

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: P522106

Luminaire Tested: **RLLV6069BLE40AWHDM-4000K-UNIT**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522106  
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-4000K-UNIT  
Description: Surface Mount Downlight Fixture, Single Unit  
Light Source: (16) 4000K CCT, 94 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

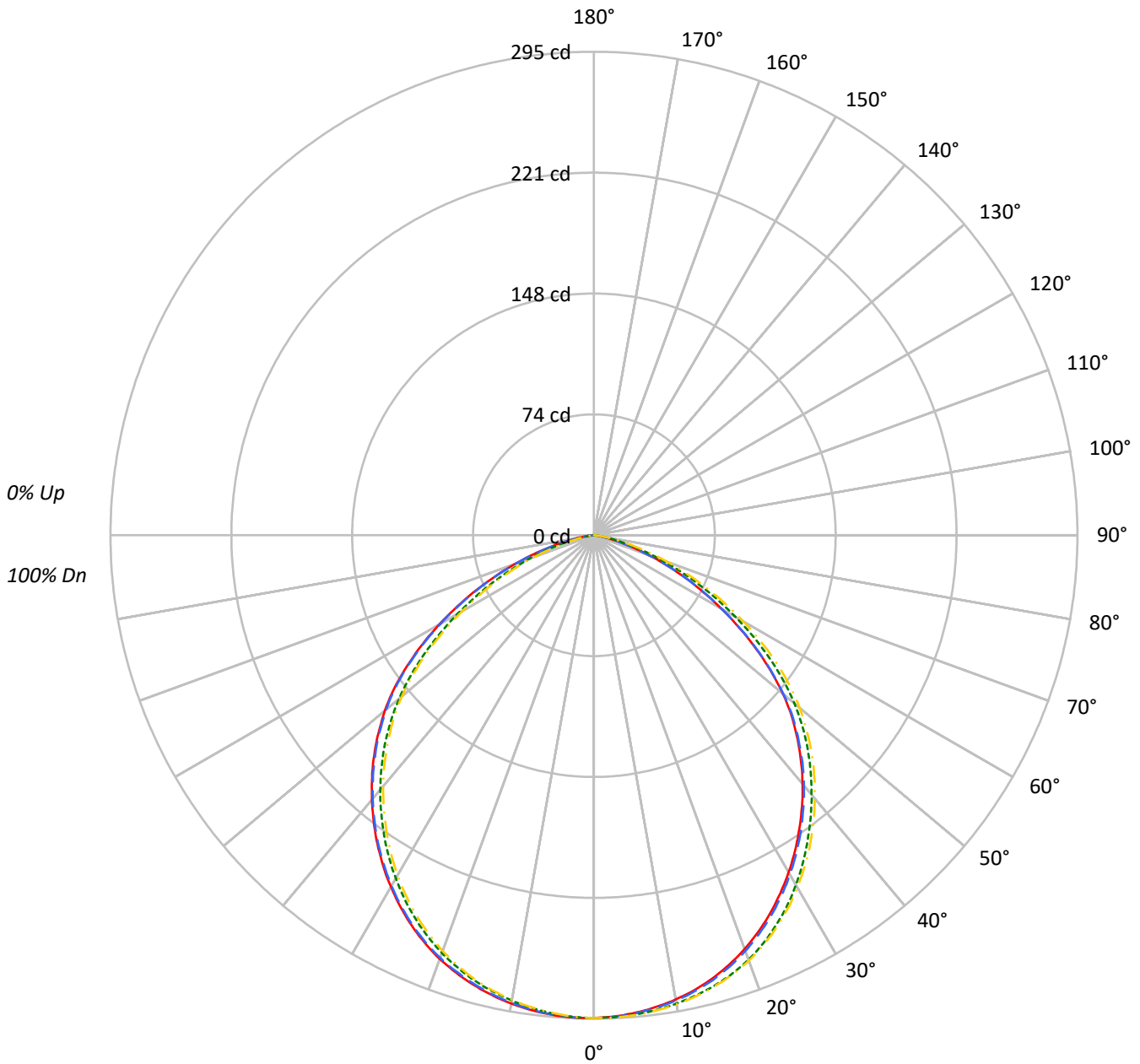
Lumens per Lamp: 706.09 (16 lamps)  
Luminaire Lumens: 720.0 lumens  
Efficiency: 6.4%  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6
1	7	7	7	6	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
2	6	6	6	5	6	6	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5
3	6	5	5	4	6	5	5	4	5	5	4	5	5	4	5	4	4	5	4	4	4
4	5	5	4	4	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3
5	5	4	4	3	5	4	4	3	4	4	3	4	4	3	4	3	3	4	3	3	3
6	5	4	3	3	5	4	3	3	4	3	3	4	3	3	4	3	3	3	3	3	3
7	4	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
8	4	3	3	2	4	3	3	2	3	3	2	3	3	2	3	3	2	3	3	2	2
9	4	3	2	2	4	3	2	2	3	2	2	3	2	2	3	2	2	3	2	2	2
10	4	3	2	2	3	3	2	2	3	2	2	3	2	2	2	2	2	2	2	2	2

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

	0°	90°	180°	270°
0°	16150	16150	16150	16150
5°	16091	16151	16162	16113
10°	16010	16154	16154	16048
15°	15880	16147	16118	15965
20°	15676	16078	16049	15821
25°	15394	15890	15902	15606
30°	15040	15604	15673	15306
35°	14629	15212	15412	14944
40°	14169	14785	15093	14513
45°	13606	14296	14699	13986
50°	12827	13620	14200	13236
55°	11536	12511	13314	12081
60°	9879	10942	11973	10558
65°	7978	9080	10261	8795
70°	5818	6940	8239	6700
75°	3516	4533	5740	4321
80°	1799	2368	3252	2210
85°	881	1447	2013	1447



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	27.9	3.9	0.2
10°-20°	79.7	11.1	0.7
20°-30°	119.5	16.6	1.1
30°-40°	140.6	19.5	1.2
40°-50°	140.6	19.5	1.2
50°-60°	115.5	16.0	1.0
60°-70°	69.4	9.6	0.6
70°-80°	24.0	3.3	0.2
80°-90°	2.9	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°	227.0	31.5	2.0
0°-40°	367.6	51.1	3.3
0°-60°	623.8	86.6	5.5
0°-90°	720.0	100.0	6.4
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°	720.0	100.0	6.4

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	295	295	295	295	295	
5°	292	294	294	293	292	28
15°	280	284	284	281	280	79
25°	254	263	263	258	254	117
35°	219	227	230	223	219	137
45°	176	184	190	180	176	135
55°	121	131	139	126	121	108
65°	62	70	79	68	62	61
75°	17	21	27	20	17	19
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°	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.6
0.5°	294.4	294.4	294.6	294.8	294.5	294.5	294.6	294.6	294.6	294.6	294.6
1°	294.3	294.3	294.5	294.8	294.5	294.6	294.6	294.6	294.6	294.6	294.6
1.5°	294.2	294.1	294.3	294.7	294.4	294.6	294.6	294.6	294.6	294.6	294.6
2°	294.0	294.0	294.2	294.6	294.4	294.5	294.6	294.6	294.6	294.6	294.5
2.5°	293.9	293.8	294.0	294.5	294.3	294.4	294.5	294.6	294.5	294.5	294.3
3°	293.7	293.7	293.9	294.3	294.2	294.3	294.4	294.4	294.4	294.3	294.2
3.5°	293.4	293.5	293.6	294.1	294.0	294.2	294.2	294.3	294.2	294.2	294.0
4°	293.0	293.1	293.4	293.9	293.9	294.1	294.1	294.2	294.1	294.0	293.8
4.5°	292.8	292.8	293.1	293.7	293.7	293.9	294.0	294.0	293.9	293.8	293.7
5°	292.4	292.5	292.8	293.5	293.5	293.7	293.8	293.9	293.7	293.6	293.5
5.5°	292.1	292.2	292.4	293.1	293.3	293.5	293.6	293.6	293.5	293.3	293.2
6°	291.7	291.8	292.1	292.8	293.0	293.2	293.5	293.3	293.2	293.0	292.9
6.5°	291.3	291.4	291.7	292.4	292.8	293.0	293.1	293.0	292.9	292.6	292.6
7°	290.8	291.0	291.3	292.1	292.4	292.6	292.9	292.7	292.6	292.3	292.3
7.5°	290.3	290.6	290.8	291.7	292.1	292.3	292.5	292.4	292.3	292.0	291.9
8°	289.8	290.1	290.4	291.3	291.8	292.0	292.2	292.0	291.9	291.6	291.6
8.5°	289.4	289.6	289.9	290.8	291.4	291.6	291.8	291.7	291.5	291.2	291.1
9°	288.8	289.0	289.4	290.3	291.0	291.2	291.4	291.2	291.1	290.7	290.6
9.5°	288.3	288.5	288.8	289.9	290.6	290.8	291.0	290.7	290.6	290.3	290.2
10°	287.6	287.9	288.3	289.3	290.2	290.4	290.6	290.3	290.2	289.7	289.7
10.5°	286.9	287.3	287.7	288.8	289.7	290.0	290.1	289.7	289.7	289.3	289.2
11°	286.3	286.6	287.0	288.2	289.2	289.5	289.6	289.3	289.2	288.7	288.7
11.5°	285.6	285.9	286.4	287.6	288.7	289.0	289.2	288.7	288.6	288.2	288.2
12°	284.9	285.2	285.7	287.0	288.2	288.5	288.6	288.2	288.1	287.5	287.5
12.5°	284.1	284.5	284.9	286.3	287.6	287.9	288.1	287.6	287.4	286.9	286.9
13°	283.3	283.8	284.2	285.7	287.0	287.3	287.5	286.9	286.8	286.2	286.3
13.5°	282.5	283.0	283.4	284.9	286.4	286.7	286.9	286.2	286.2	285.5	285.6
14°	281.6	282.2	282.6	284.2	285.8	286.1	286.3	285.6	285.5	284.8	284.8
14.5°	280.8	281.3	281.7	283.4	285.1	285.4	285.6	284.8	284.7	284.1	284.1
15°	279.8	280.4	280.9	282.7	284.5	284.7	284.9	284.1	284.0	283.3	283.3
15.5°	278.8	279.4	279.9	281.7	283.7	284.0	284.2	283.3	283.2	282.5	282.6
16°	277.8	278.4	279.0	280.8	282.9	283.2	283.4	282.5	282.4	281.7	281.8
16.5°	276.8	277.4	277.9	279.8	282.2	282.5	282.7	281.7	281.6	280.9	281.0
17°	275.7	276.4	276.9	278.8	281.4	281.6	281.8	280.9	280.8	279.9	280.0
17.5°	274.7	275.3	275.9	277.8	280.5	280.8	281.1	280.0	279.9	279.1	279.2
18°	273.5	274.2	274.7	276.7	279.6	279.8	280.1	279.1	279.0	278.1	278.3
18.5°	272.4	273.0	273.6	275.6	278.6	278.9	279.3	278.1	278.0	277.2	277.4
19°	271.2	271.8	272.4	274.4	277.7	277.9	278.3	277.3	277.1	276.2	276.4
19.5°	270.0	270.6	271.3	273.3	276.6	276.9	277.3	276.2	276.1	275.3	275.4
20°	268.7	269.4	270.0	272.0	275.6	275.9	276.3	275.3	275.1	274.3	274.4
20.5°	267.4	268.0	268.7	270.8	274.5	274.8	275.2	274.2	274.1	273.3	273.3
21°	266.1	266.9	267.4	269.6	273.3	273.7	274.1	273.1	273.0	272.1	272.2
21.5°	264.7	265.4	266.1	268.3	272.1	272.5	272.9	271.9	271.8	271.0	271.1
22°	263.3	264.0	264.7	267.0	270.8	271.3	271.7	270.8	270.6	269.8	269.9



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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°	261.9	262.6	263.3	265.5	269.6	270.1	270.4	269.5	269.4	268.6	268.7
23°	260.5	261.2	261.9	264.2	268.3	268.9	269.2	268.3	268.1	267.3	267.4
23.5°	259.1	259.7	260.5	262.7	267.0	267.5	267.9	267.1	267.0	266.1	266.1
24°	257.6	258.3	259.0	261.3	265.5	266.1	266.7	265.7	265.6	264.8	264.9
24.5°	256.0	256.9	257.5	259.8	264.1	264.7	265.3	264.4	264.3	263.4	263.5
25°	254.5	255.3	255.9	258.3	262.7	263.3	263.9	263.0	262.9	262.0	262.2
25.5°	253.0	253.7	254.4	256.8	261.2	261.8	262.5	261.6	261.5	260.6	260.8
26°	251.2	252.2	252.9	255.2	259.7	260.3	261.0	260.2	260.1	259.2	259.4
26.5°	249.6	250.4	251.1	253.5	258.2	258.8	259.6	258.7	258.7	257.7	257.9
27°	247.9	248.8	249.4	251.9	256.6	257.4	258.0	257.3	257.2	256.2	256.4
27.5°	246.3	247.1	247.8	250.1	255.1	255.8	256.5	255.8	255.7	254.7	255.0
28°	244.5	245.5	246.1	248.4	253.4	254.0	255.0	254.1	254.2	253.3	253.4
28.5°	242.8	243.7	244.3	246.7	251.8	252.4	253.3	252.6	252.7	251.6	251.9
29°	241.1	242.0	242.7	245.0	249.9	250.6	251.7	250.8	250.9	249.9	250.2
29.5°	239.3	240.2	240.9	243.2	248.2	248.9	249.9	249.2	249.3	248.3	248.6
30°	237.6	238.5	239.1	241.4	246.5	247.1	248.3	247.5	247.6	246.8	247.0
30.5°	235.8	236.6	237.3	239.6	244.6	245.4	246.5	245.9	246.1	245.1	245.4
31°	233.9	234.8	235.5	237.8	242.8	243.6	244.7	244.2	244.5	243.4	243.7
31.5°	232.1	233.0	233.6	235.9	241.0	241.7	243.0	242.4	242.8	241.7	242.0
32°	230.2	231.2	231.7	234.1	239.1	239.8	241.2	240.6	241.0	239.9	240.2
32.5°	228.3	229.3	229.8	232.2	237.2	237.9	239.4	238.9	239.2	238.2	238.5
33°	226.4	227.4	227.9	230.3	235.3	236.0	237.6	237.1	237.5	236.4	236.7
33.5°	224.4	225.5	225.9	228.3	233.3	234.1	235.8	235.3	235.7	234.6	234.9
34°	222.5	223.6	224.1	226.3	231.3	232.1	233.9	233.4	233.9	232.8	233.1
34.5°	220.5	221.6	222.1	224.3	229.3	230.1	232.0	231.6	232.1	231.0	231.3
35°	218.6	219.7	220.1	222.3	227.3	228.1	230.1	229.7	230.3	229.2	229.5
35.5°	216.6	217.8	218.1	220.3	225.3	226.0	228.1	227.8	228.4	227.3	227.6
36°	214.6	215.7	216.1	218.2	223.3	224.0	226.1	225.9	226.5	225.4	225.7
36.5°	212.5	213.7	214.0	216.2	221.3	222.0	224.1	223.9	224.5	223.5	223.8
37°	210.5	211.6	211.9	214.1	219.2	219.9	222.1	222.1	222.6	221.5	221.8
37.5°	208.5	209.6	210.0	212.0	217.1	217.9	220.0	220.1	220.6	219.6	219.9
38°	206.4	207.6	207.9	209.9	215.1	215.9	218.0	218.1	218.7	217.7	217.9
38.5°	204.4	205.5	205.8	207.8	213.0	213.8	216.0	216.1	216.7	215.7	216.0
39°	202.3	203.4	203.7	205.7	210.9	211.7	213.9	214.1	214.8	213.7	214.0
39.5°	200.1	201.3	201.5	203.6	208.9	209.6	211.8	212.0	212.8	211.7	211.9
40°	198.0	199.2	199.3	201.4	206.6	207.5	209.7	210.0	210.9	209.7	209.9
40.5°	195.8	197.0	197.3	199.2	204.4	205.3	207.5	207.9	208.7	207.7	207.9
41°	193.7	194.9	195.0	197.0	202.3	203.1	205.4	205.9	206.6	205.6	205.8
41.5°	191.5	192.6	192.8	194.8	200.1	201.0	203.3	203.7	204.6	203.6	203.7
42°	189.3	190.4	190.5	192.5	197.9	198.8	201.2	201.7	202.5	201.5	201.6
42.5°	187.0	188.2	188.3	190.3	195.8	196.6	199.0	199.5	200.4	199.3	199.6
43°	184.8	186.0	186.0	188.0	193.5	194.3	196.9	197.3	198.4	197.3	197.4
43.5°	182.5	183.7	183.6	185.7	191.3	192.1	194.7	195.2	196.2	195.1	195.2
44°	180.2	181.4	181.4	183.4	189.0	189.8	192.4	192.9	194.0	192.9	193.1
44.5°	177.8	179.0	178.9	181.0	186.6	187.5	190.1	190.7	191.8	190.7	190.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	175.5	176.7	176.6	178.6	184.4	185.2	187.8	188.5	189.6	188.6	188.7
45.5°	173.2	174.4	174.2	176.1	182.1	183.0	185.5	186.2	187.4	186.4	186.4
46°	170.8	172.1	171.8	173.8	179.7	180.6	183.2	183.9	185.2	184.2	184.3
46.5°	168.5	169.8	169.4	171.3	177.3	178.2	180.9	181.7	183.0	181.9	182.0
47°	166.1	167.3	167.1	168.9	174.9	175.8	178.4	179.2	180.8	179.7	179.6
47.5°	163.7	164.9	164.6	166.6	172.4	173.5	176.0	176.8	178.2	177.2	177.2
48°	161.3	162.3	162.1	163.9	170.0	171.1	173.6	174.4	175.9	174.9	174.9
48.5°	158.6	159.7	159.5	161.4	167.4	168.7	171.1	172.1	173.5	172.6	172.5
49°	156.1	157.1	156.8	158.8	164.9	166.2	168.8	169.6	171.2	170.3	170.2
49.5°	153.3	154.3	154.0	156.3	162.3	163.6	166.4	167.3	168.8	167.9	167.9
50°	150.4	151.5	151.2	153.5	159.7	161.0	163.8	164.8	166.5	165.5	165.4
50.5°	147.6	148.8	148.2	150.7	157.1	158.3	161.3	162.2	164.0	163.0	163.1
51°	144.7	145.8	145.4	147.7	154.3	155.5	158.7	159.6	161.5	160.5	160.5
51.5°	141.9	143.0	142.5	144.9	151.5	152.9	156.0	156.9	159.0	158.0	157.9
52°	139.0	140.0	139.4	141.9	148.6	149.9	153.1	154.3	156.2	155.3	155.3
52.5°	135.9	137.0	136.5	138.9	145.7	147.1	150.4	151.5	153.5	152.6	152.6
53°	133.0	134.1	133.4	136.0	142.9	144.2	147.5	148.6	150.8	149.8	149.8
53.5°	129.8	130.9	130.4	133.0	140.0	141.2	144.8	145.7	147.9	147.0	147.0
54°	126.9	127.9	127.3	129.9	136.9	138.2	141.8	142.8	145.1	144.1	144.2
54.5°	123.7	124.8	124.3	126.9	133.9	135.3	138.8	140.0	142.2	141.3	141.3
55°	120.7	121.7	121.2	123.8	130.9	132.2	135.9	137.1	139.3	138.5	138.4
55.5°	117.7	118.5	118.2	120.6	127.8	129.4	132.8	134.0	136.3	135.4	135.3
56°	114.6	115.4	115.1	117.5	124.6	126.3	129.8	131.1	133.3	132.5	132.4
56.5°	111.6	112.4	112.1	114.5	121.6	123.2	126.9	128.2	130.4	129.6	129.4
57°	108.5	109.3	108.9	111.5	118.5	120.0	123.9	125.0	127.5	126.5	126.4
57.5°	105.3	106.1	105.6	108.3	115.3	116.9	120.7	122.0	124.3	123.5	123.5
58°	102.2	103.0	102.6	105.1	112.2	113.9	117.7	119.0	121.3	120.4	120.4
58.5°	99.2	100.0	99.5	102.1	109.1	110.7	114.6	115.9	118.3	117.4	117.3
59°	96.2	96.9	96.5	98.9	105.9	107.6	111.6	112.9	115.1	114.4	114.3
59.5°	93.1	93.7	93.4	95.8	102.8	104.5	108.5	109.8	112.2	111.3	111.3
60°	90.1	90.8	90.4	92.8	99.8	101.4	105.3	106.7	109.2	108.3	108.2
60.5°	87.2	87.9	87.4	89.9	96.8	98.3	102.3	103.6	106.0	105.1	105.1
61°	84.2	84.9	84.3	86.8	93.7	95.2	99.3	100.5	103.0	102.1	102.1
61.5°	81.2	81.9	81.4	83.9	90.6	92.1	96.2	97.6	100.0	99.0	99.1
62°	78.3	79.0	78.5	80.9	87.7	89.2	93.2	94.4	97.0	96.0	96.0
62.5°	75.4	76.1	75.7	78.0	84.6	86.2	90.2	91.5	93.9	93.0	93.0
63°	72.6	73.3	72.8	75.1	81.6	83.3	87.2	88.5	90.9	90.1	90.0
63.5°	69.9	70.4	70.0	72.3	78.7	80.3	84.2	85.7	87.9	87.2	87.1
64°	67.0	67.7	67.2	69.4	75.9	77.3	81.4	82.6	85.0	84.2	84.1
64.5°	64.3	64.9	64.4	66.6	72.9	74.5	78.3	79.7	82.0	81.2	81.2
65°	61.5	62.1	61.6	63.8	70.0	71.6	75.5	76.8	79.1	78.2	78.2
65.5°	58.8	59.4	58.9	61.1	67.3	68.7	72.6	73.9	76.2	75.3	75.5
66°	56.1	56.8	56.2	58.4	64.4	66.0	69.6	71.0	73.3	72.6	72.5
66.5°	53.6	54.0	53.7	55.6	61.6	63.2	66.9	68.2	70.5	69.8	69.6
67°	50.9	51.5	50.9	53.1	58.9	60.4	64.0	65.4	67.6	66.9	66.8





TEST NUMBER: P522106

CATALOG NUMBER: RLLV6069BLE40AWHDM-4000K-UNIT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	48.4	48.9	48.4	50.5	56.2	57.7	61.3	62.6	64.8	64.1	64.1
68°	45.9	46.4	45.9	47.9	53.6	55.1	58.7	59.8	62.1	61.3	61.4
68.5°	43.4	43.9	43.4	45.4	51.0	52.3	55.9	57.1	59.4	58.6	58.6
69°	41.0	41.5	41.0	42.9	48.3	49.6	53.3	54.3	56.8	55.9	55.9
69.5°	38.5	39.2	38.6	40.6	45.8	47.1	50.6	51.7	53.9	53.2	53.3
70°	36.3	36.7	36.3	38.0	43.3	44.6	48.0	49.1	51.4	50.6	50.6
70.5°	33.9	34.3	33.9	35.7	40.9	42.1	45.4	46.6	48.7	48.0	48.0
71°	31.7	32.1	31.6	33.5	38.4	39.7	42.9	44.0	46.2	45.4	45.5
71.5°	29.5	30.1	29.5	31.2	36.1	37.3	40.6	41.5	43.6	42.9	43.1
72°	27.4	28.1	27.4	29.2	33.7	34.8	38.0	39.0	41.1	40.4	40.6
72.5°	25.5	26.0	25.4	26.9	31.5	32.5	35.6	36.6	38.7	38.0	38.1
73°	23.6	23.9	23.6	25.0	29.4	30.4	33.3	34.3	36.2	35.5	35.6
73.5°	21.8	22.0	21.8	23.1	27.1	28.3	31.1	32.0	33.8	33.3	33.3
74°	20.0	20.2	19.9	21.3	25.2	26.2	28.8	29.8	31.5	31.0	31.0
74.5°	18.3	18.5	18.2	19.5	23.3	24.1	26.7	27.5	29.3	28.9	28.9
75°	16.6	16.9	16.6	17.7	21.4	22.1	24.8	25.5	27.1	26.8	26.8
75.5°	15.0	15.3	14.9	16.2	19.6	20.3	22.8	23.5	25.1	24.6	24.9
76°	13.6	14.0	13.5	14.6	17.9	18.5	20.8	21.5	23.2	22.6	22.9
76.5°	12.3	12.5	12.3	13.2	16.2	16.8	19.0	19.7	21.2	20.6	20.8
77°	11.2	11.1	11.1	12.0	14.6	15.4	17.3	17.9	19.4	18.9	19.1
77.5°	9.8	10.0	9.7	10.8	13.2	13.9	15.8	16.3	17.6	17.2	17.3
78°	8.9	9.1	8.8	9.4	12.0	12.5	14.3	14.7	16.1	15.7	15.8
78.5°	7.7	7.9	7.7	8.5	10.8	11.3	12.7	13.1	14.5	14.1	14.3
79°	7.0	7.1	6.8	7.5	9.4	9.9	11.4	11.7	12.8	12.6	12.7
79.5°	6.1	6.2	6.0	6.6	8.6	9.0	10.3	10.6	11.6	11.3	11.3
80°	5.7	5.7	5.4	5.8	7.5	7.7	9.2	9.5	10.3	10.0	10.2
80.5°	5.0	4.9	4.8	5.1	6.6	7.0	7.9	8.3	9.2	8.9	9.1
81°	4.4	4.3	4.2	4.7	5.8	6.1	7.0	7.4	8.0	7.8	7.8
81.5°	4.0	4.0	4.0	4.0	5.1	5.6	6.1	6.4	7.1	7.0	6.9
82°	3.6	3.7	3.4	3.9	4.7	4.9	5.7	5.8	6.2	6.0	6.0
82.5°	3.2	3.2	3.1	3.2	4.1	4.3	4.8	5.1	5.7	5.4	5.6
83°	2.9	2.9	2.7	2.9	4.0	4.0	4.2	4.5	4.9	4.8	4.8
83.5°	2.4	2.4	2.4	2.4	3.3	3.5	4.0	4.1	4.2	4.3	4.1
84°	2.3	2.2	2.3	2.3	3.0	3.2	3.3	3.9	4.0	4.0	4.0
84.5°	1.8	1.7	1.7	2.1	2.5	2.8	3.1	3.2	3.6	3.5	3.3
85°	1.4	1.4	1.5	1.7	2.3	2.4	2.7	2.9	3.2	3.2	3.1
85.5°	1.5	1.5	1.6	1.3	2.2	2.3	2.3	2.5	2.8	2.8	2.8
86°	0.7	0.7	0.7	0.9	1.7	1.6	2.2	2.3	2.3	2.4	2.3
86.5°	0.6	0.5	0.6	0.6	1.3	1.4	1.6	2.1	2.2	2.3	2.2
87°	0.5	0.4	0.4	0.5	1.0	1.6	1.4	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.6	0.8	1.4	1.4	1.4	1.5	1.4
88°	0.0	0.0	0.0	0.3	0.5	0.6	0.6	0.8	1.4	1.5	1.4
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: P522106

CATALOG NUMBER: RLLV6069BLE40AWHDM-4000K-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: P522106

CATALOG NUMBER: RLLV6069BLE40AWHDM-4000K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	294.6	294.6	294.6	294.6	294.6	294.6
0.5°	294.9	294.5	294.4	294.5	294.4	294.4
1°	294.9	294.4	294.3	294.4	294.3	294.3
1.5°	294.8	294.3	294.2	294.3	294.2	294.2
2°	294.8	294.2	294.1	294.2	294.0	294.0
2.5°	294.7	294.0	293.9	293.9	293.9	293.9
3°	294.5	293.9	293.7	293.8	293.7	293.7
3.5°	294.4	293.6	293.5	293.5	293.5	293.4
4°	294.1	293.4	293.3	293.2	293.2	293.0
4.5°	293.9	293.1	293.0	292.9	292.8	292.8
5°	293.7	292.8	292.7	292.6	292.5	292.4
5.5°	293.5	292.5	292.3	292.2	292.2	292.1
6°	293.1	292.1	292.0	291.9	291.8	291.7
6.5°	292.8	291.8	291.7	291.5	291.4	291.3
7°	292.4	291.3	291.2	291.0	291.0	290.8
7.5°	292.1	290.8	290.8	290.5	290.5	290.3
8°	291.7	290.4	290.3	290.1	290.1	289.8
8.5°	291.2	290.0	289.9	289.6	289.5	289.4
9°	290.8	289.4	289.3	289.0	289.0	288.8
9.5°	290.3	288.9	288.8	288.5	288.4	288.3
10°	289.8	288.3	288.3	287.9	287.9	287.6
10.5°	289.3	287.7	287.7	287.2	287.3	286.9
11°	288.7	287.1	287.1	286.6	286.6	286.3
11.5°	288.1	286.5	286.4	285.9	285.9	285.6
12°	287.5	285.8	285.8	285.2	285.2	284.9
12.5°	286.8	285.1	285.1	284.6	284.4	284.1
13°	286.2	284.4	284.4	283.8	283.7	283.3
13.5°	285.5	283.7	283.7	283.0	282.9	282.5
14°	284.8	283.1	282.9	282.2	282.1	281.6
14.5°	284.0	282.1	282.1	281.4	281.2	280.8
15°	283.3	281.3	281.3	280.5	280.3	279.8
15.5°	282.5	280.5	280.4	279.6	279.3	278.8
16°	281.6	279.6	279.5	278.6	278.3	277.8
16.5°	280.8	278.6	278.6	277.7	277.4	276.8
17°	279.9	277.7	277.6	276.6	276.3	275.7
17.5°	279.1	276.6	276.6	275.6	275.3	274.7
18°	278.1	275.6	275.6	274.5	274.2	273.5
18.5°	277.2	274.6	274.5	273.4	273.0	272.4
19°	276.2	273.5	273.4	272.2	271.8	271.2
19.5°	275.2	272.4	272.2	271.1	270.6	270.0
20°	274.2	271.2	271.1	269.9	269.5	268.7
20.5°	273.1	270.0	269.9	268.6	268.1	267.4
21°	272.0	268.9	268.7	267.4	267.0	266.1
21.5°	270.8	267.5	267.4	266.0	265.5	264.7
22°	269.6	266.3	266.1	264.7	264.2	263.3



TEST NUMBER: P522106

CATALOG NUMBER: RLLV6069BLE40AWHDM-4000K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	268.4	265.0	264.8	263.3	262.7	261.9
23°	267.2	263.6	263.4	261.9	261.4	260.5
23.5°	265.8	262.3	262.0	260.5	259.9	259.1
24°	264.5	260.9	260.7	259.2	258.5	257.6
24.5°	263.1	259.4	259.2	257.6	257.1	256.0
25°	261.7	258.0	257.8	256.1	255.5	254.5
25.5°	260.3	256.5	256.3	254.6	254.0	253.0
26°	258.9	254.9	254.7	253.0	252.5	251.2
26.5°	257.5	253.4	253.2	251.5	250.7	249.6
27°	255.9	251.9	251.6	249.7	249.1	247.9
27.5°	254.4	250.2	249.9	248.1	247.4	246.3
28°	252.9	248.5	248.3	246.4	245.8	244.5
28.5°	251.2	246.9	246.6	244.8	244.1	242.8
29°	249.5	245.2	244.9	243.1	242.4	241.1
29.5°	247.9	243.5	243.1	241.3	240.7	239.3
30°	246.3	241.8	241.4	239.5	238.8	237.6
30.5°	244.8	240.0	239.6	237.8	237.0	235.8
31°	243.0	238.3	237.7	236.0	235.2	233.9
31.5°	241.3	236.5	236.0	234.2	233.4	232.1
32°	239.4	234.6	234.1	232.3	231.6	230.2
32.5°	237.6	232.8	232.2	230.4	229.7	228.3
33°	235.9	231.0	230.4	228.4	227.8	226.4
33.5°	234.1	229.1	228.5	226.5	225.9	224.4
34°	232.3	227.2	226.5	224.6	223.9	222.5
34.5°	230.4	225.3	224.5	222.6	222.0	220.5
35°	228.5	223.3	222.5	220.6	220.1	218.6
35.5°	226.6	221.2	220.6	218.6	218.1	216.6
36°	224.6	219.2	218.6	216.6	216.1	214.6
36.5°	222.7	217.2	216.6	214.6	214.1	212.5
37°	220.7	215.2	214.5	212.6	212.1	210.5
37.5°	218.8	213.2	212.5	210.6	210.0	208.5
38°	216.8	211.3	210.4	208.6	208.0	206.4
38.5°	214.9	209.2	208.3	206.4	205.9	204.4
39°	212.8	207.1	206.3	204.3	203.9	202.3
39.5°	210.8	204.9	204.2	202.2	201.8	200.1
40°	208.7	202.8	202.0	200.0	199.6	198.0
40.5°	206.6	200.6	199.9	197.8	197.4	195.8
41°	204.5	198.5	197.6	195.7	195.3	193.7
41.5°	202.4	196.3	195.5	193.6	193.1	191.5
42°	200.2	194.1	193.4	191.3	190.9	189.3
42.5°	198.0	191.9	191.2	189.0	188.7	187.0
43°	195.8	189.6	188.9	186.8	186.5	184.8
43.5°	193.6	187.3	186.7	184.5	184.3	182.5
44°	191.4	185.0	184.5	182.2	181.9	180.2
44.5°	189.2	182.7	182.1	180.0	179.6	177.8



TEST NUMBER: P522106

CATALOG NUMBER: RLLV6069BLE40AWHDM-4000K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	186.9	180.4	179.8	177.6	177.2	175.5
45.5°	184.6	177.9	177.4	175.3	175.0	173.2
46°	182.2	175.5	175.1	172.9	172.6	170.8
46.5°	179.9	173.0	172.7	170.6	170.3	168.5
47°	177.4	170.7	170.4	168.2	167.9	166.1
47.5°	175.1	168.1	168.0	165.8	165.5	163.7
48°	172.6	165.7	165.4	163.4	163.0	161.3
48.5°	170.2	163.1	163.0	160.9	160.5	158.6
49°	167.8	160.5	160.5	158.3	158.0	156.1
49.5°	165.4	157.9	157.9	155.7	155.4	153.3
50°	162.8	155.2	155.3	153.1	152.6	150.4
50.5°	160.2	152.5	152.6	150.2	149.8	147.6
51°	157.6	149.7	149.8	147.4	147.0	144.7
51.5°	155.0	146.9	146.9	144.5	144.1	141.9
52°	152.3	144.1	144.0	141.7	141.2	139.0
52.5°	149.5	141.1	141.2	138.9	138.3	135.9
53°	146.6	138.3	138.3	135.7	135.2	133.0
53.5°	143.8	135.3	135.3	132.8	132.3	129.8
54°	140.9	132.3	132.4	129.8	129.2	126.9
54.5°	137.9	129.3	129.3	126.7	126.1	123.7
55°	134.9	126.4	126.2	123.7	123.0	120.7
55.5°	132.0	123.4	123.3	120.8	120.0	117.7
56°	129.1	120.4	120.2	117.6	116.9	114.6
56.5°	126.1	117.4	117.2	114.5	113.8	111.6
57°	123.0	114.3	114.2	111.5	110.8	108.5
57.5°	119.9	111.3	111.3	108.4	107.6	105.3
58°	116.9	108.3	108.1	105.2	104.5	102.2
58.5°	113.9	105.2	104.9	102.3	101.5	99.2
59°	110.9	102.3	102.0	99.1	98.3	96.2
59.5°	107.9	99.2	99.0	96.2	95.3	93.1
60°	104.7	96.3	95.9	93.1	92.4	90.1
60.5°	101.7	93.3	93.0	90.2	89.4	87.2
61°	98.6	90.4	90.0	87.1	86.5	84.2
61.5°	95.6	87.5	87.0	84.1	83.5	81.2
62°	92.7	84.5	84.1	81.2	80.5	78.3
62.5°	89.8	81.7	81.2	78.3	77.5	75.4
63°	86.8	78.8	78.3	75.5	74.7	72.6
63.5°	84.0	76.1	75.5	72.7	71.9	69.9
64°	80.9	73.2	72.7	70.0	69.2	67.0
64.5°	78.0	70.4	69.9	67.1	66.3	64.3
65°	75.3	67.8	67.2	64.3	63.5	61.5
65.5°	72.4	64.9	64.3	61.5	60.8	58.8
66°	69.7	62.3	61.6	58.9	58.1	56.1
66.5°	66.9	59.6	58.9	56.2	55.3	53.6
67°	64.1	57.0	56.3	53.7	52.8	50.9



TEST NUMBER: P522106

CATALOG NUMBER: RLLV6069BLE40AWHDM-4000K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	61.3	54.3	53.7	51.0	50.2	48.4
68°	58.7	51.8	51.3	48.4	47.7	45.9
68.5°	55.9	49.2	48.6	45.9	45.2	43.4
69°	53.3	46.7	46.1	43.4	42.8	41.0
69.5°	50.7	44.2	43.6	41.1	40.3	38.5
70°	48.2	41.8	41.1	38.5	37.9	36.3
70.5°	45.7	39.6	38.8	36.3	35.6	33.9
71°	43.2	37.2	36.5	33.9	33.3	31.7
71.5°	40.8	34.7	34.1	31.7	31.1	29.5
72°	38.2	32.5	31.9	29.5	29.0	27.4
72.5°	36.0	30.4	29.7	27.3	26.9	25.5
73°	33.6	28.5	27.7	25.5	25.0	23.6
73.5°	31.4	26.4	25.5	23.6	23.1	21.8
74°	29.2	24.3	23.5	21.7	21.2	20.0
74.5°	27.2	22.3	21.7	19.9	19.5	18.3
75°	25.1	20.4	19.8	18.2	17.8	16.6
75.5°	23.1	18.7	18.2	16.5	16.2	15.0
76°	21.2	17.0	16.5	15.0	14.6	13.6
76.5°	19.4	15.6	15.1	13.4	13.1	12.3
77°	17.6	14.1	13.5	12.1	11.9	11.2
77.5°	16.0	12.6	12.1	10.9	10.8	9.8
78°	14.5	11.3	10.9	9.6	9.4	8.9
78.5°	13.0	9.9	9.6	8.6	8.5	7.7
79°	11.5	8.9	8.6	7.7	7.5	7.0
79.5°	10.4	7.8	7.5	6.7	6.7	6.1
80°	9.4	7.0	6.6	5.9	5.8	5.7
80.5°	8.0	6.0	5.8	5.2	5.2	5.0
81°	7.2	5.4	5.1	4.7	4.7	4.4
81.5°	6.2	4.8	4.6	4.2	4.1	4.0
82°	5.8	4.2	4.1	3.9	3.9	3.6
82.5°	5.0	4.0	3.9	3.4	3.3	3.2
83°	4.3	3.4	3.2	3.0	3.0	2.9
83.5°	4.0	3.1	3.0	2.6	2.5	2.4
84°	3.7	2.8	2.4	2.3	2.3	2.3
84.5°	3.2	2.4	2.3	2.3	2.2	1.8
85°	2.9	2.3	2.2	1.7	1.7	1.4
85.5°	2.4	1.7	1.7	1.5	1.4	1.5
86°	2.2	1.4	1.3	1.6	1.4	0.7
86.5°	1.9	1.6	1.2	0.7	0.6	0.6
87°	1.5	0.7	0.6	0.6	0.5	0.5
87.5°	1.4	0.6	0.5	0.4	0.0	0.0
88°	0.8	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: P522106

CATALOG NUMBER: RLLV6069BLE40AWHDM-4000K-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)