

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: P895712

Luminaire Tested: **RAWZC409-4000K**

Issue Date: 11/14/2024

Tested By:

Approved By:



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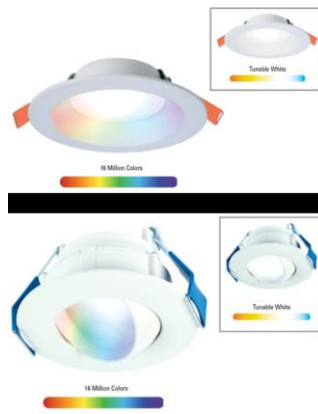
Test Information

Test Method: LM-79-08
 Report Number: P895712
 Test Lab:
 Issue Date: 11/14/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: RAWZC409-4000K
 Description: 4IN ADJUSTABLE WiZ SELECTABLE CCT
 Light Source: WiZ SELECTABLE 90CRI / 4000K 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): 1.1 / 1.11 / 1.16
 Luminous Opening: Circular (Dia: 0.33' x H: 0')
 CIE Type: Direct

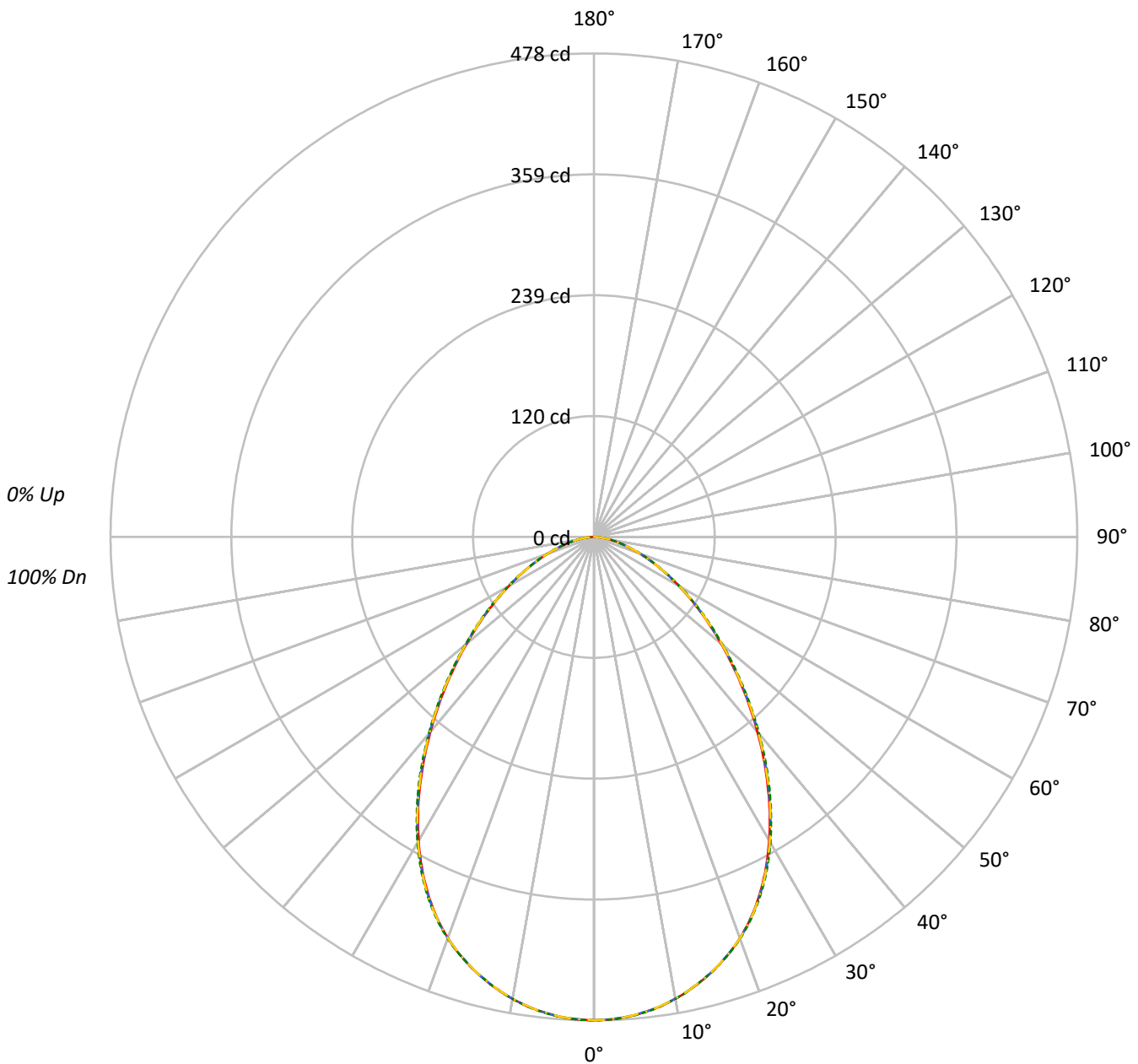
Input Watts (W): 10.2
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	60118	60118	60118	60118
5°	59906	59944	59906	59944
10°	59257	59270	59257	59270
15°	58161	58148	58161	58148
20°	56530	56611	56530	56611
25°	53947	54169	53947	54169
30°	50368	50731	50368	50731
35°	46013	46459	46013	46459
40°	41318	41778	41318	41778
45°	36592	37073	36592	37073
50°	32148	32599	32148	32599
55°	28129	28502	28129	28502
60°	24465	24767	24465	24767
65°	21083	21351	21083	21351
70°	17809	18140	17809	18140
75°	14831	15317	14831	15317
80°	12321	12973	12321	12973
85°	9819	10108	9819	10108

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	4.9
10°-20°	125.5	13.6
20°-30°	178.4	19.3
30°-40°	187.7	20.3
40°-50°	159.9	17.3
50°-60°	115.9	12.5
60°-70°	71.0	7.7
70°-80°	33.4	3.6
80°-90°	8.3	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°	348.9	37.7
0°-40°	536.6	58.0
0°-60°	812.3	87.8
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°	478	478	478	478	478	
5°	474	474	474	474	474	45
15°	446	446	446	446	446	126
25°	388	390	388	390	388	178
35°	300	302	300	302	300	187
45°	206	208	206	208	206	159
55°	128	130	128	130	128	115
65°	71	72	71	72	71	71
75°	30	32	30	32	30	33
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°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7
0.5°	477.7	477.6	477.5	477.6	478.0	477.6	477.5	477.6	477.7	477.6	477.5
1°	477.6	477.5	477.5	477.5	477.7	477.5	477.5	477.5	477.6	477.5	477.5
1.5°	477.4	477.4	477.3	477.4	477.7	477.4	477.3	477.4	477.4	477.4	477.3
2°	477.2	477.2	477.1	477.2	477.4	477.2	477.1	477.2	477.2	477.2	477.1
2.5°	476.9	476.9	476.7	476.8	477.1	476.8	476.7	476.9	476.9	476.9	476.7
3°	476.5	476.5	476.4	476.5	476.8	476.5	476.4	476.5	476.5	476.5	476.4
3.5°	476.0	476.0	475.9	475.9	476.2	475.9	475.9	476.0	476.0	476.0	475.9
4°	475.5	475.4	475.4	475.4	475.8	475.4	475.4	475.4	475.5	475.4	475.4
4.5°	474.9	474.9	474.8	474.8	475.1	474.8	474.8	474.9	474.9	474.9	474.8
5°	474.2	474.2	474.1	474.1	474.5	474.1	474.1	474.2	474.2	474.2	474.1
5.5°	473.6	473.4	473.4	473.4	473.7	473.4	473.4	473.4	473.6	473.4	473.4
6°	472.7	472.6	472.5	472.6	472.9	472.6	472.5	472.6	472.7	472.6	472.5
6.5°	471.9	471.8	471.8	471.7	472.1	471.7	471.8	471.8	471.9	471.8	471.8
7°	470.9	470.9	470.8	470.7	471.1	470.7	470.8	470.9	470.9	470.9	470.8
7.5°	469.9	469.8	469.8	469.8	470.0	469.8	469.8	469.8	469.9	469.8	469.8
8°	468.9	468.8	468.6	468.7	469.0	468.7	468.6	468.8	468.9	468.8	468.6
8.5°	467.6	467.5	467.4	467.5	467.8	467.5	467.4	467.5	467.6	467.5	467.4
9°	466.4	466.3	466.3	466.2	466.6	466.2	466.3	466.3	466.4	466.3	466.3
9.5°	465.1	465.0	464.9	464.9	465.2	464.9	464.9	465.0	465.1	465.0	464.9
10°	463.7	463.6	463.5	463.6	463.8	463.6	463.5	463.6	463.7	463.6	463.5
10.5°	462.2	462.2	462.1	462.1	462.3	462.1	462.1	462.2	462.2	462.2	462.1
11°	460.8	460.7	460.6	460.5	460.8	460.5	460.6	460.7	460.8	460.7	460.6
11.5°	459.2	459.2	459.1	459.0	459.3	459.0	459.1	459.2	459.2	459.2	459.1
12°	457.5	457.5	457.3	457.2	457.4	457.2	457.3	457.5	457.5	457.5	457.3
12.5°	455.8	455.8	455.6	455.6	455.8	455.6	455.6	455.8	455.8	455.8	455.6
13°	454.2	454.1	453.9	453.8	454.0	453.8	453.9	454.1	454.2	454.1	453.9
13.5°	452.2	452.1	452.0	452.0	452.1	452.0	452.0	452.1	452.2	452.1	452.0
14°	450.4	450.3	450.1	450.0	450.2	450.0	450.1	450.3	450.4	450.3	450.1
14.5°	448.4	448.3	448.2	448.1	448.3	448.1	448.2	448.3	448.4	448.3	448.2
15°	446.4	446.3	446.2	446.1	446.3	446.1	446.2	446.3	446.4	446.3	446.2
15.5°	444.3	444.2	444.1	444.0	444.3	444.0	444.1	444.2	444.3	444.2	444.1
16°	442.2	442.0	441.8	441.8	442.1	441.8	441.8	442.0	442.2	442.0	441.8
16.5°	439.9	439.8	439.7	439.6	439.9	439.6	439.7	439.8	439.9	439.8	439.7
17°	437.4	437.6	437.4	437.4	437.6	437.4	437.4	437.6	437.4	437.6	437.4
17.5°	435.3	435.2	435.0	435.1	435.4	435.1	435.0	435.2	435.3	435.2	435.0
18°	432.8	432.8	432.6	432.6	433.0	432.6	432.6	432.8	432.8	432.8	432.6
18.5°	430.3	430.1	430.2	430.2	430.5	430.2	430.2	430.1	430.3	430.1	430.2
19°	427.6	427.6	427.5	427.6	428.0	427.6	427.5	427.6	427.6	427.6	427.5
19.5°	424.9	424.7	424.9	425.0	425.4	425.0	424.9	424.7	424.9	424.7	424.9
20°	422.1	422.1	422.1	422.3	422.7	422.3	422.1	422.1	422.1	422.1	422.1
20.5°	419.1	419.1	419.3	419.4	419.9	419.4	419.3	419.1	419.1	419.1	419.3
21°	416.1	416.2	416.3	416.4	416.8	416.4	416.3	416.2	416.1	416.2	416.3
21.5°	413.0	413.2	413.3	413.5	413.9	413.5	413.3	413.2	413.0	413.2	413.3
22°	409.9	409.9	410.2	410.4	410.8	410.4	410.2	409.9	409.9	409.9	410.2

TEST NUMBER: P895712
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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°	406.4	406.6	406.9	407.2	407.6	407.2	406.9	406.6	406.4	406.6	406.9
23°	403.2	403.3	403.6	403.7	404.2	403.7	403.6	403.3	403.2	403.3	403.6
23.5°	399.6	399.9	400.1	400.5	400.9	400.5	400.1	399.9	399.6	399.9	400.1
24°	396.0	396.2	396.6	396.9	397.4	396.9	396.6	396.2	396.0	396.2	396.6
24.5°	392.4	392.6	393.0	393.4	393.8	393.4	393.0	392.6	392.4	392.6	393.0
25°	388.5	388.7	389.1	389.6	390.1	389.6	389.1	388.7	388.5	388.7	389.1
25.5°	384.7	385.0	385.5	385.9	386.4	385.9	385.5	385.0	384.7	385.0	385.5
26°	380.8	381.0	381.5	382.0	382.5	382.0	381.5	381.0	380.8	381.0	381.5
26.5°	376.7	377.1	377.6	378.1	378.6	378.1	377.6	377.1	376.7	377.1	377.6
27°	372.6	373.0	373.5	374.0	374.7	374.0	373.5	373.0	372.6	373.0	373.5
27.5°	368.4	368.8	369.4	369.9	370.5	369.9	369.4	368.8	368.4	368.8	369.4
28°	364.2	364.6	365.3	365.8	366.3	365.8	365.3	364.6	364.2	364.6	365.3
28.5°	359.9	360.3	360.9	361.5	362.0	361.5	360.9	360.3	359.9	360.3	360.9
29°	355.5	355.9	356.6	357.3	357.8	357.3	356.6	355.9	355.5	355.9	356.6
29.5°	351.1	351.5	352.4	352.9	353.5	352.9	352.4	351.5	351.1	351.5	352.4
30°	346.6	347.0	347.7	348.4	349.1	348.4	347.7	347.0	346.6	347.0	347.7
30.5°	342.1	342.5	343.3	344.0	344.6	344.0	343.3	342.5	342.1	342.5	343.3
31°	337.4	337.9	338.7	339.5	340.0	339.5	338.7	337.9	337.4	337.9	338.7
31.5°	332.8	333.2	334.2	334.8	335.4	334.8	334.2	333.2	332.8	333.2	334.2
32°	328.1	328.6	329.5	330.2	330.8	330.2	329.5	328.6	328.1	328.6	329.5
32.5°	323.4	323.9	324.7	325.5	326.1	325.5	324.7	323.9	323.4	323.9	324.7
33°	318.8	319.2	320.1	320.9	321.4	320.9	320.1	319.2	318.8	319.2	320.1
33.5°	314.1	314.4	315.4	316.1	316.7	316.1	315.4	314.4	314.1	314.4	315.4
34°	309.3	309.5	310.6	311.4	312.0	311.4	310.6	309.5	309.3	309.5	310.6
34.5°	304.3	304.8	305.8	306.6	307.2	306.6	305.8	304.8	304.3	304.8	305.8
35°	299.5	300.0	301.0	301.7	302.4	301.7	301.0	300.0	299.5	300.0	301.0
35.5°	294.7	295.2	296.2	297.0	297.7	297.0	296.2	295.2	294.7	295.2	296.2
36°	289.9	290.3	291.4	292.1	292.7	292.1	291.4	290.3	289.9	290.3	291.4
36.5°	285.1	285.6	286.5	287.4	288.0	287.4	286.5	285.6	285.1	285.6	286.5
37°	280.2	280.7	281.7	282.5	283.1	282.5	281.7	280.7	280.2	280.7	281.7
37.5°	275.4	276.0	276.8	277.7	278.4	277.7	276.8	276.0	275.4	276.0	276.8
38°	270.6	271.1	272.1	272.9	273.5	272.9	272.1	271.1	270.6	271.1	272.1
38.5°	265.8	266.2	267.3	268.1	268.6	268.1	267.3	266.2	265.8	266.2	267.3
39°	261.0	261.5	262.6	263.4	263.9	263.4	262.6	261.5	261.0	261.5	262.6
39.5°	256.1	256.7	257.7	258.5	259.1	258.5	257.7	256.7	256.1	256.7	257.7
40°	251.5	251.9	253.0	253.7	254.3	253.7	253.0	251.9	251.5	251.9	253.0
40.5°	246.7	247.2	248.3	249.0	249.6	249.0	248.3	247.2	246.7	247.2	248.3
41°	242.0	242.5	243.4	244.3	244.9	244.3	243.4	242.5	242.0	242.5	243.4
41.5°	237.3	237.9	238.8	239.6	240.2	239.6	238.8	237.9	237.3	237.9	238.8
42°	232.6	233.1	234.2	234.9	235.5	234.9	234.2	233.1	232.6	233.1	234.2
42.5°	228.0	228.6	229.6	230.4	230.8	230.4	229.6	228.6	228.0	228.6	229.6
43°	223.5	224.0	225.0	225.7	226.2	225.7	225.0	224.0	223.5	224.0	225.0
43.5°	219.0	219.4	220.4	221.1	221.7	221.1	220.4	219.4	219.0	219.4	220.4
44°	214.5	215.0	215.9	216.6	217.2	216.6	215.9	215.0	214.5	215.0	215.9
44.5°	210.0	210.5	211.5	212.2	212.6	212.2	211.5	210.5	210.0	210.5	211.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	205.6	206.1	207.1	207.7	208.3	207.7	207.1	206.1	205.6	206.1	207.1
45.5°	201.3	201.7	202.6	203.3	203.8	203.3	202.6	201.7	201.3	201.7	202.6
46°	197.0	197.4	198.3	199.0	199.6	199.0	198.3	197.4	197.0	197.4	198.3
46.5°	192.6	193.1	194.1	194.8	195.2	194.8	194.1	193.1	192.6	193.1	194.1
47°	188.5	188.8	189.7	190.4	190.9	190.4	189.7	188.8	188.5	188.8	189.7
47.5°	184.3	184.7	185.6	186.3	186.8	186.3	185.6	184.7	184.3	184.7	185.6
48°	180.2	180.6	181.5	182.1	182.5	182.1	181.5	180.6	180.2	180.6	181.5
48.5°	176.1	176.5	177.3	178.0	178.5	178.0	177.3	176.5	176.1	176.5	177.3
49°	172.1	172.5	173.4	174.0	174.4	174.0	173.4	172.5	172.1	172.5	173.4
49.5°	168.1	168.6	169.4	170.0	170.5	170.0	169.4	168.6	168.1	168.6	169.4
50°	164.2	164.6	165.5	166.1	166.5	166.1	165.5	164.6	164.2	164.6	165.5
50.5°	160.3	160.8	161.6	162.1	162.6	162.1	161.6	160.8	160.3	160.8	161.6
51°	156.6	156.9	157.7	158.4	158.8	158.4	157.7	156.9	156.6	156.9	157.7
51.5°	152.8	153.2	154.0	154.5	155.0	154.5	154.0	153.2	152.8	153.2	154.0
52°	149.1	149.5	150.2	150.9	151.4	150.9	150.2	149.5	149.1	149.5	150.2
52.5°	145.5	145.9	146.5	147.2	147.6	147.2	146.5	145.9	145.5	145.9	146.5
53°	141.8	142.3	142.9	143.5	143.9	143.5	142.9	142.3	141.8	142.3	142.9
53.5°	138.4	138.8	139.3	139.9	140.4	139.9	139.3	138.8	138.4	138.8	139.3
54°	134.9	135.2	135.8	136.3	136.8	136.3	135.8	135.2	134.9	135.2	135.8
54.5°	131.5	131.8	132.4	133.0	133.4	133.0	132.4	131.8	131.5	131.8	132.4
55°	128.2	128.5	129.0	129.5	129.9	129.5	129.0	128.5	128.2	128.5	129.0
55.5°	124.9	125.1	125.7	126.1	126.5	126.1	125.7	125.1	124.9	125.1	125.7
56°	121.5	121.8	122.3	122.9	123.3	122.9	122.3	121.8	121.5	121.8	122.3
56.5°	118.4	118.5	119.0	119.6	120.0	119.6	119.0	118.5	118.4	118.5	119.0
57°	115.2	115.4	115.9	116.3	116.7	116.3	115.9	115.4	115.2	115.4	115.9
57.5°	112.1	112.2	112.7	113.2	113.5	113.2	112.7	112.2	112.1	112.2	112.7
58°	109.0	109.1	109.6	110.1	110.5	110.1	109.6	109.1	109.0	109.1	109.6
58.5°	106.0	106.1	106.5	107.0	107.4	107.0	106.5	106.1	106.0	106.1	106.5
59°	103.0	103.1	103.5	104.0	104.3	104.0	103.5	103.1	103.0	103.1	103.5
59.5°	100.1	100.2	100.6	101.0	101.3	101.0	100.6	100.2	100.1	100.2	100.6
60°	97.2	97.3	97.7	98.0	98.4	98.0	97.7	97.3	97.2	97.3	97.7
60.5°	94.4	94.5	94.8	95.3	95.5	95.3	94.8	94.5	94.4	94.5	94.8
61°	91.6	91.6	92.0	92.4	92.7	92.4	92.0	91.6	91.6	91.6	92.0
61.5°	88.8	88.9	89.3	89.7	89.9	89.7	89.3	88.9	88.8	88.9	89.3
62°	86.1	86.2	86.6	86.9	87.2	86.9	86.6	86.2	86.1	86.2	86.6
62.5°	83.4	83.5	83.9	84.2	84.4	84.2	83.9	83.5	83.4	83.5	83.9
63°	80.8	80.9	81.2	81.5	81.8	81.5	81.2	80.9	80.8	80.9	81.2
63.5°	78.2	78.4	78.7	78.9	79.2	78.9	78.7	78.4	78.2	78.4	78.7
64°	75.7	75.8	76.1	76.4	76.6	76.4	76.1	75.8	75.7	75.8	76.1
64.5°	73.2	73.3	73.6	73.8	74.1	73.8	73.6	73.3	73.2	73.3	73.6
65°	70.8	70.9	71.1	71.4	71.7	71.4	71.1	70.9	70.8	70.9	71.1
65.5°	68.4	68.5	68.7	69.0	69.3	69.0	68.7	68.5	68.4	68.5	68.7
66°	66.0	66.1	66.4	66.6	66.9	66.6	66.4	66.1	66.0	66.1	66.4
66.5°	63.6	63.8	64.0	64.3	64.6	64.3	64.0	63.8	63.6	63.8	64.0
67°	61.3	61.5	61.8	62.0	62.3	62.0	61.8	61.5	61.3	61.5	61.8

TEST NUMBER: P895712
 CATALOG NUMBER: RAWZC409-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	59.1	59.2	59.5	59.7	59.9	59.7	59.5	59.2	59.1	59.2	59.5
68°	56.9	57.1	57.3	57.4	57.7	57.4	57.3	57.1	56.9	57.1	57.3
68.5°	54.7	54.8	55.1	55.3	55.5	55.3	55.1	54.8	54.7	54.8	55.1
69°	52.5	52.7	53.0	53.1	53.4	53.1	53.0	52.7	52.5	52.7	53.0
69.5°	50.4	50.6	50.9	51.1	51.3	51.1	50.9	50.6	50.4	50.6	50.9
70°	48.4	48.6	48.9	49.1	49.3	49.1	48.9	48.6	48.4	48.6	48.9
70.5°	46.4	46.6	46.9	47.1	47.2	47.1	46.9	46.6	46.4	46.6	46.9
71°	44.5	44.6	44.9	45.0	45.3	45.0	44.9	44.6	44.5	44.6	44.9
71.5°	42.5	42.7	43.0	43.2	43.5	43.2	43.0	42.7	42.5	42.7	43.0
72°	40.7	40.9	41.2	41.4	41.7	41.4	41.2	40.9	40.7	40.9	41.2
72.5°	38.9	39.1	39.4	39.5	39.8	39.5	39.4	39.1	38.9	39.1	39.4
73°	37.1	37.3	37.6	37.8	38.0	37.8	37.6	37.3	37.1	37.3	37.6
73.5°	35.5	35.6	35.8	36.1	36.3	36.1	35.8	35.6	35.5	35.6	35.8
74°	33.8	33.9	34.2	34.4	34.6	34.4	34.2	33.9	33.8	33.9	34.2
74.5°	32.1	32.2	32.4	32.7	33.0	32.7	32.4	32.2	32.1	32.2	32.4
75°	30.5	30.6	30.9	31.2	31.5	31.2	30.9	30.6	30.5	30.6	30.9
75.5°	29.0	29.1	29.3	29.6	29.9	29.6	29.3	29.1	29.0	29.1	29.3
76°	27.4	27.5	27.9	28.2	28.5	28.2	27.9	27.5	27.4	27.5	27.9
76.5°	26.0	26.1	26.5	26.7	27.0	26.7	26.5	26.1	26.0	26.1	26.5
77°	24.5	24.6	25.0	25.4	25.7	25.4	25.0	24.6	24.5	24.6	25.0
77.5°	23.2	23.3	23.8	24.2	24.4	24.2	23.8	23.3	23.2	23.3	23.8
78°	21.8	21.9	22.4	22.9	23.1	22.9	22.4	21.9	21.8	21.9	22.4
78.5°	20.5	20.7	21.2	21.6	21.8	21.6	21.2	20.7	20.5	20.7	21.2
79°	19.3	19.5	19.9	20.3	20.5	20.3	19.9	19.5	19.3	19.5	19.9
79.5°	18.2	18.4	18.7	19.0	19.2	19.0	18.7	18.4	18.2	18.4	18.7
80°	17.0	17.2	17.5	17.8	17.9	17.8	17.5	17.2	17.0	17.2	17.5
80.5°	16.0	16.2	16.4	16.6	16.7	16.6	16.4	16.2	16.0	16.2	16.4
81°	15.0	15.1	15.2	15.4	15.5	15.4	15.2	15.1	15.0	15.1	15.2
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°	13.0	12.9	13.0	13.1	13.2	13.1	13.0	12.9	13.0	12.9	13.0
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°	10.9	10.9	10.9	11.0	11.1	11.0	10.9	10.9	10.9	10.9	10.9
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°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
84.5°	7.9	7.9	7.9	8.0	8.0	8.0	7.9	7.9	7.9	7.9	7.9
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°	5.9	6.0	6.0	6.1	6.2	6.1	6.0	6.0	5.9	6.0	6.0
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	3.5	3.7	4.0	3.7	3.5	3.3	3.2	3.3	3.5
87.5°	2.3	2.6	2.8	3.2	3.5	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°	1.2	1.3	1.7	2.2	2.5	2.2	1.7	1.3	1.2	1.3	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: P895712
CATALOG NUMBER: RAWZC409-4000K

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: P895712
 CATALOG NUMBER: RAWZC409-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	477.7	477.7	477.7	477.7	477.7	477.7
0.5°	477.6	478.0	477.6	477.5	477.6	477.7
1°	477.5	477.7	477.5	477.5	477.5	477.6
1.5°	477.4	477.7	477.4	477.3	477.4	477.4
2°	477.2	477.4	477.2	477.1	477.2	477.2
2.5°	476.8	477.1	476.8	476.7	476.9	476.9
3°	476.5	476.8	476.5	476.4	476.5	476.5
3.5°	475.9	476.2	475.9	475.9	476.0	476.0
4°	475.4	475.8	475.4	475.4	475.4	475.5
4.5°	474.8	475.1	474.8	474.8	474.9	474.9
5°	474.1	474.5	474.1	474.1	474.2	474.2
5.5°	473.4	473.7	473.4	473.4	473.4	473.6
6°	472.6	472.9	472.6	472.5	472.6	472.7
6.5°	471.7	472.1	471.7	471.8	471.8	471.9
7°	470.7	471.1	470.7	470.8	470.9	470.9
7.5°	469.8	470.0	469.8	469.8	469.8	469.9
8°	468.7	469.0	468.7	468.6	468.8	468.9
8.5°	467.5	467.8	467.5	467.4	467.5	467.6
9°	466.2	466.6	466.2	466.3	466.3	466.4
9.5°	464.9	465.2	464.9	464.9	465.0	465.1
10°	463.6	463.8	463.6	463.5	463.6	463.7
10.5°	462.1	462.3	462.1	462.1	462.2	462.2
11°	460.5	460.8	460.5	460.6	460.7	460.8
11.5°	459.0	459.3	459.0	459.1	459.2	459.2
12°	457.2	457.4	457.2	457.3	457.5	457.5
12.5°	455.6	455.8	455.6	455.6	455.8	455.8
13°	453.8	454.0	453.8	453.9	454.1	454.2
13.5°	452.0	452.1	452.0	452.0	452.1	452.2
14°	450.0	450.2	450.0	450.1	450.3	450.4
14.5°	448.1	448.3	448.1	448.2	448.3	448.4
15°	446.1	446.3	446.1	446.2	446.3	446.4
15.5°	444.0	444.3	444.0	444.1	444.2	444.3
16°	441.8	442.1	441.8	441.8	442.0	442.2
16.5°	439.6	439.9	439.6	439.7	439.8	439.9
17°	437.4	437.6	437.4	437.4	437.6	437.4
17.5°	435.1	435.4	435.1	435.0	435.2	435.3
18°	432.6	433.0	432.6	432.6	432.8	432.8
18.5°	430.2	430.5	430.2	430.2	430.1	430.3
19°	427.6	428.0	427.6	427.5	427.6	427.6
19.5°	425.0	425.4	425.0	424.9	424.7	424.9
20°	422.3	422.7	422.3	422.1	422.1	422.1
20.5°	419.4	419.9	419.4	419.3	419.1	419.1
21°	416.4	416.8	416.4	416.3	416.2	416.1
21.5°	413.5	413.9	413.5	413.3	413.2	413.0
22°	410.4	410.8	410.4	410.2	409.9	409.9

TEST NUMBER: P895712
 CATALOG NUMBER: RAWZC409-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	407.2	407.6	407.2	406.9	406.6	406.4
23°	403.7	404.2	403.7	403.6	403.3	403.2
23.5°	400.5	400.9	400.5	400.1	399.9	399.6
24°	396.9	397.4	396.9	396.6	396.2	396.0
24.5°	393.4	393.8	393.4	393.0	392.6	392.4
25°	389.6	390.1	389.6	389.1	388.7	388.5
25.5°	385.9	386.4	385.9	385.5	385.0	384.7
26°	382.0	382.5	382.0	381.5	381.0	380.8
26.5°	378.1	378.6	378.1	377.6	377.1	376.7
27°	374.0	374.7	374.0	373.5	373.0	372.6
27.5°	369.9	370.5	369.9	369.4	368.8	368.4
28°	365.8	366.3	365.8	365.3	364.6	364.2
28.5°	361.5	362.0	361.5	360.9	360.3	359.9
29°	357.3	357.8	357.3	356.6	355.9	355.5
29.5°	352.9	353.5	352.9	352.4	351.5	351.1
30°	348.4	349.1	348.4	347.7	347.0	346.6
30.5°	344.0	344.6	344.0	343.3	342.5	342.1
31°	339.5	340.0	339.5	338.7	337.9	337.4
31.5°	334.8	335.4	334.8	334.2	333.2	332.8
32°	330.2	330.8	330.2	329.5	328.6	328.1
32.5°	325.5	326.1	325.5	324.7	323.9	323.4
33°	320.9	321.4	320.9	320.1	319.2	318.8
33.5°	316.1	316.7	316.1	315.4	314.4	314.1
34°	311.4	312.0	311.4	310.6	309.5	309.3
34.5°	306.6	307.2	306.6	305.8	304.8	304.3
35°	301.7	302.4	301.7	301.0	300.0	299.5
35.5°	297.0	297.7	297.0	296.2	295.2	294.7
36°	292.1	292.7	292.1	291.4	290.3	289.9
36.5°	287.4	288.0	287.4	286.5	285.6	285.1
37°	282.5	283.1	282.5	281.7	280.7	280.2
37.5°	277.7	278.4	277.7	276.8	276.0	275.4
38°	272.9	273.5	272.9	272.1	271.1	270.6
38.5°	268.1	268.6	268.1	267.3	266.2	265.8
39°	263.4	263.9	263.4	262.6	261.5	261.0
39.5°	258.5	259.1	258.5	257.7	256.7	256.1
40°	253.7	254.3	253.7	253.0	251.9	251.5
40.5°	249.0	249.6	249.0	248.3	247.2	246.7
41°	244.3	244.9	244.3	243.4	242.5	242.0
41.5°	239.6	240.2	239.6	238.8	237.9	237.3
42°	234.9	235.5	234.9	234.2	233.1	232.6
42.5°	230.4	230.8	230.4	229.6	228.6	228.0
43°	225.7	226.2	225.7	225.0	224.0	223.5
43.5°	221.1	221.7	221.1	220.4	219.4	219.0
44°	216.6	217.2	216.6	215.9	215.0	214.5
44.5°	212.2	212.6	212.2	211.5	210.5	210.0

TEST NUMBER: P895712
 CATALOG NUMBER: RAWZC409-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	207.7	208.3	207.7	207.1	206.1	205.6
45.5°	203.3	203.8	203.3	202.6	201.7	201.3
46°	199.0	199.6	199.0	198.3	197.4	197.0
46.5°	194.8	195.2	194.8	194.1	193.1	192.6
47°	190.4	190.9	190.4	189.7	188.8	188.5
47.5°	186.3	186.8	186.3	185.6	184.7	184.3
48°	182.1	182.5	182.1	181.5	180.6	180.2
48.5°	178.0	178.5	178.0	177.3	176.5	176.1
49°	174.0	174.4	174.0	173.4	172.5	172.1
49.5°	170.0	170.5	170.0	169.4	168.6	168.1
50°	166.1	166.5	166.1	165.5	164.6	164.2
50.5°	162.1	162.6	162.1	161.6	160.8	160.3
51°	158.4	158.8	158.4	157.7	156.9	156.6
51.5°	154.5	155.0	154.5	154.0	153.2	152.8
52°	150.9	151.4	150.9	150.2	149.5	149.1
52.5°	147.2	147.6	147.2	146.5	145.9	145.5
53°	143.5	143.9	143.5	142.9	142.3	141.8
53.5°	139.9	140.4	139.9	139.3	138.8	138.4
54°	136.3	136.8	136.3	135.8	135.2	134.9
54.5°	133.0	133.4	133.0	132.4	131.8	131.5
55°	129.5	129.9	129.5	129.0	128.5	128.2
55.5°	126.1	126.5	126.1	125.7	125.1	124.9
56°	122.9	123.3	122.9	122.3	121.8	121.5
56.5°	119.6	120.0	119.6	119.0	118.5	118.4
57°	116.3	116.7	116.3	115.9	115.4	115.2
57.5°	113.2	113.5	113.2	112.7	112.2	112.1
58°	110.1	110.5	110.1	109.6	109.1	109.0
58.5°	107.0	107.4	107.0	106.5	106.1	106.0
59°	104.0	104.3	104.0	103.5	103.1	103.0
59.5°	101.0	101.3	101.0	100.6	100.2	100.1
60°	98.0	98.4	98.0	97.7	97.3	97.2
60.5°	95.3	95.5	95.3	94.8	94.5	94.4
61°	92.4	92.7	92.4	92.0	91.6	91.6
61.5°	89.7	89.9	89.7	89.3	88.9	88.8
62°	86.9	87.2	86.9	86.6	86.2	86.1
62.5°	84.2	84.4	84.2	83.9	83.5	83.4
63°	81.5	81.8	81.5	81.2	80.9	80.8
63.5°	78.9	79.2	78.9	78.7	78.4	78.2
64°	76.4	76.6	76.4	76.1	75.8	75.7
64.5°	73.8	74.1	73.8	73.6	73.3	73.2
65°	71.4	71.7	71.4	71.1	70.9	70.8
65.5°	69.0	69.3	69.0	68.7	68.5	68.4
66°	66.6	66.9	66.6	66.4	66.1	66.0
66.5°	64.3	64.6	64.3	64.0	63.8	63.6
67°	62.0	62.3	62.0	61.8	61.5	61.3

TEST NUMBER: P895712
 CATALOG NUMBER: RAWZC409-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	59.7	59.9	59.7	59.5	59.2	59.1
68°	57.4	57.7	57.4	57.3	57.1	56.9
68.5°	55.3	55.5	55.3	55.1	54.8	54.7
69°	53.1	53.4	53.1	53.0	52.7	52.5
69.5°	51.1	51.3	51.1	50.9	50.6	50.4
70°	49.1	49.3	49.1	48.9	48.6	48.4
70.5°	47.1	47.2	47.1	46.9	46.6	46.4
71°	45.0	45.3	45.0	44.9	44.6	44.5
71.5°	43.2	43.5	43.2	43.0	42.7	42.5
72°	41.4	41.7	41.4	41.2	40.9	40.7
72.5°	39.5	39.8	39.5	39.4	39.1	38.9
73°	37.8	38.0	37.8	37.6	37.3	37.1
73.5°	36.1	36.3	36.1	35.8	35.6	35.5
74°	34.4	34.6	34.4	34.2	33.9	33.8
74.5°	32.7	33.0	32.7	32.4	32.2	32.1
75°	31.2	31.5	31.2	30.9	30.6	30.5
75.5°	29.6	29.9	29.6	29.3	29.1	29.0
76°	28.2	28.5	28.2	27.9	27.5	27.4
76.5°	26.7	27.0	26.7	26.5	26.1	26.0
77°	25.4	25.7	25.4	25.0	24.6	24.5
77.5°	24.2	24.4	24.2	23.8	23.3	23.2
78°	22.9	23.1	22.9	22.4	21.9	21.8
78.5°	21.6	21.8	21.6	21.2	20.7	20.5
79°	20.3	20.5	20.3	19.9	19.5	19.3
79.5°	19.0	19.2	19.0	18.7	18.4	18.2
80°	17.8	17.9	17.8	17.5	17.2	17.0
80.5°	16.6	16.7	16.6	16.4	16.2	16.0
81°	15.4	15.5	15.4	15.2	15.1	15.0
81.5°	14.1	14.3	14.1	14.0	14.0	14.0
82°	13.1	13.2	13.1	13.0	12.9	13.0
82.5°	12.0	12.1	12.0	11.9	11.9	11.9
83°	11.0	11.1	11.0	10.9	10.9	10.9
83.5°	9.9	10.0	9.9	9.9	9.9	9.9
84°	8.9	8.9	8.9	8.9	8.9	8.9
84.5°	8.0	8.0	8.0	7.9	7.9	7.9
85°	7.0	7.0	7.0	6.9	6.9	6.8
85.5°	6.1	6.2	6.1	6.0	6.0	5.9
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°	3.7	4.0	3.7	3.5	3.3	3.2
87.5°	3.2	3.5	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	1.3	1.2
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: P895712
CATALOG NUMBER: RAWZC409-4000K

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)