

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: P895719

Luminaire Tested: **RAWZC610-5000K**

Issue Date: 11/14/2024

Tested By:

Approved By:



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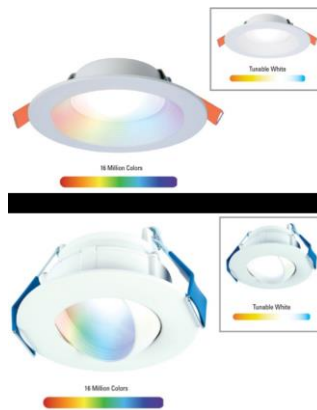
**Test Information**

Test Method: LM-79-08  
 Report Number: P895719  
 Test Lab:  
 Issue Date: 11/14/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: RAWZC610-5000K  
 Description: 6IN ADJUSTABLE WiZ SELECTABLE CCT  
 Light Source: WiZ SELECTABLE 90CRI / 5000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 1065.0 lumens  
 Efficiency: N/A  
 Efficacy: 105.4 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.2  
 Luminous Opening: Circular (Dia: 0.5' x H: 0')  
 CIE Type: Direct

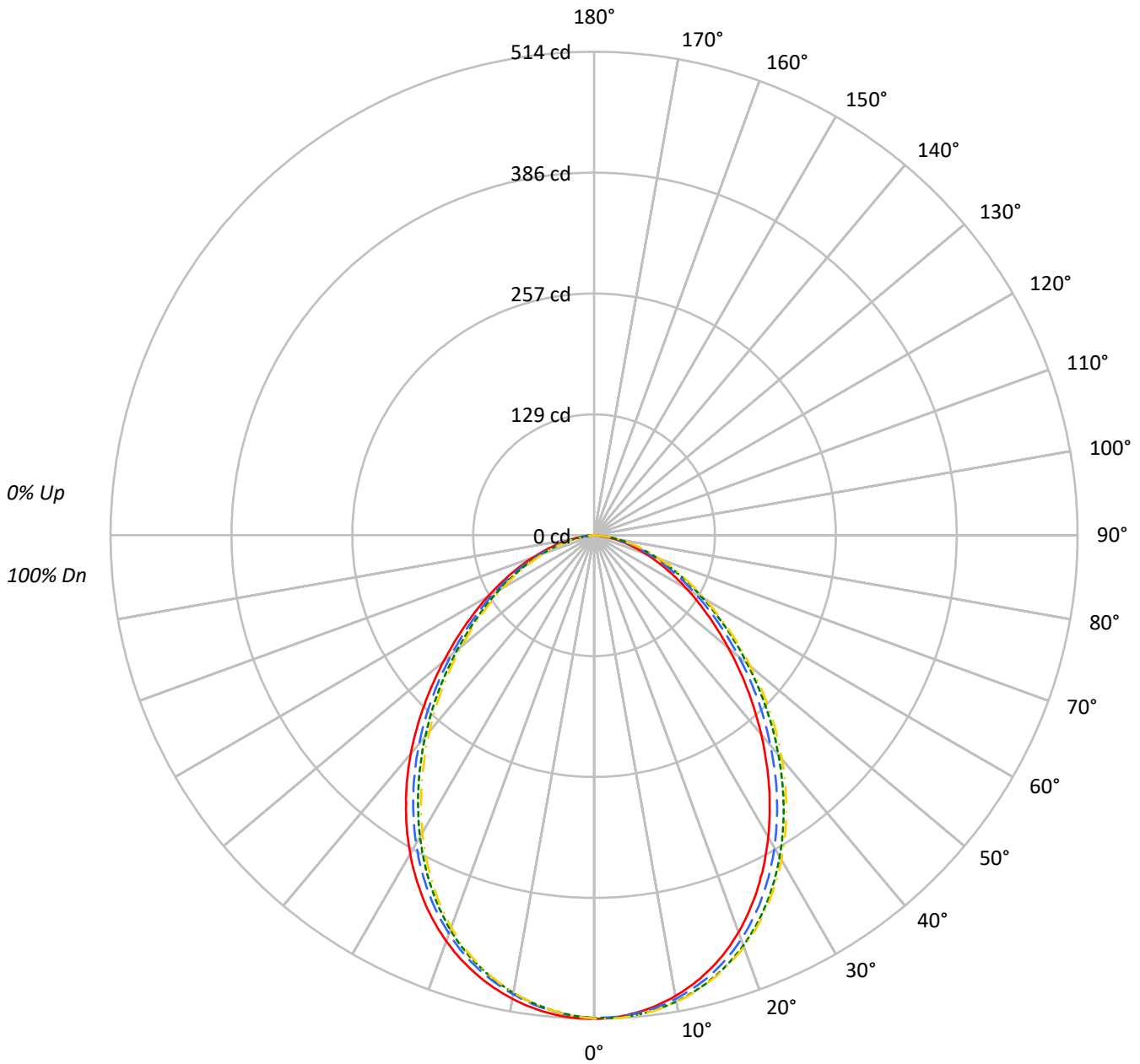
Input Watts (W): 10.1  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



Meas		Calibration Due Date	
Instrument	Identificatio		
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	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													
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87													
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	74													
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64													
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56													
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50													
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44													
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40													
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36													
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32													
10	57	44	37	32	56	44	37	32	43	36	32	42	36	31	41	35	31	30													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	28145	28145	28145	28145
5°	28054	28175	28109	27905
10°	27683	28017	27850	27493
15°	27100	27656	27424	26901
20°	26200	27075	26795	26048
25°	24951	26185	25907	24866
30°	23440	24979	24744	23428
35°	21670	23503	23316	21770
40°	19780	21834	21683	19980
45°	17831	20025	19777	18103
50°	15889	18149	17833	16196
55°	14078	16315	15971	14413
60°	12444	14626	14275	12773
65°	10935	13088	12686	11233
70°	9457	11653	11124	9617
75°	7900	10167	9447	7837
80°	6093	8587	7577	5714
85°	3837	6793	5284	2768

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.3	4.5
10°-20°	135.1	12.7
20°-30°	193.4	18.2
30°-40°	210.5	19.8
40°-50°	188.6	17.7
50°-60°	142.9	13.4
60°-70°	92.1	8.7
70°-80°	44.7	4.2
80°-90°	9.4	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°	376.8	35.4
0°-40°	587.3	55.1
0°-60°	918.7	86.3
0°-90°	1065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	513	513	513	513	513	
5°	510	512	511	507	510	48
15°	478	487	483	474	478	134
25°	412	433	428	411	412	189
35°	324	351	348	325	324	202
45°	230	258	255	234	230	177
55°	147	171	167	151	147	132
65°	84	101	98	87	84	84
75°	37	48	45	37	37	40
85°	6	11	8	4	6	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°	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4
0.5°	514.0	513.4	512.9	513.0	513.4	513.6	513.8	514.2	514.2	513.3	512.7
1°	513.8	513.4	513.0	513.0	513.4	513.8	514.1	514.3	514.0	513.3	512.5
1.5°	513.6	513.2	512.9	513.1	513.6	513.8	514.0	514.2	513.9	512.9	512.2
2°	513.2	513.1	512.9	513.0	513.4	513.8	514.1	514.1	513.7	512.8	511.8
2.5°	512.9	512.8	512.6	513.0	513.5	513.7	514.0	513.9	513.4	512.2	511.2
3°	512.4	512.4	512.4	512.8	513.2	513.7	513.9	513.5	513.0	511.9	510.7
3.5°	511.8	512.0	511.8	512.6	513.1	513.4	513.6	513.1	512.7	511.3	510.2
4°	511.2	511.4	511.5	512.2	512.7	513.1	513.3	512.7	512.1	510.8	509.4
4.5°	510.3	510.8	511.0	511.8	512.4	512.9	512.9	512.3	511.5	510.1	508.7
5°	509.8	510.1	510.4	511.4	512.0	512.4	512.5	511.5	510.8	509.4	507.7
5.5°	508.7	509.3	509.8	510.7	511.5	511.9	512.0	511.0	510.2	508.5	506.9
6°	507.9	508.4	509.0	510.2	510.8	511.3	511.3	510.2	509.3	507.6	505.9
6.5°	506.7	507.6	508.3	509.4	510.2	510.7	510.6	509.5	508.4	506.7	504.9
7°	505.7	506.5	507.3	508.6	509.5	509.9	510.0	508.5	507.6	505.6	503.7
7.5°	504.5	505.4	506.4	507.7	508.5	509.2	509.1	507.6	506.5	504.6	502.5
8°	503.3	504.3	505.2	506.8	507.6	508.2	508.2	506.6	505.4	503.4	500.9
8.5°	501.9	503.0	504.3	505.8	506.7	507.4	507.3	505.6	504.3	502.2	499.8
9°	500.4	501.8	503.0	504.8	505.6	506.2	506.2	504.4	503.0	500.9	498.6
9.5°	499.0	500.2	501.8	503.5	504.6	505.2	505.1	503.2	501.8	499.6	496.9
10°	497.3	498.8	500.3	502.3	503.3	503.9	504.0	502.1	500.3	498.1	495.6
10.5°	495.8	497.1	498.9	501.0	502.1	502.8	502.7	500.6	499.0	496.6	494.0
11°	494.1	495.6	497.4	499.6	500.7	501.4	501.4	499.2	497.3	495.1	492.4
11.5°	492.2	493.9	495.9	498.1	499.3	499.7	499.9	497.7	496.0	493.5	490.6
12°	490.3	492.1	494.3	496.2	497.8	498.6	498.5	496.2	494.2	491.7	488.9
12.5°	488.5	490.2	492.5	495.0	496.3	497.1	496.9	494.5	492.7	490.0	487.1
13°	486.3	488.2	490.7	493.3	494.6	495.5	495.3	492.9	490.8	488.3	485.3
13.5°	484.3	486.3	488.9	491.6	493.0	493.9	493.7	491.1	489.1	486.3	483.3
14°	482.0	484.1	487.1	489.8	491.3	492.1	491.8	489.2	487.1	484.4	481.2
14.5°	479.8	482.0	485.0	487.9	489.2	490.2	490.1	487.3	485.2	482.2	479.0
15°	477.5	479.6	482.9	486.0	487.3	488.4	488.2	485.4	483.2	480.3	476.9
15.5°	475.0	477.4	480.7	483.9	485.4	486.4	486.3	483.4	481.1	478.1	474.6
16°	472.5	474.9	478.3	481.8	483.4	484.5	484.2	481.2	478.9	475.8	472.3
16.5°	469.8	472.5	476.0	479.6	481.3	482.4	482.3	479.0	476.7	473.5	470.0
17°	467.2	469.8	473.6	477.4	479.0	480.2	480.1	476.8	474.5	471.1	467.4
17.5°	464.3	467.2	471.1	474.9	476.7	478.1	478.0	474.5	472.1	468.6	464.9
18°	461.5	464.2	468.5	472.6	474.3	475.7	475.6	472.1	469.7	466.1	462.3
18.5°	458.4	461.5	465.8	469.8	471.9	473.3	473.2	469.7	467.2	463.5	459.6
19°	455.5	458.5	462.9	467.4	469.4	470.8	470.7	467.2	464.6	460.8	456.8
19.5°	452.3	455.5	460.1	464.5	466.8	468.4	468.4	464.6	462.0	458.1	453.8
20°	449.1	452.4	457.1	461.9	464.1	465.7	465.7	461.9	459.3	455.2	450.9
20.5°	445.9	449.2	454.2	459.0	461.3	463.0	463.1	459.1	456.5	452.4	447.8
21°	442.4	446.0	451.0	456.0	458.5	460.2	460.1	456.3	453.6	449.4	444.7
21.5°	438.9	442.7	447.8	453.0	455.5	457.3	457.4	453.4	450.7	446.3	441.4
22°	435.3	439.3	444.6	449.9	452.6	454.3	454.4	450.4	447.7	443.2	438.3

TEST NUMBER: P895719  
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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°	431.8	435.7	441.0	446.8	449.5	451.4	451.5	447.3	444.7	440.2	434.9
23°	427.9	432.3	437.9	443.6	446.3	448.2	448.4	444.3	441.4	436.8	431.7
23.5°	424.3	428.5	434.4	440.3	443.2	445.1	445.3	441.0	438.3	433.6	428.2
24°	420.5	425.0	431.0	436.9	439.7	441.6	442.0	437.8	435.1	430.3	424.8
24.5°	416.7	421.2	427.3	433.4	436.3	438.3	438.6	434.4	431.7	426.9	421.1
25°	412.5	417.2	423.6	429.9	432.9	435.0	435.3	431.1	428.3	423.4	417.5
25.5°	408.8	413.4	419.7	426.3	429.4	431.5	431.9	427.7	424.9	419.8	413.9
26°	404.4	409.4	416.0	422.5	425.7	428.1	428.4	424.2	421.3	416.2	410.1
26.5°	400.6	405.4	412.1	418.9	422.0	424.4	424.9	420.4	417.7	412.5	406.3
27°	396.3	401.3	408.3	414.9	418.2	420.6	421.3	417.0	414.1	408.9	402.5
27.5°	392.1	397.2	404.1	411.3	414.5	416.6	417.6	413.3	410.3	404.7	398.6
28°	387.7	393.0	400.2	407.3	410.6	413.2	413.8	409.7	406.5	401.1	394.7
28.5°	383.5	388.7	396.0	403.3	406.7	409.2	410.1	405.8	402.8	397.3	390.7
29°	379.2	384.4	392.0	399.2	402.8	405.4	406.3	402.0	398.9	393.4	386.6
29.5°	374.7	380.1	387.7	395.2	398.6	401.3	402.5	398.0	394.9	389.4	382.5
30°	370.3	375.7	383.5	391.0	394.6	397.4	398.4	394.0	390.9	385.3	378.3
30.5°	365.9	371.4	379.3	386.9	390.4	393.2	394.5	390.1	386.9	381.2	374.3
31°	361.2	366.8	374.8	382.6	386.3	389.2	390.4	386.0	382.8	377.0	370.0
31.5°	356.6	362.3	370.5	378.2	382.2	385.0	386.3	381.9	378.7	372.9	365.8
32°	352.1	357.8	366.0	374.0	377.7	380.8	382.2	377.7	374.6	368.7	361.4
32.5°	347.5	353.1	361.5	369.6	373.4	376.6	377.9	373.5	370.3	364.2	357.1
33°	342.7	348.5	357.0	365.1	369.1	372.3	373.7	369.1	366.1	360.1	352.8
33.5°	338.2	343.9	352.6	360.8	364.7	367.9	369.4	364.9	361.7	355.7	348.4
34°	333.5	339.3	348.0	356.1	360.3	363.6	365.1	360.6	357.5	351.4	343.9
34.5°	328.8	334.6	343.4	351.8	355.8	359.1	360.7	356.3	353.1	347.0	339.5
35°	323.8	329.9	338.8	347.2	351.2	354.7	356.2	351.9	348.4	342.6	334.9
35.5°	319.2	325.2	334.1	342.5	346.8	350.3	351.8	347.5	344.3	338.1	330.6
36°	314.4	320.6	329.5	337.9	342.3	345.7	347.4	343.1	339.8	333.7	326.0
36.5°	309.7	315.8	324.7	333.4	337.6	341.2	342.8	338.5	335.3	329.1	321.3
37°	305.0	311.1	320.2	328.8	332.9	336.7	338.4	333.9	330.8	324.6	316.8
37.5°	300.2	306.4	315.5	324.1	328.4	332.0	333.8	329.4	326.4	320.0	312.3
38°	295.4	301.6	310.7	319.3	323.7	327.4	329.3	324.6	321.6	315.6	307.8
38.5°	290.6	296.9	305.7	314.7	319.1	322.8	324.6	320.3	317.1	310.8	303.2
39°	285.9	292.1	301.3	310.1	314.4	318.2	320.1	315.7	312.5	306.4	298.5
39.5°	281.1	287.5	296.7	305.3	309.6	313.5	315.5	311.0	307.8	301.7	293.9
40°	276.4	282.7	291.9	300.7	305.1	308.8	310.8	306.4	303.0	297.1	289.3
40.5°	271.7	278.0	287.1	295.9	300.3	304.3	306.1	301.7	298.3	292.2	284.7
41°	267.1	273.2	282.5	291.2	295.6	299.4	301.5	297.0	293.6	287.5	280.0
41.5°	262.3	268.6	277.9	286.5	291.0	294.8	296.9	292.2	288.9	282.9	275.4
42°	257.6	264.0	273.1	281.8	286.3	290.3	292.2	287.4	283.9	278.2	270.7
42.5°	253.0	259.3	268.3	277.1	281.6	285.5	287.5	282.8	279.3	273.3	266.1
43°	248.5	254.6	263.9	272.6	277.0	281.0	283.0	277.8	274.4	268.6	261.5
43.5°	243.8	250.0	259.4	267.9	272.3	276.1	278.2	273.1	269.7	264.0	256.8
44°	239.2	245.3	254.6	263.3	267.6	271.7	273.4	268.2	264.9	259.1	252.1
44.5°	234.7	240.9	250.1	258.6	262.9	267.0	268.8	263.5	260.1	254.5	247.5

TEST NUMBER: P895719  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	230.0	236.3	245.6	254.2	258.3	262.4	264.2	258.7	255.1	249.7	242.9
45.5°	225.5	231.7	241.1	249.4	253.8	257.6	259.4	254.0	250.5	245.0	238.4
46°	221.0	227.2	236.5	244.8	249.1	253.1	254.6	249.1	245.8	240.3	233.8
46.5°	216.5	222.7	231.9	240.3	244.4	248.4	249.9	244.4	241.1	235.8	229.2
47°	212.0	218.2	227.4	235.8	239.9	243.7	245.2	239.7	236.2	231.1	224.7
47.5°	207.7	213.7	222.9	231.1	235.3	239.0	240.5	235.2	231.8	226.6	220.2
48°	203.3	209.3	218.5	226.6	230.7	234.6	236.0	230.5	227.2	222.1	215.8
48.5°	198.9	204.9	214.0	222.2	226.2	229.9	231.2	225.9	222.6	217.4	211.3
49°	194.7	200.6	209.6	217.6	221.7	225.3	226.8	221.3	218.1	213.1	206.9
49.5°	190.5	196.4	205.1	213.2	217.2	220.8	222.2	216.8	213.5	208.7	202.6
50°	186.3	192.0	201.0	209.0	212.8	216.4	217.5	212.2	209.1	204.3	198.4
50.5°	182.2	187.8	196.6	204.4	208.4	211.8	213.1	207.9	204.7	199.9	194.0
51°	178.0	183.7	192.4	200.1	203.9	207.4	208.7	203.6	200.3	195.7	190.0
51.5°	174.0	179.7	188.0	195.8	199.6	203.2	204.3	199.1	196.0	191.4	185.7
52°	170.0	175.6	184.1	191.7	195.5	198.8	200.0	194.9	191.6	187.3	181.6
52.5°	166.2	171.6	180.0	187.5	191.1	194.5	195.7	190.6	187.6	183.1	177.6
53°	162.1	167.6	176.0	183.3	186.9	190.3	191.3	186.4	183.3	179.0	173.6
53.5°	158.4	163.8	171.8	179.2	182.7	186.1	187.2	182.3	179.3	174.9	169.6
54°	154.6	159.9	167.9	175.2	178.8	182.0	183.0	178.1	175.1	170.9	165.7
54.5°	150.8	156.0	163.9	171.2	174.5	177.8	178.9	174.1	171.3	167.0	161.9
55°	147.3	152.3	160.2	167.2	170.7	174.0	174.8	170.1	167.1	163.1	158.1
55.5°	143.6	148.7	156.4	163.4	166.6	169.9	170.8	166.1	163.3	159.3	154.3
56°	140.1	145.1	152.6	159.5	162.9	165.9	166.8	162.2	159.4	155.4	150.5
56.5°	136.6	141.5	149.0	155.7	158.8	162.0	163.0	158.4	155.7	151.7	147.0
57°	133.1	138.0	145.3	152.0	155.1	158.2	159.0	154.6	151.8	147.9	143.3
57.5°	129.7	134.5	141.7	148.2	151.3	154.4	155.3	150.7	148.1	144.4	139.8
58°	126.3	131.0	138.2	144.6	147.7	150.6	151.5	147.1	144.5	140.7	136.3
58.5°	123.1	127.6	134.7	141.0	144.0	147.0	147.9	143.5	140.9	137.2	132.8
59°	119.8	124.3	131.2	137.4	140.4	143.3	144.2	139.9	137.2	133.7	129.2
59.5°	116.6	121.0	127.8	134.0	136.9	139.8	140.5	136.3	133.8	130.1	125.9
60°	113.5	117.8	124.5	130.5	133.4	136.2	137.1	132.8	130.2	126.6	122.5
60.5°	110.4	114.6	121.2	127.0	129.9	132.7	133.5	129.3	126.8	123.3	119.2
61°	107.3	111.5	118.0	123.7	126.6	129.2	130.1	126.0	123.5	120.0	115.9
61.5°	104.2	108.4	114.6	120.4	123.2	125.9	126.6	122.6	120.1	116.6	112.7
62°	101.3	105.3	111.5	117.1	119.9	122.6	123.4	119.3	116.8	113.3	109.5
62.5°	98.4	102.4	108.3	113.9	116.6	119.2	120.0	116.0	113.4	110.2	106.3
63°	95.5	99.4	105.3	110.6	113.3	115.9	116.6	112.9	110.4	106.9	103.2
63.5°	92.7	96.4	102.3	107.6	110.2	112.8	113.5	109.6	107.1	103.7	100.1
64°	89.8	93.6	99.3	104.5	107.0	109.5	110.4	106.5	103.9	100.7	97.2
64.5°	87.0	90.7	96.3	101.4	104.0	106.5	107.2	103.4	100.8	97.6	94.2
65°	84.3	87.9	93.4	98.4	100.9	103.3	104.1	100.3	97.8	94.6	91.2
65.5°	81.7	85.2	90.6	95.4	97.9	100.3	101.1	97.3	94.6	91.6	88.3
66°	79.0	82.4	87.7	92.5	94.9	97.3	98.0	94.3	91.8	88.7	85.4
66.5°	76.4	79.7	84.9	89.6	91.9	94.4	95.0	91.3	88.9	85.8	82.6
67°	73.8	77.1	82.1	86.7	89.2	91.5	92.1	88.4	86.0	83.0	79.8



TEST NUMBER: P895719  
 CATALOG NUMBER: RAWZC610-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	71.3	74.5	79.4	83.9	86.4	88.6	89.3	85.6	83.2	80.2	77.1
68°	68.7	71.9	76.7	81.2	83.6	85.8	86.6	82.8	80.4	77.4	74.3
68.5°	66.3	69.4	74.1	78.5	80.9	83.1	83.7	80.0	77.6	74.6	71.5
69°	63.9	66.9	71.4	75.8	78.1	80.3	81.0	77.2	74.7	71.8	69.0
69.5°	61.5	64.4	68.9	73.2	75.4	77.6	78.2	74.4	71.9	69.2	66.2
70°	59.0	62.0	66.3	70.5	72.7	74.9	75.5	71.7	69.4	66.6	63.7
70.5°	56.8	59.6	63.9	67.9	70.1	72.1	72.7	69.0	66.7	63.9	61.1
71°	54.5	57.3	61.4	65.3	67.5	69.4	70.0	66.3	64.1	61.4	58.7
71.5°	52.2	54.8	59.0	62.8	64.9	67.0	67.4	63.7	61.5	58.9	56.1
72°	49.9	52.6	56.6	60.3	62.4	64.3	64.8	61.2	58.9	56.4	53.7
72.5°	47.8	50.3	54.2	57.9	59.9	61.9	62.2	58.7	56.5	53.9	51.2
73°	45.7	48.1	51.9	55.5	57.4	59.3	59.7	56.2	54.0	51.5	48.9
73.5°	43.5	46.0	49.5	53.1	55.0	57.0	57.2	53.8	51.7	49.1	46.5
74°	41.3	43.8	47.3	50.8	52.6	54.5	54.7	51.4	49.2	46.8	44.2
74.5°	39.3	41.6	45.1	48.5	50.3	52.1	52.3	49.0	46.8	44.4	41.9
75°	37.3	39.5	42.9	46.3	48.0	49.7	49.9	46.6	44.6	42.2	39.7
75.5°	35.4	37.5	40.8	44.0	45.7	47.5	47.6	44.3	42.3	40.0	37.5
76°	33.5	35.5	38.7	41.8	43.5	45.1	45.3	42.0	40.1	37.8	35.4
76.5°	31.6	33.6	36.6	39.7	41.3	42.9	43.1	39.9	37.9	35.7	33.3
77°	29.8	31.7	34.5	37.6	39.1	40.7	40.8	37.7	35.8	33.5	31.2
77.5°	27.9	29.9	32.6	35.5	37.1	38.6	38.6	35.6	33.7	31.5	29.2
78°	26.0	28.0	30.7	33.5	35.0	36.4	36.5	33.4	31.6	29.5	27.3
78.5°	24.3	26.1	28.8	31.6	33.0	34.3	34.3	31.4	29.7	27.6	25.3
79°	22.6	24.3	27.0	29.7	30.9	32.3	32.3	29.4	27.7	25.6	23.5
79.5°	20.9	22.6	25.1	27.8	29.0	30.3	30.3	27.5	25.8	23.8	21.7
80°	19.3	20.9	23.3	25.8	27.2	28.3	28.3	25.5	24.0	22.0	20.0
80.5°	17.6	19.3	21.6	24.0	25.3	26.4	26.4	23.7	22.2	20.2	18.3
81°	16.2	17.7	20.0	22.3	23.4	24.6	24.5	21.9	20.4	18.5	16.7
81.5°	14.7	16.2	18.3	20.5	21.7	22.7	22.7	20.1	18.7	16.9	15.0
82°	13.4	14.7	16.8	18.9	20.0	21.0	20.9	18.4	17.1	15.3	13.6
82.5°	12.1	13.4	15.3	17.3	18.3	19.4	19.3	16.9	15.4	13.8	12.0
83°	10.8	12.0	13.9	15.8	16.8	17.6	17.5	15.2	13.9	12.2	10.7
83.5°	9.5	10.8	12.4	14.3	15.1	16.1	16.0	13.7	12.4	10.9	9.4
84°	8.4	9.5	11.1	12.8	13.7	14.6	14.5	12.2	11.0	9.5	8.2
84.5°	7.2	8.3	9.7	11.5	12.1	13.0	12.9	10.8	9.6	8.3	6.9
85°	6.1	7.1	8.6	10.1	10.8	11.6	11.5	9.5	8.4	7.0	5.7
85.5°	5.0	6.0	7.3	8.8	9.5	10.2	10.2	8.3	7.1	5.8	4.4
86°	4.0	4.9	6.3	7.5	8.4	9.0	9.1	7.0	5.9	4.5	3.5
86.5°	3.3	4.0	5.1	6.4	7.1	7.8	7.8	5.8	4.6	3.6	2.6
87°	2.5	3.3	4.1	5.3	5.9	6.6	6.6	4.5	3.7	2.7	1.8
87.5°	1.8	2.5	3.3	4.2	4.7	5.4	5.3	3.6	2.8	1.9	1.2
88°	1.1	1.7	2.5	3.4	3.8	4.1	4.0	2.7	2.0	1.3	0.5
88.5°	0.3	1.1	1.8	2.6	2.9	3.3	3.1	1.9	1.3	0.5	0.1
89°	0.1	0.3	1.1	1.8	2.1	2.5	2.3	1.3	0.5	0.1	0.0
89.5°	0.0	0.1	0.3	1.1	1.3	1.6	1.5	0.4	0.1	0.0	0.0

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

  
NVLAP Lab Code: 200050-0



TEST NUMBER: P895719  
CATALOG NUMBER: RAWZC610-5000K

**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: P895719  
 CATALOG NUMBER: RAWZC610-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	513.4	513.4	513.4	513.4	513.4	513.4
0.5°	512.6	512.9	513.0	513.2	513.9	514.0
1°	512.1	512.6	512.7	512.9	513.7	513.8
1.5°	511.8	512.2	512.3	512.4	513.3	513.6
2°	511.2	511.7	511.7	512.0	512.9	513.2
2.5°	510.8	511.0	511.1	511.2	512.5	512.9
3°	510.2	510.4	510.3	510.7	512.0	512.4
3.5°	509.1	509.7	509.7	509.9	511.3	511.8
4°	508.7	508.9	508.8	509.2	510.5	511.2
4.5°	507.8	508.0	507.9	508.2	509.8	510.3
5°	507.0	507.1	507.0	507.3	508.9	509.8
5.5°	505.9	506.1	505.8	505.7	508.0	508.7
6°	504.9	504.9	504.8	505.0	506.9	507.9
6.5°	503.7	503.9	503.5	503.9	505.8	506.7
7°	502.5	502.5	502.3	502.6	504.7	505.7
7.5°	501.3	501.4	500.9	501.3	503.4	504.5
8°	499.9	499.9	499.6	499.8	502.1	503.3
8.5°	498.6	498.5	497.9	498.4	500.6	501.9
9°	497.1	496.9	496.6	496.8	499.2	500.4
9.5°	495.6	495.5	494.8	495.2	497.6	499.0
10°	494.1	493.9	493.3	493.5	496.0	497.3
10.5°	492.4	492.1	491.6	491.8	494.3	495.8
11°	490.7	490.4	489.8	490.0	492.5	494.1
11.5°	488.9	488.7	487.9	488.2	490.5	492.2
12°	487.1	486.7	486.1	486.2	488.9	490.3
12.5°	485.2	484.7	484.0	484.1	486.7	488.5
13°	482.7	482.8	482.0	482.0	484.8	486.3
13.5°	481.0	480.7	479.7	479.9	482.2	484.3
14°	478.9	478.6	477.6	477.7	480.4	482.0
14.5°	476.7	476.2	475.3	475.3	478.1	479.8
15°	474.5	474.0	473.0	472.9	475.6	477.5
15.5°	472.1	471.5	470.4	470.3	473.1	475.0
16°	469.8	469.2	467.9	467.7	470.7	472.5
16.5°	467.1	466.6	465.4	465.0	468.0	469.8
17°	464.7	464.1	462.6	462.3	465.4	467.2
17.5°	462.0	461.4	459.9	459.5	462.6	464.3
18°	459.3	458.6	457.0	456.5	459.6	461.5
18.5°	456.3	455.7	454.2	453.5	456.7	458.4
19°	453.6	452.7	451.0	450.1	453.7	455.5
19.5°	450.4	449.6	447.9	447.1	450.5	452.3
20°	447.4	446.5	444.7	443.6	447.2	449.1
20.5°	444.1	443.3	441.3	440.4	443.9	445.9
21°	441.0	440.0	438.1	436.8	440.4	442.4
21.5°	437.6	436.5	434.6	433.2	436.9	438.9
22°	434.3	433.1	431.0	429.8	433.3	435.3

TEST NUMBER: P895719  
 CATALOG NUMBER: RAWZC610-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	430.9	429.6	427.5	426.2	429.8	431.8
23°	427.6	426.0	423.8	422.4	426.0	427.9
23.5°	423.8	422.3	420.1	418.8	422.2	424.3
24°	420.1	418.7	416.3	414.8	418.4	420.5
24.5°	416.6	414.9	412.5	411.0	414.5	416.7
25°	412.8	411.1	408.5	407.0	410.6	412.5
25.5°	409.0	407.1	404.7	403.0	406.5	408.8
26°	405.3	403.4	400.6	399.0	402.4	404.4
26.5°	401.2	399.3	396.2	394.9	398.3	400.6
27°	397.5	395.4	392.5	390.7	394.2	396.3
27.5°	393.2	391.1	388.3	386.6	390.2	392.1
28°	389.3	387.1	384.1	382.3	385.6	387.7
28.5°	385.1	382.9	379.9	377.9	381.4	383.5
29°	381.0	378.5	375.6	373.6	377.0	379.2
29.5°	376.8	374.4	371.4	369.3	372.7	374.7
30°	372.5	370.1	366.9	364.9	368.1	370.3
30.5°	368.3	365.8	362.6	360.5	363.7	365.9
31°	364.0	361.4	358.1	355.8	359.0	361.2
31.5°	359.6	357.1	353.6	351.3	354.6	356.6
32°	355.2	352.6	349.1	346.8	350.0	352.1
32.5°	350.8	348.0	344.6	342.2	345.5	347.5
33°	346.4	343.6	340.1	337.7	340.7	342.7
33.5°	341.8	339.2	335.4	333.0	336.2	338.2
34°	337.3	334.5	331.0	328.4	331.4	333.5
34.5°	332.8	329.9	326.2	323.7	326.9	328.8
35°	328.3	325.3	321.5	319.0	322.1	323.8
35.5°	323.7	320.9	316.9	314.4	317.3	319.2
36°	319.0	316.2	312.4	309.6	312.6	314.4
36.5°	314.6	311.5	307.7	305.0	307.9	309.7
37°	310.0	306.9	303.0	300.2	303.2	305.0
37.5°	305.4	302.3	298.4	295.5	298.4	300.2
38°	300.7	297.6	293.7	290.9	293.7	295.4
38.5°	296.2	293.1	289.0	286.1	289.0	290.6
39°	291.6	288.5	284.5	281.5	284.2	285.9
39.5°	287.0	283.8	279.8	276.8	279.6	281.1
40°	282.4	279.2	275.2	272.1	274.9	276.4
40.5°	277.7	274.6	270.5	267.6	270.2	271.7
41°	273.2	270.1	266.0	263.0	265.5	267.1
41.5°	268.5	265.3	261.3	258.4	260.9	262.3
42°	264.0	260.7	256.8	253.9	256.4	257.6
42.5°	259.5	256.3	252.2	249.4	251.8	253.0
43°	254.7	251.8	247.7	244.8	247.1	248.5
43.5°	250.2	247.1	243.1	240.3	242.5	243.8
44°	245.7	242.6	238.6	235.8	238.0	239.2
44.5°	241.1	238.1	234.0	231.2	233.4	234.7

TEST NUMBER: P895719  
 CATALOG NUMBER: RAWZC610-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	236.6	233.5	229.6	226.7	229.0	230.0
45.5°	232.1	229.0	225.1	222.3	224.3	225.5
46°	227.5	224.6	220.7	217.8	219.8	221.0
46.5°	222.9	220.0	216.1	213.4	215.3	216.5
47°	218.5	215.7	211.7	209.1	211.1	212.0
47.5°	214.2	211.3	207.4	204.6	206.5	207.7
48°	209.7	206.8	203.2	200.3	202.1	203.3
48.5°	205.5	202.5	198.7	196.1	197.9	198.9
49°	201.1	198.4	194.5	191.9	193.7	194.7
49.5°	196.9	194.1	190.5	187.8	189.4	190.5
50°	192.6	189.9	186.3	183.6	185.3	186.3
50.5°	188.5	185.8	182.3	179.5	181.2	182.2
51°	184.4	181.7	178.1	175.4	177.2	178.0
51.5°	180.2	177.6	174.3	171.5	173.0	174.0
52°	176.3	173.7	170.2	167.5	169.2	170.0
52.5°	172.3	169.7	166.4	163.8	165.3	166.2
53°	168.3	165.8	162.4	159.8	161.4	162.1
53.5°	164.4	162.0	158.6	156.0	157.6	158.4
54°	160.7	158.3	154.9	152.3	153.8	154.6
54.5°	156.9	154.5	151.1	148.7	150.2	150.8
55°	153.2	150.8	147.5	145.0	146.5	147.3
55.5°	149.5	147.2	144.0	141.6	142.9	143.6
56°	145.8	143.6	140.3	137.9	139.5	140.1
56.5°	142.3	139.9	137.0	134.6	135.9	136.6
57°	138.7	136.5	133.4	131.0	132.5	133.1
57.5°	135.2	133.0	130.0	127.7	129.1	129.7
58°	131.9	129.6	126.6	124.4	125.7	126.3
58.5°	128.4	126.4	123.4	121.2	122.4	123.1
59°	125.1	123.0	120.1	117.9	119.2	119.8
59.5°	121.8	119.7	116.8	114.7	116.0	116.6
60°	118.5	116.5	113.6	111.6	112.9	113.5
60.5°	115.3	113.2	110.5	108.3	109.8	110.4
61°	112.1	110.1	107.4	105.3	106.7	107.3
61.5°	109.0	107.0	104.4	102.4	103.6	104.2
62°	105.9	104.1	101.4	99.4	100.7	101.3
62.5°	102.7	101.0	98.3	96.5	97.8	98.4
63°	99.8	98.0	95.4	93.5	94.8	95.5
63.5°	96.8	95.1	92.5	90.7	92.0	92.7
64°	93.9	92.1	89.6	87.9	89.3	89.8
64.5°	91.0	89.3	86.9	85.0	86.5	87.0
65°	88.1	86.6	84.1	82.4	83.7	84.3
65.5°	85.3	83.8	81.3	79.6	81.1	81.7
66°	82.5	81.0	78.6	77.0	78.3	79.0
66.5°	79.7	78.3	75.9	74.3	75.7	76.4
67°	77.0	75.6	73.3	71.7	73.2	73.8

TEST NUMBER: P895719  
 CATALOG NUMBER: RAWZC610-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	74.2	73.0	70.7	69.2	70.6	71.3
68°	71.4	70.3	68.1	66.6	68.0	68.7
68.5°	68.8	67.7	65.6	64.2	65.6	66.3
69°	66.2	65.1	63.1	61.7	63.1	63.9
69.5°	63.6	62.6	60.7	59.2	60.7	61.5
70°	61.1	60.0	58.2	57.0	58.3	59.0
70.5°	58.5	57.4	55.9	54.6	56.0	56.8
71°	56.1	55.1	53.5	52.2	53.7	54.5
71.5°	53.6	52.7	51.2	49.9	51.4	52.2
72°	51.2	50.3	48.9	47.7	49.2	49.9
72.5°	48.8	48.0	46.6	45.5	47.0	47.8
73°	46.5	45.8	44.3	43.3	44.8	45.7
73.5°	44.2	43.5	42.1	41.2	42.7	43.5
74°	42.0	41.3	40.0	39.0	40.6	41.3
74.5°	39.8	39.1	37.9	36.9	38.6	39.3
75°	37.6	37.0	35.8	35.0	36.4	37.3
75.5°	35.5	34.9	34.2	33.1	34.5	35.4
76°	33.3	33.0	32.2	31.2	32.7	33.5
76.5°	31.3	31.0	30.1	29.3	30.8	31.6
77°	29.4	29.0	28.0	27.4	28.9	29.8
77.5°	27.4	27.1	26.0	25.4	27.1	27.9
78°	25.4	25.2	24.2	23.7	25.2	26.0
78.5°	23.6	23.3	22.4	21.9	23.5	24.3
79°	21.8	21.5	20.7	20.2	21.8	22.6
79.5°	20.0	19.8	19.0	18.6	20.0	20.9
80°	18.4	18.1	17.3	17.1	18.5	19.3
80.5°	16.7	16.5	15.8	15.5	17.0	17.6
81°	15.1	14.8	14.3	14.0	15.5	16.2
81.5°	13.6	13.3	12.7	12.6	14.1	14.7
82°	12.1	11.9	11.4	11.3	12.7	13.4
82.5°	10.7	10.5	10.0	9.9	11.4	12.1
83°	9.4	9.2	8.7	8.7	10.1	10.8
83.5°	8.2	7.8	7.4	7.4	8.9	9.5
84°	6.9	6.7	6.3	6.3	7.7	8.4
84.5°	5.8	5.5	5.1	5.1	6.5	7.2
85°	4.5	4.4	4.0	4.1	5.4	6.1
85.5°	3.5	3.4	3.2	3.2	4.3	5.0
86°	2.6	2.7	2.4	2.4	3.5	4.0
86.5°	1.9	1.9	1.6	1.6	2.7	3.3
87°	1.3	1.2	1.0	1.2	1.9	2.5
87.5°	0.5	0.4	0.2	0.8	1.2	1.8
88°	0.1	0.1	0.0	0.4	0.4	1.1
88.5°	0.0	0.0	0.0	0.0	0.2	0.3
89°	0.0	0.0	0.0	0.0	0.0	0.1
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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



TEST NUMBER: P895719  
CATALOG NUMBER: RAWZC610-5000K

**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)