

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: P895711

Luminaire Tested: **RAWZC409-3500K**

Issue Date: 11/14/2024

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

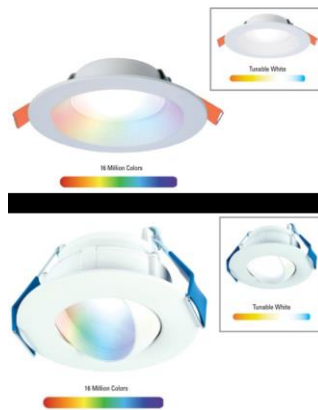
Test Information

Test Method: LM-79-08
 Report Number: P895711
 Test Lab:
 Issue Date: 11/14/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: RAWZC409-3500K
 Description: 4IN ADJUSTABLE WiZ SELECTABLE CCT
 Light Source: WiZ SELECTABLE 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 920.0 lumens
 Efficiency: N/A
 Efficacy: 90.2 lumens/watt
 Spacing Criteria (0/90/45): 1.1 / 1.11 / 1.16
 Luminous Opening: Circular (Dia: 0.33' x H: 0')
 CIE Type: Direct

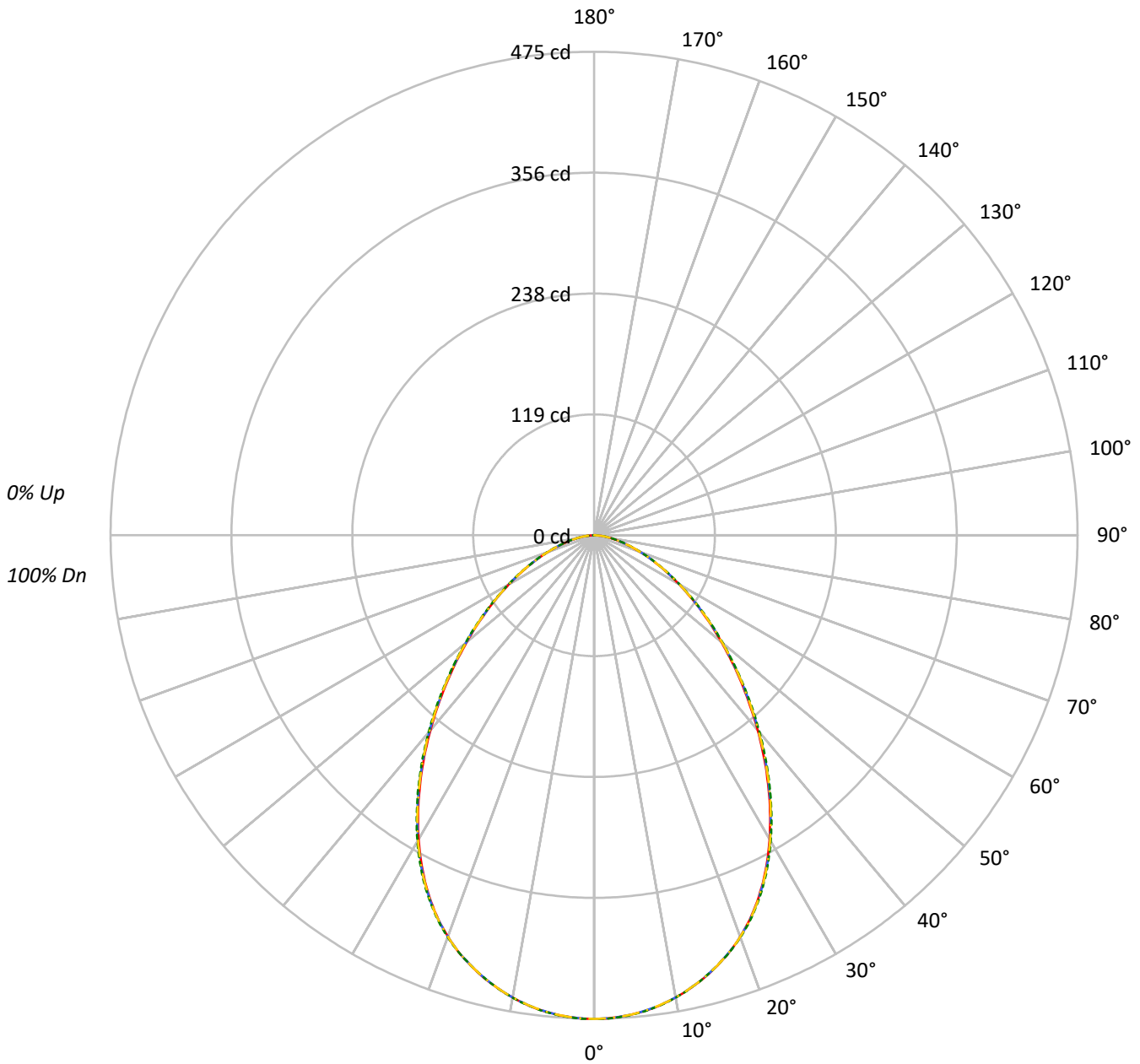
Input Watts (W): 10.2
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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

TEST NUMBER: P895711
CATALOG NUMBER: RAWZC409-3500K

Luminous Intensity Polar Plot



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

TEST NUMBER: P895711
 CATALOG NUMBER: RAWZC409-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87	
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76			76	
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66			66	
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58			58	
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51			51	
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46			46	
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			41	
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			37	
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34			34	
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31			31	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	59804	59804	59804	59804
5°	59577	59615	59577	59615
10°	58937	58950	58937	58950
15°	57848	57835	57848	57835
20°	56222	56303	56222	56303
25°	53655	53878	53655	53878
30°	50091	50455	50091	50455
35°	45768	46213	45768	46213
40°	41104	41548	41104	41548
45°	36397	36877	36397	36877
50°	31992	32422	31992	32422
55°	27975	28348	27975	28348
60°	24339	24641	24339	24641
65°	20964	21232	20964	21232
70°	17699	18030	17699	18030
75°	14733	15220	14733	15220
80°	12248	12900	12248	12900
85°	9819	10108	9819	10108

TEST NUMBER: P895711
 CATALOG NUMBER: RAWZC409-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	4.9
10°-20°	124.9	13.6
20°-30°	177.5	19.3
30°-40°	186.7	20.3
40°-50°	159.0	17.3
50°-60°	115.2	12.5
60°-70°	70.6	7.7
70°-80°	33.2	3.6
80°-90°	8.2	0.9
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°	347.0	37.7
0°-40°	533.7	58.0
0°-60°	807.9	87.8
0°-90°	920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	475	475	475	475	475	
5°	472	472	472	472	472	45
15°	444	444	444	444	444	125
25°	386	388	386	388	386	177
35°	298	301	298	301	298	186
45°	204	207	204	207	204	158
55°	128	129	128	129	128	115
65°	70	71	70	71	70	70
75°	30	31	30	31	30	33
85°	7	7	7	7	7	8
90°	0	0	0	0	0	

TEST NUMBER: P895711
 CATALOG NUMBER: RAWZC409-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2
0.5°	475.2	475.1	475.0	475.1	475.4	475.1	475.0	475.1	475.2	475.1	475.0
1°	475.1	475.0	475.0	475.0	475.2	475.0	475.0	475.0	475.1	475.0	475.0
1.5°	474.9	474.9	474.7	474.8	475.2	474.8	474.7	474.9	474.9	474.9	474.7
2°	474.6	474.6	474.5	474.6	474.9	474.6	474.5	474.6	474.6	474.6	474.5
2.5°	474.3	474.3	474.1	474.2	474.5	474.2	474.1	474.3	474.3	474.3	474.1
3°	473.9	473.9	473.8	473.9	474.2	473.9	473.8	473.9	473.9	473.9	473.8
3.5°	473.4	473.4	473.3	473.3	473.6	473.3	473.3	473.4	473.4	473.4	473.3
4°	473.0	472.9	472.9	472.9	473.2	472.9	472.9	472.9	473.0	472.9	472.9
4.5°	472.4	472.3	472.2	472.2	472.6	472.2	472.2	472.3	472.4	472.3	472.2
5°	471.6	471.6	471.5	471.5	471.9	471.5	471.5	471.6	471.6	471.6	471.5
5.5°	471.0	470.8	470.8	470.8	471.1	470.8	470.8	470.8	471.0	470.8	470.8
6°	470.2	470.1	470.0	470.1	470.4	470.1	470.0	470.1	470.2	470.1	470.0
6.5°	469.3	469.2	469.2	469.1	469.5	469.1	469.2	469.2	469.3	469.2	469.2
7°	468.4	468.4	468.3	468.2	468.6	468.2	468.3	468.4	468.4	468.4	468.3
7.5°	467.4	467.3	467.2	467.2	467.5	467.2	467.2	467.3	467.4	467.3	467.2
8°	466.4	466.3	466.1	466.2	466.4	466.2	466.1	466.3	466.4	466.3	466.1
8.5°	465.1	465.0	464.9	465.0	465.3	465.0	464.9	465.0	465.1	465.0	464.9
9°	463.9	463.8	463.8	463.7	464.1	463.7	463.8	463.8	463.9	463.8	463.8
9.5°	462.6	462.5	462.4	462.4	462.7	462.4	462.4	462.5	462.6	462.5	462.4
10°	461.2	461.1	461.0	461.1	461.3	461.1	461.0	461.1	461.2	461.1	461.0
10.5°	459.7	459.7	459.7	459.6	459.8	459.6	459.7	459.7	459.7	459.7	459.7
11°	458.3	458.2	458.1	458.0	458.3	458.0	458.1	458.2	458.3	458.2	458.1
11.5°	456.7	456.7	456.6	456.5	456.8	456.5	456.6	456.7	456.7	456.7	456.6
12°	455.1	455.1	454.9	454.8	455.0	454.8	454.9	455.1	455.1	455.1	454.9
12.5°	453.3	453.3	453.1	453.1	453.3	453.1	453.1	453.3	453.3	453.3	453.1
13°	451.7	451.6	451.4	451.3	451.5	451.3	451.4	451.6	451.7	451.6	451.4
13.5°	449.8	449.7	449.6	449.5	449.7	449.5	449.6	449.7	449.8	449.7	449.6
14°	448.0	447.9	447.7	447.6	447.8	447.6	447.7	447.9	448.0	447.9	447.7
14.5°	446.0	445.9	445.8	445.7	445.9	445.7	445.8	445.9	446.0	445.9	445.8
15°	444.0	443.9	443.8	443.7	443.9	443.7	443.8	443.9	444.0	443.9	443.8
15.5°	441.9	441.8	441.7	441.6	441.9	441.6	441.7	441.8	441.9	441.8	441.7
16°	439.8	439.7	439.5	439.5	439.7	439.5	439.5	439.7	439.8	439.7	439.5
16.5°	437.5	437.4	437.4	437.3	437.5	437.3	437.4	437.4	437.5	437.4	437.4
17°	435.1	435.2	435.1	435.1	435.2	435.1	435.1	435.2	435.1	435.2	435.1
17.5°	433.0	432.9	432.7	432.8	433.0	432.8	432.7	432.9	433.0	432.9	432.7
18°	430.5	430.5	430.3	430.3	430.7	430.3	430.3	430.5	430.5	430.5	430.3
18.5°	428.0	427.8	427.9	427.9	428.2	427.9	427.9	427.8	428.0	427.8	427.9
19°	425.3	425.3	425.2	425.3	425.7	425.3	425.2	425.3	425.3	425.3	425.2
19.5°	422.6	422.4	422.6	422.7	423.1	422.7	422.6	422.4	422.6	422.4	422.6
20°	419.8	419.8	419.8	420.0	420.4	420.0	419.8	419.8	419.8	419.8	419.8
20.5°	416.9	416.9	417.1	417.2	417.6	417.2	417.1	416.9	416.9	416.9	417.1
21°	413.8	413.9	414.0	414.2	414.6	414.2	414.0	413.9	413.8	413.9	414.0
21.5°	410.7	410.9	411.0	411.2	411.7	411.2	411.0	410.9	410.7	410.9	411.0
22°	407.7	407.7	408.0	408.2	408.5	408.2	408.0	407.7	407.7	407.7	408.0

TEST NUMBER: P895711
 CATALOG NUMBER: RAWZC409-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	404.2	404.4	404.7	405.0	405.4	405.0	404.7	404.4	404.2	404.4	404.7
23°	401.0	401.1	401.4	401.6	402.0	401.6	401.4	401.1	401.0	401.1	401.4
23.5°	397.4	397.7	397.9	398.3	398.7	398.3	397.9	397.7	397.4	397.7	397.9
24°	393.9	394.1	394.5	394.8	395.2	394.8	394.5	394.1	393.9	394.1	394.5
24.5°	390.3	390.5	390.8	391.2	391.7	391.2	390.8	390.5	390.3	390.5	390.8
25°	386.4	386.6	387.0	387.5	388.0	387.5	387.0	386.6	386.4	386.6	387.0
25.5°	382.6	382.9	383.4	383.9	384.3	383.9	383.4	382.9	382.6	382.9	383.4
26°	378.8	379.0	379.5	379.9	380.4	379.9	379.5	379.0	378.8	379.0	379.5
26.5°	374.7	375.1	375.5	376.0	376.6	376.0	375.5	375.1	374.7	375.1	375.5
27°	370.6	370.9	371.5	372.0	372.7	372.0	371.5	370.9	370.6	370.9	371.5
27.5°	366.4	366.8	367.4	367.9	368.4	367.9	367.4	366.8	366.4	366.8	367.4
28°	362.2	362.6	363.3	363.9	364.3	363.9	363.3	362.6	362.2	362.6	363.3
28.5°	357.9	358.3	359.0	359.5	360.0	359.5	359.0	358.3	357.9	358.3	359.0
29°	353.6	354.0	354.7	355.3	355.9	355.3	354.7	354.0	353.6	354.0	354.7
29.5°	349.2	349.6	350.5	351.0	351.6	351.0	350.5	349.6	349.2	349.6	350.5
30°	344.7	345.1	345.9	346.5	347.2	346.5	345.9	345.1	344.7	345.1	345.9
30.5°	340.2	340.6	341.5	342.1	342.7	342.1	341.5	340.6	340.2	340.6	341.5
31°	335.6	336.1	336.9	337.6	338.2	337.6	336.9	336.1	335.6	336.1	336.9
31.5°	331.0	331.4	332.4	333.0	333.6	333.0	332.4	331.4	331.0	331.4	332.4
32°	326.3	326.8	327.7	328.4	329.0	328.4	327.7	326.8	326.3	326.8	327.7
32.5°	321.7	322.1	323.0	323.8	324.3	323.8	323.0	322.1	321.7	322.1	323.0
33°	317.1	317.4	318.4	319.2	319.6	319.2	318.4	317.4	317.1	317.4	318.4
33.5°	312.4	312.7	313.7	314.4	315.0	314.4	313.7	312.7	312.4	312.7	313.7
34°	307.6	307.9	308.9	309.7	310.4	309.7	308.9	307.9	307.6	307.9	308.9
34.5°	302.7	303.2	304.1	304.9	305.6	304.9	304.1	303.2	302.7	303.2	304.1
35°	297.9	298.4	299.4	300.1	300.8	300.1	299.4	298.4	297.9	298.4	299.4
35.5°	293.1	293.6	294.6	295.4	296.1	295.4	294.6	293.6	293.1	293.6	294.6
36°	288.3	288.7	289.8	290.5	291.1	290.5	289.8	288.7	288.3	288.7	289.8
36.5°	283.6	284.0	285.0	285.9	286.4	285.9	285.0	284.0	283.6	284.0	285.0
37°	278.7	279.2	280.2	281.0	281.6	281.0	280.2	279.2	278.7	279.2	280.2
37.5°	273.9	274.5	275.3	276.2	276.9	276.2	275.3	274.5	273.9	274.5	275.3
38°	269.1	269.6	270.6	271.4	272.0	271.4	270.6	269.6	269.1	269.6	270.6
38.5°	264.3	264.8	265.9	266.6	267.2	266.6	265.9	264.8	264.3	264.8	265.9
39°	259.5	260.1	261.2	261.9	262.5	261.9	261.2	260.1	259.5	260.1	261.2
39.5°	254.8	255.3	256.3	257.1	257.7	257.1	256.3	255.3	254.8	255.3	256.3
40°	250.2	250.5	251.6	252.4	252.9	252.4	251.6	250.5	250.2	250.5	251.6
40.5°	245.4	245.9	246.9	247.7	248.2	247.7	246.9	245.9	245.4	245.9	246.9
41°	240.7	241.2	242.1	243.0	243.6	243.0	242.1	241.2	240.7	241.2	242.1
41.5°	236.0	236.6	237.5	238.3	238.9	238.3	237.5	236.6	236.0	236.6	237.5
42°	231.3	231.9	232.9	233.6	234.2	233.6	232.9	231.9	231.3	231.9	232.9
42.5°	226.8	227.4	228.3	229.1	229.6	229.1	228.3	227.4	226.8	227.4	228.3
43°	222.3	222.8	223.7	224.5	225.0	224.5	223.7	222.8	222.3	222.8	223.7
43.5°	217.8	218.2	219.3	219.9	220.5	219.9	219.3	218.2	217.8	218.2	219.3
44°	213.3	213.8	214.8	215.4	216.0	215.4	214.8	213.8	213.3	213.8	214.8
44.5°	208.8	209.4	210.4	211.0	211.5	211.0	210.4	209.4	208.8	209.4	210.4

TEST NUMBER: P895711
 CATALOG NUMBER: RAWZC409-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	204.5	205.0	205.9	206.6	207.2	206.6	205.9	205.0	204.5	205.0	205.9
45.5°	200.2	200.6	201.5	202.2	202.7	202.2	201.5	200.6	200.2	200.6	201.5
46°	195.9	196.4	197.2	197.9	198.5	197.9	197.2	196.4	195.9	196.4	197.2
46.5°	191.6	192.1	193.0	193.7	194.2	193.7	193.0	192.1	191.6	192.1	193.0
47°	187.5	187.8	188.7	189.4	189.9	189.4	188.7	187.8	187.5	187.8	188.7
47.5°	183.3	183.7	184.6	185.3	185.8	185.3	184.6	183.7	183.3	183.7	184.6
48°	179.2	179.6	180.5	181.1	181.5	181.1	180.5	179.6	179.2	179.6	180.5
48.5°	175.1	175.5	176.4	177.0	177.5	177.0	176.4	175.5	175.1	175.5	176.4
49°	171.2	171.6	172.5	173.0	173.5	173.0	172.5	171.6	171.2	171.6	172.5
49.5°	167.2	167.7	168.5	169.1	169.6	169.1	168.5	167.7	167.2	167.7	168.5
50°	163.4	163.7	164.6	165.2	165.6	165.2	164.6	163.7	163.4	163.7	164.6
50.5°	159.4	159.9	160.7	161.3	161.7	161.3	160.7	159.9	159.4	159.9	160.7
51°	155.7	156.1	156.9	157.5	157.9	157.5	156.9	156.1	155.7	156.1	156.9
51.5°	152.0	152.4	153.1	153.7	154.2	153.7	153.1	152.4	152.0	152.4	153.1
52°	148.3	148.7	149.4	150.1	150.5	150.1	149.4	148.7	148.3	148.7	149.4
52.5°	144.7	145.1	145.8	146.4	146.8	146.4	145.8	145.1	144.7	145.1	145.8
53°	141.1	141.5	142.1	142.7	143.2	142.7	142.1	141.5	141.1	141.5	142.1
53.5°	137.6	138.0	138.6	139.1	139.6	139.1	138.6	138.0	137.6	138.0	138.6
54°	134.2	134.5	135.0	135.6	136.1	135.6	135.0	134.5	134.2	134.5	135.0
54.5°	130.8	131.1	131.7	132.3	132.6	132.3	131.7	131.1	130.8	131.1	131.7
55°	127.5	127.8	128.3	128.8	129.2	128.8	128.3	127.8	127.5	127.8	128.3
55.5°	124.2	124.4	125.0	125.5	125.8	125.5	125.0	124.4	124.2	124.4	125.0
56°	120.9	121.2	121.6	122.2	122.6	122.2	121.6	121.2	120.9	121.2	121.6
56.5°	117.7	117.9	118.4	119.0	119.3	119.0	118.4	117.9	117.7	117.9	118.4
57°	114.6	114.7	115.2	115.7	116.1	115.7	115.2	114.7	114.6	114.7	115.2
57.5°	111.5	111.6	112.1	112.5	112.9	112.5	112.1	111.6	111.5	111.6	112.1
58°	108.4	108.5	109.0	109.5	109.9	109.5	109.0	108.5	108.4	108.5	109.0
58.5°	105.5	105.6	105.9	106.4	106.8	106.4	105.9	105.6	105.5	105.6	105.9
59°	102.4	102.6	103.0	103.5	103.7	103.5	103.0	102.6	102.4	102.6	103.0
59.5°	99.5	99.6	100.1	100.5	100.8	100.5	100.1	99.6	99.5	99.6	100.1
60°	96.7	96.8	97.1	97.5	97.9	97.5	97.1	96.8	96.7	96.8	97.1
60.5°	93.9	94.0	94.3	94.7	94.9	94.7	94.3	94.0	93.9	94.0	94.3
61°	91.1	91.1	91.5	91.9	92.2	91.9	91.5	91.1	91.1	91.1	91.5
61.5°	88.3	88.4	88.8	89.2	89.4	89.2	88.8	88.4	88.3	88.4	88.8
62°	85.7	85.7	86.1	86.4	86.7	86.4	86.1	85.7	85.7	85.7	86.1
62.5°	83.0	83.1	83.5	83.7	83.9	83.7	83.5	83.1	83.0	83.1	83.5
63°	80.4	80.5	80.8	81.1	81.3	81.1	80.8	80.5	80.4	80.5	80.8
63.5°	77.8	78.0	78.3	78.5	78.8	78.5	78.3	78.0	77.8	78.0	78.3
64°	75.3	75.4	75.7	76.0	76.2	76.0	75.7	75.4	75.3	75.4	75.7
64.5°	72.8	72.9	73.2	73.4	73.7	73.4	73.2	72.9	72.8	72.9	73.2
65°	70.4	70.5	70.7	71.0	71.3	71.0	70.7	70.5	70.4	70.5	70.7
65.5°	68.0	68.1	68.3	68.6	68.9	68.6	68.3	68.1	68.0	68.1	68.3
66°	65.7	65.7	66.0	66.2	66.5	66.2	66.0	65.7	65.7	65.7	66.0
66.5°	63.3	63.4	63.6	63.9	64.2	63.9	63.6	63.4	63.3	63.4	63.6
67°	61.0	61.2	61.4	61.6	61.9	61.6	61.4	61.2	61.0	61.2	61.4

TEST NUMBER: P895711
 CATALOG NUMBER: RAWZC409-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	58.8	58.9	59.1	59.3	59.6	59.3	59.1	58.9	58.8	58.9	59.1
68°	56.6	56.8	56.9	57.1	57.4	57.1	56.9	56.8	56.6	56.8	56.9
68.5°	54.4	54.5	54.8	55.0	55.2	55.0	54.8	54.5	54.4	54.5	54.8
69°	52.3	52.4	52.7	52.8	53.1	52.8	52.7	52.4	52.3	52.4	52.7
69.5°	50.1	50.3	50.6	50.8	51.0	50.8	50.6	50.3	50.1	50.3	50.6
70°	48.1	48.3	48.6	48.8	49.0	48.8	48.6	48.3	48.1	48.3	48.6
70.5°	46.1	46.3	46.6	46.8	47.0	46.8	46.6	46.3	46.1	46.3	46.6
71°	44.2	44.4	44.7	44.8	45.1	44.8	44.7	44.4	44.2	44.4	44.7
71.5°	42.3	42.5	42.8	43.0	43.3	43.0	42.8	42.5	42.3	42.5	42.8
72°	40.5	40.7	41.0	41.2	41.4	41.2	41.0	40.7	40.5	40.7	41.0
72.5°	38.7	38.9	39.1	39.3	39.6	39.3	39.1	38.9	38.7	38.9	39.1
73°	36.9	37.1	37.4	37.6	37.8	37.6	37.4	37.1	36.9	37.1	37.4
73.5°	35.3	35.4	35.6	35.9	36.1	35.9	35.6	35.4	35.3	35.4	35.6
74°	33.6	33.7	34.0	34.2	34.5	34.2	34.0	33.7	33.6	33.7	34.0
74.5°	32.0	32.1	32.3	32.5	32.8	32.5	32.3	32.1	32.0	32.1	32.3
75°	30.3	30.4	30.7	31.0	31.3	31.0	30.7	30.4	30.3	30.4	30.7
75.5°	28.8	28.9	29.2	29.5	29.8	29.5	29.2	28.9	28.8	28.9	29.2
76°	27.3	27.4	27.8	28.0	28.3	28.0	27.8	27.4	27.3	27.4	27.8
76.5°	25.8	25.9	26.3	26.6	26.9	26.6	26.3	25.9	25.8	25.9	26.3
77°	24.4	24.5	24.9	25.3	25.6	25.3	24.9	24.5	24.4	24.5	24.9
77.5°	23.1	23.2	23.6	24.0	24.3	24.0	23.6	23.2	23.1	23.2	23.6
78°	21.7	21.8	22.3	22.8	23.0	22.8	22.3	21.8	21.7	21.8	22.3
78.5°	20.4	20.6	21.1	21.4	21.7	21.4	21.1	20.6	20.4	20.6	21.1
79°	19.2	19.4	19.8	20.2	20.4	20.2	19.8	19.4	19.2	19.4	19.8
79.5°	18.1	18.3	18.6	18.9	19.1	18.9	18.6	18.3	18.1	18.3	18.6
80°	16.9	17.1	17.4	17.7	17.8	17.7	17.4	17.1	16.9	17.1	17.4
80.5°	15.9	16.1	16.3	16.5	16.7	16.5	16.3	16.1	15.9	16.1	16.3
81°	14.9	15.0	15.1	15.3	15.4	15.3	15.1	15.0	14.9	15.0	15.1
81.5°	14.0	14.0	14.0	14.1	14.3	14.1	14.0	14.0	14.0	14.0	14.0
82°	12.9	12.8	12.9	13.0	13.1	13.0	12.9	12.8	12.9	12.8	12.9
82.5°	11.9	11.9	11.9	12.0	12.1	12.0	11.9	11.9	11.9	11.9	11.9
83°	10.8	10.8	10.8	10.9	11.0	10.9	10.8	10.8	10.8	10.8	10.8
83.5°	9.9	9.9	9.9	9.9	10.0	9.9	9.9	9.9	9.9	9.9	9.9
84°	8.8	8.8	8.8	8.9	8.9	8.9	8.8	8.8	8.8	8.8	8.8
84.5°	7.8	7.8	7.8	7.9	7.9	7.9	7.8	7.8	7.8	7.8	7.8
85°	6.8	6.9	6.9	7.0	7.0	7.0	6.9	6.9	6.8	6.9	6.9
85.5°	5.8	5.9	5.9	6.0	6.1	6.0	5.9	5.9	5.8	5.9	5.9
86°	5.0	5.0	5.0	5.1	5.2	5.1	5.0	5.0	5.0	5.0	5.0
86.5°	4.0	4.0	4.2	4.3	4.5	4.3	4.2	4.0	4.0	4.0	4.2
87°	3.2	3.3	3.4	3.6	4.0	3.6	3.4	3.3	3.2	3.3	3.4
87.5°	2.3	2.6	2.8	3.2	3.4	3.2	2.8	2.6	2.3	2.6	2.8
88°	1.7	1.9	2.2	2.7	3.0	2.7	2.2	1.9	1.7	1.9	2.2
88.5°	1.1	1.2	1.7	2.2	2.5	2.2	1.7	1.2	1.1	1.2	1.7
89°	0.8	0.9	1.3	1.7	2.0	1.7	1.3	0.9	0.8	0.9	1.3
89.5°	0.3	0.6	0.9	1.3	1.5	1.3	0.9	0.6	0.3	0.6	0.9

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



TEST NUMBER: P895711
CATALOG NUMBER: RAWZC409-3500K

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: P895711
 CATALOG NUMBER: RAWZC409-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	475.2	475.2	475.2	475.2	475.2	475.2
0.5°	475.1	475.4	475.1	475.0	475.1	475.2
1°	475.0	475.2	475.0	475.0	475.0	475.1
1.5°	474.8	475.2	474.8	474.7	474.9	474.9
2°	474.6	474.9	474.6	474.5	474.6	474.6
2.5°	474.2	474.5	474.2	474.1	474.3	474.3
3°	473.9	474.2	473.9	473.8	473.9	473.9
3.5°	473.3	473.6	473.3	473.3	473.4	473.4
4°	472.9	473.2	472.9	472.9	472.9	473.0
4.5°	472.2	472.6	472.2	472.2	472.3	472.4
5°	471.5	471.9	471.5	471.5	471.6	471.6
5.5°	470.8	471.1	470.8	470.8	470.8	471.0
6°	470.1	470.4	470.1	470.0	470.1	470.2
6.5°	469.1	469.5	469.1	469.2	469.2	469.3
7°	468.2	468.6	468.2	468.3	468.4	468.4
7.5°	467.2	467.5	467.2	467.2	467.3	467.4
8°	466.2	466.4	466.2	466.1	466.3	466.4
8.5°	465.0	465.3	465.0	464.9	465.0	465.1
9°	463.7	464.1	463.7	463.8	463.8	463.9
9.5°	462.4	462.7	462.4	462.4	462.5	462.6
10°	461.1	461.3	461.1	461.0	461.1	461.2
10.5°	459.6	459.8	459.6	459.7	459.7	459.7
11°	458.0	458.3	458.0	458.1	458.2	458.3
11.5°	456.5	456.8	456.5	456.6	456.7	456.7
12°	454.8	455.0	454.8	454.9	455.1	455.1
12.5°	453.1	453.3	453.1	453.1	453.3	453.3
13°	451.3	451.5	451.3	451.4	451.6	451.7
13.5°	449.5	449.7	449.5	449.6	449.7	449.8
14°	447.6	447.8	447.6	447.7	447.9	448.0
14.5°	445.7	445.9	445.7	445.8	445.9	446.0
15°	443.7	443.9	443.7	443.8	443.9	444.0
15.5°	441.6	441.9	441.6	441.7	441.8	441.9
16°	439.5	439.7	439.5	439.5	439.7	439.8
16.5°	437.3	437.5	437.3	437.4	437.4	437.5
17°	435.1	435.2	435.1	435.1	435.2	435.1
17.5°	432.8	433.0	432.8	432.7	432.9	433.0
18°	430.3	430.7	430.3	430.3	430.5	430.5
18.5°	427.9	428.2	427.9	427.9	427.8	428.0
19°	425.3	425.7	425.3	425.2	425.3	425.3
19.5°	422.7	423.1	422.7	422.6	422.4	422.6
20°	420.0	420.4	420.0	419.8	419.8	419.8
20.5°	417.2	417.6	417.2	417.1	416.9	416.9
21°	414.2	414.6	414.2	414.0	413.9	413.8
21.5°	411.2	411.7	411.2	411.0	410.9	410.7
22°	408.2	408.5	408.2	408.0	407.7	407.7

TEST NUMBER: P895711
 CATALOG NUMBER: RAWZC409-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	405.0	405.4	405.0	404.7	404.4	404.2
23°	401.6	402.0	401.6	401.4	401.1	401.0
23.5°	398.3	398.7	398.3	397.9	397.7	397.4
24°	394.8	395.2	394.8	394.5	394.1	393.9
24.5°	391.2	391.7	391.2	390.8	390.5	390.3
25°	387.5	388.0	387.5	387.0	386.6	386.4
25.5°	383.9	384.3	383.9	383.4	382.9	382.6
26°	379.9	380.4	379.9	379.5	379.0	378.8
26.5°	376.0	376.6	376.0	375.5	375.1	374.7
27°	372.0	372.7	372.0	371.5	370.9	370.6
27.5°	367.9	368.4	367.9	367.4	366.8	366.4
28°	363.9	364.3	363.9	363.3	362.6	362.2
28.5°	359.5	360.0	359.5	359.0	358.3	357.9
29°	355.3	355.9	355.3	354.7	354.0	353.6
29.5°	351.0	351.6	351.0	350.5	349.6	349.2
30°	346.5	347.2	346.5	345.9	345.1	344.7
30.5°	342.1	342.7	342.1	341.5	340.6	340.2
31°	337.6	338.2	337.6	336.9	336.1	335.6
31.5°	333.0	333.6	333.0	332.4	331.4	331.0
32°	328.4	329.0	328.4	327.7	326.8	326.3
32.5°	323.8	324.3	323.8	323.0	322.1	321.7
33°	319.2	319.6	319.2	318.4	317.4	317.1
33.5°	314.4	315.0	314.4	313.7	312.7	312.4
34°	309.7	310.4	309.7	308.9	307.9	307.6
34.5°	304.9	305.6	304.9	304.1	303.2	302.7
35°	300.1	300.8	300.1	299.4	298.4	297.9
35.5°	295.4	296.1	295.4	294.6	293.6	293.1
36°	290.5	291.1	290.5	289.8	288.7	288.3
36.5°	285.9	286.4	285.9	285.0	284.0	283.6
37°	281.0	281.6	281.0	280.2	279.2	278.7
37.5°	276.2	276.9	276.2	275.3	274.5	273.9
38°	271.4	272.0	271.4	270.6	269.6	269.1
38.5°	266.6	267.2	266.6	265.9	264.8	264.3
39°	261.9	262.5	261.9	261.2	260.1	259.5
39.5°	257.1	257.7	257.1	256.3	255.3	254.8
40°	252.4	252.9	252.4	251.6	250.5	250.2
40.5°	247.7	248.2	247.7	246.9	245.9	245.4
41°	243.0	243.6	243.0	242.1	241.2	240.7
41.5°	238.3	238.9	238.3	237.5	236.6	236.0
42°	233.6	234.2	233.6	232.9	231.9	231.3
42.5°	229.1	229.6	229.1	228.3	227.4	226.8
43°	224.5	225.0	224.5	223.7	222.8	222.3
43.5°	219.9	220.5	219.9	219.3	218.2	217.8
44°	215.4	216.0	215.4	214.8	213.8	213.3
44.5°	211.0	211.5	211.0	210.4	209.4	208.8

TEST NUMBER: P895711
 CATALOG NUMBER: RAWZC409-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	206.6	207.2	206.6	205.9	205.0	204.5
45.5°	202.2	202.7	202.2	201.5	200.6	200.2
46°	197.9	198.5	197.9	197.2	196.4	195.9
46.5°	193.7	194.2	193.7	193.0	192.1	191.6
47°	189.4	189.9	189.4	188.7	187.8	187.5
47.5°	185.3	185.8	185.3	184.6	183.7	183.3
48°	181.1	181.5	181.1	180.5	179.6	179.2
48.5°	177.0	177.5	177.0	176.4	175.5	175.1
49°	173.0	173.5	173.0	172.5	171.6	171.2
49.5°	169.1	169.6	169.1	168.5	167.7	167.2
50°	165.2	165.6	165.2	164.6	163.7	163.4
50.5°	161.3	161.7	161.3	160.7	159.9	159.4
51°	157.5	157.9	157.5	156.9	156.1	155.7
51.5°	153.7	154.2	153.7	153.1	152.4	152.0
52°	150.1	150.5	150.1	149.4	148.7	148.3
52.5°	146.4	146.8	146.4	145.8	145.1	144.7
53°	142.7	143.2	142.7	142.1	141.5	141.1
53.5°	139.1	139.6	139.1	138.6	138.0	137.6
54°	135.6	136.1	135.6	135.0	134.5	134.2
54.5°	132.3	132.6	132.3	131.7	131.1	130.8
55°	128.8	129.2	128.8	128.3	127.8	127.5
55.5°	125.5	125.8	125.5	125.0	124.4	124.2
56°	122.2	122.6	122.2	121.6	121.2	120.9
56.5°	119.0	119.3	119.0	118.4	117.9	117.7
57°	115.7	116.1	115.7	115.2	114.7	114.6
57.5°	112.5	112.9	112.5	112.1	111.6	111.5
58°	109.5	109.9	109.5	109.0	108.5	108.4
58.5°	106.4	106.8	106.4	105.9	105.6	105.5
59°	103.5	103.7	103.5	103.0	102.6	102.4
59.5°	100.5	100.8	100.5	100.1	99.6	99.5
60°	97.5	97.9	97.5	97.1	96.8	96.7
60.5°	94.7	94.9	94.7	94.3	94.0	93.9
61°	91.9	92.2	91.9	91.5	91.1	91.1
61.5°	89.2	89.4	89.2	88.8	88.4	88.3
62°	86.4	86.7	86.4	86.1	85.7	85.7
62.5°	83.7	83.9	83.7	83.5	83.1	83.0
63°	81.1	81.3	81.1	80.8	80.5	80.4
63.5°	78.5	78.8	78.5	78.3	78.0	77.8
64°	76.0	76.2	76.0	75.7	75.4	75.3
64.5°	73.4	73.7	73.4	73.2	72.9	72.8
65°	71.0	71.3	71.0	70.7	70.5	70.4
65.5°	68.6	68.9	68.6	68.3	68.1	68.0
66°	66.2	66.5	66.2	66.0	65.7	65.7
66.5°	63.9	64.2	63.9	63.6	63.4	63.3
67°	61.6	61.9	61.6	61.4	61.2	61.0

TEST NUMBER: P895711
 CATALOG NUMBER: RAWZC409-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	59.3	59.6	59.3	59.1	58.9	58.8
68°	57.1	57.4	57.1	56.9	56.8	56.6
68.5°	55.0	55.2	55.0	54.8	54.5	54.4
69°	52.8	53.1	52.8	52.7	52.4	52.3
69.5°	50.8	51.0	50.8	50.6	50.3	50.1
70°	48.8	49.0	48.8	48.6	48.3	48.1
70.5°	46.8	47.0	46.8	46.6	46.3	46.1
71°	44.8	45.1	44.8	44.7	44.4	44.2
71.5°	43.0	43.3	43.0	42.8	42.5	42.3
72°	41.2	41.4	41.2	41.0	40.7	40.5
72.5°	39.3	39.6	39.3	39.1	38.9	38.7
73°	37.6	37.8	37.6	37.4	37.1	36.9
73.5°	35.9	36.1	35.9	35.6	35.4	35.3
74°	34.2	34.5	34.2	34.0	33.7	33.6
74.5°	32.5	32.8	32.5	32.3	32.1	32.0
75°	31.0	31.3	31.0	30.7	30.4	30.3
75.5°	29.5	29.8	29.5	29.2	28.9	28.8
76°	28.0	28.3	28.0	27.8	27.4	27.3
76.5°	26.6	26.9	26.6	26.3	25.9	25.8
77°	25.3	25.6	25.3	24.9	24.5	24.4
77.5°	24.0	24.3	24.0	23.6	23.2	23.1
78°	22.8	23.0	22.8	22.3	21.8	21.7
78.5°	21.4	21.7	21.4	21.1	20.6	20.4
79°	20.2	20.4	20.2	19.8	19.4	19.2
79.5°	18.9	19.1	18.9	18.6	18.3	18.1
80°	17.7	17.8	17.7	17.4	17.1	16.9
80.5°	16.5	16.7	16.5	16.3	16.1	15.9
81°	15.3	15.4	15.3	15.1	15.0	14.9
81.5°	14.1	14.3	14.1	14.0	14.0	14.0
82°	13.0	13.1	13.0	12.9	12.8	12.9
82.5°	12.0	12.1	12.0	11.9	11.9	11.9
83°	10.9	11.0	10.9	10.8	10.8	10.8
83.5°	9.9	10.0	9.9	9.9	9.9	9.9
84°	8.9	8.9	8.9	8.8	8.8	8.8
84.5°	7.9	7.9	7.9	7.8	7.8	7.8
85°	7.0	7.0	7.0	6.9	6.9	6.8
85.5°	6.0	6.1	6.0	5.9	5.9	5.8
86°	5.1	5.2	5.1	5.0	5.0	5.0
86.5°	4.3	4.5	4.3	4.2	4.0	4.0
87°	3.6	4.0	3.6	3.4	3.3	3.2
87.5°	3.2	3.4	3.2	2.8	2.6	2.3
88°	2.7	3.0	2.7	2.2	1.9	1.7
88.5°	2.2	2.5	2.2	1.7	1.2	1.1
89°	1.7	2.0	1.7	1.3	0.9	0.8
89.5°	1.3	1.5	1.3	0.9	0.6	0.3

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



TEST NUMBER: P895711
CATALOG NUMBER: RAWZC409-3500K

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)