

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: P895709

Luminaire Tested: **RAWZC409-2700K**

Issue Date: 11/14/2024

Tested By:

Approved By:



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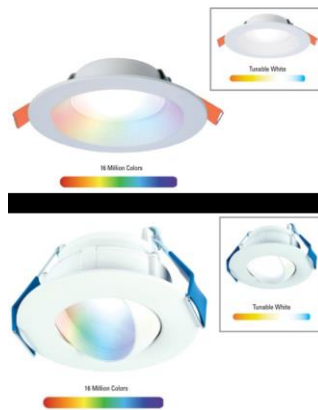
Test Information

Test Method: LM-79-08
 Report Number: P895709
 Test Lab:
 Issue Date: 11/14/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: RAWZC409-2700K
 Description: 4IN ADJUSTABLE WiZ SELECTABLE CCT
 Light Source: WiZ SELECTABLE 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 915.0 lumens
 Efficiency: N/A
 Efficacy: 88.0 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

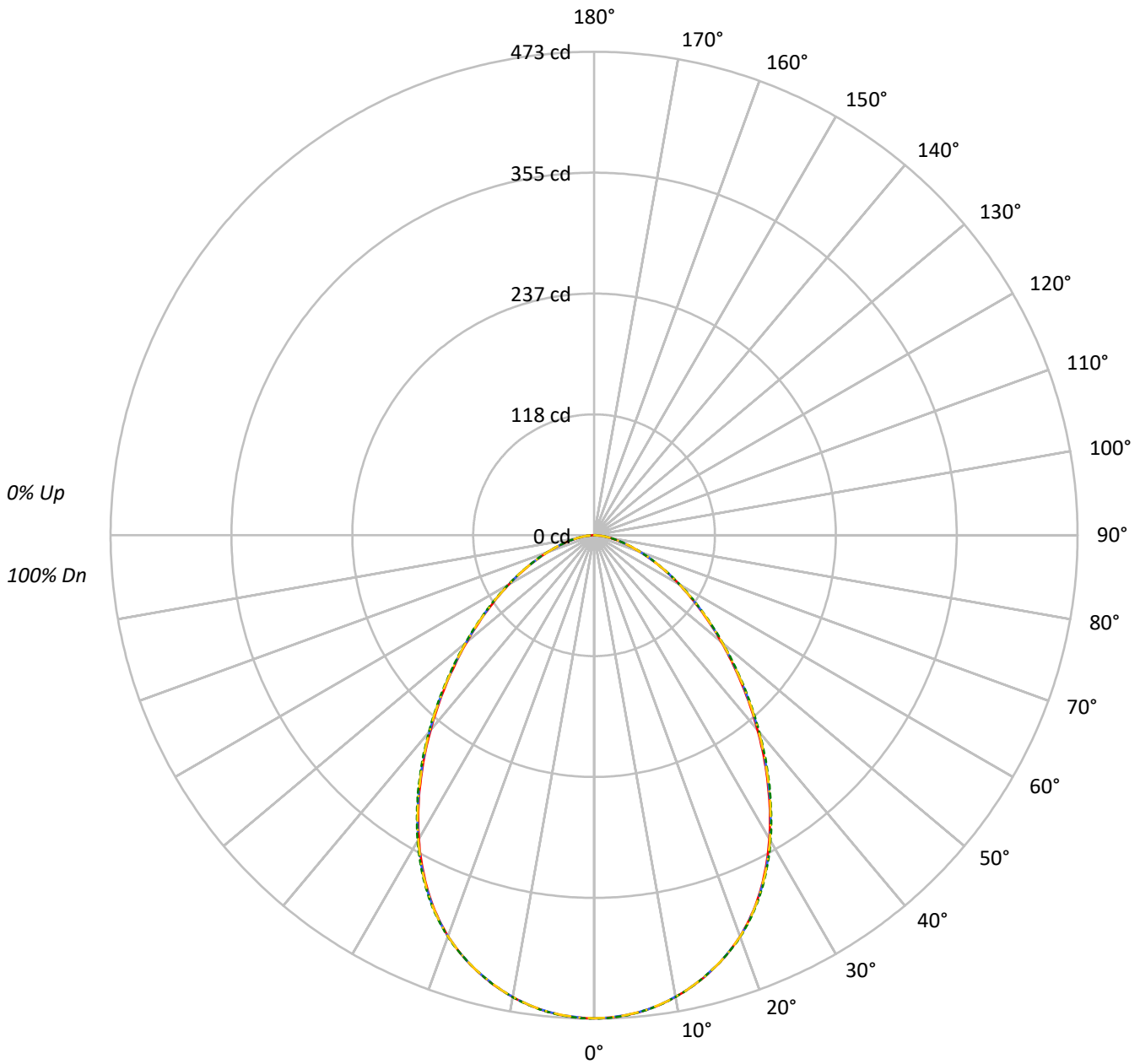
Input Watts (W): 10.4
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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	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°	59477	59477	59477	59477
5°	59262	59287	59262	59287
10°	58618	58631	58618	58631
15°	57523	57510	57523	57510
20°	55928	55995	55928	55995
25°	53364	53586	53364	53586
30°	49815	50179	49815	50179
35°	45522	45967	45522	45967
40°	40874	41334	40874	41334
45°	36201	36681	36201	36681
50°	31815	32246	31815	32246
55°	27821	28194	27821	28194
60°	24188	24516	24188	24516
65°	20875	21113	20875	21113
70°	17625	17920	17625	17920
75°	14685	15122	14685	15122
80°	12176	12828	12176	12828
85°	9819	9963	9819	9963

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	4.9
10°-20°	124.2	13.6
20°-30°	176.5	19.3
30°-40°	185.7	20.3
40°-50°	158.1	17.3
50°-60°	114.6	12.5
60°-70°	70.2	7.7
70°-80°	33.0	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°	345.1	37.7
0°-40°	530.8	58.0
0°-60°	803.5	87.8
0°-90°	915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	915.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	473	473	473	473	473	
5°	469	469	469	469	469	44
15°	442	441	442	441	442	124
25°	384	386	384	386	384	176
35°	296	299	296	299	296	185
45°	203	206	203	206	203	157
55°	127	128	127	128	127	114
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6
0.5°	472.6	472.5	472.4	472.5	472.9	472.5	472.4	472.5	472.6	472.5	472.4
1°	472.5	472.4	472.4	472.4	472.6	472.4	472.4	472.4	472.5	472.4	472.4
1.5°	472.3	472.3	472.1	472.2	472.6	472.2	472.1	472.3	472.3	472.3	472.1
2°	472.0	472.0	471.9	472.0	472.3	472.0	471.9	472.0	472.0	472.0	471.9
2.5°	471.7	471.7	471.5	471.6	471.9	471.6	471.5	471.7	471.7	471.7	471.5
3°	471.3	471.3	471.2	471.3	471.6	471.3	471.2	471.3	471.3	471.3	471.2
3.5°	470.9	470.9	470.8	470.8	471.0	470.8	470.8	470.9	470.9	470.9	470.8
4°	470.4	470.3	470.3	470.3	470.7	470.3	470.3	470.3	470.4	470.3	470.3
4.5°	469.8	469.7	469.6	469.6	470.0	469.6	469.6	469.7	469.8	469.7	469.6
5°	469.1	469.1	469.0	469.0	469.3	469.0	469.0	469.1	469.1	469.1	469.0
5.5°	468.5	468.3	468.3	468.3	468.6	468.3	468.3	468.3	468.5	468.3	468.3
6°	467.6	467.5	467.4	467.5	467.8	467.5	467.4	467.5	467.6	467.5	467.4
6.5°	466.8	466.7	466.7	466.6	467.0	466.6	466.7	466.7	466.8	466.7	466.7
7°	465.8	465.8	465.7	465.6	466.0	465.6	465.7	465.8	465.8	465.8	465.7
7.5°	464.9	464.8	464.7	464.7	465.0	464.7	464.7	464.8	464.9	464.8	464.7
8°	463.8	463.7	463.5	463.6	463.9	463.6	463.5	463.7	463.8	463.7	463.5
8.5°	462.6	462.5	462.4	462.5	462.8	462.5	462.4	462.5	462.6	462.5	462.4
9°	461.3	461.2	461.2	461.2	461.5	461.2	461.2	461.2	461.3	461.2	461.2
9.5°	460.1	460.0	459.9	459.9	460.2	459.9	459.9	460.0	460.1	460.0	459.9
10°	458.7	458.6	458.5	458.6	458.8	458.6	458.5	458.6	458.7	458.6	458.5
10.5°	457.2	457.2	457.2	457.1	457.3	457.1	457.2	457.2	457.2	457.2	457.2
11°	455.8	455.7	455.6	455.5	455.8	455.5	455.6	455.7	455.8	455.7	455.6
11.5°	454.2	454.2	454.1	454.0	454.3	454.0	454.1	454.2	454.2	454.2	454.1
12°	452.6	452.6	452.4	452.3	452.5	452.3	452.4	452.6	452.6	452.6	452.4
12.5°	450.9	450.9	450.7	450.7	450.9	450.7	450.7	450.9	450.9	450.9	450.7
13°	449.3	449.2	449.0	448.9	449.1	448.9	449.0	449.2	449.3	449.2	449.0
13.5°	447.3	447.3	447.2	447.1	447.3	447.1	447.2	447.3	447.3	447.3	447.2
14°	445.5	445.4	445.3	445.2	445.4	445.2	445.3	445.4	445.5	445.4	445.3
14.5°	443.5	443.4	443.4	443.3	443.4	443.3	443.4	443.4	443.5	443.4	443.4
15°	441.5	441.4	441.4	441.3	441.4	441.3	441.4	441.4	441.5	441.4	441.4
15.5°	439.4	439.4	439.3	439.2	439.4	439.2	439.3	439.4	439.4	439.4	439.3
16°	437.5	437.3	437.1	437.1	437.4	437.1	437.1	437.3	437.5	437.3	437.1
16.5°	435.2	435.1	435.0	434.9	435.2	434.9	435.0	435.1	435.2	435.1	435.0
17°	432.7	432.9	432.7	432.7	432.9	432.7	432.7	432.9	432.7	432.9	432.7
17.5°	430.6	430.5	430.3	430.4	430.7	430.4	430.3	430.5	430.6	430.5	430.3
18°	428.1	428.1	427.9	427.9	428.3	427.9	427.9	428.1	428.1	428.1	427.9
18.5°	425.6	425.5	425.6	425.6	425.8	425.6	425.6	425.5	425.6	425.5	425.6
19°	423.0	423.0	422.9	423.0	423.4	423.0	422.9	423.0	423.0	423.0	422.9
19.5°	420.3	420.1	420.3	420.4	420.8	420.4	420.3	420.1	420.3	420.1	420.3
20°	417.6	417.6	417.6	417.7	418.1	417.7	417.6	417.6	417.6	417.6	417.6
20.5°	414.6	414.6	414.8	414.9	415.4	414.9	414.8	414.6	414.6	414.6	414.8
21°	411.6	411.7	411.8	411.9	412.3	411.9	411.8	411.7	411.6	411.7	411.8
21.5°	408.5	408.7	408.8	409.0	409.5	409.0	408.8	408.7	408.5	408.7	408.8
22°	405.5	405.5	405.8	405.9	406.3	405.9	405.8	405.5	405.5	405.5	405.8

TEST NUMBER: P895709
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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°	402.0	402.2	402.5	402.8	403.2	402.8	402.5	402.2	402.0	402.2	402.5
23°	398.8	398.9	399.2	399.4	399.9	399.4	399.2	398.9	398.8	398.9	399.2
23.5°	395.3	395.6	395.8	396.1	396.5	396.1	395.8	395.6	395.3	395.6	395.8
24°	391.8	392.0	392.3	392.6	393.1	392.6	392.3	392.0	391.8	392.0	392.3
24.5°	388.1	388.3	388.7	389.1	389.6	389.1	388.7	388.3	388.1	388.3	388.7
25°	384.3	384.5	384.9	385.4	385.9	385.4	384.9	384.5	384.3	384.5	384.9
25.5°	380.5	380.8	381.3	381.8	382.2	381.8	381.3	380.8	380.5	380.8	381.3
26°	376.7	376.9	377.4	377.9	378.3	377.9	377.4	376.9	376.7	376.9	377.4
26.5°	372.6	373.0	373.5	374.0	374.5	374.0	373.5	373.0	372.6	373.0	373.5
27°	368.5	368.9	369.5	370.0	370.6	370.0	369.5	368.9	368.5	368.9	369.5
27.5°	364.4	364.8	365.4	365.9	366.4	365.9	365.4	364.8	364.4	364.8	365.4
28°	360.3	360.6	361.3	361.9	362.4	361.9	361.3	360.6	360.3	360.6	361.3
28.5°	356.0	356.4	357.0	357.6	358.1	357.6	357.0	356.4	356.0	356.4	357.0
29°	351.7	352.1	352.7	353.4	354.0	353.4	352.7	352.1	351.7	352.1	352.7
29.5°	347.3	347.7	348.6	349.1	349.7	349.1	348.6	347.7	347.3	347.7	348.6
30°	342.8	343.2	344.0	344.6	345.3	344.6	344.0	343.2	342.8	343.2	344.0
30.5°	338.4	338.7	339.6	340.3	340.8	340.3	339.6	338.7	338.4	338.7	339.6
31°	333.8	334.3	335.0	335.8	336.4	335.8	335.0	334.3	333.8	334.3	335.0
31.5°	329.2	329.6	330.6	331.2	331.8	331.2	330.6	329.6	329.2	329.6	330.6
32°	324.6	325.0	325.9	326.7	327.2	326.7	325.9	325.0	324.6	325.0	325.9
32.5°	319.9	320.4	321.2	322.0	322.6	322.0	321.2	320.4	319.9	320.4	321.2
33°	315.3	315.7	316.7	317.4	317.9	317.4	316.7	315.7	315.3	315.7	316.7
33.5°	310.7	311.0	312.0	312.7	313.2	312.7	312.0	311.0	310.7	311.0	312.0
34°	305.9	306.2	307.2	308.0	308.7	308.0	307.2	306.2	305.9	306.2	307.2
34.5°	301.1	301.5	302.5	303.2	303.9	303.2	302.5	301.5	301.1	301.5	302.5
35°	296.3	296.8	297.7	298.5	299.2	298.5	297.7	296.8	296.3	296.8	297.7
35.5°	291.5	292.0	293.0	293.8	294.5	293.8	293.0	292.0	291.5	292.0	293.0
36°	286.8	287.2	288.2	289.0	289.5	289.0	288.2	287.2	286.8	287.2	288.2
36.5°	282.0	282.5	283.4	284.3	284.9	284.3	283.4	282.5	282.0	282.5	283.4
37°	277.2	277.6	278.7	279.5	280.0	279.5	278.7	277.6	277.2	277.6	278.7
37.5°	272.4	273.0	273.8	274.7	275.4	274.7	273.8	273.0	272.4	273.0	273.8
38°	267.6	268.1	269.2	269.9	270.5	269.9	269.2	268.1	267.6	268.1	269.2
38.5°	262.9	263.4	264.4	265.2	265.7	265.2	264.4	263.4	262.9	263.4	264.4
39°	258.1	258.7	259.7	260.5	261.1	260.5	259.7	258.7	258.1	258.7	259.7
39.5°	253.4	253.9	254.9	255.8	256.3	255.8	254.9	253.9	253.4	253.9	254.9
40°	248.8	249.2	250.2	251.0	251.6	251.0	250.2	249.2	248.8	249.2	250.2
40.5°	244.0	244.5	245.6	246.3	246.9	246.3	245.6	244.5	244.0	244.5	245.6
41°	239.4	239.9	240.8	241.7	242.2	241.7	240.8	239.9	239.4	239.9	240.8
41.5°	234.7	235.3	236.2	237.0	237.6	237.0	236.2	235.3	234.7	235.3	236.2
42°	230.1	230.6	231.7	232.3	232.9	232.3	231.7	230.6	230.1	230.6	231.7
42.5°	225.6	226.1	227.1	227.9	228.3	227.9	227.1	226.1	225.6	226.1	227.1
43°	221.1	221.6	222.5	223.3	223.8	223.3	222.5	221.6	221.1	221.6	222.5
43.5°	216.6	217.0	218.1	218.7	219.3	218.7	218.1	217.0	216.6	217.0	218.1
44°	212.2	212.6	213.6	214.3	214.8	214.3	213.6	212.6	212.2	212.6	213.6
44.5°	207.7	208.3	209.2	209.9	210.3	209.9	209.2	208.3	207.7	208.3	209.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	203.4	203.9	204.8	205.5	206.1	205.5	204.8	203.9	203.4	203.9	204.8
45.5°	199.1	199.5	200.5	201.1	201.6	201.1	200.5	199.5	199.1	199.5	200.5
46°	194.8	195.3	196.2	196.8	197.4	196.8	196.2	195.3	194.8	195.3	196.2
46.5°	190.6	191.0	192.0	192.6	193.1	192.6	192.0	191.0	190.6	191.0	192.0
47°	186.5	186.7	187.7	188.4	188.8	188.4	187.7	186.7	186.5	186.7	187.7
47.5°	182.3	182.7	183.6	184.3	184.7	184.3	183.6	182.7	182.3	182.7	183.6
48°	178.3	178.7	179.5	180.1	180.6	180.1	179.5	178.7	178.3	178.7	179.5
48.5°	174.2	174.6	175.4	176.1	176.6	176.1	175.4	174.6	174.2	174.6	175.4
49°	170.3	170.7	171.5	172.1	172.6	172.1	171.5	170.7	170.3	170.7	171.5
49.5°	166.3	166.8	167.6	168.2	168.7	168.2	167.6	166.8	166.3	166.8	167.6
50°	162.5	162.9	163.7	164.3	164.7	164.3	163.7	162.9	162.5	162.9	163.7
50.5°	158.6	159.0	159.8	160.4	160.9	160.4	159.8	159.0	158.6	159.0	159.8
51°	154.9	155.2	156.0	156.7	157.0	156.7	156.0	155.2	154.9	155.2	156.0
51.5°	151.1	151.5	152.3	152.9	153.3	152.9	152.3	151.5	151.1	151.5	152.3
52°	147.5	147.9	148.6	149.2	149.7	149.2	148.6	147.9	147.5	147.9	148.6
52.5°	143.9	144.3	145.0	145.6	146.0	145.6	145.0	144.3	143.9	144.3	145.0
53°	140.3	140.8	141.3	141.9	142.4	141.9	141.3	140.8	140.3	140.8	141.3
53.5°	136.9	137.3	137.8	138.4	138.9	138.4	137.8	137.3	136.9	137.3	137.8
54°	133.4	133.7	134.3	134.9	135.3	134.9	134.3	133.7	133.4	133.7	134.3
54.5°	130.1	130.4	131.0	131.5	131.9	131.5	131.0	130.4	130.1	130.4	131.0
55°	126.8	127.1	127.6	128.1	128.5	128.1	127.6	127.1	126.8	127.1	127.6
55.5°	123.5	123.7	124.3	124.8	125.2	124.8	124.3	123.7	123.5	123.7	124.3
56°	120.2	120.5	121.0	121.5	121.9	121.5	121.0	120.5	120.2	120.5	121.0
56.5°	117.1	117.3	117.7	118.3	118.7	118.3	117.7	117.3	117.1	117.3	117.7
57°	113.9	114.1	114.6	115.1	115.5	115.1	114.6	114.1	113.9	114.1	114.6
57.5°	110.9	111.0	111.5	111.9	112.3	111.9	111.5	111.0	110.9	111.0	111.5
58°	107.8	107.9	108.4	108.9	109.3	108.9	108.4	107.9	107.8	107.9	108.4
58.5°	104.9	105.0	105.4	105.8	106.2	105.8	105.4	105.0	104.9	105.0	105.4
59°	101.8	102.0	102.4	102.9	103.2	102.9	102.4	102.0	101.8	102.0	102.4
59.5°	99.0	99.1	99.6	99.9	100.2	99.9	99.6	99.1	99.0	99.1	99.6
60°	96.1	96.2	96.6	97.0	97.4	97.0	96.6	96.2	96.1	96.2	96.6
60.5°	93.4	93.5	93.8	94.2	94.4	94.2	93.8	93.5	93.4	93.5	93.8
61°	90.6	90.6	91.0	91.4	91.7	91.4	91.0	90.6	90.6	90.6	91.0
61.5°	87.9	87.9	88.3	88.7	88.9	88.7	88.3	87.9	87.9	87.9	88.3
62°	85.2	85.3	85.7	85.9	86.2	85.9	85.7	85.3	85.2	85.3	85.7
62.5°	82.5	82.6	83.0	83.3	83.5	83.3	83.0	82.6	82.5	82.6	83.0
63°	80.0	80.0	80.3	80.6	80.9	80.6	80.3	80.0	80.0	80.0	80.3
63.5°	77.4	77.6	77.9	78.0	78.3	78.0	77.9	77.6	77.4	77.6	77.9
64°	74.9	75.0	75.3	75.6	75.8	75.6	75.3	75.0	74.9	75.0	75.3
64.5°	72.4	72.5	72.8	73.0	73.3	73.0	72.8	72.5	72.4	72.5	72.8
65°	70.1	70.1	70.3	70.6	70.9	70.6	70.3	70.1	70.1	70.1	70.3
65.5°	67.7	67.8	68.0	68.2	68.5	68.2	68.0	67.8	67.7	67.8	68.0
66°	65.3	65.4	65.7	65.9	66.2	65.9	65.7	65.4	65.3	65.4	65.7
66.5°	62.9	63.1	63.3	63.6	63.9	63.6	63.3	63.1	62.9	63.1	63.3
67°	60.6	60.8	61.1	61.3	61.6	61.3	61.1	60.8	60.6	60.8	61.1

TEST NUMBER: P895709
 CATALOG NUMBER: RAWZC409-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	58.4	58.5	58.8	59.0	59.3	59.0	58.8	58.5	58.4	58.5	58.8
68°	56.3	56.4	56.6	56.8	57.1	56.8	56.6	56.4	56.3	56.4	56.6
68.5°	54.1	54.3	54.5	54.7	54.9	54.7	54.5	54.3	54.1	54.3	54.5
69°	52.0	52.2	52.4	52.5	52.8	52.5	52.4	52.2	52.0	52.2	52.4
69.5°	49.9	50.1	50.4	50.5	50.7	50.5	50.4	50.1	49.9	50.1	50.4
70°	47.9	48.1	48.4	48.5	48.7	48.5	48.4	48.1	47.9	48.1	48.4
70.5°	45.9	46.1	46.4	46.5	46.7	46.5	46.4	46.1	45.9	46.1	46.4
71°	44.0	44.2	44.4	44.5	44.8	44.5	44.4	44.2	44.0	44.2	44.4
71.5°	42.1	42.3	42.5	42.7	43.0	42.7	42.5	42.3	42.1	42.3	42.5
72°	40.3	40.5	40.7	40.9	41.2	40.9	40.7	40.5	40.3	40.5	40.7
72.5°	38.5	38.6	38.9	39.1	39.4	39.1	38.9	38.6	38.5	38.6	38.9
73°	36.7	36.9	37.2	37.4	37.6	37.4	37.2	36.9	36.7	36.9	37.2
73.5°	35.1	35.2	35.4	35.7	35.9	35.7	35.4	35.2	35.1	35.2	35.4
74°	33.4	33.5	33.8	34.0	34.3	34.0	33.8	33.5	33.4	33.5	33.8
74.5°	31.8	31.9	32.1	32.4	32.6	32.4	32.1	31.9	31.8	31.9	32.1
75°	30.2	30.3	30.6	30.8	31.1	30.8	30.6	30.3	30.2	30.3	30.6
75.5°	28.6	28.7	29.0	29.3	29.6	29.3	29.0	28.7	28.6	28.7	29.0
76°	27.1	27.2	27.6	27.9	28.2	27.9	27.6	27.2	27.1	27.2	27.6
76.5°	25.7	25.8	26.2	26.5	26.7	26.5	26.2	25.8	25.7	25.8	26.2
77°	24.3	24.4	24.7	25.1	25.4	25.1	24.7	24.4	24.3	24.4	24.7
77.5°	22.9	23.0	23.5	23.9	24.2	23.9	23.5	23.0	22.9	23.0	23.5
78°	21.6	21.7	22.2	22.7	22.8	22.7	22.2	21.7	21.6	21.7	22.2
78.5°	20.3	20.5	20.9	21.3	21.6	21.3	20.9	20.5	20.3	20.5	20.9
79°	19.1	19.3	19.7	20.1	20.3	20.1	19.7	19.3	19.1	19.3	19.7
79.5°	18.0	18.2	18.5	18.8	19.0	18.8	18.5	18.2	18.0	18.2	18.5
80°	16.8	17.0	17.3	17.6	17.7	17.6	17.3	17.0	16.8	17.0	17.3
80.5°	15.8	16.0	16.2	16.4	16.6	16.4	16.2	16.0	15.8	16.0	16.2
81°	14.8	14.9	15.0	15.2	15.3	15.2	15.0	14.9	14.8	14.9	15.0
81.5°	13.9	13.9	13.9	14.0	14.2	14.0	13.9	13.9	13.9	13.9	13.9
82°	12.8	12.8	12.8	12.9	13.0	12.9	12.8	12.8	12.8	12.8	12.8
82.5°	11.8	11.8	11.8	11.9	12.0	11.9	11.8	11.8	11.8	11.8	11.8
83°	10.8	10.8	10.8	10.9	10.9	10.9	10.8	10.8	10.8	10.8	10.8
83.5°	9.8	9.8	9.8	9.8	9.9	9.8	9.8	9.8	9.8	9.8	9.8
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	6.9	6.9	6.9	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°	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	4.2	4.3	4.5	4.3	4.2	4.0	4.0	4.0	4.2
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	2.6	2.8	3.1	3.4	3.1	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: P895709
CATALOG NUMBER: RAWZC409-2700K

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: P895709

CATALOG NUMBER: RAWZC409-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	472.6	472.6	472.6	472.6	472.6	472.6
0.5°	472.5	472.9	472.5	472.4	472.5	472.6
1°	472.4	472.6	472.4	472.4	472.4	472.5
1.5°	472.2	472.6	472.2	472.1	472.3	472.3
2°	472.0	472.3	472.0	471.9	472.0	472.0
2.5°	471.6	471.9	471.6	471.5	471.7	471.7
3°	471.3	471.6	471.3	471.2	471.3	471.3
3.5°	470.8	471.0	470.8	470.8	470.9	470.9
4°	470.3	470.7	470.3	470.3	470.3	470.4
4.5°	469.6	470.0	469.6	469.6	469.7	469.8
5°	469.0	469.3	469.0	469.0	469.1	469.1
5.5°	468.3	468.6	468.3	468.3	468.3	468.5
6°	467.5	467.8	467.5	467.4	467.5	467.6
6.5°	466.6	467.0	466.6	466.7	466.7	466.8
7°	465.6	466.0	465.6	465.7	465.8	465.8
7.5°	464.7	465.0	464.7	464.7	464.8	464.9
8°	463.6	463.9	463.6	463.5	463.7	463.8
8.5°	462.5	462.8	462.5	462.4	462.5	462.6
9°	461.2	461.5	461.2	461.2	461.2	461.3
9.5°	459.9	460.2	459.9	459.9	460.0	460.1
10°	458.6	458.8	458.6	458.5	458.6	458.7
10.5°	457.1	457.3	457.1	457.2	457.2	457.2
11°	455.5	455.8	455.5	455.6	455.7	455.8
11.5°	454.0	454.3	454.0	454.1	454.2	454.2
12°	452.3	452.5	452.3	452.4	452.6	452.6
12.5°	450.7	450.9	450.7	450.7	450.9	450.9
13°	448.9	449.1	448.9	449.0	449.2	449.3
13.5°	447.1	447.3	447.1	447.2	447.3	447.3
14°	445.2	445.4	445.2	445.3	445.4	445.5
14.5°	443.3	443.4	443.3	443.4	443.4	443.5
15°	441.3	441.4	441.3	441.4	441.4	441.5
15.5°	439.2	439.4	439.2	439.3	439.4	439.4
16°	437.1	437.4	437.1	437.1	437.3	437.5
16.5°	434.9	435.2	434.9	435.0	435.1	435.2
17°	432.7	432.9	432.7	432.7	432.9	432.7
17.5°	430.4	430.7	430.4	430.3	430.5	430.6
18°	427.9	428.3	427.9	427.9	428.1	428.1
18.5°	425.6	425.8	425.6	425.6	425.5	425.6
19°	423.0	423.4	423.0	422.9	423.0	423.0
19.5°	420.4	420.8	420.4	420.3	420.1	420.3
20°	417.7	418.1	417.7	417.6	417.6	417.6
20.5°	414.9	415.4	414.9	414.8	414.6	414.6
21°	411.9	412.3	411.9	411.8	411.7	411.6
21.5°	409.0	409.5	409.0	408.8	408.7	408.5
22°	405.9	406.3	405.9	405.8	405.5	405.5

TEST NUMBER: P895709
 CATALOG NUMBER: RAWZC409-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	402.8	403.2	402.8	402.5	402.2	402.0
23°	399.4	399.9	399.4	399.2	398.9	398.8
23.5°	396.1	396.5	396.1	395.8	395.6	395.3
24°	392.6	393.1	392.6	392.3	392.0	391.8
24.5°	389.1	389.6	389.1	388.7	388.3	388.1
25°	385.4	385.9	385.4	384.9	384.5	384.3
25.5°	381.8	382.2	381.8	381.3	380.8	380.5
26°	377.9	378.3	377.9	377.4	376.9	376.7
26.5°	374.0	374.5	374.0	373.5	373.0	372.6
27°	370.0	370.6	370.0	369.5	368.9	368.5
27.5°	365.9	366.4	365.9	365.4	364.8	364.4
28°	361.9	362.4	361.9	361.3	360.6	360.3
28.5°	357.6	358.1	357.6	357.0	356.4	356.0
29°	353.4	354.0	353.4	352.7	352.1	351.7
29.5°	349.1	349.7	349.1	348.6	347.7	347.3
30°	344.6	345.3	344.6	344.0	343.2	342.8
30.5°	340.3	340.8	340.3	339.6	338.7	338.4
31°	335.8	336.4	335.8	335.0	334.3	333.8
31.5°	331.2	331.8	331.2	330.6	329.6	329.2
32°	326.7	327.2	326.7	325.9	325.0	324.6
32.5°	322.0	322.6	322.0	321.2	320.4	319.9
33°	317.4	317.9	317.4	316.7	315.7	315.3
33.5°	312.7	313.2	312.7	312.0	311.0	310.7
34°	308.0	308.7	308.0	307.2	306.2	305.9
34.5°	303.2	303.9	303.2	302.5	301.5	301.1
35°	298.5	299.2	298.5	297.7	296.8	296.3
35.5°	293.8	294.5	293.8	293.0	292.0	291.5
36°	289.0	289.5	289.0	288.2	287.2	286.8
36.5°	284.3	284.9	284.3	283.4	282.5	282.0
37°	279.5	280.0	279.5	278.7	277.6	277.2
37.5°	274.7	275.4	274.7	273.8	273.0	272.4
38°	269.9	270.5	269.9	269.2	268.1	267.6
38.5°	265.2	265.7	265.2	264.4	263.4	262.9
39°	260.5	261.1	260.5	259.7	258.7	258.1
39.5°	255.8	256.3	255.8	254.9	253.9	253.4
40°	251.0	251.6	251.0	250.2	249.2	248.8
40.5°	246.3	246.9	246.3	245.6	244.5	244.0
41°	241.7	242.2	241.7	240.8	239.9	239.4
41.5°	237.0	237.6	237.0	236.2	235.3	234.7
42°	232.3	232.9	232.3	231.7	230.6	230.1
42.5°	227.9	228.3	227.9	227.1	226.1	225.6
43°	223.3	223.8	223.3	222.5	221.6	221.1
43.5°	218.7	219.3	218.7	218.1	217.0	216.6
44°	214.3	214.8	214.3	213.6	212.6	212.2
44.5°	209.9	210.3	209.9	209.2	208.3	207.7

TEST NUMBER: P895709
 CATALOG NUMBER: RAWZC409-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	205.5	206.1	205.5	204.8	203.9	203.4
45.5°	201.1	201.6	201.1	200.5	199.5	199.1
46°	196.8	197.4	196.8	196.2	195.3	194.8
46.5°	192.6	193.1	192.6	192.0	191.0	190.6
47°	188.4	188.8	188.4	187.7	186.7	186.5
47.5°	184.3	184.7	184.3	183.6	182.7	182.3
48°	180.1	180.6	180.1	179.5	178.7	178.3
48.5°	176.1	176.6	176.1	175.4	174.6	174.2
49°	172.1	172.6	172.1	171.5	170.7	170.3
49.5°	168.2	168.7	168.2	167.6	166.8	166.3
50°	164.3	164.7	164.3	163.7	162.9	162.5
50.5°	160.4	160.9	160.4	159.8	159.0	158.6
51°	156.7	157.0	156.7	156.0	155.2	154.9
51.5°	152.9	153.3	152.9	152.3	151.5	151.1
52°	149.2	149.7	149.2	148.6	147.9	147.5
52.5°	145.6	146.0	145.6	145.0	144.3	143.9
53°	141.9	142.4	141.9	141.3	140.8	140.3
53.5°	138.4	138.9	138.4	137.8	137.3	136.9
54°	134.9	135.3	134.9	134.3	133.7	133.4
54.5°	131.5	131.9	131.5	131.0	130.4	130.1
55°	128.1	128.5	128.1	127.6	127.1	126.8
55.5°	124.8	125.2	124.8	124.3	123.7	123.5
56°	121.5	121.9	121.5	121.0	120.5	120.2
56.5°	118.3	118.7	118.3	117.7	117.3	117.1
57°	115.1	115.5	115.1	114.6	114.1	113.9
57.5°	111.9	112.3	111.9	111.5	111.0	110.9
58°	108.9	109.3	108.9	108.4	107.9	107.8
58.5°	105.8	106.2	105.8	105.4	105.0	104.9
59°	102.9	103.2	102.9	102.4	102.0	101.8
59.5°	99.9	100.2	99.9	99.6	99.1	99.0
60°	97.0	97.4	97.0	96.6	96.2	96.1
60.5°	94.2	94.4	94.2	93.8	93.5	93.4
61°	91.4	91.7	91.4	91.0	90.6	90.6
61.5°	88.7	88.9	88.7	88.3	87.9	87.9
62°	85.9	86.2	85.9	85.7	85.3	85.2
62.5°	83.3	83.5	83.3	83.0	82.6	82.5
63°	80.6	80.9	80.6	80.3	80.0	80.0
63.5°	78.0	78.3	78.0	77.9	77.6	77.4
64°	75.6	75.8	75.6	75.3	75.0	74.9
64.5°	73.0	73.3	73.0	72.8	72.5	72.4
65°	70.6	70.9	70.6	70.3	70.1	70.1
65.5°	68.2	68.5	68.2	68.0	67.8	67.7
66°	65.9	66.2	65.9	65.7	65.4	65.3
66.5°	63.6	63.9	63.6	63.3	63.1	62.9
67°	61.3	61.6	61.3	61.1	60.8	60.6

TEST NUMBER: P895709
 CATALOG NUMBER: RAWZC409-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	59.0	59.3	59.0	58.8	58.5	58.4
68°	56.8	57.1	56.8	56.6	56.4	56.3
68.5°	54.7	54.9	54.7	54.5	54.3	54.1
69°	52.5	52.8	52.5	52.4	52.2	52.0
69.5°	50.5	50.7	50.5	50.4	50.1	49.9
70°	48.5	48.7	48.5	48.4	48.1	47.9
70.5°	46.5	46.7	46.5	46.4	46.1	45.9
71°	44.5	44.8	44.5	44.4	44.2	44.0
71.5°	42.7	43.0	42.7	42.5	42.3	42.1
72°	40.9	41.2	40.9	40.7	40.5	40.3
72.5°	39.1	39.4	39.1	38.9	38.6	38.5
73°	37.4	37.6	37.4	37.2	36.9	36.7
73.5°	35.7	35.9	35.7	35.4	35.2	35.1
74°	34.0	34.3	34.0	33.8	33.5	33.4
74.5°	32.4	32.6	32.4	32.1	31.9	31.8
75°	30.8	31.1	30.8	30.6	30.3	30.2
75.5°	29.3	29.6	29.3	29.0	28.7	28.6
76°	27.9	28.2	27.9	27.6	27.2	27.1
76.5°	26.5	26.7	26.5	26.2	25.8	25.7
77°	25.1	25.4	25.1	24.7	24.4	24.3
77.5°	23.9	24.2	23.9	23.5	23.0	22.9
78°	22.7	22.8	22.7	22.2	21.7	21.6
78.5°	21.3	21.6	21.3	20.9	20.5	20.3
79°	20.1	20.3	20.1	19.7	19.3	19.1
79.5°	18.8	19.0	18.8	18.5	18.2	18.0
80°	17.6	17.7	17.6	17.3	17.0	16.8
80.5°	16.4	16.6	16.4	16.2	16.0	15.8
81°	15.2	15.3	15.2	15.0	14.9	14.8
81.5°	14.0	14.2	14.0	13.9	13.9	13.9
82°	12.9	13.0	12.9	12.8	12.8	12.8
82.5°	11.9	12.0	11.9	11.8	11.8	11.8
83°	10.9	10.9	10.9	10.8	10.8	10.8
83.5°	9.8	9.9	9.8	9.8	9.8	9.8
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°	6.9	6.9	6.9	6.9	6.9	6.8
85.5°	6.0	6.1	6.0	5.9	5.9	5.8
86°	5.0	5.1	5.0	4.9	4.9	4.9
86.5°	4.3	4.5	4.3	4.2	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	2.8	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: P895709
CATALOG NUMBER: RAWZC409-2700K

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)