

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: P522107

Luminaire Tested: **RLLV6069BLE40AWHDM-5000K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522107
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-5000K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (16) 5000K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

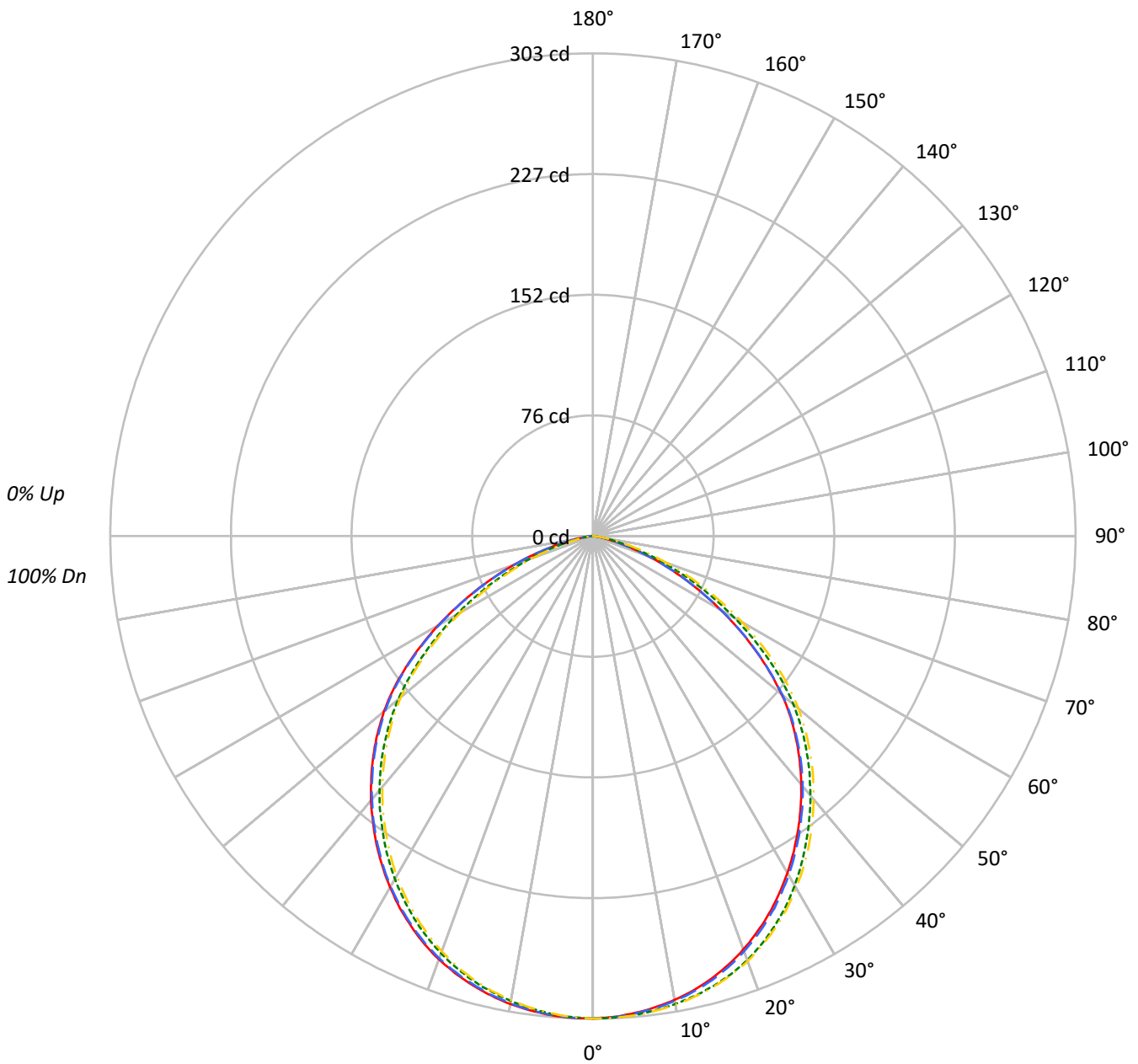
Lumens per Lamp: 706.09 (16 lamps)
Luminaire Lumens: 740.0 lumens
Efficiency: 6.6%
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P522107
CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-UNIT

Luminous Intensity Polar Plot



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



TEST NUMBER: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-UNIT

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16600	16600	16600	16600
5°	16536	16602	16613	16558
10°	16455	16605	16605	16494
15°	16322	16595	16566	16408
20°	16107	16521	16492	16259
25°	15817	16332	16344	16035
30°	15458	16040	16110	15737
35°	15038	15633	15841	15359
40°	14563	15193	15515	14914
45°	13986	14691	15102	14374
50°	13185	14004	14601	13603
55°	11851	12855	13686	12415
60°	10153	11249	12302	10854
65°	8198	9327	10546	9041
70°	5979	7133	8463	6876
75°	3622	4660	5909	4448
80°	1863	2431	3346	2273
85°	881	1510	2076	1510



TEST NUMBER: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-UNIT

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	28.6	3.9	0.3
10°-20°	81.9	11.1	0.7
20°-30°	122.8	16.6	1.1
30°-40°	144.6	19.5	1.3
40°-50°	144.5	19.5	1.3
50°-60°	118.7	16.0	1.1
60°-70°	71.3	9.6	0.6
70°-80°	24.7	3.3	0.2
80°-90°	3.0	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°	233.3	31.5	2.1
0°-40°	377.9	51.1	3.3
0°-60°	641.1	86.6	5.7
0°-90°	740.0	100.0	6.6
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°	740.0	100.0	6.6

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	303	303	303	303	303	
5°	300	302	302	301	300	29
15°	288	292	292	289	288	81
25°	262	270	270	265	262	120
35°	225	234	237	230	225	140
45°	180	190	195	185	180	139
55°	124	134	143	130	124	111
65°	63	72	81	70	63	63
75°	17	22	28	21	17	20
85°	1	2	3	2	1	2
90°	0	0	0	0	0	



TEST NUMBER: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-UNIT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8
0.5°	302.6	302.6	302.8	303.0	302.7	302.7	302.8	302.8	302.8	302.8	302.8
1°	302.5	302.5	302.7	303.0	302.7	302.8	302.8	302.8	302.8	302.8	302.8
1.5°	302.4	302.3	302.5	302.9	302.6	302.8	302.8	302.8	302.8	302.8	302.8
2°	302.2	302.2	302.4	302.8	302.6	302.7	302.8	302.8	302.8	302.8	302.7
2.5°	302.1	302.0	302.2	302.7	302.5	302.6	302.7	302.8	302.7	302.7	302.5
3°	301.9	301.9	302.1	302.5	302.4	302.5	302.6	302.6	302.6	302.5	302.4
3.5°	301.6	301.7	301.8	302.3	302.2	302.4	302.4	302.5	302.4	302.4	302.2
4°	301.1	301.3	301.6	302.1	302.1	302.3	302.3	302.4	302.3	302.2	302.0
4.5°	300.9	300.9	301.3	301.9	301.9	302.1	302.2	302.2	302.1	302.0	301.9
5°	300.5	300.6	300.9	301.7	301.7	301.9	302.0	302.1	301.9	301.8	301.7
5.5°	300.2	300.3	300.5	301.3	301.5	301.7	301.8	301.8	301.7	301.5	301.4
6°	299.8	299.9	300.2	300.9	301.1	301.4	301.7	301.5	301.4	301.1	301.0
6.5°	299.4	299.5	299.8	300.5	300.9	301.1	301.3	301.1	301.0	300.7	300.7
7°	298.9	299.1	299.4	300.2	300.5	300.7	301.0	300.8	300.7	300.4	300.4
7.5°	298.4	298.7	298.9	299.8	300.2	300.4	300.6	300.5	300.4	300.1	300.0
8°	297.9	298.2	298.5	299.4	299.9	300.1	300.3	300.1	300.0	299.7	299.7
8.5°	297.4	297.6	298.0	298.9	299.5	299.7	299.9	299.8	299.6	299.3	299.2
9°	296.8	297.0	297.4	298.4	299.1	299.3	299.5	299.3	299.2	298.8	298.7
9.5°	296.3	296.5	296.8	298.0	298.7	298.9	299.1	298.8	298.7	298.4	298.3
10°	295.6	295.9	296.3	297.3	298.3	298.5	298.7	298.4	298.3	297.8	297.8
10.5°	294.9	295.3	295.7	296.8	297.8	298.1	298.2	297.8	297.8	297.3	297.2
11°	294.3	294.6	295.0	296.2	297.2	297.5	297.6	297.3	297.2	296.7	296.7
11.5°	293.5	293.8	294.4	295.6	296.7	297.0	297.2	296.7	296.6	296.2	296.2
12°	292.8	293.1	293.6	295.0	296.2	296.5	296.6	296.2	296.1	295.5	295.5
12.5°	292.0	292.4	292.8	294.3	295.6	295.9	296.1	295.6	295.4	294.9	294.9
13°	291.2	291.7	292.1	293.6	295.0	295.3	295.5	294.9	294.8	294.1	294.3
13.5°	290.3	290.9	291.3	292.8	294.4	294.7	294.9	294.1	294.1	293.4	293.5
14°	289.4	290.0	290.4	292.1	293.7	294.0	294.3	293.5	293.4	292.7	292.7
14.5°	288.6	289.1	289.5	291.3	293.0	293.3	293.5	292.7	292.6	292.0	292.0
15°	287.6	288.2	288.7	290.5	292.4	292.6	292.8	292.0	291.9	291.2	291.2
15.5°	286.5	287.1	287.7	289.5	291.6	291.9	292.1	291.2	291.1	290.3	290.4
16°	285.5	286.1	286.7	288.6	290.8	291.1	291.3	290.3	290.2	289.5	289.6
16.5°	284.5	285.1	285.6	287.6	290.0	290.3	290.5	289.5	289.4	288.7	288.8
17°	283.3	284.1	284.6	286.5	289.2	289.4	289.6	288.7	288.6	287.7	287.8
17.5°	282.3	282.9	283.5	285.5	288.3	288.6	288.9	287.8	287.7	286.8	286.9
18°	281.1	281.8	282.3	284.4	287.4	287.6	287.9	286.8	286.7	285.8	286.0
18.5°	279.9	280.6	281.2	283.2	286.3	286.6	287.0	285.8	285.7	284.9	285.1
19°	278.7	279.3	279.9	282.0	285.4	285.6	286.0	285.0	284.8	283.9	284.1
19.5°	277.5	278.1	278.8	280.9	284.3	284.6	285.0	283.9	283.8	282.9	283.0
20°	276.1	276.9	277.5	279.5	283.2	283.5	284.0	282.9	282.7	281.9	282.0
20.5°	274.8	275.4	276.1	278.3	282.1	282.4	282.8	281.8	281.7	280.9	280.9
21°	273.5	274.3	274.8	277.1	280.9	281.3	281.7	280.7	280.6	279.6	279.7
21.5°	272.0	272.7	273.5	275.7	279.6	280.0	280.5	279.4	279.3	278.5	278.6
22°	270.6	271.3	272.0	274.4	278.3	278.8	279.2	278.3	278.1	277.3	277.4



TEST NUMBER: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	269.1	269.9	270.6	272.8	277.1	277.6	277.9	277.0	276.9	276.0	276.1
23°	267.7	268.4	269.1	271.5	275.7	276.3	276.7	275.7	275.5	274.7	274.8
23.5°	266.3	266.9	267.7	270.0	274.4	274.9	275.3	274.5	274.4	273.5	273.5
24°	264.7	265.4	266.2	268.5	272.8	273.5	274.1	273.0	272.9	272.1	272.2
24.5°	263.1	264.0	264.6	267.0	271.4	272.0	272.6	271.7	271.6	270.7	270.8
25°	261.5	262.3	263.0	265.4	270.0	270.6	271.2	270.3	270.2	269.2	269.4
25.5°	260.0	260.7	261.4	263.9	268.4	269.0	269.8	268.8	268.7	267.8	268.0
26°	258.2	259.2	259.9	262.2	266.9	267.5	268.2	267.4	267.3	266.4	266.6
26.5°	256.6	257.4	258.1	260.5	265.3	265.9	266.8	265.8	265.8	264.8	265.0
27°	254.8	255.8	256.4	258.8	263.7	264.5	265.1	264.4	264.3	263.3	263.5
27.5°	253.2	254.0	254.7	257.1	262.1	262.9	263.6	262.9	262.8	261.7	262.0
28°	251.3	252.4	253.0	255.3	260.4	261.0	262.0	261.1	261.2	260.3	260.4
28.5°	249.6	250.5	251.1	253.6	258.7	259.4	260.3	259.6	259.7	258.5	258.8
29°	247.8	248.8	249.5	251.8	256.9	257.6	258.6	257.8	257.9	256.9	257.2
29.5°	246.0	246.9	247.6	250.0	255.1	255.9	256.9	256.2	256.3	255.2	255.6
30°	244.2	245.2	245.8	248.1	253.4	254.0	255.2	254.4	254.5	253.7	253.9
30.5°	242.4	243.2	243.9	246.3	251.4	252.3	253.4	252.8	253.0	252.0	252.3
31°	240.4	241.4	242.1	244.4	249.6	250.4	251.5	251.0	251.3	250.2	250.5
31.5°	238.6	239.5	240.1	242.5	247.7	248.5	249.8	249.2	249.6	248.5	248.8
32°	236.6	237.6	238.2	240.6	245.8	246.5	247.9	247.3	247.7	246.6	246.9
32.5°	234.7	235.7	236.2	238.7	243.8	244.5	246.1	245.6	245.9	244.8	245.2
33°	232.7	233.7	234.2	236.7	241.9	242.6	244.2	243.7	244.1	243.0	243.3
33.5°	230.6	231.8	232.2	234.7	239.8	240.6	242.4	241.9	242.3	241.1	241.5
34°	228.7	229.8	230.3	232.6	237.7	238.6	240.4	239.9	240.4	239.3	239.6
34.5°	226.6	227.8	228.3	230.5	235.7	236.5	238.5	238.1	238.6	237.4	237.7
35°	224.7	225.8	226.2	228.5	233.6	234.5	236.5	236.1	236.7	235.6	235.9
35.5°	222.6	223.9	224.2	226.4	231.6	232.3	234.5	234.1	234.8	233.6	233.9
36°	220.6	221.7	222.1	224.3	229.5	230.2	232.4	232.2	232.8	231.7	232.0
36.5°	218.4	219.6	219.9	222.2	227.5	228.2	230.3	230.1	230.7	229.7	230.0
37°	216.3	217.5	217.8	220.0	225.3	226.0	228.3	228.3	228.8	227.7	228.0
37.5°	214.3	215.4	215.8	217.9	223.1	224.0	226.1	226.2	226.7	225.7	226.0
38°	212.1	213.4	213.7	215.7	221.1	221.9	224.1	224.2	224.8	223.8	224.0
38.5°	210.1	211.2	211.5	213.6	218.9	219.7	222.0	222.1	222.7	221.7	222.0
39°	207.9	209.0	209.3	211.4	216.8	217.6	219.8	220.0	220.8	219.6	219.9
39.5°	205.6	206.9	207.1	209.2	214.7	215.4	217.7	217.9	218.7	217.6	217.8
40°	203.5	204.7	204.8	207.0	212.3	213.3	215.5	215.8	216.8	215.5	215.7
40.5°	201.2	202.4	202.8	204.7	210.1	211.0	213.3	213.7	214.5	213.5	213.7
41°	199.0	200.3	200.4	202.4	207.9	208.7	211.1	211.6	212.3	211.3	211.5
41.5°	196.8	197.9	198.1	200.2	205.6	206.6	208.9	209.3	210.3	209.2	209.3
42°	194.5	195.7	195.8	197.8	203.4	204.3	206.8	207.3	208.1	207.1	207.2
42.5°	192.2	193.4	193.5	195.6	201.2	202.0	204.5	205.0	205.9	204.8	205.1
43°	189.9	191.1	191.1	193.2	198.8	199.7	202.3	202.8	203.9	202.8	202.9
43.5°	187.5	188.8	188.7	190.8	196.6	197.4	200.1	200.6	201.6	200.5	200.6
44°	185.2	186.4	186.4	188.4	194.2	195.0	197.7	198.2	199.4	198.2	198.4
44.5°	182.8	184.0	183.9	186.0	191.7	192.7	195.3	196.0	197.1	196.0	196.1



TEST NUMBER: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	180.4	181.7	181.6	183.6	189.5	190.3	193.0	193.7	194.8	193.8	193.9
45.5°	178.1	179.3	179.1	181.0	187.1	188.0	190.6	191.3	192.6	191.5	191.5
46°	175.6	176.9	176.6	178.7	184.6	185.6	188.2	189.0	190.3	189.3	189.4
46.5°	173.2	174.6	174.1	176.1	182.3	183.2	185.9	186.7	188.0	186.9	187.0
47°	170.7	172.0	171.8	173.6	179.8	180.7	183.4	184.2	185.8	184.6	184.5
47.5°	168.3	169.5	169.2	171.3	177.2	178.4	180.9	181.8	183.2	182.2	182.2
48°	165.8	166.8	166.6	168.5	174.8	175.9	178.5	179.3	180.8	179.8	179.8
48.5°	163.0	164.2	164.0	165.9	172.1	173.4	175.9	176.9	178.4	177.4	177.3
49°	160.5	161.5	161.2	163.2	169.5	170.8	173.5	174.3	176.0	175.1	175.0
49.5°	157.6	158.6	158.3	160.7	166.8	168.2	171.1	172.0	173.5	172.6	172.6
50°	154.6	155.7	155.4	157.8	164.2	165.5	168.4	169.4	171.2	170.1	170.0
50.5°	151.7	152.9	152.3	154.9	161.5	162.7	165.8	166.7	168.6	167.6	167.7
51°	148.7	149.9	149.4	151.8	158.6	159.8	163.1	164.1	166.0	165.0	165.0
51.5°	145.8	147.0	146.5	148.9	155.7	157.2	160.4	161.3	163.4	162.4	162.3
52°	142.9	143.9	143.3	145.8	152.7	154.1	157.4	158.6	160.6	159.6	159.6
52.5°	139.7	140.8	140.3	142.8	149.8	151.2	154.6	155.7	157.8	156.9	156.9
53°	136.7	137.8	137.1	139.8	146.9	148.2	151.6	152.7	155.0	154.0	154.0
53.5°	133.4	134.5	134.0	136.7	143.9	145.1	148.8	149.8	152.0	151.1	151.1
54°	130.4	131.4	130.8	133.5	140.7	142.0	145.7	146.8	149.1	148.1	148.2
54.5°	127.1	128.2	127.7	130.4	137.6	139.0	142.6	143.9	146.1	145.2	145.2
55°	124.0	125.0	124.5	127.2	134.5	135.9	139.7	140.9	143.2	142.3	142.2
55.5°	120.9	121.8	121.4	123.9	131.3	133.0	136.5	137.7	140.1	139.1	139.0
56°	117.7	118.6	118.3	120.7	128.0	129.8	133.4	134.7	137.0	136.2	136.1
56.5°	114.7	115.5	115.2	117.6	124.9	126.6	130.4	131.7	134.0	133.2	133.0
57°	111.5	112.3	111.9	114.6	121.8	123.3	127.3	128.4	131.0	130.0	129.9
57.5°	108.3	109.1	108.6	111.3	118.5	120.1	124.0	125.4	127.7	126.9	126.9
58°	105.1	105.9	105.5	108.1	115.3	117.0	120.9	122.3	124.6	123.7	123.7
58.5°	102.0	102.8	102.3	105.0	112.1	113.7	117.7	119.1	121.5	120.6	120.5
59°	98.9	99.6	99.2	101.7	108.9	110.6	114.7	116.0	118.3	117.5	117.4
59.5°	95.7	96.3	96.0	98.5	105.7	107.4	111.5	112.8	115.3	114.3	114.3
60°	92.6	93.3	92.9	95.4	102.6	104.3	108.3	109.7	112.2	111.3	111.2
60.5°	89.6	90.4	89.9	92.4	99.5	101.1	105.2	106.5	109.0	108.1	108.1
61°	86.6	87.3	86.7	89.2	96.3	97.9	102.1	103.3	105.9	105.0	105.0
61.5°	83.5	84.2	83.7	86.2	93.1	94.7	98.9	100.3	102.8	101.8	101.9
62°	80.5	81.2	80.7	83.2	90.2	91.7	95.8	97.1	99.7	98.7	98.7
62.5°	77.5	78.2	77.8	80.2	87.0	88.6	92.7	94.1	96.5	95.6	95.6
63°	74.6	75.3	74.8	77.2	83.9	85.6	89.6	91.0	93.5	92.6	92.5
63.5°	71.8	72.4	71.9	74.3	80.9	82.5	86.6	88.1	90.4	89.6	89.5
64°	68.9	69.6	69.1	71.3	78.0	79.5	83.7	84.9	87.4	86.6	86.5
64.5°	66.1	66.7	66.2	68.4	74.9	76.6	80.5	81.9	84.3	83.5	83.5
65°	63.2	63.8	63.3	65.6	71.9	73.6	77.6	78.9	81.3	80.4	80.4
65.5°	60.4	61.0	60.5	62.8	69.2	70.6	74.6	76.0	78.3	77.4	77.6
66°	57.6	58.4	57.7	60.0	66.2	67.8	71.5	73.0	75.3	74.6	74.5
66.5°	55.1	55.5	55.2	57.1	63.3	64.9	68.8	70.1	72.5	71.7	71.5
67°	52.3	52.9	52.3	54.5	60.5	62.1	65.8	67.2	69.5	68.8	68.6



TEST NUMBER: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	49.7	50.2	49.7	51.9	57.7	59.3	63.0	64.3	66.6	65.9	65.9
68°	47.1	47.7	47.1	49.2	55.1	56.6	60.3	61.4	63.8	63.0	63.1
68.5°	44.6	45.1	44.6	46.6	52.4	53.7	57.4	58.7	61.0	60.2	60.2
69°	42.1	42.6	42.1	44.1	49.6	50.9	54.8	55.8	58.4	57.4	57.4
69.5°	39.5	40.2	39.6	41.7	47.0	48.4	52.0	53.1	55.4	54.7	54.8
70°	37.3	37.7	37.3	39.0	44.5	45.8	49.3	50.4	52.8	52.0	52.0
70.5°	34.9	35.3	34.9	36.7	42.0	43.2	46.6	47.9	50.0	49.3	49.3
71°	32.6	33.0	32.5	34.5	39.4	40.8	44.1	45.2	47.4	46.6	46.7
71.5°	30.4	31.0	30.4	32.1	37.1	38.3	41.7	42.6	44.8	44.1	44.3
72°	28.2	28.9	28.2	30.1	34.7	35.8	39.0	40.0	42.2	41.5	41.7
72.5°	26.2	26.8	26.1	27.7	32.4	33.4	36.6	37.6	39.7	39.0	39.1
73°	24.3	24.6	24.3	25.7	30.3	31.3	34.3	35.3	37.2	36.5	36.6
73.5°	22.4	22.6	22.4	23.8	27.9	29.1	32.0	32.9	34.8	34.3	34.3
74°	20.6	20.8	20.5	21.9	25.9	27.0	29.6	30.7	32.4	31.9	31.9
74.5°	18.8	19.0	18.7	20.1	24.0	24.8	27.5	28.3	30.2	29.7	29.7
75°	17.1	17.4	17.1	18.2	22.0	22.7	25.5	26.2	27.9	27.6	27.6
75.5°	15.4	15.7	15.3	16.7	20.2	20.9	23.5	24.2	25.8	25.3	25.6
76°	14.0	14.4	13.9	15.0	18.4	19.0	21.4	22.1	23.9	23.3	23.6
76.5°	12.7	12.9	12.7	13.6	16.7	17.3	19.6	20.3	21.8	21.2	21.4
77°	11.5	11.4	11.4	12.4	15.0	15.8	17.8	18.4	20.0	19.5	19.7
77.5°	10.1	10.3	10.0	11.1	13.6	14.3	16.3	16.8	18.1	17.7	17.8
78°	9.2	9.4	9.1	9.7	12.4	12.9	14.7	15.1	16.6	16.2	16.3
78.5°	7.9	8.1	7.9	8.7	11.1	11.6	13.1	13.5	14.9	14.5	14.7
79°	7.2	7.3	7.0	7.7	9.7	10.2	11.7	12.0	13.2	13.0	13.1
79.5°	6.3	6.4	6.2	6.8	8.9	9.3	10.6	10.9	11.9	11.6	11.6
80°	5.9	5.9	5.6	6.0	7.7	7.9	9.5	9.8	10.6	10.3	10.5
80.5°	5.1	5.0	4.9	5.2	6.8	7.2	8.1	8.5	9.5	9.2	9.4
81°	4.5	4.4	4.3	4.8	6.0	6.3	7.2	7.6	8.2	8.0	8.0
81.5°	4.1	4.1	4.1	4.1	5.2	5.8	6.3	6.6	7.3	7.2	7.1
82°	3.7	3.8	3.5	4.0	4.8	5.0	5.9	6.0	6.4	6.2	6.2
82.5°	3.3	3.3	3.2	3.3	4.2	4.4	4.9	5.2	5.9	5.6	5.8
83°	3.0	3.0	2.8	3.0	4.1	4.1	4.3	4.6	5.0	4.9	4.9
83.5°	2.5	2.5	2.5	2.5	3.4	3.6	4.1	4.2	4.3	4.4	4.2
84°	2.4	2.3	2.4	2.4	3.1	3.3	3.4	4.0	4.1	4.1	4.1
84.5°	1.9	1.7	1.7	2.2	2.6	2.9	3.2	3.3	3.7	3.6	3.4
85°	1.4	1.4	1.5	1.7	2.4	2.5	2.8	3.0	3.3	3.3	3.2
85.5°	1.5	1.5	1.6	1.3	2.3	2.4	2.4	2.6	2.9	2.9	2.9
86°	0.7	0.7	0.7	0.9	1.7	1.6	2.3	2.4	2.4	2.5	2.4
86.5°	0.6	0.5	0.6	0.6	1.3	1.4	1.6	2.2	2.3	2.4	2.3
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: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-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: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	302.8	302.8	302.8	302.8	302.8	302.8
0.5°	303.1	302.7	302.6	302.7	302.6	302.6
1°	303.1	302.6	302.5	302.6	302.5	302.5
1.5°	303.0	302.5	302.4	302.5	302.4	302.4
2°	303.0	302.4	302.3	302.4	302.2	302.2
2.5°	302.9	302.2	302.1	302.1	302.1	302.1
3°	302.7	302.1	301.9	302.0	301.9	301.9
3.5°	302.6	301.8	301.7	301.7	301.7	301.6
4°	302.3	301.6	301.5	301.4	301.4	301.1
4.5°	302.1	301.3	301.1	301.0	300.9	300.9
5°	301.9	300.9	300.8	300.7	300.6	300.5
5.5°	301.7	300.6	300.4	300.3	300.3	300.2
6°	301.3	300.2	300.1	300.0	299.9	299.8
6.5°	300.9	299.9	299.8	299.6	299.5	299.4
7°	300.5	299.4	299.3	299.1	299.1	298.9
7.5°	300.2	298.9	298.9	298.6	298.6	298.4
8°	299.8	298.5	298.4	298.2	298.2	297.9
8.5°	299.3	298.1	298.0	297.6	297.5	297.4
9°	298.9	297.4	297.3	297.0	297.0	296.8
9.5°	298.4	296.9	296.8	296.5	296.4	296.3
10°	297.9	296.3	296.3	295.9	295.9	295.6
10.5°	297.3	295.7	295.7	295.2	295.3	294.9
11°	296.7	295.1	295.1	294.6	294.6	294.3
11.5°	296.1	294.5	294.4	293.8	293.8	293.5
12°	295.5	293.7	293.7	293.1	293.1	292.8
12.5°	294.8	293.0	293.0	292.5	292.3	292.0
13°	294.1	292.3	292.3	291.7	291.6	291.2
13.5°	293.4	291.6	291.6	290.9	290.8	290.3
14°	292.7	291.0	290.8	290.0	289.9	289.4
14.5°	291.9	289.9	289.9	289.2	289.0	288.6
15°	291.2	289.1	289.1	288.3	288.1	287.6
15.5°	290.3	288.3	288.2	287.4	287.0	286.5
16°	289.4	287.4	287.3	286.3	286.0	285.5
16.5°	288.6	286.3	286.3	285.4	285.1	284.5
17°	287.7	285.4	285.3	284.3	284.0	283.3
17.5°	286.8	284.3	284.3	283.2	282.9	282.3
18°	285.8	283.2	283.2	282.1	281.8	281.1
18.5°	284.9	282.2	282.1	281.0	280.6	279.9
19°	283.9	281.1	281.0	279.7	279.3	278.7
19.5°	282.8	279.9	279.7	278.6	278.1	277.5
20°	281.8	278.7	278.6	277.4	277.0	276.1
20.5°	280.7	277.5	277.4	276.0	275.5	274.8
21°	279.5	276.3	276.1	274.8	274.4	273.5
21.5°	278.3	274.9	274.8	273.4	272.8	272.0
22°	277.1	273.7	273.5	272.0	271.5	270.6



TEST NUMBER: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	275.8	272.3	272.1	270.6	270.0	269.1
23°	274.6	270.9	270.7	269.1	268.6	267.7
23.5°	273.2	269.6	269.2	267.7	267.1	266.3
24°	271.8	268.1	267.9	266.4	265.6	264.7
24.5°	270.4	266.6	266.4	264.7	264.2	263.1
25°	268.9	265.1	264.9	263.2	262.6	261.5
25.5°	267.5	263.6	263.4	261.6	261.0	260.0
26°	266.1	261.9	261.7	260.0	259.5	258.2
26.5°	264.6	260.4	260.2	258.4	257.7	256.6
27°	263.0	258.8	258.5	256.7	256.1	254.8
27.5°	261.4	257.2	256.9	255.0	254.3	253.2
28°	259.9	255.5	255.2	253.3	252.7	251.3
28.5°	258.2	253.8	253.5	251.6	250.9	249.6
29°	256.5	252.1	251.7	249.9	249.2	247.8
29.5°	254.8	250.3	249.9	248.0	247.4	246.0
30°	253.2	248.6	248.1	246.2	245.5	244.2
30.5°	251.6	246.7	246.3	244.4	243.6	242.4
31°	249.8	245.0	244.3	242.6	241.8	240.4
31.5°	248.0	243.1	242.6	240.7	239.9	238.6
32°	246.1	241.1	240.6	238.8	238.1	236.6
32.5°	244.2	239.3	238.7	236.8	236.1	234.7
33°	242.5	237.4	236.8	234.8	234.1	232.7
33.5°	240.6	235.5	234.9	232.8	232.2	230.6
34°	238.8	233.5	232.8	230.9	230.1	228.7
34.5°	236.8	231.6	230.7	228.8	228.2	226.6
35°	234.9	229.5	228.7	226.7	226.2	224.7
35.5°	232.9	227.4	226.7	224.7	224.2	222.6
36°	230.9	225.3	224.7	222.6	222.1	220.6
36.5°	228.9	223.2	222.6	220.6	220.0	218.4
37°	226.8	221.2	220.5	218.5	218.0	216.3
37.5°	224.9	219.1	218.4	216.4	215.8	214.3
38°	222.8	217.2	216.2	214.4	213.8	212.1
38.5°	220.9	215.0	214.1	212.1	211.6	210.1
39°	218.7	212.8	212.0	210.0	209.5	207.9
39.5°	216.6	210.6	209.9	207.8	207.4	205.6
40°	214.5	208.4	207.6	205.5	205.1	203.5
40.5°	212.3	206.2	205.4	203.3	202.9	201.2
41°	210.2	204.0	203.1	201.1	200.7	199.0
41.5°	208.0	201.7	200.9	198.9	198.4	196.8
42°	205.7	199.5	198.7	196.6	196.2	194.5
42.5°	203.5	197.2	196.5	194.2	193.9	192.2
43°	201.2	194.8	194.1	191.9	191.6	189.9
43.5°	198.9	192.5	191.8	189.6	189.4	187.5
44°	196.7	190.1	189.6	187.2	186.9	185.2
44.5°	194.4	187.7	187.1	184.9	184.5	182.8



TEST NUMBER: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	192.1	185.4	184.7	182.6	182.2	180.4
45.5°	189.7	182.9	182.4	180.2	179.9	178.1
46°	187.2	180.4	180.0	177.7	177.4	175.6
46.5°	184.8	177.8	177.5	175.4	175.1	173.2
47°	182.4	175.5	175.2	172.9	172.6	170.7
47.5°	180.0	172.8	172.7	170.4	170.1	168.3
48°	177.4	170.3	170.0	168.0	167.6	165.8
48.5°	175.0	167.7	167.6	165.4	165.0	163.0
49°	172.5	165.0	165.0	162.7	162.4	160.5
49.5°	170.0	162.3	162.3	160.0	159.7	157.6
50°	167.3	159.5	159.6	157.4	156.9	154.6
50.5°	164.7	156.7	156.9	154.4	154.0	151.7
51°	162.0	153.9	154.0	151.5	151.1	148.7
51.5°	159.3	151.0	151.0	148.5	148.1	145.8
52°	156.5	148.1	148.0	145.6	145.1	142.9
52.5°	153.7	145.0	145.1	142.8	142.1	139.7
53°	150.7	142.1	142.1	139.5	138.9	136.7
53.5°	147.8	139.0	139.0	136.5	136.0	133.4
54°	144.8	136.0	136.1	133.4	132.8	130.4
54.5°	141.7	132.9	132.9	130.2	129.6	127.1
55°	138.6	129.9	129.7	127.1	126.4	124.0
55.5°	135.7	126.8	126.7	124.1	123.3	120.9
56°	132.7	123.7	123.5	120.8	120.1	117.7
56.5°	129.6	120.6	120.4	117.6	116.9	114.7
57°	126.4	117.4	117.3	114.6	113.8	111.5
57.5°	123.2	114.3	114.3	111.4	110.6	108.3
58°	120.1	111.3	111.1	108.2	107.4	105.1
58.5°	117.0	108.2	107.9	105.2	104.4	102.0
59°	113.9	105.2	104.9	101.9	101.1	98.9
59.5°	110.8	102.0	101.8	98.9	98.0	95.7
60°	107.7	99.0	98.6	95.7	95.0	92.6
60.5°	104.6	95.9	95.6	92.7	91.9	89.6
61°	101.4	92.9	92.5	89.5	88.9	86.6
61.5°	98.3	90.0	89.4	86.5	85.8	83.5
62°	95.3	86.9	86.5	83.5	82.7	80.5
62.5°	92.3	84.0	83.5	80.5	79.7	77.5
63°	89.2	81.0	80.5	77.6	76.8	74.6
63.5°	86.4	78.2	77.6	74.7	73.9	71.8
64°	83.2	75.2	74.7	71.9	71.1	68.9
64.5°	80.2	72.4	71.8	69.0	68.1	66.1
65°	77.4	69.7	69.1	66.1	65.3	63.2
65.5°	74.4	66.7	66.1	63.2	62.5	60.4
66°	71.6	64.0	63.3	60.5	59.7	57.6
66.5°	68.8	61.2	60.5	57.7	56.8	55.1
67°	65.9	58.6	57.8	55.2	54.2	52.3



TEST NUMBER: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	63.0	55.8	55.2	52.4	51.6	49.7
68°	60.3	53.2	52.7	49.7	49.0	47.1
68.5°	57.4	50.5	49.9	47.1	46.4	44.6
69°	54.8	48.0	47.3	44.6	43.9	42.1
69.5°	52.1	45.4	44.8	42.2	41.4	39.5
70°	49.5	42.9	42.2	39.5	38.9	37.3
70.5°	46.9	40.7	39.8	37.3	36.6	34.9
71°	44.4	38.2	37.5	34.9	34.3	32.6
71.5°	41.9	35.7	35.1	32.6	32.0	30.4
72°	39.2	33.4	32.8	30.4	29.8	28.2
72.5°	36.9	31.3	30.6	28.1	27.7	26.2
73°	34.6	29.3	28.5	26.2	25.7	24.3
73.5°	32.3	27.2	26.2	24.3	23.8	22.4
74°	30.1	25.0	24.2	22.3	21.8	20.6
74.5°	28.0	23.0	22.3	20.5	20.1	18.8
75°	25.8	21.0	20.4	18.7	18.3	17.1
75.5°	23.8	19.2	18.7	17.0	16.7	15.4
76°	21.8	17.5	17.0	15.4	15.0	14.0
76.5°	20.0	16.1	15.5	13.8	13.5	12.7
77°	18.1	14.5	13.9	12.5	12.2	11.5
77.5°	16.5	13.0	12.5	11.2	11.1	10.1
78°	14.9	11.6	11.2	9.9	9.7	9.2
78.5°	13.4	10.2	9.9	8.9	8.7	7.9
79°	11.8	9.2	8.9	7.9	7.7	7.2
79.5°	10.7	8.0	7.7	6.9	6.9	6.3
80°	9.7	7.2	6.8	6.1	6.0	5.9
80.5°	8.2	6.2	6.0	5.4	5.4	5.1
81°	7.4	5.6	5.2	4.8	4.8	4.5
81.5°	6.4	4.9	4.7	4.3	4.2	4.1
82°	6.0	4.3	4.2	4.0	4.0	3.7
82.5°	5.1	4.1	4.0	3.5	3.4	3.3
83°	4.4	3.5	3.3	3.1	3.1	3.0
83.5°	4.1	3.2	3.1	2.7	2.6	2.5
84°	3.8	2.9	2.5	2.4	2.4	2.4
84.5°	3.3	2.5	2.4	2.4	2.3	1.9
85°	3.0	2.4	2.3	1.7	1.7	1.4
85.5°	2.5	1.7	1.7	1.5	1.4	1.5
86°	2.3	1.4	1.3	1.6	1.4	0.7
86.5°	2.0	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: P522107

CATALOG NUMBER: RLLV6069BLE40AWHDM-5000K-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)