

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: P971904

Luminaire Tested: RLWZDZT56-4000K

Issue Date: 2/18/2025

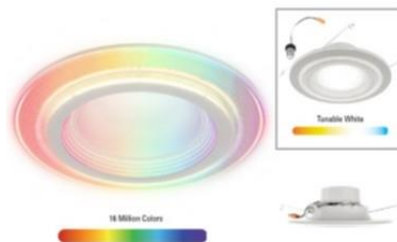
Test Information

Test Method: LM-79-2019
Report Number: P971904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2409311B001)
Test Lab:
Issue Date: 2/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RLWZDZT56-4000K
Description: RLDZ5/6" Trim 1000lm, WiZ RGBW, 120V, WH, with NIGHTLIGHT
Light Source: WiZ RGBW CONTROLLED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 960.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

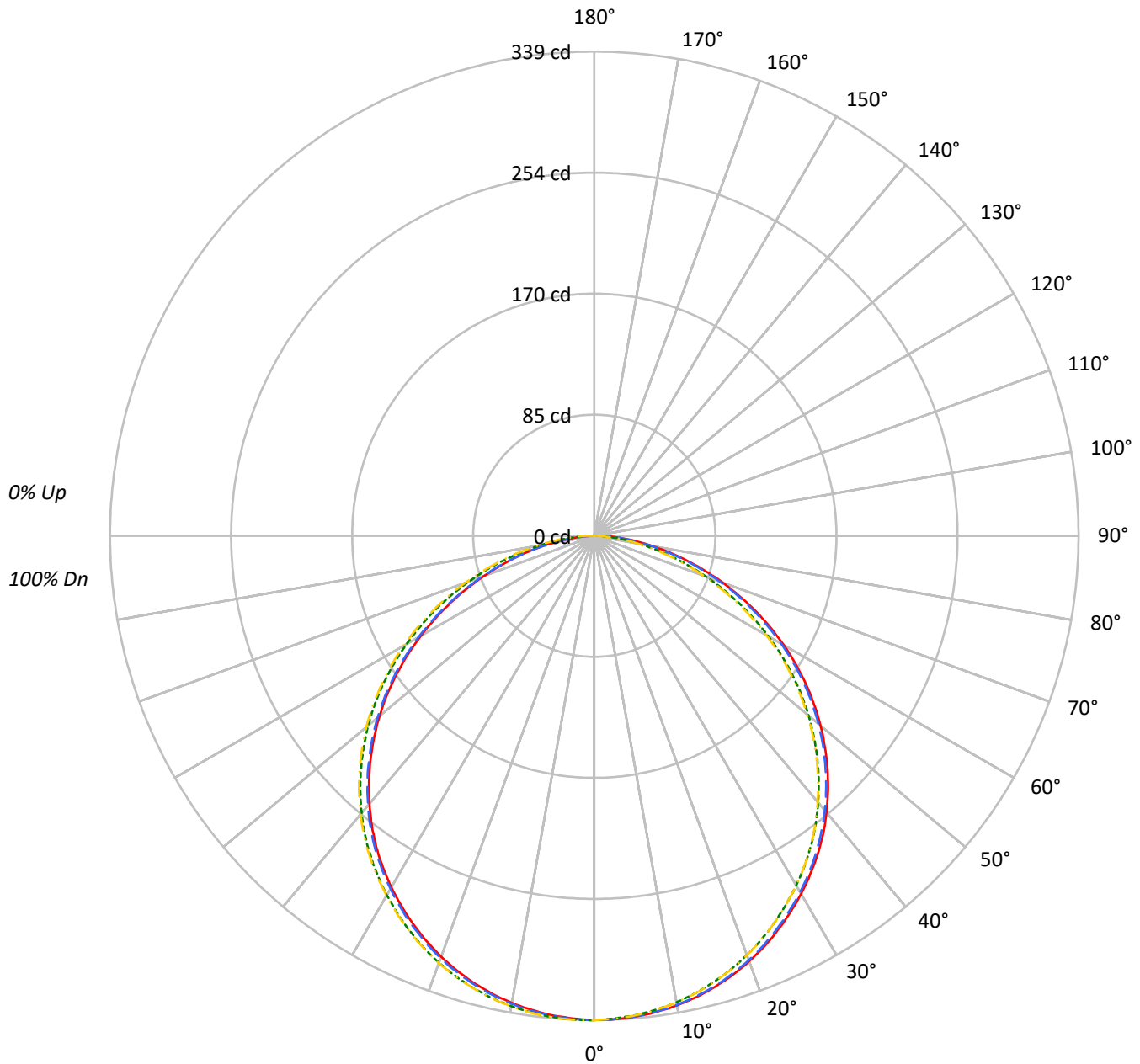
Input Watts (W): 9.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: RLWZDZT56-4000K

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	78	74	79	75	72	70		
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59		
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38		
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30		
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18590	18590	18590	18590
5°	18589	18534	18545	18611
10°	18581	18453	18487	18620
15°	18553	18354	18405	18598
20°	18493	18219	18289	18552
25°	18412	18068	18140	18473
30°	18326	17895	17984	18389
35°	18237	17708	17802	18283
40°	18098	17440	17526	18134
45°	17893	17110	17172	17901
50°	17637	16699	16724	17611
55°	17271	16152	16152	17213
60°	16797	15437	15383	16643
65°	16124	14502	14385	15903
70°	15259	13287	13159	14922
75°	14212	11755	11607	13704
80°	13038	9913	9660	12186
85°	12328	7548	7045	10819

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 89.5°

Luminance: 31410 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	3.3
10°-20°	91.9	9.6
20°-30°	139.3	14.5
30°-40°	168.3	17.5
40°-50°	174.3	18.2
50°-60°	156.0	16.3
60°-70°	116.2	12.1
70°-80°	64.3	6.7
80°-90°	17.6	1.8
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°	263.3	27.4
0°-40°	431.6	45.0
0°-60°	761.9	79.4
0°-90°	960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	339	339	339	339	339	
5°	338	337	337	338	338	32
15°	327	323	324	328	327	92
25°	304	299	300	305	304	140
35°	272	265	266	273	272	170
45°	231	221	222	231	231	178
55°	181	169	169	180	181	161
65°	124	112	111	123	124	123
75°	67	56	55	65	67	71
85°	20	12	11	17	20	22
90°	0	0	0	0	0	



TEST NUMBER: P971904

CATALOG NUMBER: RLWZDZT56-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	339.1	339.1	339.1	339.1	339.1	339.1	339.1	339.1	339.1	339.1	339.1
0.5°	339.0	339.0	339.1	339.3	338.9	338.9	339.0	339.0	338.9	339.0	339.1
1°	339.0	338.9	339.1	339.2	338.8	338.8	338.9	338.9	338.8	338.9	339.1
1.5°	338.9	338.9	339.0	339.2	338.6	338.6	338.7	338.8	338.7	338.8	339.0
2°	338.9	338.8	338.9	339.1	338.4	338.4	338.6	338.6	338.5	338.7	338.8
2.5°	338.8	338.6	338.8	338.9	338.2	338.1	338.3	338.4	338.3	338.5	338.7
3°	338.7	338.5	338.7	338.8	338.0	337.9	338.1	338.2	338.1	338.4	338.5
3.5°	338.5	338.3	338.5	338.6	337.6	337.6	337.8	338.0	337.8	338.2	338.3
4°	338.3	338.0	338.3	338.3	337.3	337.3	337.5	337.7	337.6	337.9	338.0
4.5°	338.1	337.8	338.0	338.0	337.1	337.0	337.3	337.4	337.3	337.6	337.7
5°	337.8	337.5	337.7	337.8	336.8	336.6	336.9	337.1	337.0	337.3	337.4
5.5°	337.5	337.3	337.4	337.4	336.3	336.2	336.5	336.7	336.7	337.1	337.2
6°	337.3	336.9	337.2	337.2	335.9	335.7	336.1	336.3	336.2	336.7	336.7
6.5°	337.0	336.6	336.8	336.8	335.4	335.3	335.6	335.9	335.8	336.3	336.3
7°	336.6	336.2	336.4	336.3	335.0	334.8	335.2	335.4	335.3	335.9	335.9
7.5°	336.2	335.7	335.9	335.9	334.5	334.2	334.6	335.0	334.9	335.4	335.5
8°	335.7	335.3	335.5	335.4	333.9	333.6	334.0	334.5	334.4	335.0	335.0
8.5°	335.3	334.8	335.1	335.0	333.3	333.1	333.5	333.9	333.9	334.5	334.5
9°	334.9	334.3	334.6	334.4	332.8	332.5	332.9	333.3	333.3	333.9	334.0
9.5°	334.4	333.8	334.0	333.8	332.2	331.8	332.3	332.8	332.8	333.4	333.4
10°	333.8	333.2	333.4	333.2	331.5	331.1	331.6	332.1	332.1	332.8	332.8
10.5°	333.2	332.7	332.9	332.7	330.9	330.5	331.0	331.5	331.4	332.2	332.1
11°	332.7	332.0	332.2	332.0	330.1	329.7	330.2	330.8	330.8	331.5	331.4
11.5°	332.0	331.3	331.6	331.3	329.4	329.0	329.5	330.1	330.1	330.9	330.8
12°	331.4	330.7	331.0	330.7	328.7	328.2	328.8	329.3	329.3	330.1	330.1
12.5°	330.8	330.0	330.2	329.9	327.8	327.3	327.9	328.7	328.6	329.4	329.3
13°	330.0	329.2	329.4	329.2	327.0	326.5	327.1	327.8	327.7	328.6	328.6
13.5°	329.2	328.5	328.8	328.4	326.1	325.6	326.3	326.9	326.9	327.8	327.8
14°	328.5	327.6	327.9	327.6	325.2	324.8	325.3	326.1	326.1	326.9	326.9
14.5°	327.7	326.9	327.1	326.8	324.3	323.8	324.5	325.2	325.1	326.2	326.1
15°	326.9	326.0	326.3	325.9	323.4	322.8	323.5	324.3	324.3	325.2	325.1
15.5°	326.0	325.0	325.4	324.9	322.5	321.9	322.6	323.3	323.3	324.4	324.3
16°	325.1	324.2	324.5	324.1	321.5	320.8	321.5	322.4	322.4	323.4	323.3
16.5°	324.3	323.2	323.5	323.1	320.4	319.8	320.5	321.4	321.3	322.5	322.4
17°	323.3	322.3	322.6	322.1	319.3	318.7	319.4	320.4	320.3	321.4	321.4
17.5°	322.4	321.2	321.5	321.1	318.3	317.6	318.4	319.3	319.2	320.5	320.3
18°	321.4	320.2	320.6	320.1	317.1	316.5	317.2	318.2	318.2	319.3	319.2
18.5°	320.3	319.1	319.4	319.0	316.0	315.2	316.1	317.0	317.0	318.3	318.2
19°	319.3	318.1	318.4	317.9	314.8	314.1	314.9	315.9	315.9	317.1	317.0
19.5°	318.2	317.0	317.3	316.7	313.6	312.8	313.7	314.7	314.7	316.0	315.8
20°	317.0	315.9	316.2	315.6	312.3	311.6	312.4	313.5	313.5	314.7	314.6
20.5°	316.0	314.7	315.0	314.4	311.1	310.3	311.2	312.3	312.3	313.6	313.4
21°	314.7	313.5	313.8	313.2	309.9	309.0	309.9	311.0	310.9	312.3	312.2



TEST NUMBER: P971904

CATALOG NUMBER: RLWZDZT56-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	311.1	309.8	310.1	309.4	305.9	305.0	305.9	307.1	307.0	308.4	308.2
23°	309.8	308.4	308.7	308.1	304.4	303.6	304.4	305.7	305.7	307.1	306.9
23.5°	308.5	307.1	307.5	306.7	303.1	302.1	303.0	304.3	304.2	305.8	305.5
24°	307.2	305.8	306.0	305.4	301.7	300.7	301.7	302.9	302.8	304.3	304.0
24.5°	305.8	304.4	304.7	304.0	300.2	299.3	300.1	301.4	301.4	302.9	302.6
25°	304.4	302.9	303.3	302.5	298.7	297.7	298.7	299.9	299.9	301.5	301.2
25.5°	303.1	301.6	301.8	301.1	297.2	296.2	297.2	298.5	298.4	300.0	299.7
26°	301.7	300.1	300.4	299.7	295.6	294.7	295.6	297.0	297.0	298.5	298.2
26.5°	300.1	298.6	298.9	298.2	294.1	293.2	294.1	295.4	295.5	297.0	296.7
27°	298.7	297.2	297.5	296.7	292.5	291.5	292.6	293.8	293.8	295.5	295.2
27.5°	297.3	295.6	295.9	295.2	291.0	289.9	291.0	292.3	292.3	293.9	293.6
28°	295.7	294.1	294.4	293.6	289.3	288.3	289.3	290.8	290.7	292.4	292.0
28.5°	294.2	292.6	292.9	292.1	287.7	286.7	287.7	289.1	289.1	290.8	290.4
29°	292.7	291.0	291.4	290.5	286.1	285.0	286.1	287.4	287.4	289.2	288.8
29.5°	291.1	289.4	289.7	288.9	284.4	283.3	284.4	285.8	285.8	287.5	287.2
30°	289.5	287.8	288.1	287.2	282.7	281.6	282.7	284.1	284.1	285.8	285.4
30.5°	287.9	286.1	286.5	285.5	280.9	279.8	280.9	282.4	282.4	284.1	283.7
31°	286.3	284.5	284.8	283.9	279.2	278.1	279.2	280.7	280.7	282.4	282.0
31.5°	284.6	282.9	283.1	282.2	277.5	276.4	277.4	278.9	278.9	280.7	280.3
32°	283.0	281.1	281.3	280.5	275.8	274.6	275.7	277.1	277.1	278.9	278.6
32.5°	281.2	279.4	279.6	278.8	273.9	272.6	273.8	275.4	275.3	277.1	276.8
33°	279.5	277.6	277.9	276.9	272.1	270.8	272.0	273.6	273.5	275.3	274.9
33.5°	277.8	275.8	276.2	275.2	270.3	269.0	270.1	271.8	271.7	273.5	273.1
34°	276.1	274.1	274.4	273.4	268.4	267.1	268.3	269.9	269.8	271.7	271.3
34.5°	274.3	272.3	272.6	271.5	266.4	265.2	266.3	268.0	267.9	269.8	269.4
35°	272.5	270.5	270.7	269.7	264.6	263.2	264.3	266.1	266.0	267.9	267.5
35.5°	270.6	268.5	268.9	267.9	262.6	261.2	262.4	264.1	264.0	265.9	265.5
36°	268.8	266.7	267.0	266.0	260.6	259.2	260.3	262.1	262.0	264.0	263.5
36.5°	266.9	264.8	265.1	264.1	258.6	257.2	258.3	260.0	259.9	262.0	261.5
37°	265.1	262.9	263.2	262.1	256.5	255.1	256.2	258.0	257.9	259.9	259.4
37.5°	263.1	260.9	261.2	260.1	254.5	252.9	254.1	255.9	255.8	257.9	257.3
38°	261.1	258.9	259.2	258.0	252.4	250.9	252.0	253.8	253.7	255.7	255.2
38.5°	259.1	256.9	257.2	256.0	250.2	248.7	249.8	251.7	251.4	253.6	253.1
39°	257.1	254.8	255.2	253.9	248.1	246.5	247.6	249.5	249.3	251.4	250.9
39.5°	255.0	252.7	253.1	251.8	245.9	244.3	245.4	247.2	247.1	249.2	248.7
40°	252.9	250.6	251.0	249.7	243.7	242.0	243.3	245.1	244.9	247.0	246.5
40.5°	250.8	248.5	248.9	247.5	241.5	239.7	241.0	242.8	242.6	244.8	244.2
41°	248.7	246.4	246.7	245.4	239.3	237.5	238.8	240.6	240.3	242.5	242.0
41.5°	246.5	244.2	244.6	243.2	237.1	235.2	236.5	238.2	238.1	240.3	239.7
42°	244.3	242.0	242.3	241.1	234.8	232.9	234.2	236.0	235.7	238.0	237.4
42.5°	242.1	239.8	240.2	238.8	232.5	230.6	231.8	233.6	233.4	235.7	235.1
43°	239.9	237.6	237.9	236.5	230.2	228.3	229.5	231.3	231.1	233.3	232.8
43.5°	237.7	235.3	235.6	234.3	227.9	225.9	227.1	229.0	228.7	230.9	230.5

TEST NUMBER: P971904

CATALOG NUMBER: RLWZDZT56-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	230.8	228.5	228.8	227.3	220.7	218.7	219.9	221.8	221.5	223.8	223.2
45.5°	228.5	226.1	226.6	225.0	218.3	216.2	217.5	219.4	219.0	221.4	220.8
46°	226.2	223.8	224.2	222.6	215.9	213.8	215.0	216.8	216.5	218.9	218.3
46.5°	223.9	221.4	221.8	220.3	213.5	211.3	212.4	214.4	214.1	216.4	215.9
47°	221.5	219.0	219.4	217.8	211.0	208.8	209.9	211.9	211.6	214.0	213.4
47.5°	219.0	216.5	217.0	215.4	208.4	206.3	207.5	209.5	209.1	211.5	211.0
48°	216.5	214.1	214.6	213.0	206.0	203.7	205.0	206.9	206.5	208.9	208.4
48.5°	214.1	211.7	212.1	210.5	203.5	201.3	202.3	204.3	203.9	206.3	205.8
49°	211.8	209.3	209.6	207.9	200.9	198.7	199.8	201.7	201.4	203.7	203.2
49.5°	209.3	206.7	207.2	205.5	198.3	196.0	197.2	199.1	198.8	201.2	200.7
50°	206.8	204.2	204.7	203.0	195.8	193.4	194.6	196.5	196.1	198.6	198.1
50.5°	204.3	201.7	202.2	200.5	193.2	190.9	191.9	193.9	193.4	195.9	195.4
51°	201.6	199.2	199.6	197.9	190.6	188.2	189.3	191.2	190.9	193.3	192.8
51.5°	199.2	196.6	197.1	195.3	188.0	185.5	186.7	188.6	188.2	190.8	190.1
52°	196.6	194.0	194.5	192.8	185.2	182.8	183.9	185.9	185.5	188.0	187.3
52.5°	194.0	191.4	191.9	190.1	182.6	180.2	181.2	183.2	182.8	185.2	184.7
53°	191.3	188.9	189.2	187.4	180.0	177.4	178.5	180.5	180.1	182.6	181.9
53.5°	188.8	186.2	186.7	184.9	177.2	174.6	175.8	177.7	177.3	179.9	179.2
54°	186.1	183.5	184.0	182.2	174.4	172.0	173.0	174.9	174.5	177.0	176.4
54.5°	183.4	180.8	181.3	179.5	171.8	169.2	170.2	172.3	171.8	174.3	173.6
55°	180.7	178.2	178.6	176.7	169.0	166.3	167.4	169.5	169.0	171.4	170.8
55.5°	178.1	175.5	175.9	174.1	166.2	163.6	164.6	166.6	166.1	168.7	168.0
56°	175.4	172.6	173.2	171.4	163.4	160.7	161.9	163.8	163.3	165.9	165.2
56.5°	172.6	170.1	170.5	168.6	160.6	157.9	159.0	161.0	160.4	163.0	162.3
57°	170.0	167.3	167.8	165.9	157.8	155.1	156.1	158.0	157.7	160.1	159.5
57.5°	167.2	164.5	165.0	163.1	155.0	152.2	153.3	155.3	154.8	157.4	156.6
58°	164.3	161.8	162.2	160.2	152.2	149.4	150.5	152.4	151.8	154.4	153.7
58.5°	161.6	158.9	159.4	157.6	149.4	146.5	147.5	149.4	149.0	151.5	150.8
59°	158.8	156.1	156.6	154.7	146.5	143.6	144.7	146.6	146.0	148.6	147.8
59.5°	155.9	153.4	153.7	151.9	143.5	140.8	141.7	143.7	143.1	145.7	145.0
60°	153.2	150.5	151.0	149.1	140.8	137.8	138.9	140.8	140.3	142.8	142.1
60.5°	150.3	147.6	148.1	146.2	137.9	134.9	136.0	137.8	137.3	139.9	139.1
61°	147.4	144.9	145.3	143.3	134.9	132.1	133.1	134.9	134.4	136.9	136.2
61.5°	144.6	142.0	142.5	140.4	132.1	129.2	130.2	132.1	131.5	134.0	133.2
62°	141.7	139.0	139.6	137.6	129.2	126.3	127.2	129.1	128.5	131.0	130.3
62.5°	138.9	136.3	136.7	134.7	126.3	123.3	124.3	126.1	125.6	128.1	127.3
63°	136.0	133.3	133.9	131.8	123.4	120.4	121.4	123.2	122.6	125.1	124.3
63.5°	133.1	130.5	131.0	128.9	120.4	117.5	118.5	120.3	119.7	122.2	121.4
64°	130.3	127.6	128.2	126.0	117.5	114.6	115.6	117.4	116.7	119.2	118.4
64.5°	127.3	124.7	125.2	123.1	114.6	111.8	112.6	114.4	113.8	116.2	115.5
65°	124.3	121.7	122.3	120.2	111.8	108.7	109.7	111.5	110.9	113.4	112.5
65.5°	121.5	118.9	119.4	117.2	108.8	105.7	106.8	108.5	107.8	110.3	109.6
66°	118.5	116.0	116.5	114.4	105.8	102.9	103.8	105.5	105.0	107.4	106.6

TEST NUMBER: P971904

CATALOG NUMBER: RLWZDZT56-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	109.8	107.3	107.8	105.6	97.1	94.3	95.1	96.9	96.2	98.6	97.7
68°	106.9	104.3	105.0	102.8	94.3	91.3	92.2	94.0	93.3	95.6	94.8
68.5°	104.0	101.4	102.0	99.8	91.4	88.6	89.4	91.1	90.5	92.9	91.8
69°	101.2	98.5	99.1	97.0	88.6	85.7	86.6	88.3	87.6	89.9	88.8
69.5°	98.1	95.7	96.3	94.1	85.7	82.9	83.8	85.5	84.8	87.0	86.0
70°	95.2	92.9	93.3	91.2	82.9	80.2	81.0	82.6	82.1	84.2	83.1
70.5°	92.5	90.0	90.6	88.3	80.2	77.3	78.3	79.9	79.2	81.4	80.3
71°	89.6	86.9	87.6	85.5	77.3	74.5	75.5	77.0	76.4	78.5	77.5
71.5°	86.7	84.3	84.7	82.6	74.5	71.8	72.7	74.2	73.7	75.7	74.6
72°	83.9	81.5	82.0	79.8	71.8	69.0	70.0	71.7	70.8	72.9	71.8
72.5°	81.0	78.6	79.1	76.9	69.0	66.3	67.3	68.9	68.0	70.1	69.0
73°	78.3	75.9	76.3	74.2	66.2	63.6	64.5	66.2	65.4	67.3	66.2
73.5°	75.4	73.1	73.6	71.4	63.5	60.9	61.9	63.6	62.7	64.6	63.5
74°	72.6	70.3	70.8	68.6	60.9	58.3	59.3	60.9	60.0	61.8	60.7
74.5°	69.9	67.5	68.0	65.9	58.2	55.7	56.6	58.2	57.4	59.2	58.0
75°	67.1	64.8	65.3	63.2	55.5	53.1	54.0	55.6	54.8	56.5	55.4
75.5°	64.4	62.0	62.6	60.5	53.0	50.5	51.4	53.1	52.2	53.8	52.8
76°	61.7	59.5	59.9	57.8	50.4	48.0	49.0	50.6	49.6	51.3	50.2
76.5°	59.1	56.8	57.3	55.3	47.9	45.5	46.6	48.0	47.1	48.8	47.7
77°	56.4	54.1	54.7	52.7	45.5	43.1	44.1	45.6	44.7	46.3	45.1
77.5°	53.7	51.5	52.1	50.1	43.0	40.7	41.7	43.1	42.2	43.7	42.7
78°	51.2	49.1	49.4	47.6	40.6	38.4	39.3	40.7	39.8	41.3	40.3
78.5°	48.8	46.6	47.0	45.1	38.3	36.1	36.9	38.4	37.4	38.8	37.8
79°	46.2	44.1	44.6	42.8	35.9	33.8	34.6	36.0	35.1	36.6	35.5
79.5°	43.7	41.6	42.1	40.4	33.6	31.5	32.4	33.8	32.8	34.3	33.2
80°	41.3	39.2	39.7	38.0	31.4	29.4	30.3	31.5	30.6	32.0	30.9
80.5°	38.9	36.8	37.2	35.6	29.3	27.2	28.1	29.3	28.3	29.7	28.7
81°	36.6	34.4	34.8	33.5	27.1	25.1	26.0	27.1	26.2	27.5	26.6
81.5°	34.6	32.3	32.6	31.3	25.0	23.1	23.9	25.0	24.1	25.5	24.5
82°	32.4	30.1	30.5	29.2	23.0	21.2	21.9	23.0	22.1	23.4	22.4
82.5°	30.2	28.0	28.4	27.0	21.0	19.2	19.8	21.0	20.2	21.4	20.5
83°	28.0	25.9	26.3	24.9	19.1	17.4	18.0	19.1	18.2	19.4	18.6
83.5°	25.7	23.8	24.1	22.8	17.3	15.6	16.2	17.2	16.3	17.5	16.7
84°	23.6	21.8	22.1	20.8	15.5	13.8	14.4	15.4	14.6	15.7	14.9
84.5°	21.6	19.8	20.2	18.9	13.7	12.1	12.6	13.6	12.8	13.8	13.2
85°	19.6	17.8	18.2	17.0	12.0	10.7	11.0	11.8	11.2	12.2	11.5
85.5°	17.7	16.0	16.4	15.3	10.6	9.3	9.6	10.4	9.8	10.7	10.0
86°	15.8	14.2	14.6	13.5	9.2	7.8	8.3	9.1	8.4	9.3	8.7
86.5°	14.0	12.5	12.9	11.8	7.8	6.4	6.9	7.6	7.0	7.8	7.3
87°	12.3	10.9	11.2	10.2	6.4	5.0	5.5	6.2	5.6	6.4	5.8
87.5°	10.6	9.4	9.7	8.7	5.0	3.8	4.2	4.8	4.2	5.0	4.5
88°	9.1	7.8	8.2	7.3	3.8	2.9	3.1	3.6	3.1	3.8	3.4
88.5°	7.6	6.5	6.8	6.0	2.9	2.1	2.3	2.7	2.4	2.9	2.5



TEST NUMBER: P971904
CATALOG NUMBER: RLWZDZT56-4000K

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: P971904

CATALOG NUMBER: RLWZDZT56-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	339.1	339.1	339.1	339.1	339.1	339.1
0.5°	339.3	339.1	339.1	339.2	339.1	339.0
1°	339.3	339.1	339.2	339.2	339.1	339.0
1.5°	339.2	339.1	339.2	339.2	339.1	338.9
2°	339.1	339.1	339.2	339.2	339.0	338.9
2.5°	338.9	339.0	339.2	339.1	338.9	338.8
3°	338.8	338.9	339.1	339.0	338.8	338.7
3.5°	338.6	338.8	339.0	338.9	338.6	338.5
4°	338.3	338.6	338.8	338.8	338.5	338.3
4.5°	338.0	338.4	338.6	338.6	338.2	338.1
5°	337.7	338.2	338.5	338.3	338.0	337.8
5.5°	337.4	338.0	338.2	338.1	337.7	337.5
6°	337.1	337.7	338.0	337.8	337.4	337.3
6.5°	336.7	337.3	337.7	337.5	337.1	337.0
7°	336.3	337.1	337.3	337.3	336.8	336.6
7.5°	335.9	336.7	337.1	336.9	336.4	336.2
8°	335.4	336.3	336.7	336.5	336.0	335.7
8.5°	334.9	335.9	336.3	336.0	335.5	335.3
9°	334.4	335.4	335.8	335.6	335.1	334.9
9.5°	333.8	335.0	335.3	335.2	334.5	334.4
10°	333.2	334.5	334.9	334.6	334.0	333.8
10.5°	332.6	333.9	334.4	334.1	333.4	333.2
11°	331.9	333.3	333.8	333.5	332.9	332.7
11.5°	331.3	332.8	333.2	333.0	332.2	332.0
12°	330.6	332.1	332.7	332.3	331.5	331.4
12.5°	329.8	331.4	332.0	331.6	330.9	330.8
13°	329.1	330.8	331.3	330.9	330.2	330.0
13.5°	328.3	330.0	330.6	330.2	329.4	329.2
14°	327.5	329.2	329.8	329.4	328.7	328.5
14.5°	326.7	328.5	329.1	328.7	327.8	327.7
15°	325.8	327.7	328.3	327.9	327.0	326.9
15.5°	324.8	326.9	327.5	327.0	326.2	326.0
16°	323.9	326.0	326.7	326.2	325.2	325.1
16.5°	322.9	325.1	325.8	325.3	324.4	324.3
17°	322.0	324.2	324.9	324.4	323.5	323.3
17.5°	320.9	323.2	324.0	323.4	322.5	322.4
18°	319.9	322.3	323.0	322.5	321.5	321.4
18.5°	318.7	321.2	322.0	321.5	320.5	320.3
19°	317.7	320.2	321.0	320.5	319.4	319.3
19.5°	316.5	319.1	320.0	319.3	318.4	318.2
20°	315.3	318.0	318.9	318.3	317.2	317.0
20.5°	314.2	316.9	317.8	317.2	316.1	316.0
21°	312.8	315.8	316.6	316.0	314.8	314.7



TEST NUMBER: P971904

CATALOG NUMBER: RLWZDZT56-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	309.0	312.2	313.1	312.4	311.2	311.1
23°	307.7	310.8	311.8	311.1	310.0	309.8
23.5°	306.2	309.6	310.5	309.9	308.6	308.5
24°	304.8	308.2	309.3	308.4	307.3	307.2
24.5°	303.4	306.7	308.0	307.2	306.0	305.8
25°	301.9	305.4	306.5	305.9	304.5	304.4
25.5°	300.5	304.0	305.2	304.4	303.2	303.1
26°	299.0	302.6	303.7	303.0	301.8	301.7
26.5°	297.6	301.2	302.3	301.7	300.2	300.1
27°	296.0	299.7	300.9	300.2	298.8	298.7
27.5°	294.5	298.2	299.5	298.7	297.4	297.3
28°	293.0	296.7	297.9	297.2	295.8	295.7
28.5°	291.3	295.2	296.4	295.6	294.3	294.2
29°	289.6	293.6	294.9	294.1	292.8	292.7
29.5°	288.0	292.0	293.4	292.6	291.3	291.1
30°	286.4	290.5	291.8	291.0	289.6	289.5
30.5°	284.7	288.8	290.2	289.3	288.0	287.9
31°	283.0	287.2	288.6	287.7	286.4	286.3
31.5°	281.2	285.5	287.0	286.1	284.8	284.6
32°	279.5	283.8	285.3	284.5	283.0	283.0
32.5°	277.8	282.1	283.6	282.8	281.3	281.2
33°	275.9	280.4	281.9	281.1	279.6	279.5
33.5°	274.1	278.7	280.2	279.3	277.9	277.8
34°	272.3	276.9	278.5	277.6	276.2	276.1
34.5°	270.5	275.0	276.8	275.8	274.4	274.3
35°	268.5	273.2	274.8	274.1	272.6	272.5
35.5°	266.5	271.4	273.1	272.2	270.7	270.6
36°	264.6	269.6	271.2	270.5	268.9	268.8
36.5°	262.6	267.7	269.3	268.5	267.0	266.9
37°	260.5	265.7	267.4	266.6	265.1	265.1
37.5°	258.5	263.8	265.5	264.7	263.1	263.1
38°	256.4	261.7	263.6	262.7	261.2	261.1
38.5°	254.3	259.7	261.6	260.7	259.1	259.1
39°	252.1	257.6	259.6	258.7	257.1	257.1
39.5°	250.0	255.6	257.5	256.7	255.1	255.0
40°	247.7	253.4	255.4	254.6	253.0	252.9
40.5°	245.5	251.3	253.2	252.4	250.9	250.8
41°	243.4	249.1	251.1	250.3	248.7	248.7
41.5°	241.1	246.9	248.9	248.1	246.5	246.5
42°	238.8	244.6	246.8	245.9	244.3	244.3
42.5°	236.5	242.5	244.6	243.7	242.1	242.1
43°	234.3	240.2	242.4	241.5	239.9	239.9
43.5°	231.9	237.9	240.1	239.2	237.6	237.7



TEST NUMBER: P971904

CATALOG NUMBER: RLWZDZT56-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	224.7	230.9	233.2	232.5	230.8	230.8
45.5°	222.4	228.6	230.8	230.1	228.5	228.5
46°	219.8	226.3	228.6	227.7	226.1	226.2
46.5°	217.4	223.8	226.2	225.4	223.8	223.9
47°	214.9	221.4	223.8	223.0	221.4	221.5
47.5°	212.4	218.9	221.4	220.6	219.0	219.0
48°	209.9	216.5	218.9	218.2	216.5	216.5
48.5°	207.4	214.0	216.4	215.7	214.1	214.1
49°	204.8	211.6	214.1	213.3	211.6	211.8
49.5°	202.2	209.1	211.6	210.8	209.1	209.3
50°	199.6	206.5	209.0	208.3	206.6	206.8
50.5°	197.1	203.9	206.4	205.8	204.0	204.3
51°	194.4	201.4	203.8	203.2	201.5	201.6
51.5°	191.7	198.8	201.4	200.6	198.9	199.2
52°	189.0	196.1	198.7	198.0	196.3	196.6
52.5°	186.4	193.5	196.1	195.4	193.7	194.0
53°	183.6	190.9	193.4	192.8	191.1	191.3
53.5°	180.8	188.2	190.9	190.1	188.5	188.8
54°	178.2	185.4	188.2	187.4	185.8	186.1
54.5°	175.4	182.8	185.5	184.8	183.1	183.4
55°	172.5	180.1	182.8	182.1	180.5	180.7
55.5°	169.8	177.3	180.1	179.4	177.7	178.1
56°	167.0	174.4	177.3	176.6	175.0	175.4
56.5°	164.1	171.8	174.5	173.9	172.3	172.6
57°	161.3	168.9	171.8	171.1	169.5	170.0
57.5°	158.3	166.1	169.0	168.3	166.7	167.2
58°	155.5	163.4	166.1	165.5	164.0	164.3
58.5°	152.6	160.5	163.4	162.7	161.1	161.6
59°	149.7	157.6	160.6	159.9	158.2	158.8
59.5°	146.8	154.7	157.7	157.1	155.4	155.9
60°	143.9	151.8	154.8	154.2	152.6	153.2
60.5°	141.0	149.0	152.0	151.4	149.7	150.3
61°	138.1	146.0	149.2	148.5	146.9	147.4
61.5°	135.0	143.1	146.3	145.6	144.0	144.6
62°	132.1	140.3	143.4	142.8	141.1	141.7
62.5°	129.2	137.3	140.5	139.9	138.3	138.9
63°	126.2	134.5	137.5	136.9	135.3	136.0
63.5°	123.3	131.5	134.7	134.0	132.4	133.1
64°	120.2	128.5	131.7	131.1	129.5	130.3
64.5°	117.3	125.6	128.7	128.2	126.5	127.3
65°	114.3	122.6	125.9	125.3	123.7	124.3
65.5°	111.4	119.8	122.9	122.3	120.7	121.5
66°	108.4	116.7	120.0	119.4	117.9	118.5



TEST NUMBER: P971904

CATALOG NUMBER: RLWZDZT56-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	99.5	107.8	111.1	110.6	109.0	109.8
68°	96.6	104.9	108.1	107.6	106.1	106.9
68.5°	93.7	101.9	105.3	104.7	103.2	104.0
69°	90.8	99.0	102.3	101.7	100.2	101.2
69.5°	87.9	96.1	99.3	98.9	97.3	98.1
70°	84.9	93.1	96.5	96.0	94.5	95.2
70.5°	82.1	90.3	93.6	93.0	91.6	92.5
71°	79.2	87.3	90.6	90.2	88.7	89.6
71.5°	76.3	84.5	87.7	87.3	85.8	86.7
72°	73.5	81.5	84.8	84.5	82.9	83.9
72.5°	70.7	78.7	82.0	81.5	80.2	81.0
73°	67.9	75.8	79.1	78.7	77.3	78.3
73.5°	65.1	73.0	76.2	75.9	74.5	75.4
74°	62.3	70.1	73.5	73.1	71.7	72.6
74.5°	59.6	67.4	70.7	70.2	69.0	69.9
75°	57.0	64.7	67.9	67.6	66.3	67.1
75.5°	54.3	61.9	65.1	64.8	63.6	64.4
76°	51.7	59.2	62.4	62.0	60.9	61.7
76.5°	49.1	56.5	59.6	59.3	58.2	59.1
77°	46.6	53.8	57.0	56.7	55.6	56.4
77.5°	44.1	51.2	54.3	54.0	53.1	53.7
78°	41.6	48.7	51.7	51.5	50.4	51.2
78.5°	39.2	46.1	49.1	49.0	47.9	48.8
79°	36.8	43.6	46.6	46.4	45.4	46.2
79.5°	34.5	41.1	44.0	43.8	43.0	43.7
80°	32.3	38.6	41.5	41.4	40.6	41.3
80.5°	30.0	36.4	39.0	38.9	38.1	38.9
81°	27.8	34.0	36.6	36.6	35.9	36.6
81.5°	25.6	31.6	34.5	34.6	33.7	34.6
82°	23.6	29.5	32.3	32.4	31.5	32.4
82.5°	21.6	27.4	30.1	30.1	29.3	30.2
83°	19.6	25.3	27.8	27.8	27.1	28.0
83.5°	17.7	23.2	25.5	25.5	24.9	25.7
84°	15.7	21.1	23.4	23.5	22.8	23.6
84.5°	13.9	19.1	21.3	21.4	20.8	21.6
85°	12.2	17.2	19.4	19.5	18.9	19.6
85.5°	10.8	15.4	17.5	17.5	17.0	17.7
86°	9.4	13.6	15.6	15.7	15.1	15.8
86.5°	7.9	11.8	13.6	13.8	13.3	14.0
87°	6.5	10.2	12.0	12.0	11.6	12.3
87.5°	5.0	8.7	10.4	10.4	10.0	10.6
88°	3.8	7.3	8.9	8.9	8.5	9.1
88.5°	2.9	5.9	7.3	7.4	7.1	7.6



TEST NUMBER: P971904

CATALOG NUMBER: RLWZDZT56-4000K

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



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







21.5°	313.5	312.3	312.6	312.0	308.5	307.7	308.6	309.8	309.7	311.1	310.9
22°	312.3	311.0	311.3	310.7	307.2	306.3	307.3	308.4	308.3	309.8	309.6



44°	235.4	233.0	233.4	232.0	225.5	223.5	224.7	226.6	226.4	228.7	228.1
44.5°	233.1	230.8	231.1	229.7	223.1	221.1	222.4	224.2	223.9	226.2	225.6



66.5°	115.7	113.1	113.7	111.5	103.0	100.0	101.0	102.7	102.0	104.5	103.6
67°	112.7	110.0	110.8	108.6	100.1	97.1	98.0	99.8	99.2	101.5	100.7



89°	6.3	5.2	5.5	4.8	2.1	1.5	1.7	2.0	1.7	2.1	1.8
89.5°	5.0	4.1	4.3	3.6	1.5	1.0	1.1	1.3	1.0	1.4	1.2





21.5°	311.6	314.6	315.5	314.8	313.7	313.5
22°	310.3	313.3	314.4	313.6	312.4	312.3



44°	229.5	235.6	237.8	237.1	235.4	235.4
44.5°	227.1	233.3	235.5	234.8	233.1	233.1



66.5°	105.5	113.8	117.0	116.4	114.9	115.7
67°	102.5	110.8	114.0	113.6	111.9	112.7



89°	2.1	4.7	6.1	6.1	5.7	6.3
89.5°	1.4	3.5	4.8	4.8	4.5	5.0



(END OF REPORT)