

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: P895723

Luminaire Tested: **RLWZC409-3500K**

Issue Date: 11/14/2024

Tested By:

Approved By:



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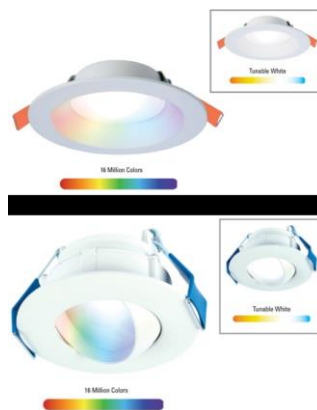
Test Information

Test Method: LM-79-08
 Report Number: P895723
 Test Lab:
 Issue Date: 11/14/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: RLWZC409-3500K
 Description: 4IN DM WiZ SELECTABLE CCT
 Light Source: WiZ SELECTABLE 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 935.0 lumens
 Efficiency: N/A
 Efficacy: 91.7 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

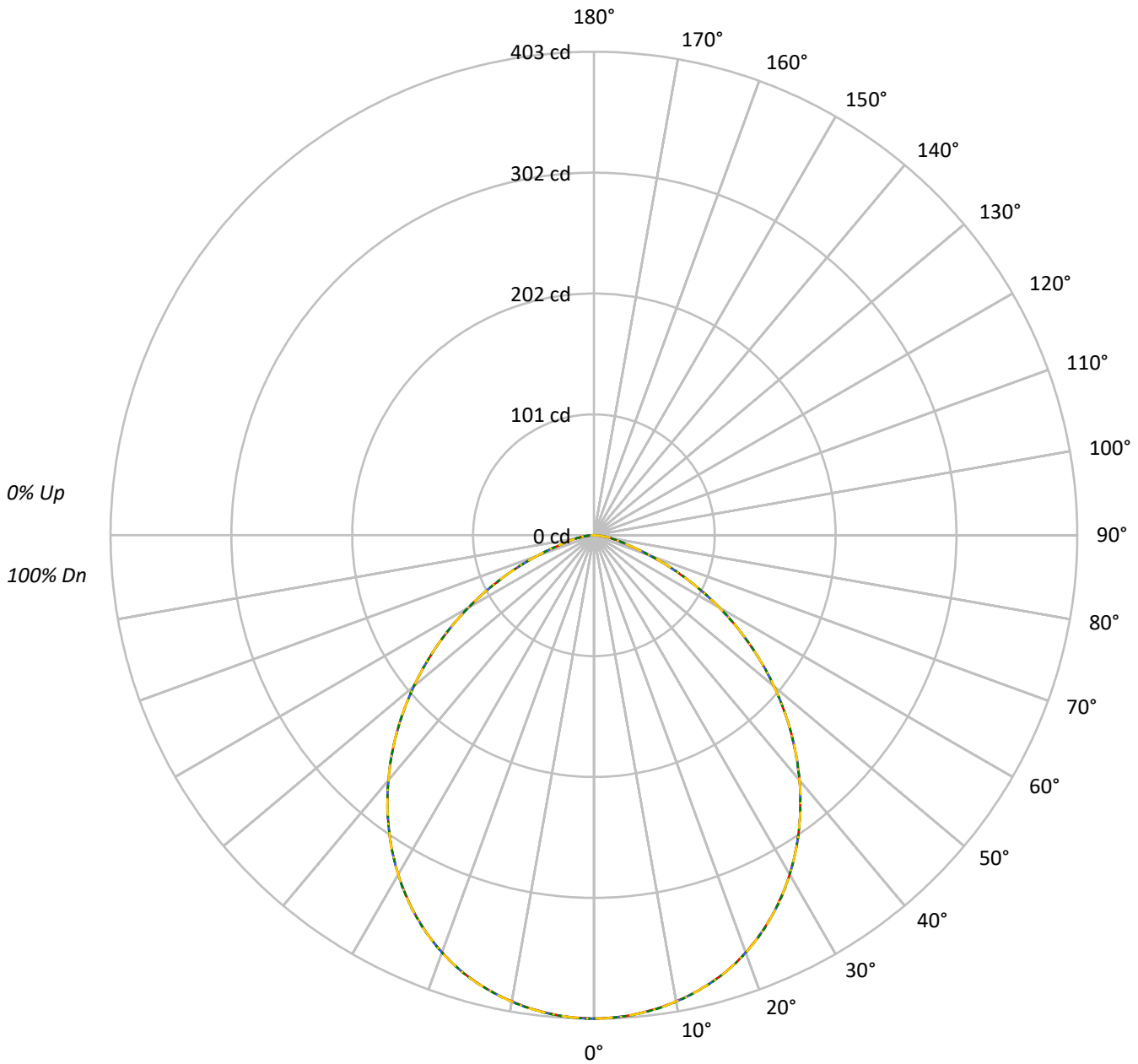
Input Watts (W): 10.2
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	50705	50705	50705	50705
5°	50608	50646	50608	50646
10°	50414	50452	50414	50452
15°	50122	50148	50122	50148
20°	49553	49593	49553	49593
25°	48670	48698	48670	48698
30°	47418	47447	47418	47447
35°	45798	45829	45798	45829
40°	43798	43782	43798	43782
45°	41344	41344	41344	41344
50°	38374	38394	38374	38394
55°	34821	34865	34821	34865
60°	30405	30506	30405	30506
65°	25074	25133	25074	25133
70°	18582	18803	18582	18803
75°	12740	13177	12740	13177
80°	10436	10581	10436	10581
85°	7653	7942	7653	7942

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	4.1
10°-20°	108.5	11.6
20°-30°	161.3	17.2
30°-40°	186.2	19.9
40°-50°	178.9	19.1
50°-60°	141.7	15.2
60°-70°	83.7	9.0
70°-80°	30.3	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°	307.8	32.9
0°-40°	494.0	52.8
0°-60°	814.6	87.1
0°-90°	935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	935.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	403	403	403	403	403	
5°	401	401	401	401	401	38
15°	385	385	385	385	385	108
25°	350	351	350	351	350	161
35°	298	298	298	298	298	186
45°	232	232	232	232	232	179
55°	159	159	159	159	159	142
65°	84	84	84	84	84	84
75°	26	27	26	27	26	30
85°	5	6	5	6	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°	402.9	402.9	402.9	402.9	402.9	402.9	402.9	402.9	402.9	402.9	402.9
0.5°	402.8	402.8	402.9	402.9	402.9	402.9	402.9	402.8	402.8	402.8	402.9
1°	402.7	402.7	402.8	402.8	402.9	402.8	402.8	402.7	402.7	402.7	402.8
1.5°	402.6	402.6	402.7	402.7	402.8	402.7	402.7	402.6	402.6	402.6	402.7
2°	402.4	402.5	402.5	402.5	402.6	402.5	402.5	402.5	402.4	402.5	402.5
2.5°	402.3	402.3	402.3	402.4	402.4	402.4	402.3	402.3	402.3	402.3	402.3
3°	402.0	402.1	402.1	402.1	402.2	402.1	402.1	402.1	402.0	402.1	402.1
3.5°	401.8	401.8	401.9	401.9	401.9	401.9	401.9	401.8	401.8	401.8	401.9
4°	401.5	401.5	401.5	401.5	401.6	401.5	401.5	401.5	401.5	401.5	401.5
4.5°	401.1	401.1	401.2	401.2	401.3	401.2	401.2	401.1	401.1	401.1	401.2
5°	400.6	400.7	400.8	400.8	400.9	400.8	400.8	400.7	400.6	400.7	400.8
5.5°	400.2	400.3	400.4	400.3	400.4	400.3	400.4	400.3	400.2	400.3	400.4
6°	399.7	399.8	399.9	399.9	400.0	399.9	399.9	399.8	399.7	399.8	399.9
6.5°	399.2	399.3	399.3	399.3	399.5	399.3	399.3	399.3	399.2	399.3	399.3
7°	398.7	398.8	398.9	398.9	398.9	398.9	398.9	398.8	398.7	398.8	398.9
7.5°	398.1	398.2	398.3	398.3	398.4	398.3	398.3	398.2	398.1	398.2	398.3
8°	397.5	397.6	397.6	397.6	397.8	397.6	397.6	397.6	397.5	397.6	397.6
8.5°	396.8	396.9	397.0	397.0	397.0	397.0	397.0	396.9	396.8	396.9	397.0
9°	396.1	396.2	396.2	396.3	396.3	396.3	396.2	396.2	396.1	396.2	396.2
9.5°	395.4	395.4	395.5	395.5	395.6	395.5	395.5	395.4	395.4	395.4	395.5
10°	394.5	394.6	394.7	394.7	394.8	394.7	394.7	394.6	394.5	394.6	394.7
10.5°	393.7	393.8	393.8	393.9	394.0	393.9	393.8	393.8	393.7	393.8	393.8
11°	392.9	393.0	393.1	393.1	393.1	393.1	393.1	393.0	392.9	393.0	393.1
11.5°	392.0	392.1	392.2	392.2	392.3	392.2	392.2	392.1	392.0	392.1	392.2
12°	391.1	391.1	391.2	391.2	391.3	391.2	391.2	391.1	391.1	391.1	391.2
12.5°	390.1	390.1	390.2	390.2	390.3	390.2	390.2	390.1	390.1	390.1	390.2
13°	389.1	389.1	389.2	389.2	389.3	389.2	389.2	389.1	389.1	389.1	389.2
13.5°	388.0	388.0	388.1	388.1	388.2	388.1	388.1	388.0	388.0	388.0	388.1
14°	387.0	387.0	387.1	387.2	387.2	387.2	387.1	387.0	387.0	387.0	387.1
14.5°	385.8	385.9	386.0	386.0	386.1	386.0	386.0	385.9	385.8	385.9	386.0
15°	384.7	384.7	384.8	384.8	384.9	384.8	384.8	384.7	384.7	384.7	384.8
15.5°	383.5	383.5	383.6	383.6	383.7	383.6	383.6	383.5	383.5	383.5	383.6
16°	382.2	382.2	382.3	382.3	382.4	382.3	382.3	382.2	382.2	382.2	382.3
16.5°	381.0	381.0	381.1	381.0	381.1	381.0	381.1	381.0	381.0	381.0	381.1
17°	379.6	379.7	379.7	379.6	379.7	379.6	379.7	379.7	379.6	379.7	379.7
17.5°	378.1	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.1	378.2	378.2
18°	376.6	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.6	376.7	376.7
18.5°	375.1	375.2	375.2	375.2	375.3	375.2	375.2	375.2	375.1	375.2	375.2
19°	373.4	373.5	373.6	373.6	373.7	373.6	373.6	373.5	373.4	373.5	373.6
19.5°	371.8	371.8	371.9	371.9	372.0	371.9	371.9	371.8	371.8	371.8	371.9
20°	370.0	370.1	370.2	370.2	370.3	370.2	370.2	370.1	370.0	370.1	370.2
20.5°	368.3	368.4	368.5	368.5	368.6	368.5	368.5	368.4	368.3	368.4	368.5
21°	366.5	366.5	366.7	366.6	366.7	366.6	366.7	366.5	366.5	366.5	366.7
21.5°	364.6	364.7	364.8	364.7	364.8	364.7	364.8	364.7	364.6	364.7	364.8
22°	362.8	362.9	363.0	362.9	363.1	362.9	363.0	362.9	362.8	362.9	363.0

TEST NUMBER: P895723
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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°	360.8	360.9	361.0	361.0	361.1	361.0	361.0	360.9	360.8	360.9	361.0
23°	358.8	358.9	359.0	359.0	359.1	359.0	359.0	358.9	358.8	358.9	359.0
23.5°	356.9	356.9	357.0	357.0	357.1	357.0	357.0	356.9	356.9	356.9	357.0
24°	354.7	354.8	354.9	354.9	355.0	354.9	354.9	354.8	354.7	354.8	354.9
24.5°	352.5	352.6	352.7	352.7	352.9	352.7	352.7	352.6	352.5	352.6	352.7
25°	350.5	350.5	350.6	350.6	350.7	350.6	350.6	350.5	350.5	350.5	350.6
25.5°	348.2	348.3	348.4	348.4	348.4	348.4	348.4	348.3	348.2	348.3	348.4
26°	346.0	346.1	346.2	346.2	346.3	346.2	346.2	346.1	346.0	346.1	346.2
26.5°	343.7	343.7	343.8	343.8	343.9	343.8	343.8	343.7	343.7	343.7	343.8
27°	341.3	341.3	341.5	341.4	341.6	341.4	341.5	341.3	341.3	341.3	341.5
27.5°	338.9	339.0	339.1	339.1	339.2	339.1	339.1	339.0	338.9	339.0	339.1
28°	336.5	336.5	336.6	336.6	336.7	336.6	336.6	336.5	336.5	336.5	336.6
28.5°	334.1	334.1	334.2	334.1	334.3	334.1	334.2	334.1	334.1	334.1	334.2
29°	331.5	331.5	331.6	331.6	331.7	331.6	331.6	331.5	331.5	331.5	331.6
29.5°	329.0	329.0	329.1	329.1	329.1	329.1	329.1	329.0	329.0	329.0	329.1
30°	326.3	326.4	326.5	326.4	326.5	326.4	326.5	326.4	326.3	326.4	326.5
30.5°	323.6	323.7	323.8	323.7	323.8	323.7	323.8	323.7	323.6	323.7	323.8
31°	321.0	321.0	321.1	321.1	321.2	321.1	321.1	321.0	321.0	321.0	321.1
31.5°	318.2	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.2	318.3	318.3
32°	315.5	315.5	315.6	315.5	315.6	315.5	315.6	315.5	315.5	315.5	315.6
32.5°	312.7	312.7	312.8	312.7	312.8	312.7	312.8	312.7	312.7	312.7	312.8
33°	309.9	309.9	310.0	309.9	310.0	309.9	310.0	309.9	309.9	309.9	310.0
33.5°	307.0	307.0	307.1	307.0	307.1	307.0	307.1	307.0	307.0	307.0	307.1
34°	304.1	304.1	304.2	304.1	304.2	304.1	304.2	304.1	304.1	304.1	304.2
34.5°	301.1	301.1	301.2	301.1	301.2	301.1	301.2	301.1	301.1	301.1	301.2
35°	298.1	298.2	298.2	298.2	298.3	298.2	298.2	298.2	298.1	298.2	298.2
35.5°	295.1	295.1	295.2	295.1	295.2	295.1	295.2	295.1	295.1	295.1	295.2
36°	292.2	292.1	292.2	292.1	292.2	292.1	292.2	292.1	292.2	292.1	292.2
36.5°	289.0	289.0	289.1	289.0	289.0	289.0	289.1	289.0	289.0	289.0	289.1
37°	285.9	285.9	286.0	285.9	286.0	285.9	286.0	285.9	285.9	285.9	286.0
37.5°	282.7	282.8	282.8	282.7	282.7	282.7	282.8	282.8	282.7	282.8	282.8
38°	279.6	279.6	279.6	279.6	279.6	279.6	279.6	279.6	279.6	279.6	279.6
38.5°	276.4	276.5	276.5	276.4	276.4	276.4	276.5	276.5	276.4	276.5	276.5
39°	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2
39.5°	269.9	270.0	270.0	269.9	270.0	269.9	270.0	270.0	269.9	270.0	270.0
40°	266.6	266.6	266.6	266.5	266.5	266.5	266.6	266.6	266.6	266.6	266.6
40.5°	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3
41°	259.9	259.9	259.9	259.9	259.8	259.9	259.9	259.9	259.9	259.9	259.9
41.5°	256.6	256.6	256.6	256.5	256.6	256.5	256.6	256.6	256.6	256.6	256.6
42°	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2
42.5°	249.8	249.8	249.8	249.7	249.7	249.7	249.8	249.8	249.8	249.8	249.8
43°	246.3	246.4	246.4	246.3	246.4	246.3	246.4	246.4	246.3	246.4	246.4
43.5°	242.8	242.8	242.9	242.8	242.8	242.8	242.9	242.8	242.8	242.8	242.9
44°	239.3	239.4	239.4	239.3	239.3	239.3	239.4	239.4	239.3	239.4	239.4
44.5°	235.9	235.9	235.9	235.8	235.8	235.8	235.9	235.9	235.9	235.9	235.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	232.3	232.3	232.4	232.2	232.3	232.2	232.4	232.3	232.3	232.3	232.4
45.5°	228.9	228.8	228.9	228.8	228.8	228.8	228.9	228.8	228.9	228.8	228.9
46°	225.2	225.2	225.2	225.2	225.2	225.2	225.2	225.2	225.2	225.2	225.2
46.5°	221.6	221.7	221.7	221.6	221.6	221.6	221.7	221.7	221.6	221.7	221.7
47°	218.0	218.1	218.1	218.0	218.1	218.0	218.1	218.1	218.0	218.1	218.1
47.5°	214.4	214.4	214.4	214.3	214.4	214.3	214.4	214.4	214.4	214.4	214.4
48°	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8
48.5°	207.1	207.1	207.1	207.0	207.1	207.0	207.1	207.1	207.1	207.1	207.1
49°	203.4	203.5	203.5	203.5	203.5	203.5	203.5	203.5	203.4	203.5	203.5
49.5°	199.8	199.8	199.9	199.8	199.9	199.8	199.9	199.8	199.8	199.8	199.9
50°	196.0	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.0	196.1	196.1
50.5°	192.4	192.4	192.5	192.4	192.4	192.4	192.5	192.4	192.4	192.4	192.5
51°	188.7	188.7	188.8	188.7	188.8	188.7	188.8	188.7	188.7	188.7	188.8
51.5°	185.0	184.9	185.0	184.9	185.0	184.9	185.0	184.9	185.0	184.9	185.0
52°	181.3	181.3	181.3	181.3	181.4	181.3	181.3	181.3	181.3	181.3	181.3
52.5°	177.6	177.5	177.6	177.6	177.6	177.6	177.6	177.5	177.6	177.5	177.6
53°	173.7	173.7	173.8	173.8	173.8	173.8	173.8	173.7	173.7	173.7	173.8
53.5°	170.0	170.0	170.0	170.0	170.1	170.0	170.0	170.0	170.0	170.0	170.0
54°	166.1	166.2	166.2	166.2	166.3	166.2	166.2	166.2	166.1	166.2	166.2
54.5°	162.4	162.4	162.5	162.5	162.6	162.5	162.5	162.4	162.4	162.4	162.5
55°	158.7	158.7	158.8	158.8	158.9	158.8	158.8	158.7	158.7	158.7	158.8
55.5°	154.8	154.9	154.9	154.9	155.0	154.9	154.9	154.9	154.8	154.9	154.9
56°	151.1	151.1	151.2	151.2	151.2	151.2	151.2	151.1	151.1	151.1	151.2
56.5°	147.4	147.4	147.5	147.5	147.5	147.5	147.5	147.4	147.4	147.4	147.5
57°	143.5	143.6	143.6	143.6	143.7	143.6	143.6	143.6	143.5	143.6	143.6
57.5°	139.8	139.8	139.8	139.9	140.0	139.9	139.8	139.8	139.8	139.8	139.8
58°	136.1	136.1	136.1	136.2	136.2	136.2	136.1	136.1	136.1	136.1	136.1
58.5°	132.2	132.2	132.3	132.3	132.4	132.3	132.3	132.2	132.2	132.2	132.3
59°	128.4	128.5	128.5	128.6	128.7	128.6	128.5	128.5	128.4	128.5	128.5
59.5°	124.7	124.8	124.8	124.9	125.0	124.9	124.8	124.8	124.7	124.8	124.8
60°	120.8	120.9	121.0	121.1	121.2	121.1	121.0	120.9	120.8	120.9	121.0
60.5°	117.1	117.2	117.3	117.4	117.5	117.4	117.3	117.2	117.1	117.2	117.3
61°	113.4	113.5	113.6	113.6	113.6	113.6	113.6	113.5	113.4	113.5	113.6
61.5°	109.6	109.7	109.8	109.9	110.0	109.9	109.8	109.7	109.6	109.7	109.8
62°	106.0	106.0	106.1	106.2	106.3	106.2	106.1	106.0	106.0	106.0	106.1
62.5°	102.2	102.3	102.4	102.5	102.5	102.5	102.4	102.3	102.2	102.3	102.4
63°	98.5	98.6	98.7	98.8	98.9	98.8	98.7	98.6	98.5	98.6	98.7
63.5°	94.9	94.9	95.1	95.2	95.3	95.2	95.1	94.9	94.9	94.9	95.1
64°	91.2	91.3	91.4	91.5	91.6	91.5	91.4	91.3	91.2	91.3	91.4
64.5°	87.6	87.8	87.9	88.0	88.1	88.0	87.9	87.8	87.6	87.8	87.9
65°	84.2	84.2	84.4	84.4	84.4	84.4	84.4	84.2	84.2	84.2	84.4
65.5°	80.5	80.6	80.7	80.8	80.9	80.8	80.7	80.6	80.5	80.6	80.7
66°	77.0	77.1	77.3	77.3	77.4	77.3	77.3	77.1	77.0	77.1	77.3
66.5°	73.5	73.6	73.7	73.8	73.9	73.8	73.7	73.6	73.5	73.6	73.7
67°	70.1	70.2	70.3	70.4	70.6	70.4	70.3	70.2	70.1	70.2	70.3

TEST NUMBER: P895723
 CATALOG NUMBER: RLWZC409-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	66.8	66.8	67.0	67.0	67.1	67.0	67.0	66.8	66.8	66.8	67.0
68°	63.3	63.4	63.6	63.7	63.9	63.7	63.6	63.4	63.3	63.4	63.6
68.5°	60.1	60.2	60.4	60.4	60.6	60.4	60.4	60.2	60.1	60.2	60.4
69°	56.8	56.9	57.1	57.2	57.4	57.2	57.1	56.9	56.8	56.9	57.1
69.5°	53.7	53.8	54.0	54.1	54.2	54.1	54.0	53.8	53.7	53.8	54.0
70°	50.5	50.6	50.9	51.0	51.1	51.0	50.9	50.6	50.5	50.6	50.9
70.5°	47.6	47.7	47.9	48.0	48.2	48.0	47.9	47.7	47.6	47.7	47.9
71°	44.7	44.8	45.0	45.1	45.3	45.1	45.0	44.8	44.7	44.8	45.0
71.5°	41.9	42.0	42.3	42.4	42.8	42.4	42.3	42.0	41.9	42.0	42.3
72°	39.2	39.3	39.6	39.7	40.1	39.7	39.6	39.3	39.2	39.3	39.6
72.5°	36.8	36.9	37.2	37.2	37.7	37.2	37.2	36.9	36.8	36.9	37.2
73°	34.4	34.5	34.6	34.7	35.1	34.7	34.6	34.5	34.4	34.5	34.6
73.5°	32.0	32.1	32.3	32.4	32.7	32.4	32.3	32.1	32.0	32.1	32.3
74°	29.9	30.1	30.3	30.5	30.7	30.5	30.3	30.1	29.9	30.1	30.3
74.5°	27.9	28.1	28.4	28.7	28.8	28.7	28.4	28.1	27.9	28.1	28.4
75°	26.2	26.2	26.5	26.9	27.1	26.9	26.5	26.2	26.2	26.2	26.5
75.5°	24.7	24.7	24.8	25.3	25.4	25.3	24.8	24.7	24.7	24.7	24.8
76°	23.2	23.2	23.3	23.6	23.8	23.6	23.3	23.2	23.2	23.2	23.3
76.5°	21.8	21.9	22.0	22.1	22.3	22.1	22.0	21.9	21.8	21.9	22.0
77°	20.5	20.6	20.8	20.8	20.9	20.8	20.8	20.6	20.5	20.6	20.8
77.5°	19.5	19.5	19.7	19.7	19.7	19.7	19.7	19.5	19.5	19.5	19.7
78°	18.4	18.4	18.5	18.6	18.6	18.6	18.5	18.4	18.4	18.4	18.5
78.5°	17.4	17.4	17.5	17.5	17.5	17.5	17.5	17.4	17.4	17.4	17.5
79°	16.4	16.4	16.4	16.5	16.5	16.5	16.4	16.4	16.4	16.4	16.4
79.5°	15.3	15.4	15.4	15.5	15.5	15.5	15.4	15.4	15.3	15.4	15.4
80°	14.4	14.5	14.5	14.6	14.6	14.6	14.5	14.5	14.4	14.5	14.5
80.5°	13.5	13.5	13.5	13.6	13.6	13.6	13.5	13.5	13.5	13.5	13.5
81°	12.5	12.5	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.6
81.5°	11.5	11.6	11.6	11.6	11.7	11.6	11.6	11.6	11.5	11.6	11.6
82°	10.6	10.6	10.6	10.7	10.7	10.7	10.6	10.6	10.6	10.6	10.6
82.5°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
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°	7.9	7.9	8.0	8.0	8.1	8.0	8.0	7.9	7.9	7.9	8.0
84°	7.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.0	7.1	7.1
84.5°	6.2	6.2	6.2	6.3	6.3	6.3	6.2	6.2	6.2	6.2	6.2
85°	5.3	5.3	5.4	5.4	5.5	5.4	5.4	5.3	5.3	5.3	5.4
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°	2.9	2.9	2.9	3.0	3.1	3.0	2.9	2.9	2.9	2.9	2.9
87°	2.2	2.2	2.3	2.4	2.5	2.4	2.3	2.2	2.2	2.2	2.3
87.5°	1.5	1.5	1.7	1.8	1.9	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: P895723
CATALOG NUMBER: RLWZC409-3500K

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: P895723
 CATALOG NUMBER: RLWZC409-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	402.9	402.9	402.9	402.9	402.9	402.9
0.5°	402.9	402.9	402.9	402.9	402.8	402.8
1°	402.8	402.9	402.8	402.8	402.7	402.7
1.5°	402.7	402.8	402.7	402.7	402.6	402.6
2°	402.5	402.6	402.5	402.5	402.5	402.4
2.5°	402.4	402.4	402.4	402.3	402.3	402.3
3°	402.1	402.2	402.1	402.1	402.1	402.0
3.5°	401.9	401.9	401.9	401.9	401.8	401.8
4°	401.5	401.6	401.5	401.5	401.5	401.5
4.5°	401.2	401.3	401.2	401.2	401.1	401.1
5°	400.8	400.9	400.8	400.8	400.7	400.6
5.5°	400.3	400.4	400.3	400.4	400.3	400.2
6°	399.9	400.0	399.9	399.9	399.8	399.7
6.5°	399.3	399.5	399.3	399.3	399.3	399.2
7°	398.9	398.9	398.9	398.9	398.8	398.7
7.5°	398.3	398.4	398.3	398.3	398.2	398.1
8°	397.6	397.8	397.6	397.6	397.6	397.5
8.5°	397.0	397.0	397.0	397.0	396.9	396.8
9°	396.3	396.3	396.3	396.2	396.2	396.1
9.5°	395.5	395.6	395.5	395.5	395.4	395.4
10°	394.7	394.8	394.7	394.7	394.6	394.5
10.5°	393.9	394.0	393.9	393.8	393.8	393.7
11°	393.1	393.1	393.1	393.1	393.0	392.9
11.5°	392.2	392.3	392.2	392.2	392.1	392.0
12°	391.2	391.3	391.2	391.2	391.1	391.1
12.5°	390.2	390.3	390.2	390.2	390.1	390.1
13°	389.2	389.3	389.2	389.2	389.1	389.1
13.5°	388.1	388.2	388.1	388.1	388.0	388.0
14°	387.2	387.2	387.2	387.1	387.0	387.0
14.5°	386.0	386.1	386.0	386.0	385.9	385.8
15°	384.8	384.9	384.8	384.8	384.7	384.7
15.5°	383.6	383.7	383.6	383.6	383.5	383.5
16°	382.3	382.4	382.3	382.3	382.2	382.2
16.5°	381.0	381.1	381.0	381.1	381.0	381.0
17°	379.6	379.7	379.6	379.7	379.7	379.6
17.5°	378.2	378.2	378.2	378.2	378.2	378.1
18°	376.7	376.7	376.7	376.7	376.7	376.6
18.5°	375.2	375.3	375.2	375.2	375.2	375.1
19°	373.6	373.7	373.6	373.6	373.5	373.4
19.5°	371.9	372.0	371.9	371.9	371.8	371.8
20°	370.2	370.3	370.2	370.2	370.1	370.0
20.5°	368.5	368.6	368.5	368.5	368.4	368.3
21°	366.6	366.7	366.6	366.7	366.5	366.5
21.5°	364.7	364.8	364.7	364.8	364.7	364.6
22°	362.9	363.1	362.9	363.0	362.9	362.8

TEST NUMBER: P895723
 CATALOG NUMBER: RLWZC409-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	361.0	361.1	361.0	361.0	360.9	360.8
23°	359.0	359.1	359.0	359.0	358.9	358.8
23.5°	357.0	357.1	357.0	357.0	356.9	356.9
24°	354.9	355.0	354.9	354.9	354.8	354.7
24.5°	352.7	352.9	352.7	352.7	352.6	352.5
25°	350.6	350.7	350.6	350.6	350.5	350.5
25.5°	348.4	348.4	348.4	348.4	348.3	348.2
26°	346.2	346.3	346.2	346.2	346.1	346.0
26.5°	343.8	343.9	343.8	343.8	343.7	343.7
27°	341.4	341.6	341.4	341.5	341.3	341.3
27.5°	339.1	339.2	339.1	339.1	339.0	338.9
28°	336.6	336.7	336.6	336.6	336.5	336.5
28.5°	334.1	334.3	334.1	334.2	334.1	334.1
29°	331.6	331.7	331.6	331.6	331.5	331.5
29.5°	329.1	329.1	329.1	329.1	329.0	329.0
30°	326.4	326.5	326.4	326.5	326.4	326.3
30.5°	323.7	323.8	323.7	323.8	323.7	323.6
31°	321.1	321.2	321.1	321.1	321.0	321.0
31.5°	318.3	318.3	318.3	318.3	318.3	318.2
32°	315.5	315.6	315.5	315.6	315.5	315.5
32.5°	312.7	312.8	312.7	312.8	312.7	312.7
33°	309.9	310.0	309.9	310.0	309.9	309.9
33.5°	307.0	307.1	307.0	307.1	307.0	307.0
34°	304.1	304.2	304.1	304.2	304.1	304.1
34.5°	301.1	301.2	301.1	301.2	301.1	301.1
35°	298.2	298.3	298.2	298.2	298.2	298.1
35.5°	295.1	295.2	295.1	295.2	295.1	295.1
36°	292.1	292.2	292.1	292.2	292.1	292.2
36.5°	289.0	289.0	289.0	289.1	289.0	289.0
37°	285.9	286.0	285.9	286.0	285.9	285.9
37.5°	282.7	282.7	282.7	282.8	282.8	282.7
38°	279.6	279.6	279.6	279.6	279.6	279.6
38.5°	276.4	276.4	276.4	276.5	276.5	276.4
39°	273.2	273.2	273.2	273.2	273.2	273.2
39.5°	269.9	270.0	269.9	270.0	270.0	269.9
40°	266.5	266.5	266.5	266.6	266.6	266.6
40.5°	263.3	263.3	263.3	263.3	263.3	263.3
41°	259.9	259.8	259.9	259.9	259.9	259.9
41.5°	256.5	256.6	256.5	256.6	256.6	256.6
42°	253.2	253.2	253.2	253.2	253.2	253.2
42.5°	249.7	249.7	249.7	249.8	249.8	249.8
43°	246.3	246.4	246.3	246.4	246.4	246.3
43.5°	242.8	242.8	242.8	242.9	242.8	242.8
44°	239.3	239.3	239.3	239.4	239.4	239.3
44.5°	235.8	235.8	235.8	235.9	235.9	235.9

TEST NUMBER: P895723
 CATALOG NUMBER: RLWZC409-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	232.2	232.3	232.2	232.4	232.3	232.3
45.5°	228.8	228.8	228.8	228.9	228.8	228.9
46°	225.2	225.2	225.2	225.2	225.2	225.2
46.5°	221.6	221.6	221.6	221.7	221.7	221.6
47°	218.0	218.1	218.0	218.1	218.1	218.0
47.5°	214.3	214.4	214.3	214.4	214.4	214.4
48°	210.8	210.8	210.8	210.8	210.8	210.8
48.5°	207.0	207.1	207.0	207.1	207.1	207.1
49°	203.5	203.5	203.5	203.5	203.5	203.4
49.5°	199.8	199.9	199.8	199.9	199.8	199.8
50°	196.1	196.1	196.1	196.1	196.1	196.0
50.5°	192.4	192.4	192.4	192.5	192.4	192.4
51°	188.7	188.8	188.7	188.8	188.7	188.7
51.5°	184.9	185.0	184.9	185.0	184.9	185.0
52°	181.3	181.4	181.3	181.3	181.3	181.3
52.5°	177.6	177.6	177.6	177.6	177.5	177.6
53°	173.8	173.8	173.8	173.8	173.7	173.7
53.5°	170.0	170.1	170.0	170.0	170.0	170.0
54°	166.2	166.3	166.2	166.2	166.2	166.1
54.5°	162.5	162.6	162.5	162.5	162.4	162.4
55°	158.8	158.9	158.8	158.8	158.7	158.7
55.5°	154.9	155.0	154.9	154.9	154.9	154.8
56°	151.2	151.2	151.2	151.2	151.1	151.1
56.5°	147.5	147.5	147.5	147.5	147.4	147.4
57°	143.6	143.7	143.6	143.6	143.6	143.5
57.5°	139.9	140.0	139.9	139.8	139.8	139.8
58°	136.2	136.2	136.2	136.1	136.1	136.1
58.5°	132.3	132.4	132.3	132.3	132.2	132.2
59°	128.6	128.7	128.6	128.5	128.5	128.4
59.5°	124.9	125.0	124.9	124.8	124.8	124.7
60°	121.1	121.2	121.1	121.0	120.9	120.8
60.5°	117.4	117.5	117.4	117.3	117.2	117.1
61°	113.6	113.6	113.6	113.6	113.5	113.4
61.5°	109.9	110.0	109.9	109.8	109.7	109.6
62°	106.2	106.3	106.2	106.1	106.0	106.0
62.5°	102.5	102.5	102.5	102.4	102.3	102.2
63°	98.8	98.9	98.8	98.7	98.6	98.5
63.5°	95.2	95.3	95.2	95.1	94.9	94.9
64°	91.5	91.6	91.5	91.4	91.3	91.2
64.5°	88.0	88.1	88.0	87.9	87.8	87.6
65°	84.4	84.4	84.4	84.4	84.2	84.2
65.5°	80.8	80.9	80.8	80.7	80.6	80.5
66°	77.3	77.4	77.3	77.3	77.1	77.0
66.5°	73.8	73.9	73.8	73.7	73.6	73.5
67°	70.4	70.6	70.4	70.3	70.2	70.1

TEST NUMBER: P895723
 CATALOG NUMBER: RLWZC409-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	67.0	67.1	67.0	67.0	66.8	66.8
68°	63.7	63.9	63.7	63.6	63.4	63.3
68.5°	60.4	60.6	60.4	60.4	60.2	60.1
69°	57.2	57.4	57.2	57.1	56.9	56.8
69.5°	54.1	54.2	54.1	54.0	53.8	53.7
70°	51.0	51.1	51.0	50.9	50.6	50.5
70.5°	48.0	48.2	48.0	47.9	47.7	47.6
71°	45.1	45.3	45.1	45.0	44.8	44.7
71.5°	42.4	42.8	42.4	42.3	42.0	41.9
72°	39.7	40.1	39.7	39.6	39.3	39.2
72.5°	37.2	37.7	37.2	37.2	36.9	36.8
73°	34.7	35.1	34.7	34.6	34.5	34.4
73.5°	32.4	32.7	32.4	32.3	32.1	32.0
74°	30.5	30.7	30.5	30.3	30.1	29.9
74.5°	28.7	28.8	28.7	28.4	28.1	27.9
75°	26.9	27.1	26.9	26.5	26.2	26.2
75.5°	25.3	25.4	25.3	24.8	24.7	24.7
76°	23.6	23.8	23.6	23.3	23.2	23.2
76.5°	22.1	22.3	22.1	22.0	21.9	21.8
77°	20.8	20.9	20.8	20.8	20.6	20.5
77.5°	19.7	19.7	19.7	19.7	19.5	19.5
78°	18.6	18.6	18.6	18.5	18.4	18.4
78.5°	17.5	17.5	17.5	17.5	17.4	17.4
79°	16.5	16.5	16.5	16.4	16.4	16.4
79.5°	15.5	15.5	15.5	15.4	15.4	15.3
80°	14.6	14.6	14.6	14.5	14.5	14.4
80.5°	13.6	13.6	13.6	13.5	13.5	13.5
81°	12.6	12.6	12.6	12.6	12.5	12.5
81.5°	11.6	11.7	11.6	11.6	11.6	11.5
82°	10.7	10.7	10.7	10.6	10.6	10.6
82.5°	9.7	9.7	9.7	9.7	9.7	9.7
83°	8.9	8.9	8.9	8.8	8.7	8.7
83.5°	8.0	8.1	8.0	8.0	7.9	7.9
84°	7.1	7.1	7.1	7.1	7.1	7.0
84.5°	6.3	6.3	6.3	6.2	6.2	6.2
85°	5.4	5.5	5.4	5.4	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	2.9
87°	2.4	2.5	2.4	2.3	2.2	2.2
87.5°	1.8	1.9	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



TEST NUMBER: P895723
CATALOG NUMBER: RLWZC409-3500K

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)