3	270.3	270.3	270.3
39.5°	267.0	267.1	267.0	267.1	267.1	267.0
40°	263.7	263.7	263.7	263.8	263.8	263.8
40.5°	260.5	260.5	260.5	260.5	260.5	260.5
41°	257.2	257.1	257.2	257.2	257.2	257.2
41.5°	253.8	253.8	253.8	253.8	253.8	253.8
42°	250.4	250.4	250.4	250.4	250.4	250.4
42.5°	247.0	247.0	247.0	247.1	247.1	247.1
43°	243.6	243.7	243.6	243.7	243.7	243.6
43.5°	240.2	240.2	240.2	240.3	240.2	240.2
44°	236.7	236.7	236.7	236.8	236.8	236.7
44.5°	233.2	233.2	233.2	233.4	233.3	233.3

TEST NUMBER: P895722
 CATALOG NUMBER: RLWZC409-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	229.7	229.8	229.7	229.9	229.8	229.8
45.5°	226.3	226.3	226.3	226.4	226.3	226.4
46°	222.8	222.8	222.8	222.8	222.8	222.8
46.5°	219.2	219.2	219.2	219.3	219.3	219.2
47°	215.6	215.7	215.6	215.7	215.7	215.6
47.5°	212.0	212.1	212.0	212.1	212.1	212.1
48°	208.5	208.5	208.5	208.5	208.5	208.5
48.5°	204.8	204.9	204.8	204.9	204.9	204.9
49°	201.3	201.3	201.3	201.3	201.3	201.2
49.5°	197.6	197.7	197.6	197.7	197.6	197.6
50°	194.0	194.0	194.0	194.0	194.0	193.9
50.5°	190.3	190.3	190.3	190.4	190.3	190.3
51°	186.6	186.7	186.6	186.7	186.6	186.6
51.5°	182.9	183.0	182.9	183.0	182.9	183.0
52°	179.3	179.4	179.3	179.3	179.3	179.3
52.5°	175.7	175.7	175.7	175.7	175.6	175.7
53°	172.0	172.0	172.0	172.0	171.9	171.9
53.5°	168.2	168.3	168.2	168.2	168.2	168.2
54°	164.5	164.6	164.5	164.5	164.5	164.4
54.5°	160.8	160.9	160.8	160.8	160.7	160.7
55°	157.1	157.2	157.1	157.1	157.0	157.0
55.5°	153.3	153.4	153.3	153.3	153.3	153.2
56°	149.6	149.6	149.6	149.6	149.5	149.5
56.5°	145.9	145.9	145.9	145.9	145.8	145.8
57°	142.1	142.2	142.1	142.1	142.1	142.0
57.5°	138.4	138.5	138.4	138.3	138.3	138.3
58°	134.7	134.7	134.7	134.6	134.6	134.6
58.5°	130.9	131.0	130.9	130.9	130.8	130.8
59°	127.2	127.3	127.2	127.1	127.1	127.0
59.5°	123.5	123.6	123.5	123.4	123.4	123.3
60°	119.8	119.9	119.8	119.7	119.6	119.5
60.5°	116.1	116.2	116.1	116.0	115.9	115.8
61°	112.3	112.4	112.3	112.3	112.2	112.1
61.5°	108.7	108.8	108.7	108.6	108.5	108.4
62°	105.0	105.1	105.0	104.9	104.8	104.8
62.5°	101.4	101.4	101.4	101.3	101.2	101.2
63°	97.7	97.8	97.7	97.6	97.6	97.5
63.5°	94.1	94.2	94.1	94.1	93.9	93.9
64°	90.5	90.6	90.5	90.5	90.4	90.3
64.5°	87.0	87.1	87.0	87.0	86.9	86.7
65°	83.4	83.5	83.4	83.4	83.3	83.3
65.5°	79.9	80.0	79.9	79.9	79.8	79.7
66°	76.4	76.5	76.4	76.4	76.3	76.2
66.5°	73.0	73.1	73.0	72.9	72.8	72.8
67°	69.6	69.8	69.6	69.5	69.4	69.3

TEST NUMBER: P895722
 CATALOG NUMBER: RLWZC409-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	66.3	66.4	66.3	66.2	66.0	66.0
68°	63.0	63.2	63.0	62.9	62.7	62.6
68.5°	59.7	59.9	59.7	59.7	59.5	59.4
69°	56.6	56.8	56.6	56.5	56.3	56.2
69.5°	53.5	53.6	53.5	53.4	53.2	53.1
70°	50.5	50.6	50.5	50.4	50.1	50.0
70.5°	47.5	47.7	47.5	47.4	47.2	47.1
71°	44.6	44.8	44.6	44.5	44.4	44.3
71.5°	41.9	42.3	41.9	41.8	41.5	41.4
72°	39.3	39.7	39.3	39.2	38.9	38.8
72.5°	36.8	37.3	36.8	36.8	36.5	36.4
73°	34.3	34.7	34.3	34.2	34.1	34.0
73.5°	32.1	32.4	32.1	32.0	31.8	31.7
74°	30.2	30.3	30.2	30.0	29.8	29.6
74.5°	28.4	28.5	28.4	28.1	27.8	27.6
75°	26.6	26.8	26.6	26.3	26.0	25.9
75.5°	25.0	25.1	25.0	24.5	24.4	24.4
76°	23.3	23.5	23.3	23.1	23.0	23.0
76.5°	21.9	22.1	21.9	21.8	21.7	21.6
77°	20.6	20.7	20.6	20.6	20.4	20.3
77.5°	19.5	19.5	19.5	19.5	19.3	19.3
78°	18.4	18.4	18.4	18.3	18.2	18.2
78.5°	17.3	17.3	17.3	17.3	17.2	17.2
79°	16.3	16.3	16.3	16.2	16.2	16.2
79.5°	15.4	15.4	15.4	15.3	15.3	15.2
80°	14.4	14.4	14.4	14.3	14.3	14.2
80.5°	13.4	13.4	13.4	13.3	13.3	13.3
81°	12.4	12.4	12.4	12.4	12.4	12.4
81.5°	11.5	11.6	11.5	11.5	11.5	11.4
82°	10.6	10.6	10.6	10.5	10.5	10.5
82.5°	9.6	9.6	9.6	9.6	9.6	9.6
83°	8.9	8.9	8.9	8.8	8.7	8.7
83.5°	7.9	8.0	7.9	7.9	7.8	7.8
84°	7.0	7.0	7.0	7.0	7.0	6.9
84.5°	6.2	6.2	6.2	6.1	6.1	6.1
85°	5.3	5.4	5.3	5.3	5.3	5.3
85.5°	4.6	4.7	4.6	4.6	4.5	4.4
86°	3.8	3.9	3.8	3.7	3.7	3.6
86.5°	3.0	3.1	3.0	2.9	2.9	2.8
87°	2.3	2.4	2.3	2.2	2.1	2.1
87.5°	1.8	1.8	1.8	1.7	1.5	1.5
88°	1.4	1.6	1.4	1.2	1.0	0.8
88.5°	1.0	1.2	1.0	0.7	0.5	0.4
89°	0.6	0.7	0.6	0.4	0.2	0.2
89.5°	0.3	0.4	0.3	0.2	0.1	0.0

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P895722
CATALOG NUMBER: RLWZC409-3000K

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)