

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: P971884

Luminaire Tested: RLWZDZC4-3000K

Issue Date: 2/18/2025

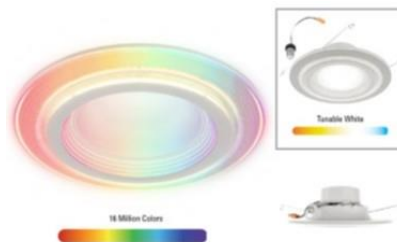
Test Information

Test Method: LM-79-2019
Report Number: P971884
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: RLWZDZC4-3000K
Description: RLDZ4" Canless 700lm, WiZ RGBW, 120V, WH, with NIGHTLIGHT
Light Source: WiZ RGBW CONTROLLED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 730.0 lumens
Efficiency: N/A
Efficacy: 80.2 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

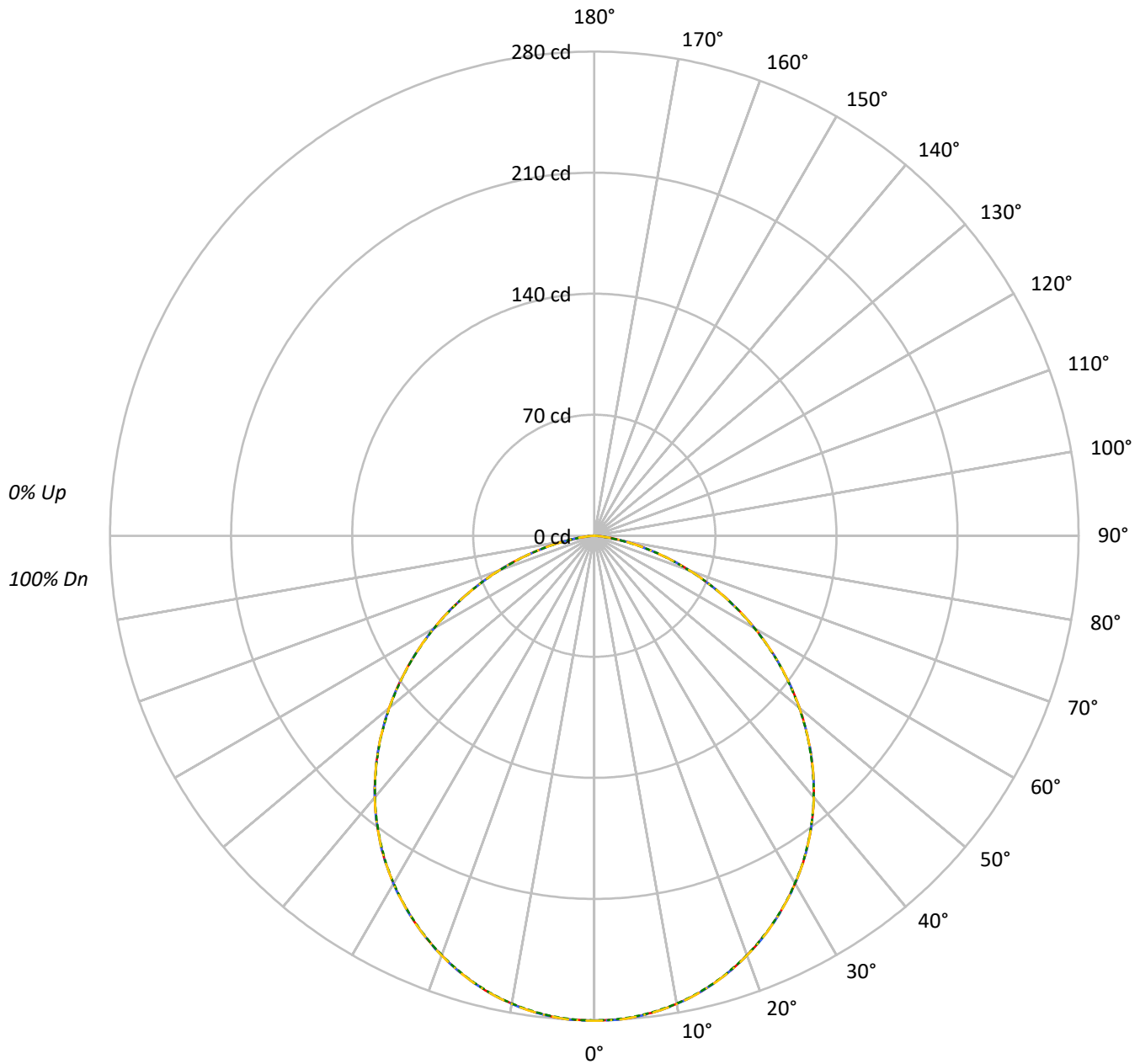
Input Watts (W): 9.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P971884

CATALOG NUMBER: RLWZDZC4-3000K

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°	35301	35301	35301	35301
5°	35259	35234	35259	35234
10°	35117	35091	35117	35091
15°	34905	34878	34905	34878
20°	34566	34553	34566	34553
25°	34187	34160	34187	34160
30°	33743	33714	33743	33714
35°	33170	33154	33170	33154
40°	32430	32397	32430	32397
45°	31502	31449	31502	31449
50°	30308	30249	30308	30249
55°	28831	28765	28831	28765
60°	26957	26907	26957	26907
65°	24627	24538	24627	24538
70°	21526	21415	21526	21415
75°	17310	17262	17310	17262
80°	11886	11668	11886	11668
85°	5920	5776	5920	5776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 31502 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	3.6
10°-20°	75.6	10.3
20°-30°	113.4	15.5
30°-40°	135.0	18.5
40°-50°	136.3	18.7
50°-60°	117.3	16.1
60°-70°	81.7	11.2
70°-80°	38.1	5.2
80°-90°	6.1	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°	215.5	29.5
0°-40°	350.5	48.0
0°-60°	604.1	82.8
0°-90°	730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	280	280	280	280	280	
5°	279	279	279	279	279	27
15°	268	268	268	268	268	76
25°	246	246	246	246	246	113
35°	216	216	216	216	216	135
45°	177	177	177	177	177	136
55°	131	131	131	131	131	117
65°	83	82	83	82	83	82
75°	36	36	36	36	36	38
85°	4	4	4	4	4	6
90°	0	0	0	0	0	

TEST NUMBER: P971884

CATALOG NUMBER: RLWZDZC4-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5
0.5°	280.5	280.5	280.5	280.6	280.2	280.6	280.5	280.5	280.5	280.5	280.5
1°	280.4	280.4	280.5	280.6	280.2	280.6	280.5	280.4	280.4	280.4	280.5
1.5°	280.3	280.3	280.4	280.5	280.2	280.5	280.4	280.3	280.3	280.3	280.4
2°	280.2	280.2	280.3	280.4	280.1	280.4	280.3	280.2	280.2	280.2	280.3
2.5°	280.2	280.2	280.2	280.3	280.0	280.3	280.2	280.2	280.2	280.2	280.2
3°	280.0	280.1	280.2	280.2	279.8	280.2	280.2	280.1	280.0	280.1	280.2
3.5°	279.9	279.9	280.0	280.0	279.6	280.0	280.0	279.9	279.9	279.9	280.0
4°	279.7	279.6	279.8	279.8	279.4	279.8	279.8	279.6	279.7	279.6	279.8
4.5°	279.4	279.4	279.5	279.6	279.2	279.6	279.5	279.4	279.4	279.4	279.5
5°	279.1	279.1	279.2	279.3	278.9	279.3	279.2	279.1	279.1	279.1	279.2
5.5°	278.8	278.8	278.9	279.0	278.6	279.0	278.9	278.8	278.8	278.8	278.9
6°	278.5	278.5	278.6	278.7	278.2	278.7	278.6	278.5	278.5	278.5	278.6
6.5°	278.1	278.1	278.2	278.3	277.9	278.3	278.2	278.1	278.1	278.1	278.2
7°	277.8	277.8	277.8	277.9	277.5	277.9	277.8	277.8	277.8	277.8	277.8
7.5°	277.3	277.3	277.4	277.5	277.1	277.5	277.4	277.3	277.3	277.3	277.4
8°	276.9	276.9	277.0	277.0	276.6	277.0	277.0	276.9	276.9	276.9	277.0
8.5°	276.4	276.4	276.5	276.6	276.2	276.6	276.5	276.4	276.4	276.4	276.5
9°	275.9	275.9	276.0	276.1	275.7	276.1	276.0	275.9	275.9	275.9	276.0
9.5°	275.4	275.4	275.5	275.6	275.2	275.6	275.5	275.4	275.4	275.4	275.5
10°	274.8	274.8	274.9	275.0	274.6	275.0	274.9	274.8	274.8	274.8	274.9
10.5°	274.2	274.3	274.3	274.4	274.1	274.4	274.3	274.3	274.2	274.3	274.3
11°	273.7	273.7	273.8	273.9	273.5	273.9	273.8	273.7	273.7	273.7	273.8
11.5°	273.1	273.1	273.2	273.3	272.9	273.3	273.2	273.1	273.1	273.1	273.2
12°	272.4	272.4	272.5	272.6	272.2	272.6	272.5	272.4	272.4	272.4	272.5
12.5°	271.7	271.7	271.8	271.9	271.5	271.9	271.8	271.7	271.7	271.7	271.8
13°	271.0	271.0	271.1	271.2	270.8	271.2	271.1	271.0	271.0	271.0	271.1
13.5°	270.3	270.2	270.3	270.4	270.0	270.4	270.3	270.2	270.3	270.2	270.3
14°	269.5	269.5	269.5	269.6	269.3	269.6	269.5	269.5	269.5	269.5	269.5
14.5°	268.6	268.6	268.7	268.8	268.4	268.8	268.7	268.6	268.6	268.6	268.7
15°	267.9	267.9	268.0	268.1	267.7	268.1	268.0	267.9	267.9	267.9	268.0
15.5°	267.0	267.0	267.1	267.2	266.8	267.2	267.1	267.0	267.0	267.0	267.1
16°	266.1	266.1	266.2	266.3	265.9	266.3	266.2	266.1	266.1	266.1	266.2
16.5°	265.2	265.2	265.3	265.4	265.0	265.4	265.3	265.2	265.2	265.2	265.3
17°	264.3	264.2	264.3	264.4	264.1	264.4	264.3	264.2	264.3	264.2	264.3
17.5°	263.3	263.3	263.4	263.5	263.1	263.5	263.4	263.3	263.3	263.3	263.4
18°	262.3	262.3	262.4	262.5	262.1	262.5	262.4	262.3	262.3	262.3	262.4
18.5°	261.3	261.3	261.4	261.5	261.2	261.5	261.4	261.3	261.3	261.3	261.4
19°	260.3	260.3	260.4	260.5	260.1	260.5	260.4	260.3	260.3	260.3	260.4
19.5°	259.2	259.2	259.3	259.4	259.1	259.4	259.3	259.2	259.2	259.2	259.3
20°	258.1	258.1	258.3	258.4	258.0	258.4	258.3	258.1	258.1	258.1	258.3
20.5°	257.0	257.0	257.1	257.3	256.9	257.3	257.1	257.0	257.0	257.0	257.1
21°	256.0	256.0	256.1	256.1	255.8	256.1	256.1	256.0	256.0	256.0	256.1

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CATALOG NUMBER: RLWZDZC4-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	252.4	252.4	252.6	252.6	252.3	252.6	252.6	252.4	252.4	252.4	252.6
23°	251.2	251.2	251.3	251.4	251.1	251.4	251.3	251.2	251.2	251.2	251.3
23.5°	250.1	250.1	250.1	250.2	249.9	250.2	250.1	250.1	250.1	250.1	250.1
24°	248.8	248.8	248.9	249.0	248.7	249.0	248.9	248.8	248.8	248.8	248.9
24.5°	247.5	247.5	247.6	247.7	247.3	247.7	247.6	247.5	247.5	247.5	247.6
25°	246.2	246.2	246.3	246.4	246.0	246.4	246.3	246.2	246.2	246.2	246.3
25.5°	244.9	244.9	244.9	245.0	244.7	245.0	244.9	244.9	244.9	244.9	244.9
26°	243.6	243.6	243.7	243.8	243.4	243.8	243.7	243.6	243.6	243.6	243.7
26.5°	242.2	242.2	242.3	242.4	242.0	242.4	242.3	242.2	242.2	242.2	242.3
27°	240.8	240.8	240.9	241.0	240.7	241.0	240.9	240.8	240.8	240.8	240.9
27.5°	239.4	239.4	239.5	239.6	239.3	239.6	239.5	239.4	239.4	239.4	239.5
28°	238.0	238.0	238.1	238.1	237.9	238.1	238.1	238.0	238.0	238.0	238.1
28.5°	236.6	236.6	236.7	236.8	236.5	236.8	236.7	236.6	236.6	236.6	236.7
29°	235.2	235.2	235.3	235.3	235.0	235.3	235.3	235.2	235.2	235.2	235.3
29.5°	233.7	233.7	233.8	233.8	233.5	233.8	233.8	233.7	233.7	233.7	233.8
30°	232.2	232.2	232.3	232.3	232.0	232.3	232.3	232.2	232.2	232.2	232.3
30.5°	230.7	230.7	230.8	230.9	230.5	230.9	230.8	230.7	230.7	230.7	230.8
31°	229.2	229.2	229.2	229.3	229.0	229.3	229.2	229.2	229.2	229.2	229.2
31.5°	227.6	227.6	227.7	227.7	227.4	227.7	227.7	227.6	227.6	227.6	227.7
32°	226.0	226.0	226.0	226.1	225.9	226.1	226.0	226.0	226.0	226.0	226.0
32.5°	224.5	224.4	224.5	224.6	224.2	224.6	224.5	224.4	224.5	224.4	224.5
33°	222.8	222.8	222.8	222.9	222.6	222.9	222.8	222.8	222.8	222.8	222.8
33.5°	221.1	221.1	221.1	221.2	220.9	221.2	221.1	221.1	221.1	221.1	221.1
34°	219.5	219.4	219.5	219.6	219.2	219.6	219.5	219.4	219.5	219.4	219.5
34.5°	217.7	217.7	217.8	217.8	217.5	217.8	217.8	217.7	217.7	217.7	217.8
35°	215.9	215.9	216.0	216.1	215.8	216.1	216.0	215.9	215.9	215.9	216.0
35.5°	214.2	214.1	214.2	214.2	213.9	214.2	214.2	214.1	214.2	214.1	214.2
36°	212.4	212.4	212.5	212.5	212.2	212.5	212.5	212.4	212.4	212.4	212.5
36.5°	210.6	210.6	210.7	210.7	210.4	210.7	210.7	210.6	210.6	210.6	210.7
37°	208.7	208.7	208.8	208.9	208.6	208.9	208.8	208.7	208.7	208.7	208.8
37.5°	207.0	206.9	207.0	207.1	206.8	207.1	207.0	206.9	207.0	206.9	207.0
38°	205.1	205.0	205.2	205.2	204.9	205.2	205.2	205.0	205.1	205.0	205.2
38.5°	203.2	203.2	203.2	203.3	203.0	203.3	203.2	203.2	203.2	203.2	203.2
39°	201.4	201.3	201.4	201.4	201.2	201.4	201.4	201.3	201.4	201.3	201.4
39.5°	199.4	199.4	199.4	199.5	199.2	199.5	199.4	199.4	199.4	199.4	199.4
40°	197.4	197.4	197.5	197.5	197.2	197.5	197.5	197.4	197.4	197.4	197.5
40.5°	195.5	195.5	195.6	195.6	195.3	195.6	195.6	195.5	195.5	195.5	195.6
41°	193.5	193.5	193.6	193.6	193.3	193.6	193.6	193.5	193.5	193.5	193.6
41.5°	191.4	191.4	191.5	191.5	191.2	191.5	191.5	191.4	191.4	191.4	191.5
42°	189.5	189.5	189.5	189.6	189.3	189.6	189.5	189.5	189.5	189.5	189.5
42.5°	187.4	187.4	187.5	187.5	187.2	187.5	187.5	187.4	187.4	187.4	187.5
43°	185.4	185.3	185.4	185.4	185.1	185.4	185.4	185.3	185.4	185.3	185.4
43.5°	183.3	183.3	183.4	183.4	183.1	183.4	183.4	183.3	183.3	183.3	183.4

TEST NUMBER: P971884

CATALOG NUMBER: RLWZDZC4-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	177.0	177.0	177.0	177.0	176.7	177.0	177.0	177.0	177.0	177.0	177.0
45.5°	174.8	174.8	174.8	174.8	174.5	174.8	174.8	174.8	174.8	174.8	174.8
46°	172.6	172.6	172.6	172.6	172.3	172.6	172.6	172.6	172.6	172.6	172.6
46.5°	170.5	170.5	170.5	170.5	170.3	170.5	170.5	170.5	170.5	170.5	170.5
47°	168.2	168.2	168.3	168.3	168.0	168.3	168.3	168.2	168.2	168.2	168.3
47.5°	166.0	166.0	166.0	166.0	165.7	166.0	166.0	166.0	166.0	166.0	166.0
48°	163.9	163.9	163.9	163.9	163.6	163.9	163.9	163.9	163.9	163.9	163.9
48.5°	161.6	161.6	161.6	161.6	161.3	161.6	161.6	161.6	161.6	161.6	161.6
49°	159.4	159.4	159.4	159.4	159.1	159.4	159.4	159.4	159.4	159.4	159.4
49.5°	157.1	157.1	157.1	157.1	156.8	157.1	157.1	157.1	157.1	157.1	157.1
50°	154.8	154.8	154.8	154.8	154.5	154.8	154.8	154.8	154.8	154.8	154.8
50.5°	152.5	152.5	152.5	152.5	152.2	152.5	152.5	152.5	152.5	152.5	152.5
51°	150.2	150.2	150.2	150.2	149.9	150.2	150.2	150.2	150.2	150.2	150.2
51.5°	147.8	147.8	147.9	147.8	147.6	147.8	147.9	147.8	147.8	147.8	147.9
52°	145.6	145.6	145.6	145.6	145.3	145.6	145.6	145.6	145.6	145.6	145.6
52.5°	143.2	143.2	143.2	143.2	142.9	143.2	143.2	143.2	143.2	143.2	143.2
53°	140.9	140.9	140.9	140.9	140.6	140.9	140.9	140.9	140.9	140.9	140.9
53.5°	138.5	138.5	138.5	138.5	138.2	138.5	138.5	138.5	138.5	138.5	138.5
54°	136.1	136.1	136.1	136.1	135.9	136.1	136.1	136.1	136.1	136.1	136.1
54.5°	133.8	133.8	133.8	133.8	133.5	133.7	133.8	133.8	133.8	133.8	133.8
55°	131.4	131.4	131.4	131.4	131.1	131.3	131.4	131.4	131.4	131.4	131.4
55.5°	129.0	129.0	129.0	129.0	128.8	129.0	129.0	129.0	129.0	129.0	129.0
56°	126.6	126.6	126.6	126.6	126.4	126.5	126.6	126.6	126.6	126.6	126.6
56.5°	124.1	124.2	124.1	124.1	123.9	124.1	124.1	124.2	124.1	124.2	124.1
57°	121.8	121.8	121.8	121.8	121.5	121.7	121.8	121.8	121.8	121.8	121.8
57.5°	119.3	119.3	119.3	119.3	119.1	119.2	119.3	119.3	119.3	119.3	119.3
58°	117.0	117.0	116.9	116.9	116.7	116.9	116.9	117.0	117.0	117.0	116.9
58.5°	114.5	114.5	114.5	114.5	114.2	114.4	114.5	114.5	114.5	114.5	114.5
59°	112.0	112.0	112.0	111.9	111.7	111.9	112.0	112.0	112.0	112.0	112.0
59.5°	109.6	109.6	109.6	109.5	109.4	109.5	109.6	109.6	109.6	109.6	109.6
60°	107.1	107.2	107.1	107.1	106.9	107.1	107.1	107.2	107.1	107.2	107.1
60.5°	104.8	104.8	104.7	104.7	104.5	104.7	104.7	104.8	104.8	104.8	104.7
61°	102.3	102.3	102.2	102.2	102.0	102.2	102.2	102.3	102.3	102.3	102.2
61.5°	99.8	99.8	99.7	99.7	99.5	99.7	99.7	99.8	99.8	99.8	99.7
62°	97.4	97.4	97.3	97.3	97.2	97.3	97.3	97.4	97.4	97.4	97.3
62.5°	94.9	94.9	94.9	94.8	94.6	94.8	94.9	94.9	94.9	94.9	94.9
63°	92.5	92.5	92.5	92.4	92.2	92.4	92.5	92.5	92.5	92.5	92.5
63.5°	90.0	90.0	90.0	89.9	89.8	89.9	90.0	90.0	90.0	90.0	90.0
64°	87.5	87.5	87.5	87.5	87.4	87.5	87.5	87.5	87.5	87.5	87.5
64.5°	85.2	85.1	85.1	85.1	84.9	85.1	85.1	85.1	85.2	85.1	85.1
65°	82.7	82.7	82.6	82.6	82.4	82.6	82.6	82.7	82.7	82.7	82.6
65.5°	80.3	80.3	80.3	80.2	80.0	80.2	80.3	80.3	80.3	80.3	80.3
66°	77.8	77.8	77.8	77.7	77.6	77.7	77.8	77.8	77.8	77.8	77.8

TEST NUMBER: P971884

CATALOG NUMBER: RLWZDZC4-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	70.5	70.5	70.4	70.4	70.3	70.4	70.4	70.5	70.5	70.5	70.4
68°	68.2	68.1	68.1	68.0	67.9	68.0	68.1	68.1	68.2	68.1	68.1
68.5°	65.7	65.7	65.6	65.6	65.4	65.6	65.6	65.7	65.7	65.7	65.6
69°	63.3	63.3	63.3	63.2	63.1	63.2	63.3	63.3	63.3	63.3	63.3
69.5°	60.9	60.9	60.8	60.8	60.6	60.8	60.8	60.9	60.9	60.9	60.8
70°	58.5	58.5	58.4	58.4	58.2	58.4	58.4	58.5	58.5	58.5	58.4
70.5°	56.2	56.2	56.1	56.0	55.9	56.0	56.1	56.2	56.2	56.2	56.1
71°	53.8	53.8	53.7	53.7	53.5	53.7	53.7	53.8	53.8	53.8	53.7
71.5°	51.4	51.4	51.3	51.3	51.2	51.3	51.3	51.4	51.4	51.4	51.3
72°	49.2	49.2	49.1	49.0	48.9	49.0	49.1	49.2	49.2	49.2	49.1
72.5°	46.8	46.8	46.7	46.7	46.5	46.7	46.7	46.8	46.8	46.8	46.7
73°	44.6	44.6	44.5	44.4	44.3	44.4	44.5	44.6	44.6	44.6	44.5
73.5°	42.3	42.3	42.2	42.1	42.0	42.1	42.2	42.3	42.3	42.3	42.2
74°	40.0	40.0	39.9	39.9	39.7	39.9	39.9	40.0	40.0	40.0	39.9
74.5°	37.9	37.9	37.8	37.7	37.7	37.7	37.8	37.9	37.9	37.9	37.8
75°	35.6	35.7	35.7	35.5	35.5	35.5	35.7	35.7	35.6	35.7	35.7
75.5°	33.5	33.5	33.5	33.3	33.3	33.3	33.5	33.5	33.5	33.5	33.5
76°	31.4	31.5	31.4	31.3	31.2	31.3	31.4	31.5	31.4	31.5	31.4
76.5°	29.5	29.4	29.3	29.2	29.1	29.2	29.3	29.4	29.5	29.4	29.3
77°	27.5	27.4	27.3	27.2	27.1	27.2	27.3	27.4	27.5	27.4	27.3
77.5°	25.6	25.5	25.4	25.3	25.2	25.3	25.4	25.5	25.6	25.5	25.4
78°	23.6	23.5	23.4	23.3	23.2	23.3	23.4	23.5	23.6	23.5	23.4
78.5°	21.6	21.6	21.5	21.4	21.3	21.4	21.5	21.6	21.6	21.6	21.5
79°	19.9	19.9	19.8	19.7	19.6	19.7	19.8	19.9	19.9	19.9	19.8
79.5°	18.1	18.1	18.0	17.9	17.8	17.9	18.0	18.1	18.1	18.1	18.0
80°	16.4	16.4	16.3	16.2	16.1	16.2	16.3	16.4	16.4	16.4	16.3
80.5°	14.9	14.9	14.8	14.7	14.6	14.7	14.8	14.9	14.9	14.9	14.8
81°	13.3	13.4	13.3	13.2	13.0	13.2	13.3	13.4	13.3	13.4	13.3
81.5°	11.9	11.9	11.8	11.7	11.5	11.7	11.8	11.9	11.9	11.9	11.8
82°	10.5	10.6	10.5	10.3	10.1	10.3	10.5	10.6	10.5	10.6	10.5
82.5°	9.2	9.3	9.2	9.1	9.0	9.1	9.2	9.3	9.2	9.3	9.2
83°	8.0	8.1	8.0	7.9	7.9	7.9	8.0	8.1	8.0	8.1	8.0
83.5°	6.8	7.0	6.9	6.8	6.8	6.8	6.9	7.0	6.8	7.0	6.9
84°	5.8	5.9	5.8	5.8	5.7	5.8	5.8	5.9	5.8	5.9	5.8
84.5°	4.9	5.0	4.9	4.8	4.7	4.8	4.9	5.0	4.9	5.0	4.9
85°	4.1	4.2	4.1	4.0	4.0	4.0	4.1	4.2	4.1	4.2	4.1
85.5°	3.4	3.4	3.5	3.4	3.3	3.4	3.5	3.4	3.4	3.4	3.5
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: P971884
CATALOG NUMBER: RLWZDZC4-3000K

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: P971884

CATALOG NUMBER: RLWZDZC4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	280.5	280.5	280.5	280.5	280.5	280.5
0.5°	280.6	280.2	280.6	280.5	280.5	280.5
1°	280.6	280.2	280.6	280.5	280.4	280.4
1.5°	280.5	280.2	280.5	280.4	280.3	280.3
2°	280.4	280.1	280.4	280.3	280.2	280.2
2.5°	280.3	280.0	280.3	280.2	280.2	280.2
3°	280.2	279.8	280.2	280.2	280.1	280.0
3.5°	280.0	279.6	280.0	280.0	279.9	279.9
4°	279.8	279.4	279.8	279.8	279.6	279.7
4.5°	279.6	279.2	279.6	279.5	279.4	279.4
5°	279.3	278.9	279.3	279.2	279.1	279.1
5.5°	279.0	278.6	279.0	278.9	278.8	278.8
6°	278.7	278.2	278.7	278.6	278.5	278.5
6.5°	278.3	277.9	278.3	278.2	278.1	278.1
7°	277.9	277.5	277.9	277.8	277.8	277.8
7.5°	277.5	277.1	277.5	277.4	277.3	277.3
8°	277.0	276.6	277.0	277.0	276.9	276.9
8.5°	276.6	276.2	276.6	276.5	276.4	276.4
9°	276.1	275.7	276.1	276.0	275.9	275.9
9.5°	275.6	275.2	275.6	275.5	275.4	275.4
10°	275.0	274.6	275.0	274.9	274.8	274.8
10.5°	274.4	274.1	274.4	274.3	274.3	274.2
11°	273.9	273.5	273.9	273.8	273.7	273.7
11.5°	273.3	272.9	273.3	273.2	273.1	273.1
12°	272.6	272.2	272.6	272.5	272.4	272.4
12.5°	271.9	271.5	271.9	271.8	271.7	271.7
13°	271.2	270.8	271.2	271.1	271.0	271.0
13.5°	270.4	270.0	270.4	270.3	270.2	270.3
14°	269.6	269.3	269.6	269.5	269.5	269.5
14.5°	268.8	268.4	268.8	268.7	268.6	268.6
15°	268.1	267.7	268.1	268.0	267.9	267.9
15.5°	267.2	266.8	267.2	267.1	267.0	267.0
16°	266.3	265.9	266.3	266.2	266.1	266.1
16.5°	265.4	265.0	265.4	265.3	265.2	265.2
17°	264.4	264.1	264.4	264.3	264.2	264.3
17.5°	263.5	263.1	263.5	263.4	263.3	263.3
18°	262.5	262.1	262.5	262.4	262.3	262.3
18.5°	261.5	261.2	261.5	261.4	261.3	261.3
19°	260.5	260.1	260.5	260.4	260.3	260.3
19.5°	259.4	259.1	259.4	259.3	259.2	259.2
20°	258.4	258.0	258.4	258.3	258.1	258.1
20.5°	257.3	256.9	257.3	257.1	257.0	257.0
21°	256.1	255.8	256.1	256.1	256.0	256.0



TEST NUMBER: P971884

CATALOG NUMBER: RLWZDZC4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	252.6	252.3	252.6	252.6	252.4	252.4
23°	251.4	251.1	251.4	251.3	251.2	251.2
23.5°	250.2	249.9	250.2	250.1	250.1	250.1
24°	249.0	248.7	249.0	248.9	248.8	248.8
24.5°	247.7	247.3	247.7	247.6	247.5	247.5
25°	246.4	246.0	246.4	246.3	246.2	246.2
25.5°	245.0	244.7	245.0	244.9	244.9	244.9
26°	243.8	243.4	243.8	243.7	243.6	243.6
26.5°	242.4	242.0	242.4	242.3	242.2	242.2
27°	241.0	240.7	241.0	240.9	240.8	240.8
27.5°	239.6	239.3	239.6	239.5	239.4	239.4
28°	238.1	237.9	238.1	238.1	238.0	238.0
28.5°	236.8	236.5	236.8	236.7	236.6	236.6
29°	235.3	235.0	235.3	235.3	235.2	235.2
29.5°	233.8	233.5	233.8	233.8	233.7	233.7
30°	232.3	232.0	232.3	232.3	232.2	232.2
30.5°	230.9	230.5	230.9	230.8	230.7	230.7
31°	229.3	229.0	229.3	229.2	229.2	229.2
31.5°	227.7	227.4	227.7	227.7	227.6	227.6
32°	226.1	225.9	226.1	226.0	226.0	226.0
32.5°	224.6	224.2	224.6	224.5	224.4	224.5
33°	222.9	222.6	222.9	222.8	222.8	222.8
33.5°	221.2	220.9	221.2	221.1	221.1	221.1
34°	219.6	219.2	219.6	219.5	219.4	219.5
34.5°	217.8	217.5	217.8	217.8	217.7	217.7
35°	216.1	215.8	216.1	216.0	215.9	215.9
35.5°	214.2	213.9	214.2	214.2	214.1	214.2
36°	212.5	212.2	212.5	212.5	212.4	212.4
36.5°	210.7	210.4	210.7	210.7	210.6	210.6
37°	208.9	208.6	208.9	208.8	208.7	208.7
37.5°	207.1	206.8	207.1	207.0	206.9	207.0
38°	205.2	204.9	205.2	205.2	205.0	205.1
38.5°	203.3	203.0	203.3	203.2	203.2	203.2
39°	201.4	201.2	201.4	201.4	201.3	201.4
39.5°	199.5	199.2	199.5	199.4	199.4	199.4
40°	197.5	197.2	197.5	197.5	197.4	197.4
40.5°	195.6	195.3	195.6	195.6	195.5	195.5
41°	193.6	193.3	193.6	193.6	193.5	193.5
41.5°	191.5	191.2	191.5	191.5	191.4	191.4
42°	189.6	189.3	189.6	189.5	189.5	189.5
42.5°	187.5	187.2	187.5	187.5	187.4	187.4
43°	185.4	185.1	185.4	185.4	185.3	185.4
43.5°	183.4	183.1	183.4	183.4	183.3	183.3



TEST NUMBER: P971884

CATALOG NUMBER: RLWZDZC4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	177.0	176.7	177.0	177.0	177.0	177.0
45.5°	174.8	174.5	174.8	174.8	174.8	174.8
46°	172.6	172.3	172.6	172.6	172.6	172.6
46.5°	170.5	170.3	170.5	170.5	170.5	170.5
47°	168.3	168.0	168.3	168.3	168.2	168.2
47.5°	166.0	165.7	166.0	166.0	166.0	166.0
48°	163.9	163.6	163.9	163.9	163.9	163.9
48.5°	161.6	161.3	161.6	161.6	161.6	161.6
49°	159.4	159.1	159.4	159.4	159.4	159.4
49.5°	157.1	156.8	157.1	157.1	157.1	157.1
50°	154.8	154.5	154.8	154.8	154.8	154.8
50.5°	152.5	152.2	152.5	152.5	152.5	152.5
51°	150.2	149.9	150.2	150.2	150.2	150.2
51.5°	147.8	147.6	147.8	147.9	147.8	147.8
52°	145.6	145.3	145.6	145.6	145.6	145.6
52.5°	143.2	142.9	143.2	143.2	143.2	143.2
53°	140.9	140.6	140.9	140.9	140.9	140.9
53.5°	138.5	138.2	138.5	138.5	138.5	138.5
54°	136.1	135.9	136.1	136.1	136.1	136.1
54.5°	133.7	133.5	133.7	133.8	133.8	133.8
55°	131.3	131.1	131.3	131.4	131.4	131.4
55.5°	129.0	128.8	129.0	129.0	129.0	129.0
56°	126.5	126.4	126.5	126.6	126.6	126.6
56.5°	124.1	123.9	124.1	124.1	124.2	124.1
57°	121.7	121.5	121.7	121.8	121.8	121.8
57.5°	119.2	119.1	119.2	119.3	119.3	119.3
58°	116.9	116.7	116.9	116.9	117.0	117.0
58.5°	114.4	114.2	114.4	114.5	114.5	114.5
59°	111.9	111.7	111.9	112.0	112.0	112.0
59.5°	109.5	109.4	109.5	109.6	109.6	109.6
60°	107.1	106.9	107.1	107.1	107.2	107.1
60.5°	104.7	104.5	104.7	104.7	104.8	104.8
61°	102.2	102.0	102.2	102.2	102.3	102.3
61.5°	99.7	99.5	99.7	99.7	99.8	99.8
62°	97.3	97.2	97.3	97.3	97.4	97.4
62.5°	94.8	94.6	94.8	94.9	94.9	94.9
63°	92.4	92.2	92.4	92.5	92.5	92.5
63.5°	89.9	89.8	89.9	90.0	90.0	90.0
64°	87.5	87.4	87.5	87.5	87.5	87.5
64.5°	85.1	84.9	85.1	85.1	85.1	85.2
65°	82.6	82.4	82.6	82.6	82.7	82.7
65.5°	80.2	80.0	80.2	80.3	80.3	80.3
66°	77.7	77.6	77.7	77.8	77.8	77.8



TEST NUMBER: P971884

CATALOG NUMBER: RLWZDZC4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	70.4	70.3	70.4	70.4	70.5	70.5
68°	68.0	67.9	68.0	68.1	68.1	68.2
68.5°	65.6	65.4	65.6	65.6	65.7	65.7
69°	63.2	63.1	63.2	63.3	63.3	63.3
69.5°	60.8	60.6	60.8	60.8	60.9	60.9
70°	58.4	58.2	58.4	58.4	58.5	58.5
70.5°	56.0	55.9	56.0	56.1	56.2	56.2
71°	53.7	53.5	53.7	53.7	53.8	53.8
71.5°	51.3	51.2	51.3	51.3	51.4	51.4
72°	49.0	48.9	49.0	49.1	49.2	49.2
72.5°	46.7	46.5	46.7	46.7	46.8	46.8
73°	44.4	44.3	44.4	44.5	44.6	44.6
73.5°	42.1	42.0	42.1	42.2	42.3	42.3
74°	39.9	39.7	39.9	39.9	40.0	40.0
74.5°	37.7	37.7	37.7	37.8	37.9	37.9
75°	35.5	35.5	35.5	35.7	35.7	35.6
75.5°	33.3	33.3	33.3	33.5	33.5	33.5
76°	31.3	31.2	31.3	31.4	31.5	31.4
76.5°	29.2	29.1	29.2	29.3	29.4	29.5
77°	27.2	27.1	27.2	27.3	27.4	27.5
77.5°	25.3	25.2	25.3	25.4	25.5	25.6
78°	23.3	23.2	23.3	23.4	23.5	23.6
78.5°	21.4	21.3	21.4	21.5	21.6	21.6
79°	19.7	19.6	19.7	19.8	19.9	19.9
79.5°	17.9	17.8	17.9	18.0	18.1	18.1
80°	16.2	16.1	16.2	16.3	16.4	16.4
80.5°	14.7	14.6	14.7	14.8	14.9	14.9
81°	13.2	13.0	13.2	13.3	13.4	13.3
81.5°	11.7	11.5	11.7	11.8	11.9	11.9
82°	10.3	10.1	10.3	10.5	10.6	10.5
82.5°	9.1	9.0	9.1	9.2	9.3	9.2
83°	7.9	7.9	7.9	8.0	8.1	8.0
83.5°	6.8	6.8	6.8	6.9	7.0	6.8
84°	5.8	5.7	5.8	5.8	5.9	5.8
84.5°	4.8	4.7	4.8	4.9	5.0	4.9
85°	4.0	4.0	4.0	4.1	4.2	4.1
85.5°	3.4	3.3	3.4	3.5	3.4	3.4
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: P971884

CATALOG NUMBER: RLWZDZC4-3000K

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°	254.8	254.8	254.9	255.0	254.7	255.0	254.9	254.8	254.8	254.8	254.9
22°	253.6	253.6	253.8	253.9	253.5	253.9	253.8	253.6	253.6	253.6	253.8



44°	181.2	181.2	181.2	181.2	181.0	181.2	181.2	181.2	181.2	181.2	181.2
44.5°	179.1	179.1	179.1	179.1	178.8	179.1	179.1	179.1	179.1	179.1	179.1



66.5°	75.3	75.4	75.3	75.3	75.2	75.3	75.3	75.4	75.3	75.4	75.3
67°	73.0	73.0	72.9	72.9	72.7	72.9	72.9	73.0	73.0	73.0	72.9



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°	255.0	254.7	255.0	254.9	254.8	254.8
22°	253.9	253.5	253.9	253.8	253.6	253.6



44°	181.2	181.0	181.2	181.2	181.2	181.2
44.5°	179.1	178.8	179.1	179.1	179.1	179.1



66.5°	75.3	75.2	75.3	75.3	75.4	75.3
67°	72.9	72.7	72.9	72.9	73.0	73.0



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)