

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P971887

Luminaire Tested: RLWZDZC4-5000K

Issue Date: 2/18/2025

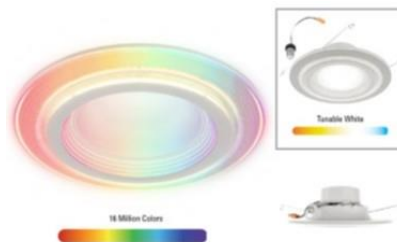
Test Information

Test Method: LM-79-2019
Report Number: P971887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2411280A001-main light)
Test Lab:
Issue Date: 2/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RLWZDZC4-5000K
Description: RLDZ4" Canless 700lm, WiZ RGBW, 120V, WH, with NIGHTLIGHT
Light Source: WiZ RGBW CONTROLLED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 745.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.34
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

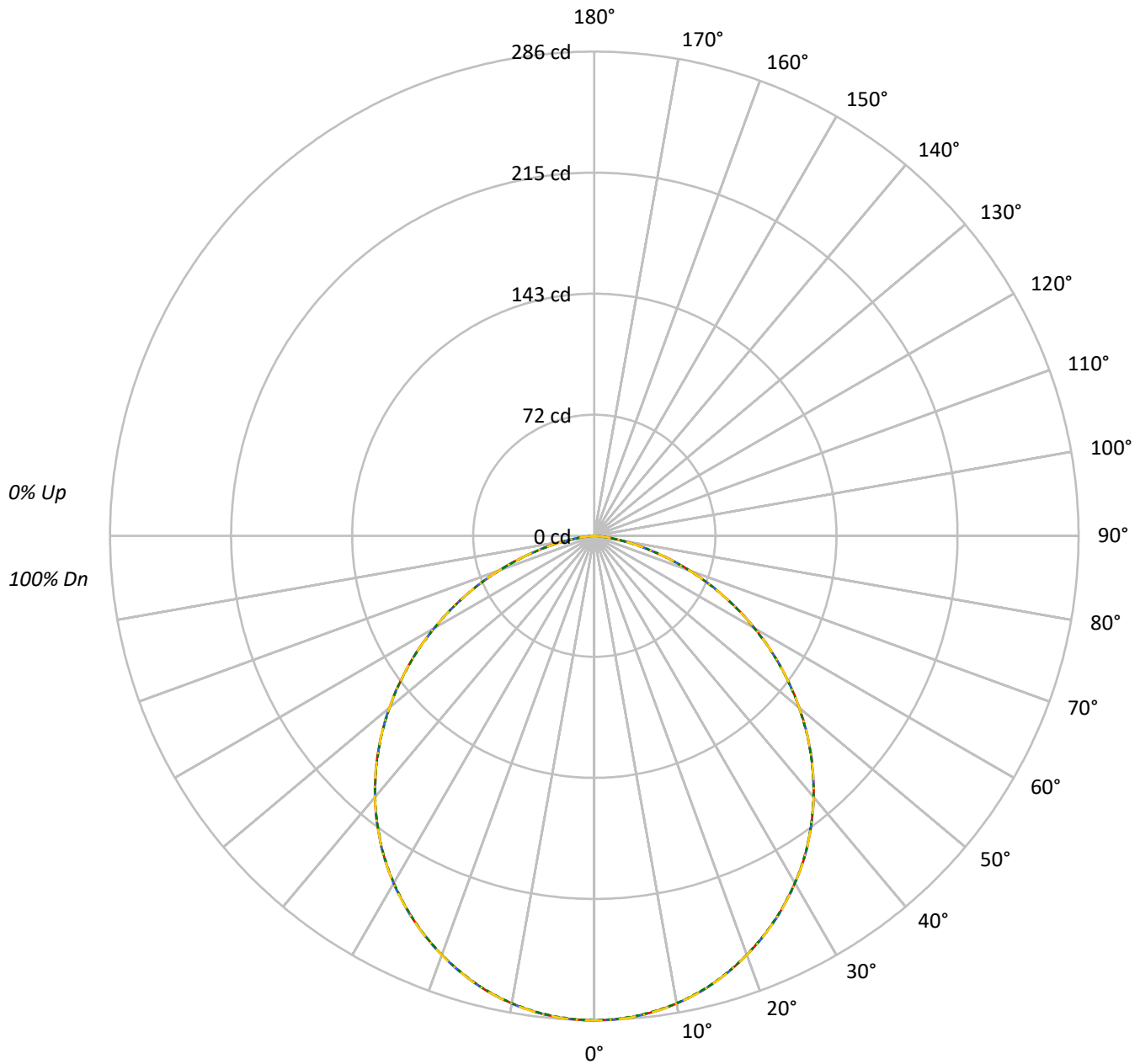
Input Watts (W): 8.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P971887

CATALOG NUMBER: RLWZDZC4-5000K

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	36031	36031	36031	36031
5°	35979	35954	35979	35954
10°	35845	35820	35845	35820
15°	35621	35595	35621	35595
20°	35276	35263	35276	35263
25°	34895	34868	34895	34868
30°	34441	34411	34441	34411
35°	33861	33846	33861	33846
40°	33103	33071	33103	33071
45°	32143	32090	32143	32090
50°	30934	30876	30934	30876
55°	29423	29357	29423	29357
60°	27511	27460	27511	27460
65°	25133	25044	25133	25044
70°	21967	21857	21967	21857
75°	17651	17602	17651	17602
80°	12176	11958	12176	11958
85°	6065	5920	6065	5920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 32143 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	3.6
10°-20°	77.1	10.3
20°-30°	115.8	15.5
30°-40°	137.8	18.5
40°-50°	139.1	18.7
50°-60°	119.7	16.1
60°-70°	83.4	11.2
70°-80°	38.9	5.2
80°-90°	6.2	0.8
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°	219.9	29.5
0°-40°	357.7	48.0
0°-60°	616.5	82.8
0°-90°	745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	745.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	286	286	286	286	286	
5°	285	285	285	285	285	27
15°	273	273	273	273	273	77
25°	251	251	251	251	251	116
35°	220	220	220	220	220	138
45°	181	180	181	180	181	139
55°	134	134	134	134	134	120
65°	84	84	84	84	84	83
75°	36	36	36	36	36	39
85°	4	4	4	4	4	6
90°	0	0	0	0	0	

TEST NUMBER: P971887

CATALOG NUMBER: RLWZDZC4-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	286.3	286.3	286.3	286.3	286.3	286.3	286.3	286.3	286.3	286.3	286.3
0.5°	286.3	286.3	286.3	286.4	286.0	286.4	286.3	286.3	286.3	286.3	286.3
1°	286.2	286.2	286.3	286.4	286.0	286.4	286.3	286.2	286.2	286.2	286.3
1.5°	286.1	286.1	286.2	286.3	285.9	286.3	286.2	286.1	286.1	286.1	286.2
2°	286.0	286.0	286.1	286.2	285.8	286.2	286.1	286.0	286.0	286.0	286.1
2.5°	285.9	285.9	286.0	286.1	285.7	286.1	286.0	285.9	285.9	285.9	286.0
3°	285.7	285.8	285.9	285.9	285.5	285.9	285.9	285.8	285.7	285.8	285.9
3.5°	285.6	285.6	285.7	285.7	285.3	285.7	285.7	285.6	285.6	285.6	285.7
4°	285.4	285.3	285.5	285.5	285.1	285.5	285.5	285.3	285.4	285.3	285.5
4.5°	285.1	285.1	285.2	285.3	284.9	285.3	285.2	285.1	285.1	285.1	285.2
5°	284.8	284.8	284.9	285.0	284.6	285.0	284.9	284.8	284.8	284.8	284.9
5.5°	284.5	284.5	284.6	284.7	284.3	284.7	284.6	284.5	284.5	284.5	284.6
6°	284.2	284.2	284.3	284.4	283.9	284.4	284.3	284.2	284.2	284.2	284.3
6.5°	283.8	283.8	283.9	284.0	283.6	284.0	283.9	283.8	283.8	283.8	283.9
7°	283.5	283.5	283.5	283.6	283.2	283.6	283.5	283.5	283.5	283.5	283.5
7.5°	283.0	283.0	283.1	283.2	282.8	283.2	283.1	283.0	283.0	283.0	283.1
8°	282.6	282.6	282.7	282.7	282.3	282.7	282.7	282.6	282.6	282.6	282.7
8.5°	282.1	282.1	282.2	282.3	281.9	282.3	282.2	282.1	282.1	282.1	282.2
9°	281.6	281.6	281.7	281.8	281.4	281.8	281.7	281.6	281.6	281.6	281.7
9.5°	281.1	281.1	281.2	281.3	280.9	281.3	281.2	281.1	281.1	281.1	281.2
10°	280.5	280.5	280.6	280.7	280.3	280.7	280.6	280.5	280.5	280.5	280.6
10.5°	279.9	280.0	280.0	280.1	279.7	280.1	280.0	280.0	279.9	280.0	280.0
11°	279.3	279.3	279.4	279.5	279.1	279.5	279.4	279.3	279.3	279.3	279.4
11.5°	278.7	278.7	278.8	278.9	278.5	278.9	278.8	278.7	278.7	278.7	278.8
12°	278.0	278.0	278.1	278.2	277.8	278.2	278.1	278.0	278.0	278.0	278.1
12.5°	277.3	277.3	277.4	277.5	277.1	277.5	277.4	277.3	277.3	277.3	277.4
13°	276.6	276.6	276.7	276.8	276.4	276.8	276.7	276.6	276.6	276.6	276.7
13.5°	275.9	275.8	275.9	276.0	275.6	276.0	275.9	275.8	275.9	275.8	275.9
14°	275.1	275.1	275.1	275.2	274.9	275.2	275.1	275.1	275.1	275.1	275.1
14.5°	274.2	274.2	274.3	274.4	274.0	274.4	274.3	274.2	274.2	274.2	274.3
15°	273.4	273.4	273.5	273.6	273.2	273.6	273.5	273.4	273.4	273.4	273.5
15.5°	272.5	272.5	272.6	272.7	272.3	272.7	272.6	272.5	272.5	272.5	272.6
16°	271.6	271.6	271.7	271.8	271.4	271.8	271.7	271.6	271.6	271.6	271.7
16.5°	270.6	270.6	270.7	270.8	270.4	270.8	270.7	270.6	270.6	270.6	270.7
17°	269.7	269.6	269.7	269.8	269.5	269.8	269.7	269.6	269.7	269.6	269.7
17.5°	268.7	268.7	268.8	268.9	268.5	268.9	268.8	268.7	268.7	268.7	268.8
18°	267.7	267.7	267.8	267.9	267.5	267.9	267.8	267.7	267.7	267.7	267.8
18.5°	266.6	266.6	266.7	266.8	266.5	266.8	266.7	266.6	266.6	266.6	266.7
19°	265.6	265.6	265.7	265.8	265.4	265.8	265.7	265.6	265.6	265.6	265.7
19.5°	264.5	264.5	264.6	264.7	264.4	264.7	264.6	264.5	264.5	264.5	264.6
20°	263.4	263.4	263.6	263.7	263.3	263.7	263.6	263.4	263.4	263.4	263.6
20.5°	262.3	262.3	262.4	262.6	262.2	262.6	262.4	262.3	262.3	262.3	262.4
21°	261.2	261.2	261.3	261.4	261.0	261.4	261.3	261.2	261.2	261.2	261.3

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CATALOG NUMBER: RLWZDZC4-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	257.6	257.6	257.8	257.8	257.5	257.8	257.8	257.6	257.6	257.6	257.8
23°	256.4	256.4	256.5	256.6	256.3	256.6	256.5	256.4	256.4	256.4	256.5
23.5°	255.2	255.2	255.3	255.4	255.0	255.4	255.3	255.2	255.2	255.2	255.3
24°	253.9	253.9	254.0	254.1	253.8	254.1	254.0	253.9	253.9	253.9	254.0
24.5°	252.6	252.6	252.7	252.8	252.4	252.8	252.7	252.6	252.6	252.6	252.7
25°	251.3	251.3	251.4	251.5	251.1	251.5	251.4	251.3	251.3	251.3	251.4
25.5°	250.0	250.0	250.0	250.1	249.8	250.1	250.0	250.0	250.0	250.0	250.0
26°	248.6	248.6	248.7	248.8	248.4	248.8	248.7	248.6	248.6	248.6	248.7
26.5°	247.2	247.2	247.3	247.4	247.0	247.4	247.3	247.2	247.2	247.2	247.3
27°	245.8	245.8	245.9	246.0	245.7	246.0	245.9	245.8	245.8	245.8	245.9
27.5°	244.3	244.3	244.4	244.5	244.2	244.5	244.4	244.3	244.3	244.3	244.4
28°	242.9	242.9	243.0	243.0	242.7	243.0	243.0	242.9	242.9	242.9	243.0
28.5°	241.4	241.4	241.5	241.6	241.3	241.6	241.5	241.4	241.4	241.4	241.5
29°	240.0	240.0	240.1	240.1	239.8	240.1	240.1	240.0	240.0	240.0	240.1
29.5°	238.5	238.5	238.6	238.6	238.3	238.6	238.6	238.5	238.5	238.5	238.6
30°	237.0	237.0	237.1	237.1	236.8	237.1	237.1	237.0	237.0	237.0	237.1
30.5°	235.4	235.4	235.5	235.6	235.2	235.6	235.5	235.4	235.4	235.4	235.5
31°	233.9	233.9	233.9	234.0	233.7	234.0	233.9	233.9	233.9	233.9	233.9
31.5°	232.3	232.3	232.4	232.4	232.1	232.4	232.4	232.3	232.3	232.3	232.4
32°	230.7	230.7	230.7	230.8	230.5	230.8	230.7	230.7	230.7	230.7	230.7
32.5°	229.1	229.0	229.1	229.2	228.8	229.2	229.1	229.0	229.1	229.0	229.1
33°	227.4	227.4	227.4	227.5	227.2	227.5	227.4	227.4	227.4	227.4	227.4
33.5°	225.7	225.7	225.7	225.8	225.5	225.8	225.7	225.7	225.7	225.7	225.7
34°	224.0	223.9	224.0	224.1	223.7	224.1	224.0	223.9	224.0	223.9	224.0
34.5°	222.2	222.2	222.3	222.3	222.0	222.3	222.3	222.2	222.2	222.2	222.3
35°	220.4	220.4	220.5	220.6	220.3	220.6	220.5	220.4	220.4	220.4	220.5
35.5°	218.6	218.5	218.6	218.6	218.3	218.6	218.6	218.5	218.6	218.5	218.6
36°	216.7	216.7	216.8	216.8	216.5	216.8	216.8	216.7	216.7	216.7	216.8
36.5°	214.9	214.9	215.0	215.0	214.7	215.0	215.0	214.9	214.9	214.9	215.0
37°	213.0	213.0	213.1	213.2	212.9	213.2	213.1	213.0	213.0	213.0	213.1
37.5°	211.2	211.1	211.2	211.3	211.0	211.3	211.2	211.1	211.2	211.1	211.2
38°	209.3	209.2	209.4	209.4	209.1	209.4	209.4	209.2	209.3	209.2	209.4
38.5°	207.4	207.4	207.4	207.5	207.2	207.5	207.4	207.4	207.4	207.4	207.4
39°	205.5	205.4	205.5	205.5	205.3	205.5	205.5	205.4	205.5	205.4	205.5
39.5°	203.5	203.5	203.5	203.6	203.3	203.6	203.5	203.5	203.5	203.5	203.5
40°	201.5	201.5	201.6	201.6	201.3	201.6	201.6	201.5	201.5	201.5	201.6
40.5°	199.5	199.5	199.6	199.6	199.3	199.6	199.6	199.5	199.5	199.5	199.6
41°	197.5	197.5	197.6	197.6	197.3	197.6	197.6	197.5	197.5	197.5	197.6
41.5°	195.4	195.4	195.5	195.5	195.2	195.5	195.5	195.4	195.4	195.4	195.5
42°	193.3	193.3	193.3	193.4	193.1	193.4	193.3	193.3	193.3	193.3	193.3
42.5°	191.2	191.2	191.3	191.3	191.0	191.3	191.3	191.2	191.2	191.2	191.3
43°	189.2	189.1	189.2	189.2	188.9	189.2	189.2	189.1	189.2	189.1	189.2
43.5°	187.0	187.0	187.1	187.1	186.8	187.1	187.1	187.0	187.0	187.0	187.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	180.6	180.6	180.6	180.6	180.3	180.6	180.6	180.6	180.6	180.6	180.6
45.5°	178.4	178.4	178.4	178.4	178.1	178.4	178.4	178.4	178.4	178.4	178.4
46°	176.2	176.2	176.2	176.2	175.9	176.2	176.2	176.2	176.2	176.2	176.2
46.5°	174.0	174.0	174.0	174.0	173.8	174.0	174.0	174.0	174.0	174.0	174.0
47°	171.7	171.7	171.8	171.8	171.5	171.8	171.8	171.7	171.7	171.7	171.8
47.5°	169.5	169.5	169.5	169.5	169.2	169.5	169.5	169.5	169.5	169.5	169.5
48°	167.2	167.2	167.2	167.2	166.9	167.2	167.2	167.2	167.2	167.2	167.2
48.5°	164.9	164.9	164.9	164.9	164.6	164.9	164.9	164.9	164.9	164.9	164.9
49°	162.6	162.6	162.6	162.6	162.3	162.6	162.6	162.6	162.6	162.6	162.6
49.5°	160.3	160.3	160.3	160.3	160.0	160.3	160.3	160.3	160.3	160.3	160.3
50°	158.0	158.0	158.0	158.0	157.7	158.0	158.0	158.0	158.0	158.0	158.0
50.5°	155.6	155.6	155.6	155.6	155.3	155.6	155.6	155.6	155.6	155.6	155.6
51°	153.3	153.3	153.3	153.3	153.0	153.3	153.3	153.3	153.3	153.3	153.3
51.5°	150.9	150.9	151.0	150.9	150.7	150.9	151.0	150.9	150.9	150.9	151.0
52°	148.6	148.6	148.6	148.6	148.3	148.6	148.6	148.6	148.6	148.6	148.6
52.5°	146.2	146.2	146.2	146.2	145.9	146.2	146.2	146.2	146.2	146.2	146.2
53°	143.8	143.8	143.8	143.8	143.5	143.8	143.8	143.8	143.8	143.8	143.8
53.5°	141.3	141.3	141.3	141.3	141.0	141.3	141.3	141.3	141.3	141.3	141.3
54°	138.9	138.9	138.9	138.9	138.7	138.9	138.9	138.9	138.9	138.9	138.9
54.5°	136.5	136.5	136.5	136.5	136.2	136.4	136.5	136.5	136.5	136.5	136.5
55°	134.1	134.1	134.1	134.1	133.8	134.0	134.1	134.1	134.1	134.1	134.1
55.5°	131.6	131.6	131.6	131.6	131.4	131.6	131.6	131.6	131.6	131.6	131.6
56°	129.2	129.2	129.2	129.2	129.0	129.1	129.2	129.2	129.2	129.2	129.2
56.5°	126.7	126.8	126.7	126.7	126.5	126.7	126.7	126.8	126.7	126.8	126.7
57°	124.3	124.3	124.3	124.3	124.0	124.2	124.3	124.3	124.3	124.3	124.3
57.5°	121.8	121.8	121.8	121.8	121.6	121.7	121.8	121.8	121.8	121.8	121.8
58°	119.4	119.4	119.3	119.3	119.1	119.3	119.3	119.4	119.4	119.4	119.3
58.5°	116.9	116.9	116.9	116.8	116.6	116.8	116.9	116.9	116.9	116.9	116.9
59°	114.3	114.3	114.3	114.2	114.0	114.2	114.3	114.3	114.3	114.3	114.3
59.5°	111.8	111.8	111.8	111.7	111.6	111.7	111.8	111.8	111.8	111.8	111.8
60°	109.3	109.4	109.3	109.3	109.1	109.3	109.3	109.4	109.3	109.4	109.3
60.5°	106.9	106.9	106.8	106.8	106.6	106.8	106.8	106.9	106.9	106.9	106.8
61°	104.4	104.4	104.3	104.3	104.1	104.3	104.3	104.4	104.4	104.4	104.3
61.5°	101.9	101.9	101.8	101.8	101.6	101.8	101.8	101.9	101.9	101.9	101.8
62°	99.4	99.4	99.3	99.3	99.2	99.3	99.3	99.4	99.4	99.4	99.3
62.5°	96.9	96.9	96.9	96.8	96.6	96.8	96.9	96.9	96.9	96.9	96.9
63°	94.4	94.4	94.4	94.3	94.1	94.3	94.4	94.4	94.4	94.4	94.4
63.5°	91.9	91.9	91.9	91.8	91.7	91.8	91.9	91.9	91.9	91.9	91.9
64°	89.3	89.3	89.3	89.3	89.1	89.3	89.3	89.3	89.3	89.3	89.3
64.5°	86.9	86.8	86.8	86.8	86.6	86.8	86.8	86.8	86.9	86.8	86.8
65°	84.4	84.4	84.3	84.3	84.1	84.3	84.3	84.4	84.4	84.4	84.3
65.5°	81.9	81.9	81.9	81.8	81.6	81.8	81.9	81.9	81.9	81.9	81.9
66°	79.4	79.4	79.4	79.3	79.2	79.3	79.4	79.4	79.4	79.4	79.4

TEST NUMBER: P971887

CATALOG NUMBER: RLWZDZC4-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	72.0	72.0	71.9	71.9	71.8	71.9	71.9	72.0	72.0	72.0	71.9
68°	69.6	69.5	69.5	69.4	69.3	69.4	69.5	69.5	69.6	69.5	69.5
68.5°	67.1	67.1	67.0	67.0	66.8	67.0	67.0	67.1	67.1	67.1	67.0
69°	64.7	64.7	64.6	64.4	64.3	64.4	64.6	64.7	64.7	64.7	64.6
69.5°	62.1	62.1	62.0	62.0	61.8	62.0	62.0	62.1	62.1	62.1	62.0
70°	59.7	59.7	59.6	59.6	59.4	59.6	59.6	59.7	59.7	59.7	59.6
70.5°	57.3	57.3	57.2	57.1	57.0	57.1	57.2	57.3	57.3	57.3	57.2
71°	54.9	54.9	54.8	54.8	54.6	54.8	54.8	54.9	54.9	54.9	54.8
71.5°	52.5	52.5	52.4	52.4	52.2	52.4	52.4	52.5	52.5	52.5	52.4
72°	50.2	50.2	50.1	50.0	49.9	50.0	50.1	50.2	50.2	50.2	50.1
72.5°	47.8	47.8	47.7	47.7	47.5	47.7	47.7	47.8	47.8	47.8	47.7
73°	45.5	45.5	45.4	45.3	45.2	45.3	45.4	45.5	45.5	45.5	45.4
73.5°	43.2	43.2	43.1	43.0	42.9	43.0	43.1	43.2	43.2	43.2	43.1
74°	40.9	40.9	40.8	40.8	40.6	40.8	40.8	40.9	40.9	40.9	40.8
74.5°	38.6	38.6	38.5	38.4	38.4	38.4	38.5	38.6	38.6	38.6	38.5
75°	36.3	36.4	36.4	36.2	36.2	36.2	36.4	36.4	36.3	36.4	36.4
75.5°	34.2	34.2	34.2	34.0	34.0	34.0	34.2	34.2	34.2	34.2	34.2
76°	32.0	32.1	32.0	31.9	31.8	31.9	32.0	32.1	32.0	32.1	32.0
76.5°	30.1	30.0	29.9	29.8	29.7	29.8	29.9	30.0	30.1	30.0	29.9
77°	28.1	28.0	27.9	27.8	27.6	27.8	27.9	28.0	28.1	28.0	27.9
77.5°	26.1	26.0	25.9	25.8	25.7	25.8	25.9	26.0	26.1	26.0	25.9
78°	24.1	24.0	23.9	23.8	23.7	23.8	23.9	24.0	24.1	24.0	23.9
78.5°	22.1	22.1	22.0	21.9	21.8	21.9	22.0	22.1	22.1	22.1	22.0
79°	20.3	20.3	20.2	20.1	20.0	20.1	20.2	20.3	20.3	20.3	20.2
79.5°	18.5	18.5	18.4	18.3	18.2	18.3	18.4	18.5	18.5	18.5	18.4
80°	16.8	16.8	16.7	16.6	16.5	16.6	16.7	16.8	16.8	16.8	16.7
80.5°	15.2	15.2	15.1	15.0	14.9	15.0	15.1	15.2	15.2	15.2	15.1
81°	13.6	13.7	13.6	13.5	13.3	13.5	13.6	13.7	13.6	13.7	13.6
81.5°	12.1	12.1	12.0	11.9	11.7	11.9	12.0	12.1	12.1	12.1	12.0
82°	10.7	10.8	10.7	10.5	10.3	10.5	10.7	10.8	10.7	10.8	10.7
82.5°	9.4	9.5	9.4	9.3	9.1	9.3	9.4	9.5	9.4	9.5	9.4
83°	8.1	8.2	8.1	8.0	8.0	8.0	8.1	8.2	8.1	8.2	8.1
83.5°	6.9	7.1	7.0	6.9	6.9	6.9	7.0	7.1	6.9	7.1	7.0
84°	5.9	6.0	5.9	5.9	5.8	5.9	5.9	6.0	5.9	6.0	5.9
84.5°	5.0	5.1	5.0	4.9	4.8	4.9	5.0	5.1	5.0	5.1	5.0
85°	4.2	4.3	4.2	4.1	4.1	4.1	4.2	4.3	4.2	4.3	4.2
85.5°	3.5	3.5	3.6	3.5	3.4	3.5	3.6	3.5	3.5	3.5	3.6
86°	2.9	3.0	3.0	2.9	2.8	2.9	3.0	3.0	2.9	3.0	3.0
86.5°	2.4	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4
87°	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.4
88°	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0
88.5°	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.6



TEST NUMBER: P971887
CATALOG NUMBER: RLWZDZC4-5000K

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: P971887

CATALOG NUMBER: RLWZDZC4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	286.3	286.3	286.3	286.3	286.3	286.3
0.5°	286.4	286.0	286.4	286.3	286.3	286.3
1°	286.4	286.0	286.4	286.3	286.2	286.2
1.5°	286.3	285.9	286.3	286.2	286.1	286.1
2°	286.2	285.8	286.2	286.1	286.0	286.0
2.5°	286.1	285.7	286.1	286.0	285.9	285.9
3°	285.9	285.5	285.9	285.9	285.8	285.7
3.5°	285.7	285.3	285.7	285.7	285.6	285.6
4°	285.5	285.1	285.5	285.5	285.3	285.4
4.5°	285.3	284.9	285.3	285.2	285.1	285.1
5°	285.0	284.6	285.0	284.9	284.8	284.8
5.5°	284.7	284.3	284.7	284.6	284.5	284.5
6°	284.4	283.9	284.4	284.3	284.2	284.2
6.5°	284.0	283.6	284.0	283.9	283.8	283.8
7°	283.6	283.2	283.6	283.5	283.5	283.5
7.5°	283.2	282.8	283.2	283.1	283.0	283.0
8°	282.7	282.3	282.7	282.7	282.6	282.6
8.5°	282.3	281.9	282.3	282.2	282.1	282.1
9°	281.8	281.4	281.8	281.7	281.6	281.6
9.5°	281.3	280.9	281.3	281.2	281.1	281.1
10°	280.7	280.3	280.7	280.6	280.5	280.5
10.5°	280.1	279.7	280.1	280.0	280.0	279.9
11°	279.5	279.1	279.5	279.4	279.3	279.3
11.5°	278.9	278.5	278.9	278.8	278.7	278.7
12°	278.2	277.8	278.2	278.1	278.0	278.0
12.5°	277.5	277.1	277.5	277.4	277.3	277.3
13°	276.8	276.4	276.8	276.7	276.6	276.6
13.5°	276.0	275.6	276.0	275.9	275.8	275.9
14°	275.2	274.9	275.2	275.1	275.1	275.1
14.5°	274.4	274.0	274.4	274.3	274.2	274.2
15°	273.6	273.2	273.6	273.5	273.4	273.4
15.5°	272.7	272.3	272.7	272.6	272.5	272.5
16°	271.8	271.4	271.8	271.7	271.6	271.6
16.5°	270.8	270.4	270.8	270.7	270.6	270.6
17°	269.8	269.5	269.8	269.7	269.6	269.7
17.5°	268.9	268.5	268.9	268.8	268.7	268.7
18°	267.9	267.5	267.9	267.8	267.7	267.7
18.5°	266.8	266.5	266.8	266.7	266.6	266.6
19°	265.8	265.4	265.8	265.7	265.6	265.6
19.5°	264.7	264.4	264.7	264.6	264.5	264.5
20°	263.7	263.3	263.7	263.6	263.4	263.4
20.5°	262.6	262.2	262.6	262.4	262.3	262.3
21°	261.4	261.0	261.4	261.3	261.2	261.2



TEST NUMBER: P971887

CATALOG NUMBER: RLWZDZC4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	257.8	257.5	257.8	257.8	257.6	257.6
23°	256.6	256.3	256.6	256.5	256.4	256.4
23.5°	255.4	255.0	255.4	255.3	255.2	255.2
24°	254.1	253.8	254.1	254.0	253.9	253.9
24.5°	252.8	252.4	252.8	252.7	252.6	252.6
25°	251.5	251.1	251.5	251.4	251.3	251.3
25.5°	250.1	249.8	250.1	250.0	250.0	250.0
26°	248.8	248.4	248.8	248.7	248.6	248.6
26.5°	247.4	247.0	247.4	247.3	247.2	247.2
27°	246.0	245.7	246.0	245.9	245.8	245.8
27.5°	244.5	244.2	244.5	244.4	244.3	244.3
28°	243.0	242.7	243.0	243.0	242.9	242.9
28.5°	241.6	241.3	241.6	241.5	241.4	241.4
29°	240.1	239.8	240.1	240.1	240.0	240.0
29.5°	238.6	238.3	238.6	238.6	238.5	238.5
30°	237.1	236.8	237.1	237.1	237.0	237.0
30.5°	235.6	235.2	235.6	235.5	235.4	235.4
31°	234.0	233.7	234.0	233.9	233.9	233.9
31.5°	232.4	232.1	232.4	232.4	232.3	232.3
32°	230.8	230.5	230.8	230.7	230.7	230.7
32.5°	229.2	228.8	229.2	229.1	229.0	229.1
33°	227.5	227.2	227.5	227.4	227.4	227.4
33.5°	225.8	225.5	225.8	225.7	225.7	225.7
34°	224.1	223.7	224.1	224.0	223.9	224.0
34.5°	222.3	222.0	222.3	222.3	222.2	222.2
35°	220.6	220.3	220.6	220.5	220.4	220.4
35.5°	218.6	218.3	218.6	218.6	218.5	218.6
36°	216.8	216.5	216.8	216.8	216.7	216.7
36.5°	215.0	214.7	215.0	215.0	214.9	214.9
37°	213.2	212.9	213.2	213.1	213.0	213.0
37.5°	211.3	211.0	211.3	211.2	211.1	211.2
38°	209.4	209.1	209.4	209.4	209.2	209.3
38.5°	207.5	207.2	207.5	207.4	207.4	207.4
39°	205.5	205.3	205.5	205.5	205.4	205.5
39.5°	203.6	203.3	203.6	203.5	203.5	203.5
40°	201.6	201.3	201.6	201.6	201.5	201.5
40.5°	199.6	199.3	199.6	199.6	199.5	199.5
41°	197.6	197.3	197.6	197.6	197.5	197.5
41.5°	195.5	195.2	195.5	195.5	195.4	195.4
42°	193.4	193.1	193.4	193.3	193.3	193.3
42.5°	191.3	191.0	191.3	191.3	191.2	191.2
43°	189.2	188.9	189.2	189.2	189.1	189.2
43.5°	187.1	186.8	187.1	187.1	187.0	187.0

TEST NUMBER: P971887

CATALOG NUMBER: RLWZDZC4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	180.6	180.3	180.6	180.6	180.6	180.6
45.5°	178.4	178.1	178.4	178.4	178.4	178.4
46°	176.2	175.9	176.2	176.2	176.2	176.2
46.5°	174.0	173.8	174.0	174.0	174.0	174.0
47°	171.8	171.5	171.8	171.8	171.7	171.7
47.5°	169.5	169.2	169.5	169.5	169.5	169.5
48°	167.2	166.9	167.2	167.2	167.2	167.2
48.5°	164.9	164.6	164.9	164.9	164.9	164.9
49°	162.6	162.3	162.6	162.6	162.6	162.6
49.5°	160.3	160.0	160.3	160.3	160.3	160.3
50°	158.0	157.7	158.0	158.0	158.0	158.0
50.5°	155.6	155.3	155.6	155.6	155.6	155.6
51°	153.3	153.0	153.3	153.3	153.3	153.3
51.5°	150.9	150.7	150.9	151.0	150.9	150.9
52°	148.6	148.3	148.6	148.6	148.6	148.6
52.5°	146.2	145.9	146.2	146.2	146.2	146.2
53°	143.8	143.5	143.8	143.8	143.8	143.8
53.5°	141.3	141.0	141.3	141.3	141.3	141.3
54°	138.9	138.7	138.9	138.9	138.9	138.9
54.5°	136.4	136.2	136.4	136.5	136.5	136.5
55°	134.0	133.8	134.0	134.1	134.1	134.1
55.5°	131.6	131.4	131.6	131.6	131.6	131.6
56°	129.1	129.0	129.1	129.2	129.2	129.2
56.5°	126.7	126.5	126.7	126.7	126.8	126.7
57°	124.2	124.0	124.2	124.3	124.3	124.3
57.5°	121.7	121.6	121.7	121.8	121.8	121.8
58°	119.3	119.1	119.3	119.3	119.4	119.4
58.5°	116.8	116.6	116.8	116.9	116.9	116.9
59°	114.2	114.0	114.2	114.3	114.3	114.3
59.5°	111.7	111.6	111.7	111.8	111.8	111.8
60°	109.3	109.1	109.3	109.3	109.4	109.3
60.5°	106.8	106.6	106.8	106.8	106.9	106.9
61°	104.3	104.1	104.3	104.3	104.4	104.4
61.5°	101.8	101.6	101.8	101.8	101.9	101.9
62°	99.3	99.2	99.3	99.3	99.4	99.4
62.5°	96.8	96.6	96.8	96.9	96.9	96.9
63°	94.3	94.1	94.3	94.4	94.4	94.4
63.5°	91.8	91.7	91.8	91.9	91.9	91.9
64°	89.3	89.1	89.3	89.3	89.3	89.3
64.5°	86.8	86.6	86.8	86.8	86.8	86.9
65°	84.3	84.1	84.3	84.3	84.4	84.4
65.5°	81.8	81.6	81.8	81.9	81.9	81.9
66°	79.3	79.2	79.3	79.4	79.4	79.4

TEST NUMBER: P971887

CATALOG NUMBER: RLWZDZC4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	71.9	71.8	71.9	71.9	72.0	72.0
68°	69.4	69.3	69.4	69.5	69.5	69.6
68.5°	67.0	66.8	67.0	67.0	67.1	67.1
69°	64.4	64.3	64.4	64.6	64.7	64.7
69.5°	62.0	61.8	62.0	62.0	62.1	62.1
70°	59.6	59.4	59.6	59.6	59.7	59.7
70.5°	57.1	57.0	57.1	57.2	57.3	57.3
71°	54.8	54.6	54.8	54.8	54.9	54.9
71.5°	52.4	52.2	52.4	52.4	52.5	52.5
72°	50.0	49.9	50.0	50.1	50.2	50.2
72.5°	47.7	47.5	47.7	47.7	47.8	47.8
73°	45.3	45.2	45.3	45.4	45.5	45.5
73.5°	43.0	42.9	43.0	43.1	43.2	43.2
74°	40.8	40.6	40.8	40.8	40.9	40.9
74.5°	38.4	38.4	38.4	38.5	38.6	38.6
75°	36.2	36.2	36.2	36.4	36.4	36.3
75.5°	34.0	34.0	34.0	34.2	34.2	34.2
76°	31.9	31.8	31.9	32.0	32.1	32.0
76.5°	29.8	29.7	29.8	29.9	30.0	30.1
77°	27.8	27.6	27.8	27.9	28.0	28.1
77.5°	25.8	25.7	25.8	25.9	26.0	26.1
78°	23.8	23.7	23.8	23.9	24.0	24.1
78.5°	21.9	21.8	21.9	22.0	22.1	22.1
79°	20.1	20.0	20.1	20.2	20.3	20.3
79.5°	18.3	18.2	18.3	18.4	18.5	18.5
80°	16.6	16.5	16.6	16.7	16.8	16.8
80.5°	15.0	14.9	15.0	15.1	15.2	15.2
81°	13.5	13.3	13.5	13.6	13.7	13.6
81.5°	11.9	11.7	11.9	12.0	12.1	12.1
82°	10.5	10.3	10.5	10.7	10.8	10.7
82.5°	9.3	9.1	9.3	9.4	9.5	9.4
83°	8.0	8.0	8.0	8.1	8.2	8.1
83.5°	6.9	6.9	6.9	7.0	7.1	6.9
84°	5.9	5.8	5.9	5.9	6.0	5.9
84.5°	4.9	4.8	4.9	5.0	5.1	5.0
85°	4.1	4.1	4.1	4.2	4.3	4.2
85.5°	3.5	3.4	3.5	3.6	3.5	3.5
86°	2.9	2.8	2.9	3.0	3.0	2.9
86.5°	2.4	2.3	2.4	2.4	2.4	2.4
87°	1.9	1.8	1.9	1.9	1.9	1.9
87.5°	1.4	1.4	1.4	1.4	1.5	1.5
88°	1.0	0.9	1.0	1.0	1.0	1.0
88.5°	0.6	0.6	0.6	0.6	0.7	0.6



TEST NUMBER: P971887

CATALOG NUMBER: RLWZDZC4-5000K

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



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°







21.5°	260.0	260.0	260.1	260.2	259.9	260.2	260.1	260.0	260.0	260.0	260.1
22°	258.8	258.8	259.0	259.1	258.7	259.1	259.0	258.8	258.8	258.8	259.0



44°	184.9	184.9	184.9	184.9	184.7	184.9	184.9	184.9	184.9	184.9	184.9
44.5°	182.8	182.8	182.8	182.8	182.5	182.8	182.8	182.8	182.8	182.8	182.8



66.5°	76.9	77.0	76.9	76.8	76.7	76.8	76.9	77.0	76.9	77.0	76.9
67°	74.5	74.5	74.4	74.4	74.2	74.4	74.4	74.5	74.5	74.5	74.4



89°	0.3	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4
89.5°	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2





21.5°	260.2	259.9	260.2	260.1	260.0	260.0
22°	259.1	258.7	259.1	259.0	258.8	258.8



44°	184.9	184.7	184.9	184.9	184.9	184.9
44.5°	182.8	182.5	182.8	182.8	182.8	182.8



66.5°	76.8	76.7	76.8	76.9	77.0	76.9
67°	74.4	74.2	74.4	74.4	74.5	74.5



89°	0.3	0.3	0.3	0.4	0.4	0.3
89.5°	0.1	0.1	0.1	0.2	0.2	0.1



(END OF REPORT)