

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: P895710

Luminaire Tested: **RAWZC409-3000K**

Issue Date: 11/14/2024

Tested By:

Approved By:



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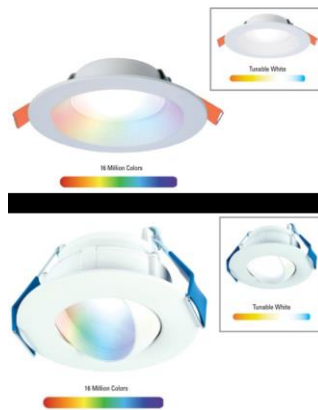
Test Information

Test Method: LM-79-08
 Report Number: P895710
 Test Lab:
 Issue Date: 11/14/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: RAWZC409-3000K
 Description: 4IN ADJUSTABLE WiZ SELECTABLE CCT
 Light Source: WiZ SELECTABLE 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 905.0 lumens
 Efficiency: N/A
 Efficacy: 87.9 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

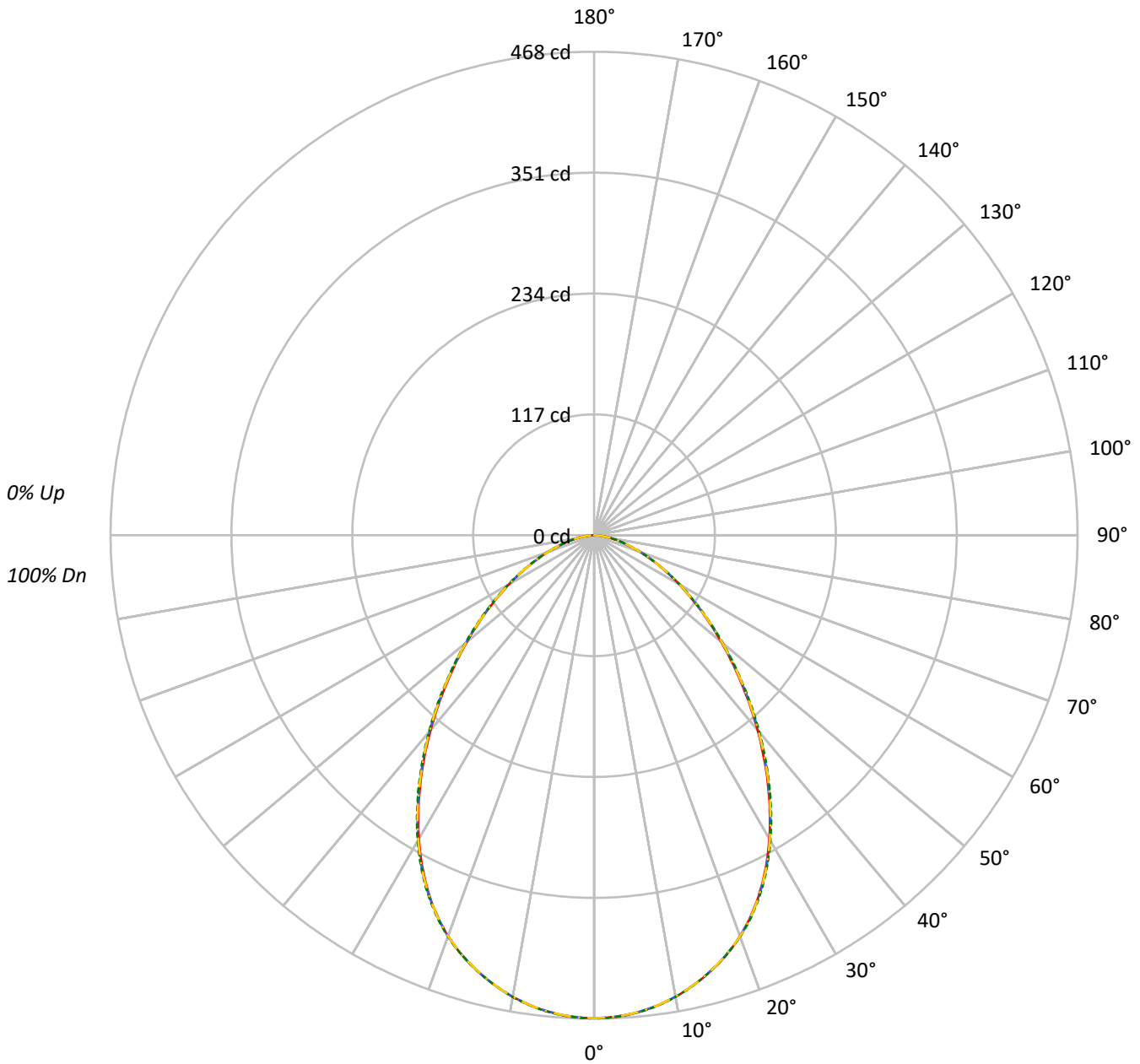
Input Watts (W): 10.3
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	58822	58822	58822	58822
5°	58605	58643	58605	58643
10°	57979	57992	57979	57992
15°	56897	56884	56897	56884
20°	55312	55392	55312	55392
25°	52781	52989	52781	52989
30°	49278	49626	49278	49626
35°	45030	45460	45030	45460
40°	40431	40874	40431	40874
45°	35809	36272	35809	36272
50°	31463	31894	31463	31894
55°	27514	27887	27514	27887
60°	23937	24239	23937	24239
65°	20637	20875	20637	20875
70°	17441	17736	17441	17736
75°	14490	14976	14490	14976
80°	12103	12683	12103	12683
85°	9675	9963	9675	9963

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	4.9
10°-20°	122.8	13.6
20°-30°	174.6	19.3
30°-40°	183.6	20.3
40°-50°	156.4	17.3
50°-60°	113.4	12.5
60°-70°	69.5	7.7
70°-80°	32.7	3.6
80°-90°	8.1	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°	341.4	37.7
0°-40°	525.0	58.0
0°-60°	794.8	87.8
0°-90°	905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	467	467	467	467	467	
5°	464	464	464	464	464	44
15°	437	437	437	437	437	123
25°	380	382	380	382	380	174
35°	293	296	293	296	293	183
45°	201	204	201	204	201	155
55°	125	127	125	127	125	113
65°	69	70	69	70	69	69
75°	30	31	30	31	30	32
85°	7	7	7	7	7	8
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°	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4
0.5°	467.4	467.3	467.2	467.3	467.7	467.3	467.2	467.3	467.4	467.3	467.2
1°	467.3	467.2	467.2	467.2	467.4	467.2	467.2	467.2	467.3	467.2	467.2
1.5°	467.1	467.1	466.9	467.0	467.4	467.0	466.9	467.1	467.1	467.1	466.9
2°	466.8	466.8	466.7	466.8	467.1	466.8	466.7	466.8	466.8	466.8	466.7
2.5°	466.6	466.6	466.4	466.5	466.7	466.5	466.4	466.6	466.6	466.6	466.4
3°	466.2	466.2	466.1	466.2	466.5	466.2	466.1	466.2	466.2	466.2	466.1
3.5°	465.7	465.7	465.6	465.6	465.9	465.6	465.6	465.7	465.7	465.7	465.6
4°	465.2	465.1	465.1	465.1	465.5	465.1	465.1	465.1	465.2	465.1	465.1
4.5°	464.7	464.6	464.5	464.5	464.9	464.5	464.5	464.6	464.7	464.6	464.5
5°	463.9	463.9	463.8	463.8	464.2	463.8	463.8	463.9	463.9	463.9	463.8
5.5°	463.4	463.2	463.2	463.2	463.5	463.2	463.2	463.2	463.4	463.2	463.2
6°	462.5	462.4	462.3	462.4	462.7	462.4	462.3	462.4	462.5	462.4	462.3
6.5°	461.7	461.6	461.6	461.5	461.9	461.5	461.6	461.6	461.7	461.6	461.6
7°	460.7	460.7	460.6	460.5	460.9	460.5	460.6	460.7	460.7	460.7	460.6
7.5°	459.8	459.7	459.6	459.6	459.9	459.6	459.6	459.7	459.8	459.7	459.6
8°	458.7	458.7	458.5	458.6	458.8	458.6	458.5	458.7	458.7	458.7	458.5
8.5°	457.5	457.4	457.3	457.4	457.7	457.4	457.3	457.4	457.5	457.4	457.3
9°	456.3	456.2	456.2	456.1	456.5	456.1	456.2	456.2	456.3	456.2	456.2
9.5°	455.1	455.0	454.9	454.9	455.2	454.9	454.9	455.0	455.1	455.0	454.9
10°	453.7	453.6	453.5	453.6	453.8	453.6	453.5	453.6	453.7	453.6	453.5
10.5°	452.3	452.3	452.2	452.1	452.3	452.1	452.2	452.3	452.3	452.3	452.2
11°	450.8	450.7	450.7	450.6	450.8	450.6	450.7	450.7	450.8	450.7	450.7
11.5°	449.2	449.2	449.1	449.1	449.3	449.1	449.1	449.2	449.2	449.2	449.1
12°	447.6	447.6	447.5	447.4	447.5	447.4	447.5	447.6	447.6	447.6	447.5
12.5°	445.9	445.9	445.8	445.8	445.9	445.8	445.8	445.9	445.9	445.9	445.8
13°	444.3	444.2	444.1	444.0	444.2	444.0	444.1	444.2	444.3	444.2	444.1
13.5°	442.5	442.4	442.3	442.2	442.4	442.2	442.3	442.4	442.5	442.4	442.3
14°	440.7	440.6	440.4	440.3	440.5	440.3	440.4	440.6	440.7	440.6	440.4
14.5°	438.7	438.6	438.5	438.4	438.6	438.4	438.5	438.6	438.7	438.6	438.5
15°	436.7	436.6	436.5	436.4	436.6	436.4	436.5	436.6	436.7	436.6	436.5
15.5°	434.6	434.6	434.5	434.4	434.6	434.4	434.5	434.6	434.6	434.6	434.5
16°	432.7	432.5	432.3	432.3	432.6	432.3	432.3	432.5	432.7	432.5	432.3
16.5°	430.4	430.3	430.2	430.1	430.4	430.1	430.2	430.3	430.4	430.3	430.2
17°	428.0	428.2	428.0	428.0	428.2	428.0	428.0	428.2	428.0	428.2	428.0
17.5°	425.9	425.8	425.6	425.7	426.0	425.7	425.6	425.8	425.9	425.8	425.6
18°	423.4	423.4	423.3	423.3	423.6	423.3	423.3	423.4	423.4	423.4	423.3
18.5°	421.0	420.8	420.9	420.9	421.2	420.9	420.9	420.8	421.0	420.8	420.9
19°	418.4	418.4	418.3	418.4	418.7	418.4	418.3	418.4	418.4	418.4	418.3
19.5°	415.7	415.5	415.7	415.8	416.2	415.8	415.7	415.5	415.7	415.5	415.7
20°	413.0	413.0	413.0	413.2	413.6	413.2	413.0	413.0	413.0	413.0	413.0
20.5°	410.1	410.1	410.3	410.4	410.8	410.4	410.3	410.1	410.1	410.1	410.3
21°	407.1	407.2	407.3	407.4	407.8	407.4	407.3	407.2	407.1	407.2	407.3
21.5°	404.1	404.2	404.3	404.5	405.0	404.5	404.3	404.2	404.1	404.2	404.3
22°	401.0	401.0	401.3	401.5	401.9	401.5	401.3	401.0	401.0	401.0	401.3

TEST NUMBER: P895710
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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°	397.6	397.8	398.1	398.4	398.8	398.4	398.1	397.8	397.6	397.8	398.1
23°	394.4	394.5	394.8	395.0	395.5	395.0	394.8	394.5	394.4	394.5	394.8
23.5°	391.0	391.2	391.4	391.8	392.2	391.8	391.4	391.2	391.0	391.2	391.4
24°	387.5	387.7	388.0	388.3	388.8	388.3	388.0	387.7	387.5	387.7	388.0
24.5°	383.9	384.1	384.5	384.8	385.3	384.8	384.5	384.1	383.9	384.1	384.5
25°	380.1	380.3	380.7	381.2	381.6	381.2	380.7	380.3	380.1	380.3	380.7
25.5°	376.4	376.7	377.1	377.6	378.1	377.6	377.1	376.7	376.4	376.7	377.1
26°	372.6	372.8	373.3	373.7	374.2	373.7	373.3	372.8	372.6	372.8	373.3
26.5°	368.6	368.9	369.4	369.9	370.4	369.9	369.4	368.9	368.6	368.9	369.4
27°	364.5	364.9	365.5	365.9	366.6	365.9	365.5	364.9	364.5	364.9	365.5
27.5°	360.5	360.8	361.4	361.9	362.4	361.9	361.4	360.8	360.5	360.8	361.4
28°	356.3	356.7	357.4	357.9	358.4	357.9	357.4	356.7	356.3	356.7	357.4
28.5°	352.1	352.5	353.1	353.7	354.2	353.7	353.1	352.5	352.1	352.5	353.1
29°	347.8	348.2	348.9	349.5	350.1	349.5	348.9	348.2	347.8	348.2	348.9
29.5°	343.5	343.9	344.7	345.3	345.9	345.3	344.7	343.9	343.5	343.9	344.7
30°	339.1	339.5	340.2	340.9	341.5	340.9	340.2	339.5	339.1	339.5	340.2
30.5°	334.7	335.0	335.9	336.6	337.1	336.6	335.9	335.0	334.7	335.0	335.9
31°	330.2	330.6	331.4	332.1	332.7	332.1	331.4	330.6	330.2	330.6	331.4
31.5°	325.6	326.0	327.0	327.6	328.2	327.6	327.0	326.0	325.6	326.0	327.0
32°	321.0	321.5	322.3	323.1	323.7	323.1	322.3	321.5	321.0	321.5	322.3
32.5°	316.4	316.9	317.7	318.5	319.0	318.5	317.7	316.9	316.4	316.9	317.7
33°	311.9	312.3	313.2	314.0	314.4	314.0	313.2	312.3	311.9	312.3	313.2
33.5°	307.3	307.6	308.6	309.3	309.8	309.3	308.6	307.6	307.3	307.6	308.6
34°	302.6	302.9	303.9	304.6	305.3	304.6	303.9	302.9	302.6	302.9	303.9
34.5°	297.8	298.2	299.2	299.9	300.6	299.9	299.2	298.2	297.8	298.2	299.2
35°	293.1	293.5	294.5	295.2	295.9	295.2	294.5	293.5	293.1	293.5	294.5
35.5°	288.4	288.8	289.8	290.6	291.3	290.6	289.8	288.8	288.4	288.8	289.8
36°	283.6	284.0	285.1	285.8	286.4	285.8	285.1	284.0	283.6	284.0	285.1
36.5°	278.9	279.4	280.4	281.2	281.8	281.2	280.4	279.4	278.9	279.4	280.4
37°	274.1	274.6	275.6	276.4	277.0	276.4	275.6	274.6	274.1	274.6	275.6
37.5°	269.4	270.0	270.8	271.7	272.3	271.7	270.8	270.0	269.4	270.0	270.8
38°	264.7	265.2	266.2	267.0	267.5	267.0	266.2	265.2	264.7	265.2	266.2
38.5°	260.0	260.5	261.5	262.3	262.8	262.3	261.5	260.5	260.0	260.5	261.5
39°	255.3	255.9	256.9	257.7	258.2	257.7	256.9	255.9	255.3	255.9	256.9
39.5°	250.6	251.2	252.1	253.0	253.5	253.0	252.1	251.2	250.6	251.2	252.1
40°	246.1	246.5	247.5	248.2	248.8	248.2	247.5	246.5	246.1	246.5	247.5
40.5°	241.4	241.8	242.9	243.6	244.2	243.6	242.9	241.8	241.4	241.8	242.9
41°	236.8	237.2	238.2	239.0	239.6	239.0	238.2	237.2	236.8	237.2	238.2
41.5°	232.2	232.7	233.7	234.4	235.0	234.4	233.7	232.7	232.2	232.7	233.7
42°	227.5	228.1	229.1	229.8	230.4	229.8	229.1	228.1	227.5	228.1	229.1
42.5°	223.1	223.7	224.6	225.4	225.8	225.4	224.6	223.7	223.1	223.7	224.6
43°	218.7	219.2	220.1	220.9	221.3	220.9	220.1	219.2	218.7	219.2	220.1
43.5°	214.3	214.6	215.7	216.3	216.9	216.3	215.7	214.6	214.3	214.6	215.7
44°	209.8	210.3	211.3	211.9	212.5	211.9	211.3	210.3	209.8	210.3	211.3
44.5°	205.4	206.0	206.9	207.6	208.1	207.6	206.9	206.0	205.4	206.0	206.9

TEST NUMBER: P895710
 CATALOG NUMBER: RAWZC409-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	201.2	201.6	202.6	203.2	203.8	203.2	202.6	201.6	201.2	201.6	202.6
45.5°	196.9	197.3	198.3	198.9	199.4	198.9	198.3	197.3	196.9	197.3	198.3
46°	192.7	193.2	194.0	194.7	195.2	194.7	194.0	193.2	192.7	193.2	194.0
46.5°	188.5	188.9	189.9	190.5	191.0	190.5	189.9	188.9	188.5	188.9	189.9
47°	184.4	184.7	185.6	186.3	186.8	186.3	185.6	184.7	184.4	184.7	185.6
47.5°	180.3	180.7	181.6	182.3	182.7	182.3	181.6	180.7	180.3	180.7	181.6
48°	176.3	176.7	177.5	178.1	178.6	178.1	177.5	176.7	176.3	176.7	177.5
48.5°	172.3	172.7	173.5	174.2	174.6	174.2	173.5	172.7	172.3	172.7	173.5
49°	168.4	168.8	169.6	170.2	170.7	170.2	169.6	168.8	168.4	168.8	169.6
49.5°	164.5	164.9	165.8	166.3	166.8	166.3	165.8	164.9	164.5	164.9	165.8
50°	160.7	161.1	161.9	162.5	162.9	162.5	161.9	161.1	160.7	161.1	161.9
50.5°	156.8	157.3	158.1	158.6	159.1	158.6	158.1	157.3	156.8	157.3	158.1
51°	153.2	153.5	154.3	155.0	155.3	155.0	154.3	153.5	153.2	153.5	154.3
51.5°	149.5	149.9	150.6	151.2	151.7	151.2	150.6	149.9	149.5	149.9	150.6
52°	145.9	146.3	147.0	147.6	148.1	147.6	147.0	146.3	145.9	146.3	147.0
52.5°	142.3	142.7	143.4	144.0	144.4	144.0	143.4	142.7	142.3	142.7	143.4
53°	138.8	139.2	139.8	140.4	140.8	140.4	139.8	139.2	138.8	139.2	139.8
53.5°	135.4	135.8	136.3	136.9	137.4	136.9	136.3	135.8	135.4	135.8	136.3
54°	132.0	132.3	132.8	133.4	133.9	133.4	132.8	132.3	132.0	132.3	132.8
54.5°	128.7	129.0	129.5	130.1	130.5	130.1	129.5	129.0	128.7	129.0	129.5
55°	125.4	125.7	126.2	126.7	127.1	126.7	126.2	125.7	125.4	125.7	126.2
55.5°	122.2	122.4	122.9	123.4	123.8	123.4	122.9	122.4	122.2	122.4	122.9
56°	118.9	119.2	119.7	120.2	120.6	120.2	119.7	119.2	118.9	119.2	119.7
56.5°	115.8	116.0	116.5	117.0	117.4	117.0	116.5	116.0	115.8	116.0	116.5
57°	112.7	112.9	113.3	113.8	114.2	113.8	113.3	112.9	112.7	112.9	113.3
57.5°	109.7	109.8	110.2	110.7	111.1	110.7	110.2	109.8	109.7	109.8	110.2
58°	106.7	106.8	107.2	107.7	108.1	107.7	107.2	106.8	106.7	106.8	107.2
58.5°	103.7	103.8	104.2	104.7	105.1	104.7	104.2	103.8	103.7	103.8	104.2
59°	100.7	100.9	101.3	101.8	102.0	101.8	101.3	100.9	100.7	100.9	101.3
59.5°	97.9	98.0	98.5	98.8	99.1	98.8	98.5	98.0	97.9	98.0	98.5
60°	95.1	95.2	95.6	95.9	96.3	95.9	95.6	95.2	95.1	95.2	95.6
60.5°	92.4	92.4	92.7	93.2	93.4	93.2	92.7	92.4	92.4	92.4	92.7
61°	89.6	89.6	90.0	90.4	90.7	90.4	90.0	89.6	89.6	89.6	90.0
61.5°	86.9	87.0	87.4	87.7	87.9	87.7	87.4	87.0	86.9	87.0	87.4
62°	84.3	84.3	84.7	85.0	85.3	85.0	84.7	84.3	84.3	84.3	84.7
62.5°	81.6	81.7	82.1	82.4	82.6	82.4	82.1	81.7	81.6	81.7	82.1
63°	79.1	79.2	79.5	79.7	80.0	79.7	79.5	79.2	79.1	79.2	79.5
63.5°	76.5	76.7	77.0	77.2	77.5	77.2	77.0	76.7	76.5	76.7	77.0
64°	74.1	74.2	74.5	74.7	74.9	74.7	74.5	74.2	74.1	74.2	74.5
64.5°	71.6	71.7	72.0	72.2	72.5	72.2	72.0	71.7	71.6	71.7	72.0
65°	69.3	69.4	69.6	69.9	70.1	69.9	69.6	69.4	69.3	69.4	69.6
65.5°	66.9	67.0	67.2	67.5	67.8	67.5	67.2	67.0	66.9	67.0	67.2
66°	64.6	64.7	65.0	65.1	65.4	65.1	65.0	64.7	64.6	64.7	65.0
66.5°	62.2	62.4	62.6	62.9	63.2	62.9	62.6	62.4	62.2	62.4	62.6
67°	60.0	60.2	60.4	60.6	60.9	60.6	60.4	60.2	60.0	60.2	60.4

TEST NUMBER: P895710
 CATALOG NUMBER: RAWZC409-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	57.8	57.9	58.2	58.4	58.6	58.4	58.2	57.9	57.8	57.9	58.2
68°	55.6	55.8	56.0	56.2	56.5	56.2	56.0	55.8	55.6	55.8	56.0
68.5°	53.5	53.7	53.9	54.1	54.3	54.1	53.9	53.7	53.5	53.7	53.9
69°	51.4	51.6	51.9	52.0	52.2	52.0	51.9	51.6	51.4	51.6	51.9
69.5°	49.3	49.5	49.8	50.0	50.2	50.0	49.8	49.5	49.3	49.5	49.8
70°	47.4	47.5	47.8	48.0	48.2	48.0	47.8	47.5	47.4	47.5	47.8
70.5°	45.4	45.6	45.8	46.0	46.2	46.0	45.8	45.6	45.4	45.6	45.8
71°	43.5	43.7	44.0	44.1	44.3	44.1	44.0	43.7	43.5	43.7	44.0
71.5°	41.6	41.8	42.1	42.3	42.6	42.3	42.1	41.8	41.6	41.8	42.1
72°	39.8	40.0	40.3	40.5	40.8	40.5	40.3	40.0	39.8	40.0	40.3
72.5°	38.0	38.2	38.5	38.7	39.0	38.7	38.5	38.2	38.0	38.2	38.5
73°	36.3	36.5	36.8	37.0	37.2	37.0	36.8	36.5	36.3	36.5	36.8
73.5°	34.7	34.8	35.0	35.3	35.5	35.3	35.0	34.8	34.7	34.8	35.0
74°	33.0	33.1	33.4	33.6	33.9	33.6	33.4	33.1	33.0	33.1	33.4
74.5°	31.4	31.5	31.7	32.0	32.3	32.0	31.7	31.5	31.4	31.5	31.7
75°	29.8	29.9	30.2	30.5	30.8	30.5	30.2	29.9	29.8	29.9	30.2
75.5°	28.3	28.4	28.7	29.0	29.3	29.0	28.7	28.4	28.3	28.4	28.7
76°	26.8	26.9	27.3	27.6	27.9	27.6	27.3	26.9	26.8	26.9	27.3
76.5°	25.4	25.5	25.9	26.2	26.5	26.2	25.9	25.5	25.4	25.5	25.9
77°	24.0	24.1	24.5	24.9	25.1	24.9	24.5	24.1	24.0	24.1	24.5
77.5°	22.7	22.8	23.3	23.6	23.9	23.6	23.3	22.8	22.7	22.8	23.3
78°	21.4	21.5	21.9	22.4	22.6	22.4	21.9	21.5	21.4	21.5	21.9
78.5°	20.1	20.2	20.7	21.1	21.4	21.1	20.7	20.2	20.1	20.2	20.7
79°	18.9	19.1	19.5	19.9	20.1	19.9	19.5	19.1	18.9	19.1	19.5
79.5°	17.8	18.0	18.3	18.5	18.8	18.5	18.3	18.0	17.8	18.0	18.3
80°	16.7	16.9	17.1	17.4	17.5	17.4	17.1	16.9	16.7	16.9	17.1
80.5°	15.6	15.8	16.0	16.2	16.4	16.2	16.0	15.8	15.6	15.8	16.0
81°	14.7	14.8	14.9	15.1	15.2	15.1	14.9	14.8	14.7	14.8	14.9
81.5°	13.7	13.7	13.7	13.8	14.0	13.8	13.7	13.7	13.7	13.7	13.7
82°	12.7	12.6	12.7	12.8	12.9	12.8	12.7	12.6	12.7	12.6	12.7
82.5°	11.7	11.7	11.7	11.8	11.9	11.8	11.7	11.7	11.7	11.7	11.7
83°	10.6	10.6	10.6	10.7	10.8	10.7	10.6	10.6	10.6	10.6	10.6
83.5°	9.7	9.7	9.7	9.7	9.8	9.7	9.7	9.7	9.7	9.7	9.7
84°	8.7	8.7	8.7	8.8	8.8	8.8	8.7	8.7	8.7	8.7	8.7
84.5°	7.7	7.7	7.7	7.8	7.8	7.8	7.7	7.7	7.7	7.7	7.7
85°	6.7	6.8	6.8	6.9	6.9	6.9	6.8	6.8	6.7	6.8	6.8
85.5°	5.7	5.8	5.8	5.9	6.0	5.9	5.8	5.8	5.7	5.8	5.8
86°	4.9	4.9	4.9	5.0	5.1	5.0	4.9	4.9	4.9	4.9	4.9
86.5°	4.0	4.0	4.1	4.2	4.4	4.2	4.1	4.0	4.0	4.0	4.1
87°	3.1	3.2	3.4	3.6	4.0	3.6	3.4	3.2	3.1	3.2	3.4
87.5°	2.3	2.5	2.7	3.1	3.4	3.1	2.7	2.5	2.3	2.5	2.7
88°	1.7	1.9	2.2	2.6	2.9	2.6	2.2	1.9	1.7	1.9	2.2
88.5°	1.1	1.2	1.7	2.2	2.4	2.2	1.7	1.2	1.1	1.2	1.7
89°	0.8	0.8	1.3	1.7	2.0	1.7	1.3	0.8	0.8	0.8	1.3
89.5°	0.3	0.6	0.8	1.3	1.5	1.3	0.8	0.6	0.3	0.6	0.8

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



TEST NUMBER: P895710
CATALOG NUMBER: RAWZC409-3000K

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: P895710
 CATALOG NUMBER: RAWZC409-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	467.4	467.4	467.4	467.4	467.4	467.4
0.5°	467.3	467.7	467.3	467.2	467.3	467.4
1°	467.2	467.4	467.2	467.2	467.2	467.3
1.5°	467.0	467.4	467.0	466.9	467.1	467.1
2°	466.8	467.1	466.8	466.7	466.8	466.8
2.5°	466.5	466.7	466.5	466.4	466.6	466.6
3°	466.2	466.5	466.2	466.1	466.2	466.2
3.5°	465.6	465.9	465.6	465.6	465.7	465.7
4°	465.1	465.5	465.1	465.1	465.1	465.2
4.5°	464.5	464.9	464.5	464.5	464.6	464.7
5°	463.8	464.2	463.8	463.8	463.9	463.9
5.5°	463.2	463.5	463.2	463.2	463.2	463.4
6°	462.4	462.7	462.4	462.3	462.4	462.5
6.5°	461.5	461.9	461.5	461.6	461.6	461.7
7°	460.5	460.9	460.5	460.6	460.7	460.7
7.5°	459.6	459.9	459.6	459.6	459.7	459.8
8°	458.6	458.8	458.6	458.5	458.7	458.7
8.5°	457.4	457.7	457.4	457.3	457.4	457.5
9°	456.1	456.5	456.1	456.2	456.2	456.3
9.5°	454.9	455.2	454.9	454.9	455.0	455.1
10°	453.6	453.8	453.6	453.5	453.6	453.7
10.5°	452.1	452.3	452.1	452.2	452.3	452.3
11°	450.6	450.8	450.6	450.7	450.7	450.8
11.5°	449.1	449.3	449.1	449.1	449.2	449.2
12°	447.4	447.5	447.4	447.5	447.6	447.6
12.5°	445.8	445.9	445.8	445.8	445.9	445.9
13°	444.0	444.2	444.0	444.1	444.2	444.3
13.5°	442.2	442.4	442.2	442.3	442.4	442.5
14°	440.3	440.5	440.3	440.4	440.6	440.7
14.5°	438.4	438.6	438.4	438.5	438.6	438.7
15°	436.4	436.6	436.4	436.5	436.6	436.7
15.5°	434.4	434.6	434.4	434.5	434.6	434.6
16°	432.3	432.6	432.3	432.3	432.5	432.7
16.5°	430.1	430.4	430.1	430.2	430.3	430.4
17°	428.0	428.2	428.0	428.0	428.2	428.0
17.5°	425.7	426.0	425.7	425.6	425.8	425.9
18°	423.3	423.6	423.3	423.3	423.4	423.4
18.5°	420.9	421.2	420.9	420.9	420.8	421.0
19°	418.4	418.7	418.4	418.3	418.4	418.4
19.5°	415.8	416.2	415.8	415.7	415.5	415.7
20°	413.2	413.6	413.2	413.0	413.0	413.0
20.5°	410.4	410.8	410.4	410.3	410.1	410.1
21°	407.4	407.8	407.4	407.3	407.2	407.1
21.5°	404.5	405.0	404.5	404.3	404.2	404.1
22°	401.5	401.9	401.5	401.3	401.0	401.0

TEST NUMBER: P895710
 CATALOG NUMBER: RAWZC409-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	398.4	398.8	398.4	398.1	397.8	397.6
23°	395.0	395.5	395.0	394.8	394.5	394.4
23.5°	391.8	392.2	391.8	391.4	391.2	391.0
24°	388.3	388.8	388.3	388.0	387.7	387.5
24.5°	384.8	385.3	384.8	384.5	384.1	383.9
25°	381.2	381.6	381.2	380.7	380.3	380.1
25.5°	377.6	378.1	377.6	377.1	376.7	376.4
26°	373.7	374.2	373.7	373.3	372.8	372.6
26.5°	369.9	370.4	369.9	369.4	368.9	368.6
27°	365.9	366.6	365.9	365.5	364.9	364.5
27.5°	361.9	362.4	361.9	361.4	360.8	360.5
28°	357.9	358.4	357.9	357.4	356.7	356.3
28.5°	353.7	354.2	353.7	353.1	352.5	352.1
29°	349.5	350.1	349.5	348.9	348.2	347.8
29.5°	345.3	345.9	345.3	344.7	343.9	343.5
30°	340.9	341.5	340.9	340.2	339.5	339.1
30.5°	336.6	337.1	336.6	335.9	335.0	334.7
31°	332.1	332.7	332.1	331.4	330.6	330.2
31.5°	327.6	328.2	327.6	327.0	326.0	325.6
32°	323.1	323.7	323.1	322.3	321.5	321.0
32.5°	318.5	319.0	318.5	317.7	316.9	316.4
33°	314.0	314.4	314.0	313.2	312.3	311.9
33.5°	309.3	309.8	309.3	308.6	307.6	307.3
34°	304.6	305.3	304.6	303.9	302.9	302.6
34.5°	299.9	300.6	299.9	299.2	298.2	297.8
35°	295.2	295.9	295.2	294.5	293.5	293.1
35.5°	290.6	291.3	290.6	289.8	288.8	288.4
36°	285.8	286.4	285.8	285.1	284.0	283.6
36.5°	281.2	281.8	281.2	280.4	279.4	278.9
37°	276.4	277.0	276.4	275.6	274.6	274.1
37.5°	271.7	272.3	271.7	270.8	270.0	269.4
38°	267.0	267.5	267.0	266.2	265.2	264.7
38.5°	262.3	262.8	262.3	261.5	260.5	260.0
39°	257.7	258.2	257.7	256.9	255.9	255.3
39.5°	253.0	253.5	253.0	252.1	251.2	250.6
40°	248.2	248.8	248.2	247.5	246.5	246.1
40.5°	243.6	244.2	243.6	242.9	241.8	241.4
41°	239.0	239.6	239.0	238.2	237.2	236.8
41.5°	234.4	235.0	234.4	233.7	232.7	232.2
42°	229.8	230.4	229.8	229.1	228.1	227.5
42.5°	225.4	225.8	225.4	224.6	223.7	223.1
43°	220.9	221.3	220.9	220.1	219.2	218.7
43.5°	216.3	216.9	216.3	215.7	214.6	214.3
44°	211.9	212.5	211.9	211.3	210.3	209.8
44.5°	207.6	208.1	207.6	206.9	206.0	205.4

TEST NUMBER: P895710
 CATALOG NUMBER: RAWZC409-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	203.2	203.8	203.2	202.6	201.6	201.2
45.5°	198.9	199.4	198.9	198.3	197.3	196.9
46°	194.7	195.2	194.7	194.0	193.2	192.7
46.5°	190.5	191.0	190.5	189.9	188.9	188.5
47°	186.3	186.8	186.3	185.6	184.7	184.4
47.5°	182.3	182.7	182.3	181.6	180.7	180.3
48°	178.1	178.6	178.1	177.5	176.7	176.3
48.5°	174.2	174.6	174.2	173.5	172.7	172.3
49°	170.2	170.7	170.2	169.6	168.8	168.4
49.5°	166.3	166.8	166.3	165.8	164.9	164.5
50°	162.5	162.9	162.5	161.9	161.1	160.7
50.5°	158.6	159.1	158.6	158.1	157.3	156.8
51°	155.0	155.3	155.0	154.3	153.5	153.2
51.5°	151.2	151.7	151.2	150.6	149.9	149.5
52°	147.6	148.1	147.6	147.0	146.3	145.9
52.5°	144.0	144.4	144.0	143.4	142.7	142.3
53°	140.4	140.8	140.4	139.8	139.2	138.8
53.5°	136.9	137.4	136.9	136.3	135.8	135.4
54°	133.4	133.9	133.4	132.8	132.3	132.0
54.5°	130.1	130.5	130.1	129.5	129.0	128.7
55°	126.7	127.1	126.7	126.2	125.7	125.4
55.5°	123.4	123.8	123.4	122.9	122.4	122.2
56°	120.2	120.6	120.2	119.7	119.2	118.9
56.5°	117.0	117.4	117.0	116.5	116.0	115.8
57°	113.8	114.2	113.8	113.3	112.9	112.7
57.5°	110.7	111.1	110.7	110.2	109.8	109.7
58°	107.7	108.1	107.7	107.2	106.8	106.7
58.5°	104.7	105.1	104.7	104.2	103.8	103.7
59°	101.8	102.0	101.8	101.3	100.9	100.7
59.5°	98.8	99.1	98.8	98.5	98.0	97.9
60°	95.9	96.3	95.9	95.6	95.2	95.1
60.5°	93.2	93.4	93.2	92.7	92.4	92.4
61°	90.4	90.7	90.4	90.0	89.6	89.6
61.5°	87.7	87.9	87.7	87.4	87.0	86.9
62°	85.0	85.3	85.0	84.7	84.3	84.3
62.5°	82.4	82.6	82.4	82.1	81.7	81.6
63°	79.7	80.0	79.7	79.5	79.2	79.1
63.5°	77.2	77.5	77.2	77.0	76.7	76.5
64°	74.7	74.9	74.7	74.5	74.2	74.1
64.5°	72.2	72.5	72.2	72.0	71.7	71.6
65°	69.9	70.1	69.9	69.6	69.4	69.3
65.5°	67.5	67.8	67.5	67.2	67.0	66.9
66°	65.1	65.4	65.1	65.0	64.7	64.6
66.5°	62.9	63.2	62.9	62.6	62.4	62.2
67°	60.6	60.9	60.6	60.4	60.2	60.0

TEST NUMBER: P895710
 CATALOG NUMBER: RAWZC409-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	58.4	58.6	58.4	58.2	57.9	57.8
68°	56.2	56.5	56.2	56.0	55.8	55.6
68.5°	54.1	54.3	54.1	53.9	53.7	53.5
69°	52.0	52.2	52.0	51.9	51.6	51.4
69.5°	50.0	50.2	50.0	49.8	49.5	49.3
70°	48.0	48.2	48.0	47.8	47.5	47.4
70.5°	46.0	46.2	46.0	45.8	45.6	45.4
71°	44.1	44.3	44.1	44.0	43.7	43.5
71.5°	42.3	42.6	42.3	42.1	41.8	41.6
72°	40.5	40.8	40.5	40.3	40.0	39.8
72.5°	38.7	39.0	38.7	38.5	38.2	38.0
73°	37.0	37.2	37.0	36.8	36.5	36.3
73.5°	35.3	35.5	35.3	35.0	34.8	34.7
74°	33.6	33.9	33.6	33.4	33.1	33.0
74.5°	32.0	32.3	32.0	31.7	31.5	31.4
75°	30.5	30.8	30.5	30.2	29.9	29.8
75.5°	29.0	29.3	29.0	28.7	28.4	28.3
76°	27.6	27.9	27.6	27.3	26.9	26.8
76.5°	26.2	26.5	26.2	25.9	25.5	25.4
77°	24.9	25.1	24.9	24.5	24.1	24.0
77.5°	23.6	23.9	23.6	23.3	22.8	22.7
78°	22.4	22.6	22.4	21.9	21.5	21.4
78.5°	21.1	21.4	21.1	20.7	20.2	20.1
79°	19.9	20.1	19.9	19.5	19.1	18.9
79.5°	18.5	18.8	18.5	18.3	18.0	17.8
80°	17.4	17.5	17.4	17.1	16.9	16.7
80.5°	16.2	16.4	16.2	16.0	15.8	15.6
81°	15.1	15.2	15.1	14.9	14.8	14.7
81.5°	13.8	14.0	13.8	13.7	13.7	13.7
82°	12.8	12.9	12.8	12.7	12.6	12.7
82.5°	11.8	11.9	11.8	11.7	11.7	11.7
83°	10.7	10.8	10.7	10.6	10.6	10.6
83.5°	9.7	9.8	9.7	9.7	9.7	9.7
84°	8.8	8.8	8.8	8.7	8.7	8.7
84.5°	7.8	7.8	7.8	7.7	7.7	7.7
85°	6.9	6.9	6.9	6.8	6.8	6.7
85.5°	5.9	6.0	5.9	5.8	5.8	5.7
86°	5.0	5.1	5.0	4.9	4.9	4.9
86.5°	4.2	4.4	4.2	4.1	4.0	4.0
87°	3.6	4.0	3.6	3.4	3.2	3.1
87.5°	3.1	3.4	3.1	2.7	2.5	2.3
88°	2.6	2.9	2.6	2.2	1.9	1.7
88.5°	2.2	2.4	2.2	1.7	1.2	1.1
89°	1.7	2.0	1.7	1.3	0.8	0.8
89.5°	1.3	1.5	1.3	0.8	0.6	0.3

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



TEST NUMBER: P895710
CATALOG NUMBER: RAWZC409-3000K

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)