

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: P895724

Luminaire Tested: **RLWZC409-4000K**

Issue Date: 11/14/2024

Tested By:

Approved By:



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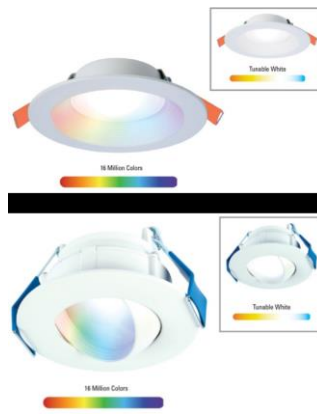
Test Information

Test Method: LM-79-08
 Report Number: P895724
 Test Lab:
 Issue Date: 11/14/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: RLWZC409-4000K
 Description: 4IN DM WiZ SELECTABLE CCT
 Light Source: WiZ SELECTABLE 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 940.0 lumens
 Efficiency: N/A
 Efficacy: 92.2 lumens/watt
 Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.29
 Luminous Opening: Circular (Dia: 0.33' x H: 0')
 CIE Type: Direct

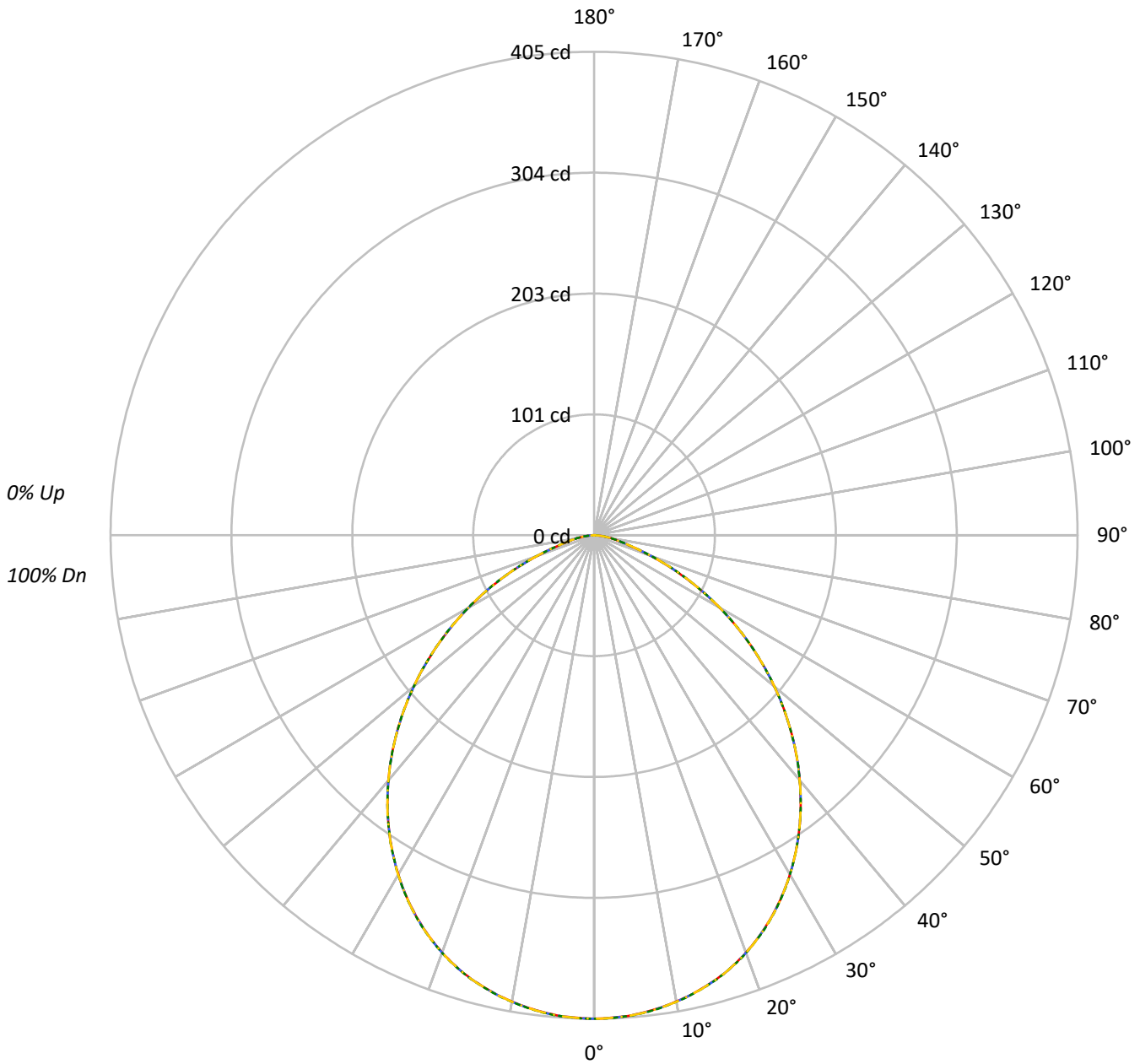
Input Watts (W): 10.2
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



Measurements		Calibration Due Date	
Instrument	Identification		
Photometer	GONIO 1 11111111	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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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	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	101	97	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	30	55	43	35	30	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	50969	50969	50969	50969
5°	50886	50924	50886	50924
10°	50682	50720	50682	50720
15°	50396	50409	50396	50409
20°	49821	49861	49821	49861
25°	48934	48962	48934	48962
30°	47665	47694	47665	47694
35°	46044	46075	46044	46075
40°	44028	44012	44028	44012
45°	41576	41576	41576	41576
50°	38590	38609	38590	38609
55°	34996	35040	34996	35040
60°	30581	30682	30581	30682
65°	25193	25282	25193	25282
70°	18692	18913	18692	18913
75°	12788	13275	12788	13275
80°	10436	10581	10436	10581
85°	7653	7942	7653	7942

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	4.1
10°-20°	109.1	11.6
20°-30°	162.1	17.2
30°-40°	187.2	19.9
40°-50°	179.8	19.1
50°-60°	142.4	15.2
60°-70°	84.2	9.0
70°-80°	30.4	3.2
80°-90°	6.5	0.7
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°	309.5	32.9
0°-40°	496.7	52.8
0°-60°	818.9	87.1
0°-90°	940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	940.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	405	405	405	405	405	
5°	403	403	403	403	403	38
15°	387	387	387	387	387	109
25°	352	353	352	353	352	162
35°	300	300	300	300	300	187
45°	234	234	234	234	234	180
55°	160	160	160	160	160	142
65°	85	85	85	85	85	84
75°	26	27	26	27	26	30
85°	5	6	5	6	5	6
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°	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0	405.0
0.5°	404.9	404.9	405.0	405.0	405.0	405.0	405.0	404.9	404.9	404.9	405.0
1°	404.8	404.8	404.9	404.9	405.0	404.9	404.9	404.8	404.8	404.8	404.9
1.5°	404.7	404.7	404.8	404.8	404.9	404.8	404.8	404.7	404.7	404.7	404.8
2°	404.5	404.6	404.6	404.6	404.7	404.6	404.6	404.6	404.5	404.6	404.6
2.5°	404.4	404.4	404.4	404.5	404.5	404.5	404.4	404.4	404.4	404.4	404.4
3°	404.1	404.2	404.2	404.2	404.3	404.2	404.2	404.2	404.1	404.2	404.2
3.5°	403.9	403.9	404.0	404.0	404.0	404.0	404.0	403.9	403.9	403.9	404.0
4°	403.7	403.7	403.7	403.7	403.8	403.7	403.7	403.7	403.7	403.7	403.7
4.5°	403.3	403.3	403.4	403.4	403.5	403.4	403.4	403.3	403.3	403.3	403.4
5°	402.8	402.9	403.0	403.0	403.1	403.0	403.0	402.9	402.8	402.9	403.0
5.5°	402.4	402.5	402.6	402.5	402.6	402.5	402.6	402.5	402.4	402.5	402.6
6°	401.9	402.0	402.1	402.1	402.2	402.1	402.1	402.0	401.9	402.0	402.1
6.5°	401.4	401.5	401.5	401.5	401.7	401.5	401.5	401.5	401.4	401.5	401.5
7°	400.8	400.9	401.0	401.0	401.1	401.0	401.0	400.9	400.8	400.9	401.0
7.5°	400.2	400.3	400.4	400.4	400.5	400.4	400.4	400.3	400.2	400.3	400.4
8°	399.6	399.7	399.7	399.7	399.9	399.7	399.7	399.7	399.6	399.7	399.7
8.5°	398.9	399.0	399.1	399.1	399.1	399.1	399.1	399.0	398.9	399.0	399.1
9°	398.2	398.3	398.3	398.4	398.4	398.4	398.3	398.3	398.2	398.3	398.3
9.5°	397.5	397.5	397.6	397.6	397.7	397.6	397.6	397.5	397.5	397.5	397.6
10°	396.6	396.7	396.8	396.8	396.9	396.8	396.8	396.7	396.6	396.7	396.8
10.5°	395.8	395.9	395.9	396.0	396.1	396.0	395.9	395.9	395.8	395.9	395.9
11°	395.0	395.1	395.2	395.2	395.3	395.2	395.2	395.1	395.0	395.1	395.2
11.5°	394.1	394.2	394.3	394.3	394.4	394.3	394.3	394.2	394.1	394.2	394.3
12°	393.2	393.2	393.3	393.3	393.4	393.3	393.3	393.2	393.2	393.2	393.3
12.5°	392.2	392.2	392.3	392.3	392.4	392.3	392.3	392.2	392.2	392.2	392.3
13°	391.2	391.2	391.3	391.3	391.4	391.3	391.3	391.2	391.2	391.2	391.3
13.5°	390.1	390.1	390.2	390.2	390.3	390.2	390.2	390.1	390.1	390.1	390.2
14°	389.0	389.0	389.1	389.2	389.2	389.2	389.1	389.0	389.0	389.0	389.1
14.5°	387.8	387.9	388.0	388.0	388.1	388.0	388.0	387.9	387.8	387.9	388.0
15°	386.8	386.8	386.9	386.9	386.9	386.9	386.9	386.8	386.8	386.8	386.9
15.5°	385.6	385.6	385.7	385.7	385.8	385.7	385.7	385.6	385.6	385.6	385.7
16°	384.3	384.3	384.4	384.4	384.5	384.4	384.4	384.3	384.3	384.3	384.4
16.5°	383.0	383.0	383.1	383.0	383.1	383.0	383.1	383.0	383.0	383.0	383.1
17°	381.6	381.7	381.7	381.6	381.7	381.6	381.7	381.7	381.6	381.7	381.7
17.5°	380.1	380.2	380.2	380.2	380.2	380.2	380.2	380.2	380.1	380.2	380.2
18°	378.6	378.7	378.7	378.7	378.7	378.7	378.7	378.7	378.6	378.7	378.7
18.5°	377.1	377.2	377.2	377.2	377.3	377.2	377.2	377.2	377.1	377.2	377.2
19°	375.4	375.5	375.6	375.6	375.7	375.6	375.6	375.5	375.4	375.5	375.6
19.5°	373.8	373.8	373.9	373.9	374.0	373.9	373.9	373.8	373.8	373.8	373.9
20°	372.0	372.1	372.2	372.2	372.3	372.2	372.2	372.1	372.0	372.1	372.2
20.5°	370.2	370.3	370.4	370.4	370.5	370.4	370.4	370.3	370.2	370.3	370.4
21°	368.5	368.5	368.7	368.6	368.7	368.6	368.7	368.5	368.5	368.5	368.7
21.5°	366.6	366.7	366.8	366.7	366.8	366.7	366.8	366.7	366.6	366.7	366.8
22°	364.7	364.8	364.9	364.8	365.0	364.8	364.9	364.8	364.7	364.8	364.9

TEST NUMBER: P895724
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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°	362.7	362.8	362.9	362.9	363.0	362.9	362.9	362.8	362.7	362.8	362.9
23°	360.8	360.9	361.0	361.0	361.1	361.0	361.0	360.9	360.8	360.9	361.0
23.5°	358.8	358.8	358.9	358.9	359.0	358.9	358.9	358.8	358.8	358.8	358.9
24°	356.6	356.7	356.8	356.8	356.9	356.8	356.8	356.7	356.6	356.7	356.8
24.5°	354.4	354.5	354.6	354.6	354.8	354.6	354.6	354.5	354.4	354.5	354.6
25°	352.4	352.4	352.5	352.5	352.6	352.5	352.5	352.4	352.4	352.4	352.5
25.5°	350.1	350.2	350.3	350.3	350.3	350.3	350.3	350.2	350.1	350.2	350.3
26°	347.8	347.9	348.0	348.0	348.1	348.0	348.0	347.9	347.8	347.9	348.0
26.5°	345.5	345.5	345.6	345.6	345.7	345.6	345.6	345.5	345.5	345.5	345.6
27°	343.2	343.2	343.4	343.3	343.5	343.3	343.4	343.2	343.2	343.2	343.4
27.5°	340.7	340.8	340.9	340.9	341.0	340.9	340.9	340.8	340.7	340.8	340.9
28°	338.3	338.3	338.4	338.4	338.5	338.4	338.4	338.3	338.3	338.3	338.4
28.5°	335.9	335.9	335.9	335.9	336.0	335.9	335.9	335.9	335.9	335.9	335.9
29°	333.3	333.3	333.4	333.4	333.5	333.4	333.4	333.3	333.3	333.3	333.4
29.5°	330.7	330.7	330.8	330.8	330.9	330.8	330.8	330.7	330.7	330.7	330.8
30°	328.0	328.1	328.2	328.1	328.2	328.1	328.2	328.1	328.0	328.1	328.2
30.5°	325.4	325.5	325.6	325.5	325.6	325.5	325.6	325.5	325.4	325.5	325.6
31°	322.7	322.7	322.8	322.8	322.9	322.8	322.8	322.7	322.7	322.7	322.8
31.5°	319.9	320.0	320.0	320.0	320.0	320.0	320.0	320.0	319.9	320.0	320.0
32°	317.2	317.2	317.3	317.2	317.3	317.2	317.3	317.2	317.2	317.2	317.3
32.5°	314.4	314.4	314.5	314.4	314.5	314.4	314.5	314.4	314.4	314.4	314.5
33°	311.5	311.5	311.6	311.5	311.6	311.5	311.6	311.5	311.5	311.5	311.6
33.5°	308.7	308.7	308.8	308.7	308.8	308.7	308.8	308.7	308.7	308.7	308.8
34°	305.7	305.7	305.8	305.7	305.8	305.7	305.8	305.7	305.7	305.7	305.8
34.5°	302.7	302.7	302.8	302.7	302.8	302.7	302.8	302.7	302.7	302.7	302.8
35°	299.7	299.8	299.8	299.8	299.9	299.8	299.8	299.8	299.7	299.8	299.8
35.5°	296.7	296.7	296.8	296.7	296.8	296.7	296.8	296.7	296.7	296.7	296.8
36°	293.7	293.6	293.7	293.6	293.7	293.6	293.7	293.6	293.7	293.6	293.7
36.5°	290.6	290.6	290.7	290.6	290.6	290.6	290.7	290.6	290.6	290.6	290.7
37°	287.4	287.4	287.5	287.4	287.5	287.4	287.5	287.4	287.4	287.4	287.5
37.5°	284.3	284.4	284.4	284.3	284.3	284.3	284.4	284.4	284.3	284.4	284.4
38°	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1	281.1
38.5°	277.8	277.9	277.9	277.8	277.8	277.8	277.9	277.9	277.8	277.9	277.9
39°	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7
39.5°	271.3	271.4	271.4	271.3	271.4	271.3	271.4	271.4	271.3	271.4	271.4
40°	268.0	268.0	268.0	267.9	267.9	267.9	268.0	268.0	268.0	268.0	268.0
40.5°	264.7	264.7	264.7	264.7	264.7	264.7	264.7	264.7	264.7	264.7	264.7
41°	261.3	261.3	261.3	261.3	261.2	261.3	261.3	261.3	261.3	261.3	261.3
41.5°	258.0	258.0	258.0	257.9	258.0	257.9	258.0	258.0	258.0	258.0	258.0
42°	254.5	254.5	254.5	254.5	254.5	254.5	254.5	254.5	254.5	254.5	254.5
42.5°	251.1	251.1	251.1	251.0	251.0	251.0	251.1	251.1	251.1	251.1	251.1
43°	247.6	247.7	247.7	247.6	247.7	247.6	247.7	247.7	247.6	247.7	247.7
43.5°	244.1	244.1	244.2	244.1	244.1	244.1	244.2	244.1	244.1	244.1	244.2
44°	240.6	240.7	240.7	240.6	240.6	240.6	240.7	240.7	240.6	240.7	240.7
44.5°	237.1	237.1	237.2	237.0	237.0	237.0	237.2	237.1	237.1	237.1	237.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	233.6	233.6	233.7	233.5	233.6	233.5	233.7	233.6	233.6	233.6	233.7
45.5°	230.1	230.0	230.1	230.0	230.0	230.0	230.1	230.0	230.1	230.0	230.1
46°	226.4	226.4	226.4	226.4	226.4	226.4	226.4	226.4	226.4	226.4	226.4
46.5°	222.8	222.9	222.9	222.8	222.8	222.8	222.9	222.9	222.8	222.9	222.9
47°	219.1	219.2	219.2	219.1	219.2	219.1	219.2	219.2	219.1	219.2	219.2
47.5°	215.6	215.6	215.6	215.5	215.6	215.5	215.6	215.6	215.6	215.6	215.6
48°	211.9	211.9	211.9	211.9	211.9	211.9	211.9	211.9	211.9	211.9	211.9
48.5°	208.3	208.3	208.3	208.2	208.3	208.2	208.3	208.3	208.3	208.3	208.3
49°	204.5	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.5	204.6	204.6
49.5°	200.8	200.8	200.9	200.8	200.9	200.8	200.9	200.8	200.8	200.8	200.9
50°	197.1	197.2	197.2	197.2	197.2	197.2	197.2	197.2	197.1	197.2	197.2
50.5°	193.4	193.4	193.5	193.4	193.4	193.4	193.5	193.4	193.4	193.4	193.5
51°	189.7	189.7	189.8	189.7	189.8	189.7	189.8	189.7	189.7	189.7	189.8
51.5°	186.0	185.9	186.0	185.9	186.0	185.9	186.0	185.9	186.0	185.9	186.0
52°	182.3	182.3	182.3	182.3	182.4	182.3	182.3	182.3	182.3	182.3	182.3
52.5°	178.5	178.4	178.5	178.5	178.5	178.5	178.5	178.4	178.5	178.4	178.5
53°	174.6	174.6	174.7	174.7	174.7	174.7	174.7	174.6	174.6	174.6	174.7
53.5°	170.9	170.9	170.9	170.9	171.0	170.9	170.9	170.9	170.9	170.9	170.9
54°	167.0	167.1	167.1	167.1	167.2	167.1	167.1	167.1	167.0	167.1	167.1
54.5°	163.3	163.3	163.4	163.4	163.5	163.4	163.4	163.3	163.3	163.3	163.4
55°	159.5	159.5	159.6	159.6	159.7	159.6	159.6	159.5	159.5	159.5	159.6
55.5°	155.7	155.8	155.8	155.8	155.9	155.8	155.8	155.8	155.7	155.8	155.8
56°	151.9	151.9	152.0	152.0	152.0	152.0	152.0	151.9	151.9	151.9	152.0
56.5°	148.2	148.2	148.3	148.3	148.3	148.3	148.3	148.2	148.2	148.2	148.3
57°	144.3	144.4	144.4	144.4	144.5	144.4	144.4	144.4	144.3	144.4	144.4
57.5°	140.5	140.5	140.5	140.6	140.7	140.6	140.5	140.5	140.5	140.5	140.5
58°	136.8	136.8	136.8	136.9	136.9	136.9	136.8	136.8	136.8	136.8	136.8
58.5°	132.9	132.9	133.0	133.0	133.1	133.0	133.0	132.9	132.9	132.9	133.0
59°	129.1	129.2	129.2	129.3	129.4	129.3	129.2	129.2	129.1	129.2	129.2
59.5°	125.3	125.4	125.4	125.5	125.6	125.5	125.4	125.4	125.3	125.4	125.4
60°	121.5	121.6	121.7	121.8	121.9	121.8	121.7	121.6	121.5	121.6	121.7
60.5°	117.7	117.8	117.9	118.0	118.1	118.0	117.9	117.8	117.7	117.8	117.9
61°	114.0	114.1	114.2	114.2	114.3	114.2	114.2	114.1	114.0	114.1	114.2
61.5°	110.2	110.3	110.4	110.5	110.6	110.5	110.4	110.3	110.2	110.3	110.4
62°	106.5	106.5	106.6	106.7	106.8	106.7	106.6	106.5	106.5	106.5	106.6
62.5°	102.8	102.9	103.0	103.1	103.1	103.1	103.0	102.9	102.8	102.9	103.0
63°	99.0	99.1	99.2	99.3	99.4	99.3	99.2	99.1	99.0	99.1	99.2
63.5°	95.4	95.4	95.6	95.7	95.8	95.7	95.6	95.4	95.4	95.4	95.6
64°	91.7	91.8	91.9	92.0	92.1	92.0	91.9	91.8	91.7	91.8	91.9
64.5°	88.1	88.3	88.4	88.5	88.6	88.5	88.4	88.3	88.1	88.3	88.4
65°	84.6	84.6	84.8	84.8	84.9	84.8	84.8	84.6	84.6	84.6	84.8
65.5°	80.9	81.0	81.1	81.2	81.3	81.2	81.1	81.0	80.9	81.0	81.1
66°	77.4	77.5	77.7	77.7	77.8	77.7	77.7	77.5	77.4	77.5	77.7
66.5°	73.9	74.0	74.1	74.2	74.3	74.2	74.1	74.0	73.9	74.0	74.1
67°	70.5	70.6	70.7	70.8	71.0	70.8	70.7	70.6	70.5	70.6	70.7

TEST NUMBER: P895724
 CATALOG NUMBER: RLWZC409-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	67.1	67.1	67.3	67.4	67.5	67.4	67.3	67.1	67.1	67.1	67.3
68°	63.7	63.8	63.9	64.0	64.2	64.0	63.9	63.8	63.7	63.8	63.9
68.5°	60.4	60.5	60.7	60.7	60.9	60.7	60.7	60.5	60.4	60.5	60.7
69°	57.1	57.2	57.4	57.5	57.7	57.5	57.4	57.2	57.1	57.2	57.4
69.5°	54.0	54.1	54.3	54.4	54.5	54.4	54.3	54.1	54.0	54.1	54.3
70°	50.8	50.9	51.2	51.3	51.4	51.3	51.2	50.9	50.8	50.9	51.2
70.5°	47.8	47.9	48.1	48.2	48.4	48.2	48.1	47.9	47.8	47.9	48.1
71°	45.0	45.1	45.3	45.4	45.6	45.4	45.3	45.1	45.0	45.1	45.3
71.5°	42.1	42.2	42.5	42.6	43.0	42.6	42.5	42.2	42.1	42.2	42.5
72°	39.4	39.5	39.8	39.9	40.3	39.9	39.8	39.5	39.4	39.5	39.8
72.5°	37.0	37.1	37.4	37.4	37.9	37.4	37.4	37.1	37.0	37.1	37.4
73°	34.6	34.7	34.8	34.9	35.3	34.9	34.8	34.7	34.6	34.7	34.8
73.5°	32.2	32.3	32.5	32.6	32.9	32.6	32.5	32.3	32.2	32.3	32.5
74°	30.0	30.2	30.4	30.6	30.8	30.6	30.4	30.2	30.0	30.2	30.4
74.5°	28.1	28.3	28.6	28.9	29.0	28.9	28.6	28.3	28.1	28.3	28.6
75°	26.3	26.4	26.7	27.1	27.3	27.1	26.7	26.4	26.3	26.4	26.7
75.5°	24.8	24.8	24.9	25.4	25.5	25.4	24.9	24.8	24.8	24.8	24.9
76°	23.3	23.3	23.4	23.7	23.9	23.7	23.4	23.3	23.3	23.3	23.4
76.5°	21.9	22.0	22.1	22.2	22.4	22.2	22.1	22.0	21.9	22.0	22.1
77°	20.7	20.8	21.0	21.0	21.1	21.0	21.0	20.8	20.7	20.8	21.0
77.5°	19.6	19.6	19.8	19.8	19.8	19.8	19.8	19.6	19.6	19.6	19.8
78°	18.5	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.5	18.5	18.6
78.5°	17.5	17.5	17.6	17.6	17.6	17.6	17.6	17.5	17.5	17.5	17.6
79°	16.5	16.5	16.5	16.6	16.6	16.6	16.5	16.5	16.5	16.5	16.5
79.5°	15.4	15.5	15.5	15.6	15.6	15.6	15.5	15.5	15.4	15.5	15.5
80°	14.4	14.5	14.5	14.6	14.6	14.6	14.5	14.5	14.4	14.5	14.5
80.5°	13.5	13.5	13.5	13.6	13.6	13.6	13.5	13.5	13.5	13.5	13.5
81°	12.6	12.6	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.7
81.5°	11.6	11.7	11.7	11.7	11.8	11.7	11.7	11.7	11.6	11.7	11.7
82°	10.7	10.7	10.7	10.8	10.8	10.8	10.7	10.7	10.7	10.7	10.7
82.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
83°	8.8	8.8	8.9	9.0	9.0	9.0	8.9	8.8	8.8	8.8	8.9
83.5°	7.9	7.9	8.0	8.0	8.1	8.0	8.0	7.9	7.9	7.9	8.0
84°	7.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.0	7.1	7.1
84.5°	6.2	6.2	6.2	6.3	6.3	6.3	6.2	6.2	6.2	6.2	6.2
85°	5.3	5.3	5.4	5.4	5.5	5.4	5.4	5.3	5.3	5.3	5.4
85.5°	4.4	4.5	4.6	4.6	4.7	4.6	4.6	4.5	4.4	4.5	4.6
86°	3.7	3.8	3.8	3.9	4.0	3.9	3.8	3.8	3.7	3.8	3.8
86.5°	2.9	3.0	3.0	3.1	3.2	3.1	3.0	3.0	2.9	3.0	3.0
87°	2.2	2.2	2.3	2.4	2.5	2.4	2.3	2.2	2.2	2.2	2.3
87.5°	1.5	1.5	1.7	1.8	1.9	1.8	1.7	1.5	1.5	1.5	1.7
88°	0.8	1.0	1.2	1.4	1.6	1.4	1.2	1.0	0.8	1.0	1.2
88.5°	0.4	0.5	0.7	1.0	1.2	1.0	0.7	0.5	0.4	0.5	0.7
89°	0.2	0.2	0.4	0.6	0.7	0.6	0.4	0.2	0.2	0.2	0.4
89.5°	0.0	0.1	0.2	0.3	0.4	0.3	0.2	0.1	0.0	0.1	0.2

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P895724
CATALOG NUMBER: RLWZC409-4000K

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: P895724
 CATALOG NUMBER: RLWZC409-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	405.0	405.0	405.0	405.0	405.0	405.0
0.5°	405.0	405.0	405.0	405.0	404.9	404.9
1°	404.9	405.0	404.9	404.9	404.8	404.8
1.5°	404.8	404.9	404.8	404.8	404.7	404.7
2°	404.6	404.7	404.6	404.6	404.6	404.5
2.5°	404.5	404.5	404.5	404.4	404.4	404.4
3°	404.2	404.3	404.2	404.2	404.2	404.1
3.5°	404.0	404.0	404.0	404.0	403.9	403.9
4°	403.7	403.8	403.7	403.7	403.7	403.7
4.5°	403.4	403.5	403.4	403.4	403.3	403.3
5°	403.0	403.1	403.0	403.0	402.9	402.8
5.5°	402.5	402.6	402.5	402.6	402.5	402.4
6°	402.1	402.2	402.1	402.1	402.0	401.9
6.5°	401.5	401.7	401.5	401.5	401.5	401.4
7°	401.0	401.1	401.0	401.0	400.9	400.8
7.5°	400.4	400.5	400.4	400.4	400.3	400.2
8°	399.7	399.9	399.7	399.7	399.7	399.6
8.5°	399.1	399.1	399.1	399.1	399.0	398.9
9°	398.4	398.4	398.4	398.3	398.3	398.2
9.5°	397.6	397.7	397.6	397.6	397.5	397.5
10°	396.8	396.9	396.8	396.8	396.7	396.6
10.5°	396.0	396.1	396.0	395.9	395.9	395.8
11°	395.2	395.3	395.2	395.2	395.1	395.0
11.5°	394.3	394.4	394.3	394.3	394.2	394.1
12°	393.3	393.4	393.3	393.3	393.2	393.2
12.5°	392.3	392.4	392.3	392.3	392.2	392.2
13°	391.3	391.4	391.3	391.3	391.2	391.2
13.5°	390.2	390.3	390.2	390.2	390.1	390.1
14°	389.2	389.2	389.2	389.1	389.0	389.0
14.5°	388.0	388.1	388.0	388.0	387.9	387.8
15°	386.9	386.9	386.9	386.9	386.8	386.8
15.5°	385.7	385.8	385.7	385.7	385.6	385.6
16°	384.4	384.5	384.4	384.4	384.3	384.3
16.5°	383.0	383.1	383.0	383.1	383.0	383.0
17°	381.6	381.7	381.6	381.7	381.7	381.6
17.5°	380.2	380.2	380.2	380.2	380.2	380.1
18°	378.7	378.7	378.7	378.7	378.7	378.6
18.5°	377.2	377.3	377.2	377.2	377.2	377.1
19°	375.6	375.7	375.6	375.6	375.5	375.4
19.5°	373.9	374.0	373.9	373.9	373.8	373.8
20°	372.2	372.3	372.2	372.2	372.1	372.0
20.5°	370.4	370.5	370.4	370.4	370.3	370.2
21°	368.6	368.7	368.6	368.7	368.5	368.5
21.5°	366.7	366.8	366.7	366.8	366.7	366.6
22°	364.8	365.0	364.8	364.9	364.8	364.7

TEST NUMBER: P895724
 CATALOG NUMBER: RLWZC409-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	362.9	363.0	362.9	362.9	362.8	362.7
23°	361.0	361.1	361.0	361.0	360.9	360.8
23.5°	358.9	359.0	358.9	358.9	358.8	358.8
24°	356.8	356.9	356.8	356.8	356.7	356.6
24.5°	354.6	354.8	354.6	354.6	354.5	354.4
25°	352.5	352.6	352.5	352.5	352.4	352.4
25.5°	350.3	350.3	350.3	350.3	350.2	350.1
26°	348.0	348.1	348.0	348.0	347.9	347.8
26.5°	345.6	345.7	345.6	345.6	345.5	345.5
27°	343.3	343.5	343.3	343.4	343.2	343.2
27.5°	340.9	341.0	340.9	340.9	340.8	340.7
28°	338.4	338.5	338.4	338.4	338.3	338.3
28.5°	335.9	336.0	335.9	335.9	335.9	335.9
29°	333.4	333.5	333.4	333.4	333.3	333.3
29.5°	330.8	330.9	330.8	330.8	330.7	330.7
30°	328.1	328.2	328.1	328.2	328.1	328.0
30.5°	325.5	325.6	325.5	325.6	325.5	325.4
31°	322.8	322.9	322.8	322.8	322.7	322.7
31.5°	320.0	320.0	320.0	320.0	320.0	319.9
32°	317.2	317.3	317.2	317.3	317.2	317.2
32.5°	314.4	314.5	314.4	314.5	314.4	314.4
33°	311.5	311.6	311.5	311.6	311.5	311.5
33.5°	308.7	308.8	308.7	308.8	308.7	308.7
34°	305.7	305.8	305.7	305.8	305.7	305.7
34.5°	302.7	302.8	302.7	302.8	302.7	302.7
35°	299.8	299.9	299.8	299.8	299.8	299.7
35.5°	296.7	296.8	296.7	296.8	296.7	296.7
36°	293.6	293.7	293.6	293.7	293.6	293.7
36.5°	290.6	290.6	290.6	290.7	290.6	290.6
37°	287.4	287.5	287.4	287.5	287.4	287.4
37.5°	284.3	284.3	284.3	284.4	284.4	284.3
38°	281.1	281.1	281.1	281.1	281.1	281.1
38.5°	277.8	277.8	277.8	277.9	277.9	277.8
39°	274.7	274.7	274.7	274.7	274.7	274.7
39.5°	271.3	271.4	271.3	271.4	271.4	271.3
40°	267.9	267.9	267.9	268.0	268.0	268.0
40.5°	264.7	264.7	264.7	264.7	264.7	264.7
41°	261.3	261.2	261.3	261.3	261.3	261.3
41.5°	257.9	258.0	257.9	258.0	258.0	258.0
42°	254.5	254.5	254.5	254.5	254.5	254.5
42.5°	251.0	251.0	251.0	251.1	251.1	251.1
43°	247.6	247.7	247.6	247.7	247.7	247.6
43.5°	244.1	244.1	244.1	244.2	244.1	244.1
44°	240.6	240.6	240.6	240.7	240.7	240.6
44.5°	237.0	237.0	237.0	237.2	237.1	237.1

TEST NUMBER: P895724
 CATALOG NUMBER: RLWZC409-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	233.5	233.6	233.5	233.7	233.6	233.6
45.5°	230.0	230.0	230.0	230.1	230.0	230.1
46°	226.4	226.4	226.4	226.4	226.4	226.4
46.5°	222.8	222.8	222.8	222.9	222.9	222.8
47°	219.1	219.2	219.1	219.2	219.2	219.1
47.5°	215.5	215.6	215.5	215.6	215.6	215.6
48°	211.9	211.9	211.9	211.9	211.9	211.9
48.5°	208.2	208.3	208.2	208.3	208.3	208.3
49°	204.6	204.6	204.6	204.6	204.6	204.5
49.5°	200.8	200.9	200.8	200.9	200.8	200.8
50°	197.2	197.2	197.2	197.2	197.2	197.1
50.5°	193.4	193.4	193.4	193.5	193.4	193.4
51°	189.7	189.8	189.7	189.8	189.7	189.7
51.5°	185.9	186.0	185.9	186.0	185.9	186.0
52°	182.3	182.4	182.3	182.3	182.3	182.3
52.5°	178.5	178.5	178.5	178.5	178.4	178.5
53°	174.7	174.7	174.7	174.7	174.6	174.6
53.5°	170.9	171.0	170.9	170.9	170.9	170.9
54°	167.1	167.2	167.1	167.1	167.1	167.0
54.5°	163.4	163.5	163.4	163.4	163.3	163.3
55°	159.6	159.7	159.6	159.6	159.5	159.5
55.5°	155.8	155.9	155.8	155.8	155.8	155.7
56°	152.0	152.0	152.0	152.0	151.9	151.9
56.5°	148.3	148.3	148.3	148.3	148.2	148.2
57°	144.4	144.5	144.4	144.4	144.4	144.3
57.5°	140.6	140.7	140.6	140.5	140.5	140.5
58°	136.9	136.9	136.9	136.8	136.8	136.8
58.5°	133.0	133.1	133.0	133.0	132.9	132.9
59°	129.3	129.4	129.3	129.2	129.2	129.1
59.5°	125.5	125.6	125.5	125.4	125.4	125.3
60°	121.8	121.9	121.8	121.7	121.6	121.5
60.5°	118.0	118.1	118.0	117.9	117.8	117.7
61°	114.2	114.3	114.2	114.2	114.1	114.0
61.5°	110.5	110.6	110.5	110.4	110.3	110.2
62°	106.7	106.8	106.7	106.6	106.5	106.5
62.5°	103.1	103.1	103.1	103.0	102.9	102.8
63°	99.3	99.4	99.3	99.2	99.1	99.0
63.5°	95.7	95.8	95.7	95.6	95.4	95.4
64°	92.0	92.1	92.0	91.9	91.8	91.7
64.5°	88.5	88.6	88.5	88.4	88.3	88.1
65°	84.8	84.9	84.8	84.8	84.6	84.6
65.5°	81.2	81.3	81.2	81.1	81.0	80.9
66°	77.7	77.8	77.7	77.7	77.5	77.4
66.5°	74.2	74.3	74.2	74.1	74.0	73.9
67°	70.8	71.0	70.8	70.7	70.6	70.5

TEST NUMBER: P895724
 CATALOG NUMBER: RLWZC409-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	67.4	67.5	67.4	67.3	67.1	67.1
68°	64.0	64.2	64.0	63.9	63.8	63.7
68.5°	60.7	60.9	60.7	60.7	60.5	60.4
69°	57.5	57.7	57.5	57.4	57.2	57.1
69.5°	54.4	54.5	54.4	54.3	54.1	54.0
70°	51.3	51.4	51.3	51.2	50.9	50.8
70.5°	48.2	48.4	48.2	48.1	47.9	47.8
71°	45.4	45.6	45.4	45.3	45.1	45.0
71.5°	42.6	43.0	42.6	42.5	42.2	42.1
72°	39.9	40.3	39.9	39.8	39.5	39.4
72.5°	37.4	37.9	37.4	37.4	37.1	37.0
73°	34.9	35.3	34.9	34.8	34.7	34.6
73.5°	32.6	32.9	32.6	32.5	32.3	32.2
74°	30.6	30.8	30.6	30.4	30.2	30.0
74.5°	28.9	29.0	28.9	28.6	28.3	28.1
75°	27.1	27.3	27.1	26.7	26.4	26.3
75.5°	25.4	25.5	25.4	24.9	24.8	24.8
76°	23.7	23.9	23.7	23.4	23.3	23.3
76.5°	22.2	22.4	22.2	22.1	22.0	21.9
77°	21.0	21.1	21.0	21.0	20.8	20.7
77.5°	19.8	19.8	19.8	19.8	19.6	19.6
78°	18.7	18.7	18.7	18.6	18.5	18.5
78.5°	17.6	17.6	17.6	17.6	17.5	17.5
79°	16.6	16.6	16.6	16.5	16.5	16.5
79.5°	15.6	15.6	15.6	15.5	15.5	15.4
80°	14.6	14.6	14.6	14.5	14.5	14.4
80.5°	13.6	13.6	13.6	13.5	13.5	13.5
81°	12.7	12.7	12.7	12.7	12.6	12.6
81.5°	11.7	11.8	11.7	11.7	11.7	11.6
82°	10.8	10.8	10.8	10.7	10.7	10.7
82.5°	9.8	9.8	9.8	9.8	9.8	9.8
83°	9.0	9.0	9.0	8.9	8.8	8.8
83.5°	8.0	8.1	8.0	8.0	7.9	7.9
84°	7.1	7.1	7.1	7.1	7.1	7.0
84.5°	6.3	6.3	6.3	6.2	6.2	6.2
85°	5.4	5.5	5.4	5.4	5.3	5.3
85.5°	4.6	4.7	4.6	4.6	4.5	4.4
86°	3.9	4.0	3.9	3.8	3.8	3.7
86.5°	3.1	3.2	3.1	3.0	3.0	2.9
87°	2.4	2.5	2.4	2.3	2.2	2.2
87.5°	1.8	1.9	1.8	1.7	1.5	1.5
88°	1.4	1.6	1.4	1.2	1.0	0.8
88.5°	1.0	1.2	1.0	0.7	0.5	0.4
89°	0.6	0.7	0.6	0.4	0.2	0.2
89.5°	0.3	0.4	0.3	0.2	0.1	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: P895724
CATALOG NUMBER: RLWZC409-4000K

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)