

Scaled data based on original data using  
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: P522103

Luminaire Tested: **RLLV6069BLE40AWHDM-2700K-UNIT**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522103  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1809075B001)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RLLV6069BLE40AWHDM-2700K-UNIT  
Description: Surface Mount Downlight Fixture, Single Unit  
Light Source: (16) 2700K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

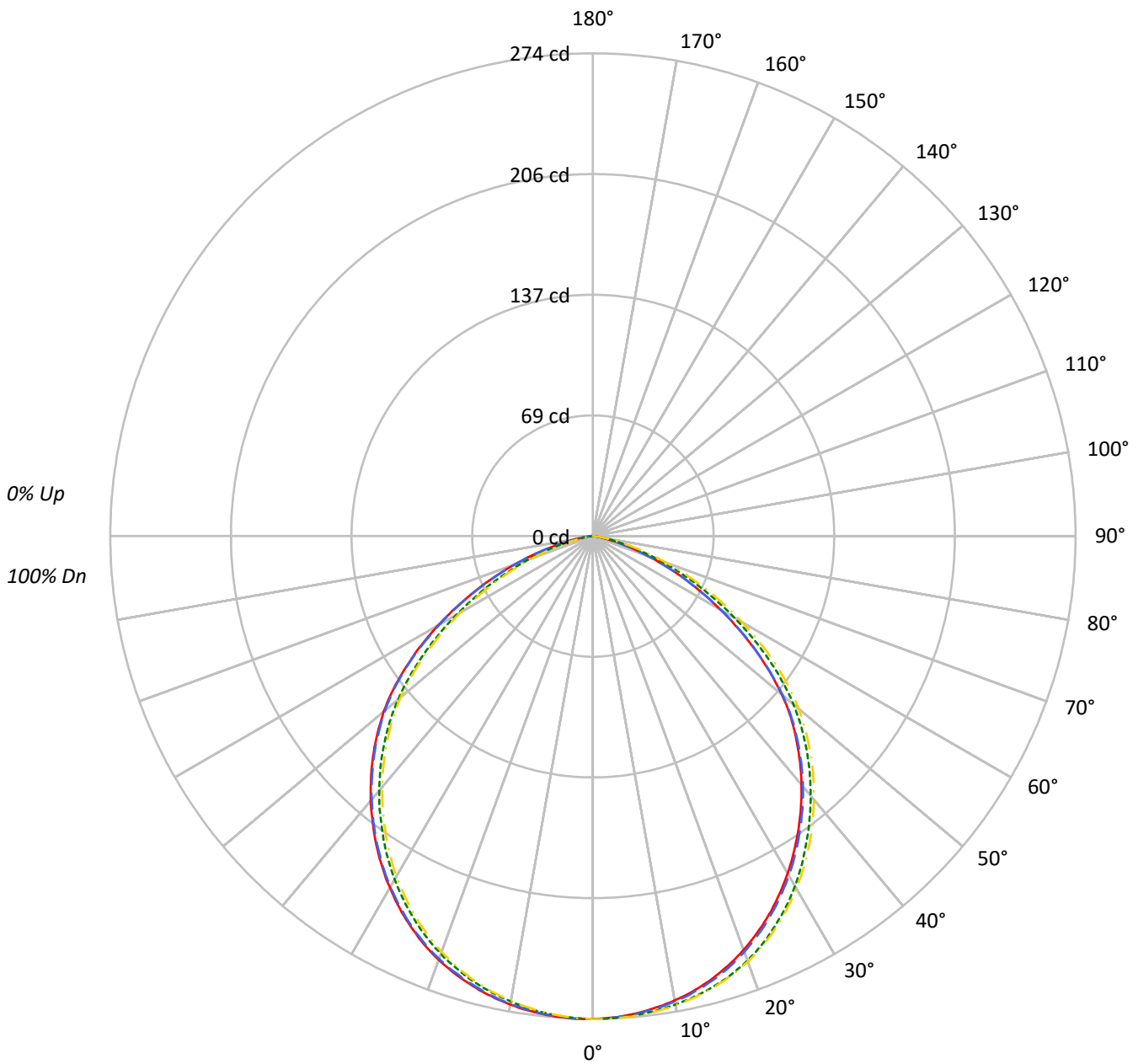
Lumens per Lamp: 706.09 (16 lamps)  
Luminaire Lumens: 670.0 lumens  
Efficiency: 5.9%  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.7  
Input Voltage (V): 120  
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



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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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6
1	7	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5
2	6	6	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4
3	6	5	4	4	5	5	4	4	5	4	4	5	4	4	4	4	4	4	4	4	4
4	5	4	4	4	5	4	4	4	4	4	3	4	4	3	4	4	3	4	4	3	3
5	5	4	3	3	5	4	3	3	4	3	3	4	3	3	4	3	3	4	3	3	3
6	4	4	3	3	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
7	4	3	3	2	4	3	3	2	3	3	2	3	3	2	3	3	2	3	3	2	2
8	4	3	2	2	4	3	2	2	3	2	2	3	2	2	3	2	2	3	2	2	2
9	3	3	2	2	3	3	2	2	3	2	2	3	2	2	2	2	2	2	2	2	2
10	3	3	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

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

	0°	90°	180°	270°
0°	15032	15032	15032	15032
5°	14974	15029	15040	14996
10°	14896	15035	15035	14935
15°	14779	15023	15000	14858
20°	14585	14958	14935	14719
25°	14323	14783	14795	14517
30°	13996	14521	14585	14243
35°	13612	14154	14342	13907
40°	13182	13754	14041	13504
45°	12668	13304	13676	13009
50°	11940	12673	13219	12315
55°	10733	11641	12387	11240
60°	9199	10186	11139	9824
65°	7420	8444	9547	8185
70°	5402	6459	7662	6235
75°	3283	4215	5359	4024
80°	1673	2210	3031	2052
85°	818	1321	1887	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.9	3.9	0.2
10°-20°	74.1	11.1	0.7
20°-30°	111.2	16.6	1.0
30°-40°	130.9	19.5	1.2
40°-50°	130.9	19.5	1.2
50°-60°	107.4	16.0	1.0
60°-70°	64.5	9.6	0.6
70°-80°	22.3	3.3	0.2
80°-90°	2.7	0.4	0.0
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	211.2	31.5	1.9
0°-40°	342.1	51.1	3.0
0°-60°	580.4	86.6	5.1
0°-90°	670.0	100.0	5.9
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	670.0	100.0	5.9

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	274	274	274	274	274	
5°	272	273	273	272	272	26
15°	260	265	264	262	260	73
25°	237	244	245	240	237	109
35°	203	212	214	208	203	127
45°	163	172	176	168	163	126
55°	112	122	130	118	112	100
65°	57	65	74	63	57	57
75°	16	20	25	19	16	18
85°	1	2	3	2	1	2
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°	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2	274.2
0.5°	274.0	274.0	274.2	274.3	274.1	274.1	274.2	274.2	274.2	274.2	274.2
1°	273.9	273.9	274.1	274.3	274.1	274.2	274.2	274.2	274.2	274.2	274.2
1.5°	273.8	273.7	273.9	274.2	274.0	274.2	274.2	274.2	274.2	274.2	274.2
2°	273.6	273.6	273.8	274.2	274.0	274.1	274.2	274.2	274.2	274.2	274.1
2.5°	273.5	273.4	273.6	274.1	273.9	274.0	274.1	274.2	274.1	274.1	273.9
3°	273.3	273.3	273.5	273.9	273.8	273.9	274.0	274.0	274.0	273.9	273.8
3.5°	273.0	273.1	273.2	273.7	273.6	273.8	273.8	273.9	273.8	273.8	273.6
4°	272.7	272.8	273.0	273.5	273.5	273.7	273.7	273.8	273.7	273.6	273.4
4.5°	272.5	272.5	272.8	273.3	273.3	273.5	273.6	273.6	273.5	273.4	273.3
5°	272.1	272.2	272.5	273.1	273.1	273.3	273.4	273.5	273.3	273.2	273.1
5.5°	271.8	271.9	272.1	272.8	272.9	273.1	273.2	273.2	273.1	272.9	272.8
6°	271.4	271.5	271.8	272.5	272.7	272.8	273.1	272.9	272.8	272.7	272.6
6.5°	271.1	271.2	271.4	272.1	272.5	272.7	272.8	272.7	272.6	272.3	272.3
7°	270.6	270.8	271.1	271.8	272.1	272.3	272.6	272.4	272.3	272.0	272.0
7.5°	270.1	270.4	270.6	271.4	271.8	272.0	272.2	272.1	272.0	271.7	271.6
8°	269.7	270.0	270.2	271.1	271.5	271.7	271.9	271.7	271.6	271.4	271.4
8.5°	269.3	269.5	269.8	270.6	271.2	271.4	271.5	271.4	271.3	271.0	270.9
9°	268.7	268.9	269.3	270.1	270.8	271.0	271.2	271.0	270.9	270.5	270.4
9.5°	268.3	268.5	268.7	269.8	270.4	270.6	270.8	270.5	270.4	270.1	270.1
10°	267.6	267.9	268.3	269.2	270.1	270.2	270.4	270.1	270.1	269.6	269.6
10.5°	267.0	267.3	267.7	268.7	269.6	269.9	270.0	269.6	269.6	269.2	269.1
11°	266.4	266.7	267.1	268.2	269.1	269.4	269.5	269.2	269.1	268.7	268.7
11.5°	265.8	266.0	266.5	267.6	268.7	268.9	269.1	268.7	268.6	268.2	268.2
12°	265.1	265.4	265.9	267.1	268.2	268.5	268.6	268.2	268.1	267.5	267.5
12.5°	264.4	264.7	265.1	266.4	267.6	267.9	268.1	267.6	267.4	267.0	267.0
13°	263.6	264.1	264.5	265.9	267.1	267.3	267.5	267.0	266.9	266.3	266.4
13.5°	262.9	263.3	263.7	265.1	266.5	266.8	267.0	266.3	266.3	265.7	265.8
14°	262.0	262.6	263.0	264.5	266.0	266.2	266.4	265.8	265.7	265.0	265.0
14.5°	261.3	261.8	262.1	263.7	265.3	265.6	265.8	265.0	264.9	264.4	264.4
15°	260.4	260.9	261.4	263.1	264.7	264.9	265.1	264.4	264.3	263.6	263.6
15.5°	259.4	260.0	260.5	262.1	264.0	264.3	264.5	263.6	263.5	262.9	263.0
16°	258.5	259.1	259.6	261.3	263.2	263.5	263.7	262.9	262.8	262.1	262.2
16.5°	257.6	258.1	258.6	260.4	262.6	262.9	263.1	262.1	262.0	261.4	261.5
17°	256.5	257.2	257.7	259.4	261.9	262.0	262.2	261.4	261.3	260.5	260.5
17.5°	255.6	256.2	256.7	258.5	261.0	261.3	261.6	260.5	260.5	259.7	259.8
18°	254.5	255.1	255.6	257.5	260.2	260.4	260.6	259.7	259.6	258.8	259.0
18.5°	253.5	254.0	254.6	256.4	259.2	259.5	259.9	258.8	258.7	257.9	258.1
19°	252.3	252.9	253.5	255.3	258.4	258.6	259.0	258.0	257.8	257.0	257.2
19.5°	251.2	251.8	252.4	254.3	257.4	257.7	258.0	257.0	256.9	256.2	256.3
20°	250.0	250.7	251.2	253.1	256.4	256.7	257.1	256.2	256.0	255.2	255.3
20.5°	248.8	249.4	250.0	252.0	255.4	255.7	256.1	255.1	255.0	254.3	254.3
21°	247.6	248.3	248.8	250.9	254.3	254.7	255.0	254.1	254.0	253.2	253.3
21.5°	246.3	246.9	247.6	249.6	253.2	253.6	253.9	253.0	252.9	252.2	252.3
22°	245.0	245.6	246.3	248.4	252.0	252.4	252.8	252.0	251.8	251.0	251.1



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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°	243.7	244.3	245.0	247.0	250.9	251.3	251.6	250.8	250.7	249.9	250.0
23°	242.4	243.0	243.7	245.8	249.6	250.2	250.5	249.6	249.5	248.7	248.8
23.5°	241.1	241.6	242.4	244.4	248.4	248.9	249.3	248.5	248.4	247.6	247.6
24°	239.7	240.3	241.0	243.1	247.0	247.6	248.2	247.2	247.1	246.4	246.5
24.5°	238.2	239.0	239.6	241.7	245.7	246.3	246.8	246.0	245.9	245.1	245.2
25°	236.8	237.5	238.1	240.3	244.4	245.0	245.5	244.7	244.6	243.8	244.0
25.5°	235.4	236.0	236.7	238.9	243.0	243.6	244.2	243.4	243.3	242.5	242.7
26°	233.8	234.6	235.3	237.4	241.6	242.2	242.8	242.1	242.0	241.2	241.4
26.5°	232.3	233.1	233.7	235.9	240.2	240.8	241.5	240.7	240.7	239.8	240.0
27°	230.7	231.6	232.1	234.4	238.7	239.5	240.0	239.4	239.3	238.4	238.6
27.5°	229.2	230.0	230.6	232.8	237.3	238.0	238.6	238.0	237.9	237.0	237.2
28°	227.6	228.5	229.0	231.2	235.8	236.3	237.2	236.4	236.5	235.7	235.8
28.5°	226.0	226.8	227.4	229.6	234.3	234.8	235.7	235.0	235.1	234.1	234.4
29°	224.4	225.2	225.9	228.0	232.6	233.2	234.2	233.4	233.5	232.6	232.9
29.5°	222.7	223.6	224.2	226.3	231.0	231.7	232.6	231.9	232.0	231.1	231.4
30°	221.1	222.0	222.5	224.7	229.4	230.0	231.1	230.4	230.4	229.7	229.9
30.5°	219.5	220.2	220.8	223.0	227.7	228.4	229.4	228.9	229.0	228.1	228.4
31°	217.7	218.5	219.2	221.3	226.0	226.7	227.7	227.3	227.6	226.5	226.8
31.5°	216.0	216.8	217.4	219.5	224.3	224.9	226.2	225.6	226.0	224.9	225.2
32°	214.2	215.2	215.6	217.9	222.5	223.2	224.5	223.9	224.3	223.3	223.6
32.5°	212.5	213.4	213.9	216.1	220.8	221.4	222.8	222.3	222.6	221.7	222.0
33°	210.7	211.6	212.1	214.3	219.0	219.6	221.1	220.7	221.0	220.0	220.3
33.5°	208.8	209.9	210.2	212.5	217.1	217.9	219.5	219.0	219.4	218.3	218.6
34°	207.1	208.1	208.5	210.6	215.3	216.0	217.7	217.2	217.7	216.7	216.9
34.5°	205.2	206.2	206.7	208.7	213.4	214.1	215.9	215.5	216.0	215.0	215.3
35°	203.4	204.4	204.8	206.9	211.5	212.3	214.1	213.8	214.3	213.3	213.6
35.5°	201.6	202.7	203.0	205.0	209.7	210.3	212.3	212.0	212.6	211.5	211.8
36°	199.7	200.7	201.1	203.1	207.8	208.5	210.4	210.2	210.8	209.8	210.0
36.5°	197.7	198.9	199.1	201.2	205.9	206.6	208.5	208.4	208.9	208.0	208.3
37°	195.9	196.9	197.2	199.2	204.0	204.6	206.7	206.7	207.2	206.1	206.4
37.5°	194.0	195.0	195.4	197.3	202.0	202.8	204.7	204.8	205.3	204.4	204.6
38°	192.1	193.2	193.5	195.3	200.2	200.9	202.9	203.0	203.5	202.6	202.8
38.5°	190.2	191.2	191.5	193.4	198.2	199.0	201.0	201.1	201.7	200.7	201.0
39°	188.2	189.3	189.5	191.4	196.2	197.0	199.0	199.2	199.9	198.9	199.1
39.5°	186.2	187.3	187.5	189.4	194.4	195.0	197.1	197.3	198.0	197.0	197.2
40°	184.2	185.3	185.4	187.4	192.2	193.1	195.1	195.4	196.2	195.1	195.3
40.5°	182.2	183.3	183.6	185.3	190.2	191.0	193.1	193.5	194.2	193.3	193.5
41°	180.2	181.3	181.4	183.3	188.2	189.0	191.1	191.6	192.2	191.3	191.5
41.5°	178.2	179.2	179.4	181.2	186.2	187.0	189.2	189.5	190.4	189.4	189.5
42°	176.1	177.1	177.2	179.1	184.1	185.0	187.2	187.7	188.4	187.5	187.6
42.5°	174.0	175.1	175.2	177.1	182.2	182.9	185.2	185.6	186.5	185.4	185.7
43°	171.9	173.0	173.0	174.9	180.0	180.8	183.2	183.6	184.6	183.6	183.7
43.5°	169.8	170.9	170.8	172.8	178.0	178.7	181.2	181.6	182.6	181.5	181.6
44°	167.6	168.8	168.8	170.6	175.8	176.6	179.0	179.5	180.5	179.5	179.7
44.5°	165.5	166.6	166.5	168.4	173.6	174.4	176.9	177.4	178.4	177.4	177.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	163.4	164.5	164.4	166.2	171.6	172.3	174.7	175.4	176.4	175.5	175.6
45.5°	161.2	162.3	162.1	163.9	169.4	170.2	172.6	173.2	174.3	173.4	173.4
46°	159.0	160.2	159.9	161.8	167.2	168.0	170.4	171.1	172.3	171.4	171.5
46.5°	156.8	158.0	157.7	159.4	165.0	165.9	168.3	169.0	170.2	169.2	169.3
47°	154.6	155.7	155.5	157.2	162.8	163.6	166.1	166.8	168.2	167.2	167.1
47.5°	152.4	153.5	153.2	155.1	160.5	161.5	163.8	164.6	165.9	164.9	164.9
48°	150.1	151.1	150.9	152.5	158.2	159.3	161.6	162.3	163.7	162.8	162.8
48.5°	147.6	148.6	148.4	150.2	155.8	157.0	159.3	160.2	161.5	160.7	160.6
49°	145.3	146.2	145.9	147.8	153.5	154.7	157.1	157.9	159.3	158.5	158.4
49.5°	142.7	143.6	143.3	145.5	151.1	152.3	154.9	155.7	157.1	156.3	156.3
50°	140.0	141.0	140.7	142.9	148.6	149.8	152.5	153.4	155.0	154.0	153.9
50.5°	137.4	138.5	137.9	140.2	146.2	147.3	150.1	151.0	152.6	151.7	151.8
51°	134.7	135.7	135.3	137.4	143.6	144.7	147.7	148.5	150.3	149.4	149.4
51.5°	132.0	133.1	132.6	134.8	141.0	142.3	145.2	146.0	148.0	147.0	147.0
52°	129.3	130.3	129.7	132.0	138.3	139.5	142.5	143.6	145.4	144.5	144.5
52.5°	126.5	127.5	127.0	129.2	135.6	136.9	140.0	141.0	142.9	142.0	142.0
53°	123.8	124.8	124.1	126.5	133.0	134.2	137.3	138.3	140.3	139.4	139.4
53.5°	120.8	121.8	121.3	123.8	130.3	131.4	134.7	135.6	137.6	136.8	136.8
54°	118.1	119.0	118.4	120.9	127.4	128.6	132.0	132.9	135.0	134.1	134.2
54.5°	115.1	116.1	115.6	118.1	124.6	125.9	129.2	130.3	132.3	131.5	131.5
55°	112.3	113.2	112.8	115.2	121.8	123.0	126.5	127.6	129.6	128.9	128.8
55.5°	109.5	110.2	110.0	112.2	118.9	120.4	123.6	124.7	126.8	126.0	125.9
56°	106.6	107.3	107.1	109.3	115.9	117.5	120.8	122.0	124.0	123.3	123.2
56.5°	103.8	104.6	104.3	106.5	113.1	114.6	118.1	119.3	121.3	120.6	120.4
57°	100.9	101.7	101.3	103.7	110.2	111.6	115.3	116.3	118.6	117.7	117.6
57.5°	98.0	98.8	98.3	100.7	107.3	108.7	112.3	113.5	115.6	114.9	114.9
58°	95.1	95.9	95.5	97.8	104.4	106.0	109.5	110.7	112.8	112.0	112.0
58.5°	92.3	93.1	92.6	95.0	101.5	103.0	106.6	107.8	110.1	109.2	109.1
59°	89.6	90.2	89.8	92.1	98.6	100.2	103.8	105.0	107.1	106.4	106.3
59.5°	86.7	87.2	86.9	89.2	95.7	97.3	100.9	102.1	104.4	103.5	103.5
60°	83.9	84.5	84.1	86.4	92.9	94.4	98.0	99.3	101.6	100.7	100.6
60.5°	81.2	81.8	81.4	83.7	90.1	91.5	95.2	96.4	98.7	97.8	97.8
61°	78.4	79.0	78.5	80.8	87.2	88.6	92.4	93.6	95.9	95.0	95.0
61.5°	75.6	76.2	75.8	78.1	84.3	85.7	89.6	90.9	93.1	92.2	92.3
62°	72.9	73.5	73.1	75.3	81.6	83.0	86.8	87.9	90.3	89.4	89.4
62.5°	70.2	70.8	70.4	72.6	78.7	80.2	84.0	85.2	87.4	86.6	86.6
63°	67.6	68.2	67.7	69.9	75.9	77.5	81.2	82.4	84.6	83.9	83.8
63.5°	65.0	65.5	65.1	67.3	73.2	74.7	78.4	79.8	81.8	81.2	81.1
64°	62.3	63.0	62.5	64.6	70.6	71.9	75.8	76.9	79.1	78.4	78.3
64.5°	59.8	60.4	59.9	62.0	67.8	69.3	72.9	74.2	76.3	75.6	75.6
65°	57.2	57.8	57.3	59.4	65.1	66.6	70.3	71.5	73.6	72.8	72.8
65.5°	54.7	55.3	54.8	56.8	62.6	63.9	67.6	68.8	70.9	70.1	70.3
66°	52.2	52.8	52.3	54.3	59.9	61.4	64.8	66.1	68.2	67.6	67.5
66.5°	49.9	50.2	49.9	51.7	57.3	58.8	62.2	63.5	65.6	65.0	64.8
67°	47.3	47.9	47.3	49.4	54.8	56.2	59.5	60.9	62.9	62.2	62.2





TEST NUMBER: P522103

CATALOG NUMBER: RLLV6069BLE40AWHDM-2700K-UNIT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	45.0	45.5	45.0	47.0	52.3	53.7	57.0	58.2	60.3	59.6	59.6
68°	42.7	43.1	42.7	44.5	49.9	51.3	54.6	55.6	57.8	57.0	57.1
68.5°	40.3	40.8	40.3	42.2	47.4	48.6	52.0	53.1	55.3	54.5	54.5
69°	38.1	38.6	38.1	39.9	44.9	46.1	49.6	50.5	52.8	52.0	52.0
69.5°	35.8	36.4	35.9	37.7	42.6	43.8	47.1	48.1	50.1	49.5	49.6
70°	33.7	34.1	33.7	35.3	40.3	41.5	44.6	45.7	47.8	47.1	47.1
70.5°	31.6	32.0	31.6	33.3	38.0	39.1	42.2	43.3	45.3	44.6	44.6
71°	29.5	29.9	29.4	31.2	35.7	36.9	39.9	40.9	43.0	42.2	42.3
71.5°	27.5	28.0	27.5	29.1	33.5	34.7	37.7	38.6	40.5	39.9	40.1
72°	25.5	26.2	25.5	27.2	31.4	32.4	35.3	36.2	38.2	37.6	37.7
72.5°	23.8	24.2	23.7	25.1	29.4	30.3	33.2	34.0	36.0	35.3	35.4
73°	22.0	22.3	22.0	23.3	27.4	28.3	31.0	32.0	33.6	33.1	33.2
73.5°	20.3	20.5	20.3	21.5	25.3	26.4	29.0	29.8	31.5	31.0	31.0
74°	18.6	18.8	18.5	19.8	23.5	24.4	26.8	27.8	29.4	28.9	28.9
74.5°	17.1	17.2	17.0	18.2	21.7	22.5	24.9	25.6	27.3	26.9	26.9
75°	15.5	15.7	15.5	16.5	19.9	20.6	23.1	23.8	25.3	25.0	25.0
75.5°	14.0	14.3	13.9	15.1	18.3	18.9	21.2	21.9	23.4	22.9	23.2
76°	12.7	13.0	12.6	13.6	16.7	17.2	19.4	20.0	21.6	21.1	21.3
76.5°	11.5	11.6	11.5	12.3	15.1	15.7	17.7	18.4	19.8	19.2	19.4
77°	10.4	10.3	10.3	11.2	13.6	14.4	16.1	16.7	18.1	17.6	17.8
77.5°	9.1	9.3	9.0	10.1	12.3	13.0	14.7	15.2	16.4	16.0	16.1
78°	8.3	8.5	8.2	8.8	11.2	11.6	13.3	13.7	15.0	14.6	14.7
78.5°	7.2	7.4	7.2	7.9	10.1	10.5	11.8	12.2	13.5	13.1	13.3
79°	6.5	6.6	6.3	7.0	8.8	9.2	10.6	10.9	11.9	11.7	11.8
79.5°	5.7	5.8	5.6	6.2	8.0	8.4	9.6	9.9	10.8	10.5	10.5
80°	5.3	5.3	5.0	5.4	7.0	7.2	8.6	8.9	9.6	9.3	9.5
80.5°	4.7	4.6	4.5	4.8	6.2	6.5	7.4	7.7	8.6	8.3	8.5
81°	4.1	4.0	3.9	4.4	5.4	5.7	6.5	6.9	7.5	7.3	7.3
81.5°	3.7	3.7	3.7	3.7	4.8	5.2	5.7	6.0	6.6	6.5	6.4
82°	3.4	3.4	3.2	3.6	4.4	4.6	5.3	5.4	5.8	5.6	5.6
82.5°	3.0	3.0	2.9	3.0	3.8	4.0	4.5	4.8	5.3	5.0	5.2
83°	2.7	2.7	2.5	2.7	3.7	3.7	3.9	4.2	4.6	4.5	4.5
83.5°	2.2	2.2	2.2	2.2	3.1	3.3	3.7	3.8	3.9	4.0	3.8
84°	2.1	2.1	2.1	2.1	2.8	3.0	3.1	3.6	3.7	3.7	3.7
84.5°	1.7	1.6	1.6	2.0	2.3	2.6	2.9	3.0	3.4	3.3	3.1
85°	1.3	1.3	1.4	1.6	2.1	2.2	2.5	2.7	3.0	3.0	2.9
85.5°	1.4	1.4	1.5	1.2	2.1	2.1	2.1	2.3	2.6	2.6	2.6
86°	0.7	0.7	0.7	0.8	1.6	1.5	2.1	2.1	2.1	2.2	2.1
86.5°	0.6	0.5	0.6	0.6	1.2	1.3	1.5	2.0	2.1	2.1	2.1
87°	0.5	0.4	0.4	0.5	0.9	1.5	1.3	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.6	0.7	1.3	1.3	1.3	1.4	1.3
88°	0.0	0.0	0.0	0.3	0.5	0.6	0.6	0.7	1.3	1.4	1.3
88.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.6	0.6	0.7	0.6
89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522103

CATALOG NUMBER: RLLV6069BLE40AWHDM-2700K-UNIT

**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	0.3	0.3	0.0



TEST NUMBER: P522103

CATALOG NUMBER: RLLV6069BLE40AWHDM-2700K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	274.2	274.2	274.2	274.2	274.2	274.2
0.5°	274.4	274.1	274.0	274.1	274.0	274.0
1°	274.4	274.0	273.9	274.0	273.9	273.9
1.5°	274.3	273.9	273.8	273.9	273.8	273.8
2°	274.3	273.8	273.7	273.8	273.6	273.6
2.5°	274.2	273.6	273.5	273.5	273.5	273.5
3°	274.1	273.5	273.3	273.4	273.3	273.3
3.5°	274.0	273.2	273.1	273.1	273.1	273.0
4°	273.7	273.0	272.9	272.8	272.8	272.7
4.5°	273.5	272.8	272.7	272.6	272.5	272.5
5°	273.3	272.5	272.4	272.3	272.2	272.1
5.5°	273.1	272.2	272.0	271.9	271.9	271.8
6°	272.8	271.8	271.7	271.6	271.5	271.4
6.5°	272.5	271.5	271.4	271.3	271.2	271.1
7°	272.1	271.1	271.0	270.8	270.8	270.6
7.5°	271.8	270.6	270.6	270.3	270.3	270.1
8°	271.4	270.2	270.1	270.0	270.0	269.7
8.5°	271.0	269.9	269.8	269.5	269.4	269.3
9°	270.6	269.3	269.2	268.9	268.9	268.7
9.5°	270.1	268.8	268.7	268.5	268.4	268.3
10°	269.7	268.3	268.3	267.9	267.9	267.6
10.5°	269.2	267.7	267.7	267.3	267.3	267.0
11°	268.7	267.2	267.2	266.7	266.7	266.4
11.5°	268.1	266.6	266.5	266.0	266.0	265.8
12°	267.5	266.0	266.0	265.4	265.4	265.1
12.5°	266.9	265.3	265.3	264.8	264.6	264.4
13°	266.3	264.6	264.6	264.1	264.0	263.6
13.5°	265.7	264.0	264.0	263.3	263.2	262.9
14°	265.0	263.4	263.2	262.6	262.5	262.0
14.5°	264.3	262.5	262.5	261.9	261.7	261.3
15°	263.6	261.8	261.8	261.0	260.8	260.4
15.5°	262.9	261.0	260.9	260.2	259.9	259.4
16°	262.0	260.2	260.1	259.2	259.0	258.5
16.5°	261.3	259.2	259.2	258.4	258.1	257.6
17°	260.5	258.4	258.3	257.4	257.1	256.5
17.5°	259.7	257.4	257.4	256.4	256.2	255.6
18°	258.8	256.4	256.4	255.4	255.1	254.5
18.5°	257.9	255.5	255.4	254.4	254.0	253.5
19°	257.0	254.5	254.4	253.3	252.9	252.3
19.5°	256.1	253.5	253.3	252.3	251.8	251.2
20°	255.1	252.3	252.3	251.1	250.8	250.0
20.5°	254.1	251.2	251.1	249.9	249.5	248.8
21°	253.1	250.2	250.0	248.8	248.4	247.6
21.5°	252.0	248.9	248.8	247.5	247.0	246.3
22°	250.9	247.8	247.6	246.3	245.8	245.0



TEST NUMBER: P522103

CATALOG NUMBER: RLLV6069BLE40AWHDM-2700K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	249.7	246.6	246.4	245.0	244.4	243.7
23°	248.6	245.3	245.1	243.7	243.2	242.4
23.5°	247.3	244.1	243.8	242.4	241.8	241.1
24°	246.1	242.7	242.6	241.2	240.5	239.7
24.5°	244.8	241.4	241.2	239.7	239.2	238.2
25°	243.5	240.0	239.9	238.3	237.7	236.8
25.5°	242.2	238.6	238.5	236.9	236.3	235.4
26°	240.9	237.2	237.0	235.4	234.9	233.8
26.5°	239.6	235.8	235.6	234.0	233.3	232.3
27°	238.1	234.4	234.1	232.4	231.8	230.7
27.5°	236.7	232.9	232.6	230.9	230.3	229.2
28°	235.3	231.3	231.1	229.3	228.8	227.6
28.5°	233.8	229.8	229.5	227.8	227.2	226.0
29°	232.2	228.2	227.9	226.3	225.6	224.4
29.5°	230.7	226.6	226.3	224.6	224.0	222.7
30°	229.2	225.0	224.7	222.9	222.2	221.1
30.5°	227.8	223.4	223.0	221.3	220.6	219.5
31°	226.2	221.8	221.2	219.6	218.9	217.7
31.5°	224.6	220.1	219.6	218.0	217.2	216.0
32°	222.8	218.3	217.9	216.2	215.5	214.2
32.5°	221.1	216.7	216.1	214.4	213.8	212.5
33°	219.5	215.0	214.4	212.6	212.0	210.7
33.5°	217.9	213.2	212.6	210.8	210.2	208.8
34°	216.2	211.4	210.8	209.0	208.4	207.1
34.5°	214.4	209.7	208.9	207.2	206.6	205.2
35°	212.6	207.8	207.1	205.3	204.8	203.4
35.5°	210.9	205.8	205.3	203.4	203.0	201.6
36°	209.0	204.0	203.4	201.6	201.1	199.7
36.5°	207.2	202.1	201.6	199.7	199.2	197.7
37°	205.4	200.3	199.6	197.8	197.4	195.9
37.5°	203.6	198.4	197.7	196.0	195.4	194.0
38°	201.7	196.6	195.8	194.1	193.5	192.1
38.5°	200.0	194.7	193.8	192.1	191.6	190.2
39°	198.0	192.7	192.0	190.1	189.7	188.2
39.5°	196.2	190.7	190.0	188.1	187.8	186.2
40°	194.2	188.7	188.0	186.1	185.7	184.2
40.5°	192.2	186.7	186.0	184.0	183.7	182.2
41°	190.3	184.7	183.9	182.1	181.7	180.2
41.5°	188.3	182.6	181.9	180.1	179.7	178.2
42°	186.3	180.6	179.9	178.0	177.6	176.1
42.5°	184.2	178.5	177.9	175.8	175.6	174.0
43°	182.2	176.4	175.7	173.8	173.5	171.9
43.5°	180.1	174.3	173.7	171.6	171.5	169.8
44°	178.1	172.1	171.6	169.5	169.2	167.6
44.5°	176.0	170.0	169.4	167.5	167.1	165.5



TEST NUMBER: P522103

CATALOG NUMBER: RLLV6069BLE40AWHDM-2700K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	173.9	167.8	167.3	165.3	164.9	163.4
45.5°	171.7	165.6	165.1	163.2	162.9	161.2
46°	169.5	163.4	163.0	160.9	160.7	159.0
46.5°	167.4	161.0	160.7	158.8	158.5	156.8
47°	165.1	158.9	158.6	156.6	156.3	154.6
47.5°	163.0	156.5	156.4	154.3	154.0	152.4
48°	160.7	154.2	153.9	152.1	151.7	150.1
48.5°	158.4	151.8	151.7	149.7	149.4	147.6
49°	156.2	149.4	149.4	147.3	147.0	145.3
49.5°	153.9	147.0	147.0	144.9	144.6	142.7
50°	151.5	144.4	144.5	142.5	142.0	140.0
50.5°	149.1	141.9	142.0	139.8	139.4	137.4
51°	146.7	139.3	139.4	137.2	136.8	134.7
51.5°	144.3	136.7	136.7	134.5	134.1	132.0
52°	141.7	134.1	134.0	131.9	131.4	129.3
52.5°	139.1	131.3	131.4	129.2	128.7	126.5
53°	136.4	128.7	128.7	126.3	125.8	123.8
53.5°	133.8	125.9	125.9	123.6	123.1	120.8
54°	131.1	123.1	123.2	120.8	120.2	118.1
54.5°	128.3	120.3	120.3	117.9	117.3	115.1
55°	125.5	117.6	117.4	115.1	114.4	112.3
55.5°	122.8	114.8	114.7	112.4	111.6	109.5
56°	120.1	112.0	111.8	109.4	108.7	106.6
56.5°	117.3	109.2	109.0	106.5	105.9	103.8
57°	114.4	106.3	106.2	103.7	103.1	100.9
57.5°	111.5	103.5	103.5	100.8	100.2	98.0
58°	108.7	100.7	100.5	97.9	97.3	95.1
58.5°	106.0	97.9	97.7	95.2	94.5	92.3
59°	103.2	95.2	95.0	92.3	91.5	89.6
59.5°	100.4	92.3	92.2	89.6	88.7	86.7
60°	97.5	89.6	89.3	86.7	86.0	83.9
60.5°	94.7	86.8	86.6	84.0	83.2	81.2
61°	91.8	84.1	83.8	81.1	80.5	78.4
61.5°	89.0	81.4	81.0	78.3	77.7	75.6
62°	86.3	78.6	78.3	75.6	74.9	72.9
62.5°	83.6	76.0	75.6	72.9	72.1	70.2
63°	80.8	73.3	72.9	70.3	69.5	67.6
63.5°	78.2	70.8	70.3	67.7	66.9	65.0
64°	75.3	68.1	67.7	65.1	64.4	62.3
64.5°	72.6	65.5	65.0	62.4	61.7	59.8
65°	70.1	63.1	62.5	59.8	59.1	57.2
65.5°	67.4	60.4	59.8	57.2	56.6	54.7
66°	64.9	58.0	57.3	54.8	54.0	52.2
66.5°	62.2	55.4	54.8	52.3	51.4	49.9
67°	59.6	53.0	52.4	49.9	49.1	47.3



TEST NUMBER: P522103

CATALOG NUMBER: RLLV6069BLE40AWHDM-2700K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	57.0	50.5	49.9	47.4	46.7	45.0
68°	54.6	48.2	47.7	45.0	44.4	42.7
68.5°	52.0	45.8	45.2	42.7	42.0	40.3
69°	49.6	43.4	42.9	40.3	39.8	38.1
69.5°	47.2	41.1	40.5	38.2	37.5	35.8
70°	44.8	38.9	38.2	35.8	35.2	33.7
70.5°	42.5	36.8	36.1	33.7	33.2	31.6
71°	40.2	34.6	33.9	31.6	31.0	29.5
71.5°	37.9	32.3	31.8	29.5	29.0	27.5
72°	35.5	30.3	29.7	27.5	27.0	25.5
72.5°	33.5	28.3	27.7	25.4	25.1	23.8
73°	31.3	26.6	25.8	23.8	23.3	22.0
73.5°	29.3	24.6	23.8	22.0	21.5	20.3
74°	27.2	22.6	21.9	20.2	19.8	18.6
74.5°	25.3	20.8	20.2	18.5	18.2	17.1
75°	23.4	19.0	18.5	17.0	16.6	15.5
75.5°	21.5	17.4	17.0	15.4	15.1	14.0
76°	19.8	15.8	15.4	14.0	13.6	12.7
76.5°	18.1	14.5	14.1	12.5	12.2	11.5
77°	16.4	13.1	12.6	11.3	11.1	10.4
77.5°	14.9	11.7	11.3	10.2	10.1	9.1
78°	13.5	10.5	10.2	8.9	8.8	8.3
78.5°	12.1	9.2	8.9	8.0	7.9	7.2
79°	10.7	8.3	8.0	7.2	7.0	6.5
79.5°	9.7	7.3	7.0	6.2	6.2	5.7
80°	8.8	6.5	6.2	5.5	5.4	5.3
80.5°	7.5	5.6	5.4	4.8	4.8	4.7
81°	6.7	5.0	4.8	4.4	4.4	4.1
81.5°	5.8	4.5	4.3	3.9	3.8	3.7
82°	5.4	3.9	3.8	3.6	3.6	3.4
82.5°	4.7	3.7	3.6	3.2	3.1	3.0
83°	4.0	3.2	3.0	2.8	2.8	2.7
83.5°	3.7	2.9	2.8	2.4	2.3	2.2
84°	3.4	2.6	2.2	2.1	2.1	2.1
84.5°	3.0	2.2	2.1	2.1	2.1	1.7
85°	2.7	2.1	2.1	1.6	1.6	1.3
85.5°	2.2	1.6	1.6	1.4	1.3	1.4
86°	2.1	1.3	1.2	1.5	1.3	0.7
86.5°	1.8	1.5	1.1	0.7	0.6	0.6
87°	1.4	0.7	0.6	0.6	0.5	0.5
87.5°	1.3	0.6	0.5	0.4	0.0	0.0
88°	0.7	0.4	0.0	0.0	0.0	0.0
88.5°	0.6	0.0	0.0	0.0	0.0	0.0
89°	0.5	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522103

CATALOG NUMBER: RLLV6069BLE40AWHDM-2700K-UNIT

**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)