

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: P522104

Luminaire Tested: **RLLV6069BLE40AWHDM-3000K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522104
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-3000K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (16) 3000K CCT, 93 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

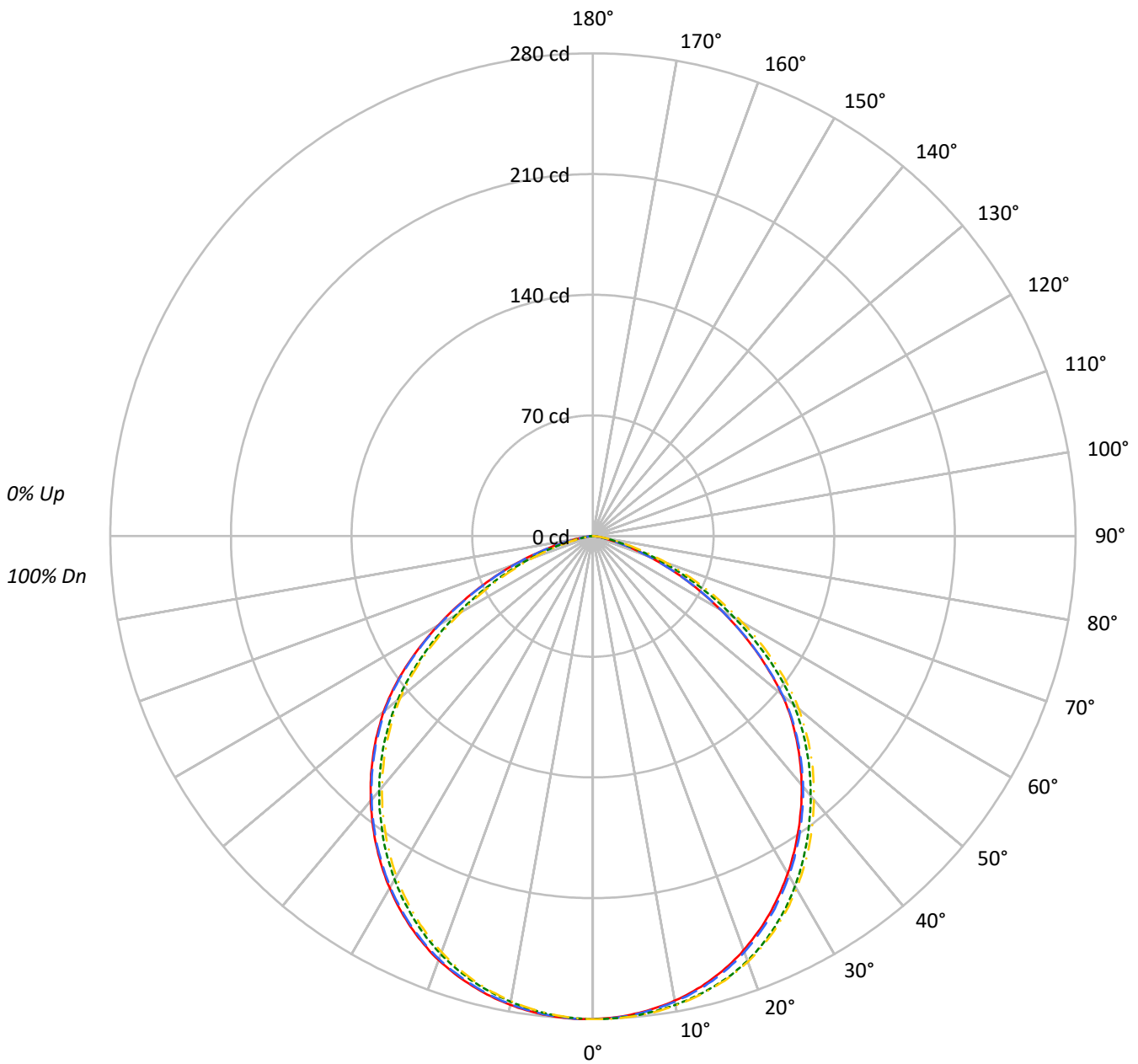
Lumens per Lamp: 706.09 (16 lamps)
Luminaire Lumens: 685.0 lumens
Efficiency: 6.1%
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P522104
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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				10
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	7	6	6	6	6	6	6	6	6	6	6	5	5	6	5	5	5
2	6	6	5	5	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4
3	6	5	5	4	5	5	5	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	4	4	4	3	4	4	3	4	4	3	3
5	5	4	4	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	3
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	3	2	4	3	3	2	3	2	2	3	2	2	3	2	2	3	2	2	2
9	4	3	2	2	3	3	2	2	3	2	2	3	2	2	3	2	2	3	2	2	2
10	3	3	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15366	15366	15366	15366
5°	15309	15364	15375	15331
10°	15230	15369	15369	15269
15°	15108	15363	15335	15187
20°	14911	15296	15267	15051
25°	14644	15116	15128	14844
30°	14312	14850	14914	14566
35°	13920	14475	14663	14221
40°	13482	14062	14355	13804
45°	12947	13598	13978	13304
50°	12204	12963	13509	12597
55°	10972	11899	12664	11488
60°	9396	10416	11381	10054
65°	7588	8639	9768	8367
70°	5530	6604	7838	6363
75°	3347	4321	5465	4109
80°	1705	2241	3094	2115
85°	818	1384	1887	1384



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	26.5	3.9	0.2
10°-20°	75.8	11.1	0.7
20°-30°	113.7	16.6	1.0
30°-40°	133.8	19.5	1.2
40°-50°	133.8	19.5	1.2
50°-60°	109.9	16.0	1.0
60°-70°	66.0	9.6	0.6
70°-80°	22.8	3.3	0.2
80°-90°	2.8	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°	216.0	31.5	1.9
0°-40°	349.8	51.1	3.1
0°-60°	593.4	86.6	5.3
0°-90°	685.0	100.0	6.1
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°	685.0	100.0	6.1

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	280	280	280	280	280	
5°	278	279	279	279	278	26
15°	266	271	270	268	266	75
25°	242	250	250	245	242	111
35°	208	216	219	212	208	130
45°	167	175	180	172	167	129
55°	115	124	132	120	115	102
65°	58	67	75	64	58	58
75°	16	20	26	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°	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3
0.5°	280.1	280.1	280.3	280.5	280.2	280.2	280.3	280.3	280.3	280.3	280.3
1°	280.0	280.0	280.2	280.5	280.2	280.3	280.3	280.3	280.3	280.3	280.3
1.5°	279.9	279.8	280.0	280.4	280.1	280.3	280.3	280.3	280.3	280.3	280.3
2°	279.7	279.7	279.9	280.3	280.1	280.2	280.3	280.3	280.3	280.3	280.2
2.5°	279.6	279.5	279.7	280.2	280.0	280.1	280.2	280.3	280.2	280.2	280.0
3°	279.4	279.4	279.6	280.0	279.9	280.0	280.1	280.1	280.1	280.0	279.9
3.5°	279.1	279.2	279.3	279.8	279.7	279.9	279.9	280.0	279.9	279.9	279.7
4°	278.8	278.9	279.1	279.6	279.6	279.8	279.8	279.9	279.8	279.7	279.5
4.5°	278.6	278.6	278.9	279.4	279.4	279.6	279.7	279.7	279.6	279.5	279.4
5°	278.2	278.3	278.6	279.2	279.2	279.4	279.5	279.6	279.4	279.3	279.2
5.5°	277.9	278.0	278.2	278.9	279.1	279.2	279.3	279.3	279.2	279.1	279.0
6°	277.5	277.6	277.9	278.6	278.8	279.0	279.2	279.1	279.0	278.8	278.7
6.5°	277.1	277.2	277.5	278.2	278.6	278.8	278.9	278.8	278.7	278.4	278.4
7°	276.7	276.9	277.1	277.9	278.2	278.4	278.7	278.5	278.4	278.1	278.1
7.5°	276.2	276.5	276.7	277.5	277.9	278.1	278.3	278.2	278.1	277.8	277.7
8°	275.7	276.0	276.3	277.1	277.6	277.8	278.0	277.8	277.7	277.4	277.4
8.5°	275.3	275.5	275.8	276.7	277.2	277.4	277.6	277.5	277.3	277.0	277.0
9°	274.8	275.0	275.3	276.2	276.9	277.0	277.2	277.0	277.0	276.6	276.5
9.5°	274.3	274.5	274.8	275.8	276.5	276.7	276.9	276.6	276.5	276.2	276.1
10°	273.6	273.9	274.3	275.2	276.1	276.3	276.5	276.2	276.1	275.6	275.6
10.5°	273.0	273.3	273.7	274.8	275.6	275.9	276.0	275.6	275.6	275.2	275.1
11°	272.4	272.7	273.0	274.2	275.1	275.4	275.5	275.2	275.1	274.7	274.7
11.5°	271.7	272.0	272.5	273.6	274.7	275.0	275.1	274.7	274.6	274.2	274.2
12°	271.0	271.3	271.8	273.0	274.2	274.5	274.6	274.2	274.1	273.5	273.5
12.5°	270.3	270.7	271.0	272.4	273.6	273.9	274.1	273.6	273.4	273.0	273.0
13°	269.5	270.0	270.4	271.8	273.0	273.3	273.5	273.0	272.9	272.3	272.4
13.5°	268.8	269.2	269.6	271.0	272.5	272.8	273.0	272.3	272.3	271.6	271.7
14°	267.9	268.5	268.9	270.4	271.9	272.2	272.4	271.7	271.6	271.0	271.0
14.5°	267.1	267.6	268.0	269.6	271.2	271.5	271.7	271.0	270.9	270.3	270.3
15°	266.2	266.8	267.2	269.0	270.7	270.9	271.0	270.3	270.2	269.5	269.5
15.5°	265.2	265.8	266.3	268.0	269.9	270.2	270.4	269.5	269.4	268.8	268.9
16°	264.3	264.9	265.4	267.1	269.1	269.4	269.6	268.8	268.7	268.0	268.1
16.5°	263.3	263.9	264.4	266.2	268.5	268.8	269.0	268.0	267.9	267.2	267.3
17°	262.3	262.9	263.4	265.2	267.7	267.9	268.1	267.2	267.1	266.3	266.4
17.5°	261.3	261.9	262.5	264.3	266.9	267.1	267.4	266.4	266.3	265.5	265.6
18°	260.2	260.9	261.3	263.2	266.0	266.2	266.5	265.5	265.4	264.6	264.8
18.5°	259.1	259.7	260.3	262.2	265.0	265.3	265.7	264.6	264.5	263.7	263.9
19°	258.0	258.6	259.1	261.0	264.2	264.4	264.8	263.8	263.6	262.8	262.9
19.5°	256.9	257.4	258.1	260.0	263.1	263.4	263.8	262.8	262.7	261.9	262.0
20°	255.6	256.3	256.9	258.8	262.2	262.5	262.9	261.9	261.7	260.9	261.0
20.5°	254.4	254.9	255.6	257.6	261.1	261.4	261.8	260.9	260.8	260.0	260.0
21°	253.1	253.9	254.4	256.5	260.0	260.4	260.8	259.8	259.7	258.9	258.9
21.5°	251.8	252.5	253.1	255.2	258.9	259.2	259.6	258.7	258.6	257.8	257.9
22°	250.5	251.1	251.8	254.0	257.6	258.1	258.5	257.6	257.4	256.7	256.8



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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°	249.1	249.8	250.5	252.6	256.5	256.9	257.2	256.4	256.3	255.5	255.6
23°	247.8	248.5	249.1	251.3	255.2	255.8	256.1	255.2	255.0	254.3	254.4
23.5°	246.5	247.0	247.8	249.9	254.0	254.5	254.9	254.1	254.0	253.1	253.1
24°	245.0	245.7	246.4	248.6	252.6	253.1	253.7	252.8	252.7	251.9	252.0
24.5°	243.5	244.4	244.9	247.1	251.2	251.8	252.4	251.5	251.4	250.6	250.7
25°	242.1	242.8	243.4	245.7	249.9	250.5	251.0	250.2	250.1	249.2	249.4
25.5°	240.7	241.3	242.0	244.3	248.5	249.0	249.7	248.8	248.8	247.9	248.1
26°	239.0	239.9	240.6	242.8	247.0	247.6	248.3	247.5	247.4	246.6	246.8
26.5°	237.5	238.3	238.9	241.1	245.6	246.2	246.9	246.1	246.1	245.1	245.3
27°	235.9	236.7	237.3	239.6	244.1	244.8	245.4	244.8	244.7	243.7	243.9
27.5°	234.4	235.1	235.8	238.0	242.7	243.3	244.0	243.3	243.2	242.3	242.6
28°	232.7	233.6	234.2	236.4	241.0	241.6	242.6	241.7	241.8	240.9	241.0
28.5°	231.0	231.9	232.5	234.7	239.5	240.1	240.9	240.3	240.4	239.3	239.6
29°	229.4	230.3	230.9	233.1	237.8	238.5	239.4	238.7	238.8	237.8	238.1
29.5°	227.7	228.6	229.2	231.4	236.2	236.8	237.8	237.1	237.2	236.3	236.6
30°	226.1	226.9	227.5	229.7	234.6	235.1	236.3	235.5	235.6	234.8	235.0
30.5°	224.4	225.1	225.8	228.0	232.7	233.5	234.6	234.0	234.2	233.2	233.5
31°	222.6	223.4	224.1	226.3	231.0	231.8	232.8	232.4	232.7	231.6	231.9
31.5°	220.8	221.7	222.3	224.5	229.3	230.0	231.2	230.7	231.0	230.0	230.3
32°	219.0	220.0	220.5	222.7	227.5	228.2	229.5	228.9	229.3	228.3	228.6
32.5°	217.2	218.2	218.6	220.9	225.7	226.4	227.8	227.3	227.6	226.7	226.9
33°	215.4	216.4	216.8	219.1	223.9	224.6	226.1	225.6	226.0	224.9	225.2
33.5°	213.5	214.6	214.9	217.2	222.0	222.7	224.4	223.9	224.3	223.2	223.5
34°	211.7	212.7	213.2	215.3	220.1	220.8	222.6	222.1	222.6	221.5	221.8
34.5°	209.8	210.8	211.3	213.4	218.2	218.9	220.7	220.4	220.8	219.8	220.1
35°	208.0	209.0	209.4	211.5	216.3	217.0	218.9	218.6	219.1	218.1	218.4
35.5°	206.1	207.2	207.5	209.6	214.4	215.0	217.0	216.7	217.3	216.3	216.6
36°	204.2	205.2	205.6	207.6	212.5	213.1	215.1	214.9	215.5	214.5	214.7
36.5°	202.2	203.3	203.6	205.7	210.6	211.2	213.2	213.0	213.6	212.6	212.9
37°	200.3	201.3	201.6	203.7	208.5	209.2	211.3	211.3	211.8	210.7	211.0
37.5°	198.4	199.4	199.8	201.7	206.5	207.3	209.3	209.4	209.9	208.9	209.2
38°	196.4	197.5	197.8	199.7	204.6	205.4	207.4	207.5	208.1	207.1	207.3
38.5°	194.4	195.5	195.8	197.7	202.6	203.4	205.5	205.6	206.2	205.2	205.5
39°	192.4	193.5	193.8	195.7	200.6	201.4	203.5	203.7	204.4	203.3	203.6
39.5°	190.4	191.5	191.7	193.7	198.7	199.4	201.5	201.7	202.5	201.4	201.6
40°	188.4	189.5	189.6	191.6	196.5	197.4	199.5	199.8	200.6	199.5	199.7
40.5°	186.3	187.4	187.7	189.5	194.4	195.3	197.4	197.8	198.5	197.6	197.8
41°	184.3	185.4	185.5	187.4	192.4	193.2	195.4	195.9	196.5	195.6	195.8
41.5°	182.2	183.2	183.4	185.3	190.4	191.2	193.4	193.8	194.6	193.7	193.8
42°	180.1	181.1	181.2	183.1	188.3	189.1	191.4	191.9	192.6	191.7	191.8
42.5°	177.9	179.0	179.1	181.0	186.3	187.0	189.3	189.8	190.6	189.6	189.9
43°	175.8	176.9	176.9	178.8	184.1	184.8	187.3	187.7	188.7	187.7	187.8
43.5°	173.6	174.7	174.6	176.6	182.0	182.7	185.2	185.7	186.6	185.6	185.7
44°	171.4	172.5	172.5	174.4	179.8	180.5	183.0	183.5	184.5	183.5	183.7
44.5°	169.2	170.3	170.3	172.2	177.5	178.3	180.8	181.4	182.4	181.4	181.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	167.0	168.2	168.1	170.0	175.4	176.2	178.6	179.3	180.3	179.4	179.5
45.5°	164.8	166.0	165.8	167.6	173.2	174.1	176.4	177.1	178.3	177.3	177.3
46°	162.5	163.8	163.5	165.4	170.9	171.8	174.3	174.9	176.2	175.2	175.3
46.5°	160.3	161.6	161.2	163.0	168.7	169.6	172.1	172.8	174.1	173.0	173.1
47°	158.1	159.2	159.0	160.7	166.4	167.3	169.8	170.5	172.0	170.9	170.8
47.5°	155.8	156.9	156.6	158.5	164.1	165.1	167.5	168.2	169.6	168.6	168.6
48°	153.5	154.4	154.2	156.0	161.8	162.8	165.2	166.0	167.4	166.4	166.4
48.5°	150.9	152.0	151.8	153.6	159.3	160.5	162.8	163.8	165.1	164.2	164.2
49°	148.5	149.5	149.2	151.1	156.9	158.2	160.6	161.4	162.9	162.1	162.0
49.5°	145.9	146.8	146.5	148.7	154.4	155.7	158.3	159.2	160.6	159.8	159.8
50°	143.1	144.1	143.9	146.1	152.0	153.2	155.9	156.8	158.4	157.5	157.4
50.5°	140.4	141.6	141.0	143.4	149.5	150.6	153.5	154.3	156.1	155.1	155.2
51°	137.7	138.7	138.3	140.5	146.8	148.0	151.0	151.9	153.7	152.7	152.7
51.5°	135.0	136.0	135.6	137.9	144.1	145.5	148.4	149.3	151.3	150.3	150.2
52°	132.2	133.2	132.6	135.0	141.4	142.6	145.7	146.8	148.6	147.8	147.8
52.5°	129.3	130.3	129.9	132.1	138.6	140.0	143.1	144.1	146.1	145.2	145.2
53°	126.5	127.6	126.9	129.4	136.0	137.2	140.3	141.4	143.5	142.5	142.5
53.5°	123.5	124.5	124.0	126.5	133.2	134.3	137.8	138.6	140.7	139.9	139.9
54°	120.7	121.7	121.1	123.6	130.2	131.5	134.9	135.9	138.0	137.1	137.2
54.5°	117.7	118.7	118.2	120.7	127.4	128.7	132.0	133.2	135.3	134.4	134.4
55°	114.8	115.8	115.3	117.8	124.5	125.8	129.3	130.4	132.5	131.8	131.7
55.5°	111.9	112.7	112.4	114.7	121.6	123.1	126.3	127.5	129.7	128.8	128.7
56°	109.0	109.8	109.5	111.8	118.5	120.1	123.5	124.7	126.8	126.0	125.9
56.5°	106.1	106.9	106.6	108.9	115.7	117.2	120.7	121.9	124.0	123.3	123.1
57°	103.2	103.9	103.6	106.0	112.7	114.1	117.9	118.9	121.3	120.3	120.2
57.5°	100.2	101.0	100.5	103.0	109.7	111.2	114.8	116.0	118.2	117.5	117.5
58°	97.3	98.0	97.7	100.0	106.7	108.3	111.9	113.2	115.4	114.5	114.5
58.5°	94.4	95.2	94.7	97.2	103.8	105.3	109.0	110.2	112.5	111.7	111.6
59°	91.6	92.2	91.8	94.1	100.8	102.4	106.1	107.4	109.5	108.8	108.7
59.5°	88.6	89.2	88.9	91.2	97.8	99.5	103.2	104.4	106.7	105.8	105.8
60°	85.7	86.4	86.0	88.3	95.0	96.5	100.2	101.6	103.8	103.0	102.9
60.5°	83.0	83.6	83.2	85.6	92.1	93.6	97.4	98.6	100.9	100.0	100.0
61°	80.1	80.8	80.2	82.6	89.2	90.6	94.5	95.7	98.0	97.2	97.2
61.5°	77.3	77.9	77.5	79.8	86.2	87.6	91.6	92.9	95.2	94.2	94.3
62°	74.5	75.2	74.7	77.0	83.5	84.9	88.7	89.8	92.3	91.4	91.4
62.5°	71.7	72.4	72.0	74.2	80.5	82.0	85.8	87.1	89.4	88.5	88.5
63°	69.1	69.7	69.3	71.5	77.6	79.3	83.0	84.2	86.5	85.7	85.6
63.5°	66.5	67.0	66.6	68.8	74.9	76.4	80.1	81.6	83.6	83.0	82.9
64°	63.7	64.4	63.9	66.0	72.2	73.5	77.5	78.6	80.9	80.1	80.0
64.5°	61.2	61.7	61.3	63.4	69.4	70.9	74.5	75.8	78.0	77.3	77.3
65°	58.5	59.1	58.6	60.7	66.6	68.1	71.8	73.1	75.3	74.4	74.4
65.5°	55.9	56.5	56.0	58.1	64.0	65.4	69.1	70.3	72.5	71.6	71.8
66°	53.4	54.0	53.4	55.5	61.3	62.8	66.2	67.5	69.7	69.1	69.0
66.5°	51.0	51.4	51.1	52.9	58.6	60.1	63.6	64.9	67.1	66.4	66.2
67°	48.4	49.0	48.4	50.5	56.0	57.4	60.9	62.2	64.3	63.6	63.5



TEST NUMBER: P522104

CATALOG NUMBER: RLLV6069BLE40AWHDM-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	46.0	46.5	46.0	48.0	53.4	54.9	58.3	59.5	61.6	61.0	61.0
68°	43.6	44.1	43.6	45.5	51.0	52.4	55.8	56.9	59.1	58.3	58.4
68.5°	41.3	41.7	41.3	43.2	48.5	49.7	53.2	54.3	56.5	55.7	55.7
69°	39.0	39.4	39.0	40.8	45.9	47.2	50.7	51.6	54.0	53.2	53.2
69.5°	36.6	37.3	36.7	38.6	43.5	44.8	48.1	49.2	51.3	50.6	50.7
70°	34.5	34.9	34.5	36.1	41.2	42.4	45.6	46.7	48.9	48.1	48.1
70.5°	32.3	32.7	32.3	34.0	38.9	40.0	43.2	44.3	46.3	45.6	45.6
71°	30.2	30.6	30.1	31.9	36.5	37.7	40.8	41.8	43.9	43.2	43.3
71.5°	28.1	28.7	28.1	29.7	34.3	35.4	38.6	39.4	41.4	40.8	41.0
72°	26.1	26.8	26.1	27.8	32.1	33.2	36.1	37.1	39.1	38.4	38.6
72.5°	24.3	24.8	24.2	25.6	30.0	31.0	33.9	34.8	36.8	36.1	36.2
73°	22.5	22.8	22.5	23.8	28.0	29.0	31.7	32.7	34.4	33.8	33.9
73.5°	20.8	21.0	20.8	22.0	25.8	27.0	29.6	30.5	32.2	31.7	31.7
74°	19.1	19.2	19.0	20.3	24.0	25.0	27.4	28.4	30.0	29.5	29.5
74.5°	17.4	17.6	17.3	18.6	22.2	23.0	25.4	26.2	27.9	27.5	27.5
75°	15.8	16.1	15.8	16.9	20.4	21.1	23.6	24.3	25.8	25.5	25.5
75.5°	14.3	14.6	14.2	15.4	18.7	19.3	21.7	22.4	23.9	23.4	23.7
76°	13.0	13.3	12.9	13.9	17.1	17.6	19.8	20.5	22.1	21.5	21.8
76.5°	11.7	11.9	11.7	12.6	15.4	16.0	18.1	18.8	20.2	19.6	19.8
77°	10.7	10.6	10.6	11.4	13.9	14.7	16.5	17.1	18.5	18.0	18.2
77.5°	9.3	9.5	9.2	10.3	12.6	13.2	15.1	15.5	16.8	16.4	16.5
78°	8.5	8.7	8.4	9.0	11.4	11.9	13.6	14.0	15.3	15.0	15.1
78.5°	7.3	7.5	7.3	8.1	10.3	10.8	12.1	12.5	13.8	13.4	13.6
79°	6.7	6.8	6.5	7.1	9.0	9.4	10.9	11.1	12.2	12.0	12.1
79.5°	5.8	5.9	5.7	6.3	8.2	8.6	9.8	10.1	11.1	10.8	10.8
80°	5.4	5.4	5.1	5.5	7.1	7.3	8.8	9.1	9.8	9.5	9.7
80.5°	4.8	4.7	4.6	4.9	6.3	6.7	7.5	7.9	8.8	8.5	8.7
81°	4.2	4.1	4.0	4.5	5.5	5.8	6.7	7.1	7.6	7.4	7.4
81.5°	3.8	3.8	3.8	3.8	4.9	5.3	5.8	6.1	6.8	6.7	6.6
82°	3.4	3.5	3.2	3.7	4.5	4.7	5.4	5.5	5.9	5.7	5.7
82.5°	3.0	3.0	3.0	3.0	3.9	4.1	4.6	4.9	5.4	5.1	5.3
83°	2.8	2.8	2.6	2.8	3.8	3.8	4.0	4.3	4.7	4.6	4.6
83.5°	2.3	2.3	2.3	2.3	3.1	3.3	3.8	3.9	4.0	4.1	3.9
84°	2.2	2.1	2.2	2.2	2.9	3.0	3.1	3.7	3.8	3.8	3.8
84.5°	1.7	1.6	1.6	2.0	2.4	2.7	3.0	3.0	3.4	3.3	3.1
85°	1.3	1.3	1.4	1.6	2.2	2.3	2.6	2.8	3.0	3.0	3.0
85.5°	1.4	1.4	1.5	1.2	2.1	2.2	2.2	2.4	2.7	2.7	2.7
86°	0.7	0.7	0.7	0.9	1.6	1.5	2.1	2.2	2.2	2.3	2.2
86.5°	0.6	0.5	0.6	0.6	1.2	1.3	1.5	2.0	2.1	2.2	2.1
87°	0.5	0.4	0.4	0.5	1.0	1.5	1.3	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.6	0.8	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	0.8	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: P522104

CATALOG NUMBER: RLLV6069BLE40AWHDM-3000K-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: P522104

CATALOG NUMBER: RLLV6069BLE40AWHDM-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	280.3	280.3	280.3	280.3	280.3	280.3
0.5°	280.6	280.2	280.1	280.2	280.1	280.1
1°	280.6	280.1	280.0	280.1	280.0	280.0
1.5°	280.5	280.0	279.9	280.0	279.9	279.9
2°	280.5	279.9	279.8	279.9	279.7	279.7
2.5°	280.4	279.7	279.6	279.6	279.6	279.6
3°	280.2	279.6	279.4	279.5	279.4	279.4
3.5°	280.1	279.3	279.2	279.2	279.2	279.1
4°	279.8	279.1	279.1	279.0	279.0	278.8
4.5°	279.6	278.9	278.8	278.7	278.6	278.6
5°	279.4	278.6	278.5	278.4	278.3	278.2
5.5°	279.2	278.3	278.1	278.0	278.0	277.9
6°	278.9	277.9	277.8	277.7	277.6	277.5
6.5°	278.6	277.6	277.5	277.3	277.2	277.1
7°	278.2	277.1	277.0	276.9	276.9	276.7
7.5°	277.9	276.7	276.7	276.4	276.4	276.2
8°	277.5	276.3	276.2	276.0	276.0	275.7
8.5°	277.0	275.9	275.8	275.5	275.4	275.3
9°	276.7	275.3	275.2	275.0	275.0	274.8
9.5°	276.2	274.9	274.8	274.5	274.4	274.3
10°	275.7	274.3	274.3	273.9	273.9	273.6
10.5°	275.2	273.7	273.7	273.2	273.3	273.0
11°	274.7	273.1	273.1	272.7	272.7	272.4
11.5°	274.1	272.6	272.5	272.0	272.0	271.7
12°	273.5	271.9	271.9	271.3	271.3	271.0
12.5°	272.9	271.2	271.2	270.8	270.6	270.3
13°	272.3	270.6	270.6	270.0	269.9	269.5
13.5°	271.6	269.9	269.9	269.2	269.1	268.8
14°	271.0	269.3	269.1	268.5	268.4	267.9
14.5°	270.2	268.4	268.4	267.7	267.5	267.1
15°	269.5	267.6	267.6	266.9	266.7	266.2
15.5°	268.8	266.9	266.8	266.0	265.7	265.2
16°	267.9	266.0	265.9	265.0	264.8	264.3
16.5°	267.1	265.0	265.0	264.2	263.9	263.3
17°	266.3	264.2	264.1	263.1	262.9	262.3
17.5°	265.5	263.1	263.1	262.2	261.9	261.3
18°	264.6	262.2	262.2	261.1	260.9	260.2
18.5°	263.7	261.2	261.1	260.1	259.7	259.1
19°	262.8	260.2	260.1	258.9	258.6	258.0
19.5°	261.8	259.1	258.9	257.9	257.4	256.9
20°	260.9	258.0	257.9	256.8	256.4	255.6
20.5°	259.8	256.9	256.8	255.5	255.0	254.4
21°	258.8	255.8	255.6	254.4	254.0	253.1
21.5°	257.6	254.5	254.4	253.0	252.6	251.8
22°	256.5	253.3	253.1	251.8	251.3	250.5



TEST NUMBER: P522104

CATALOG NUMBER: RLLV6069BLE40AWHDM-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	255.3	252.1	251.9	250.5	249.9	249.1
23°	254.2	250.8	250.6	249.1	248.7	247.8
23.5°	252.9	249.5	249.2	247.8	247.2	246.5
24°	251.6	248.2	248.0	246.6	245.9	245.0
24.5°	250.3	246.8	246.6	245.0	244.6	243.5
25°	248.9	245.4	245.2	243.6	243.0	242.1
25.5°	247.6	244.0	243.8	242.2	241.6	240.7
26°	246.3	242.5	242.3	240.7	240.2	239.0
26.5°	244.9	241.0	240.8	239.2	238.6	237.5
27°	243.4	239.6	239.3	237.6	237.0	235.9
27.5°	242.0	238.1	237.8	236.1	235.4	234.4
28°	240.6	236.5	236.3	234.5	233.9	232.7
28.5°	239.0	234.9	234.7	232.9	232.3	231.0
29°	237.4	233.3	233.0	231.3	230.7	229.4
29.5°	235.9	231.7	231.3	229.6	229.0	227.7
30°	234.4	230.1	229.7	227.9	227.2	226.1
30.5°	232.9	228.4	228.0	226.3	225.5	224.4
31°	231.2	226.7	226.2	224.6	223.8	222.6
31.5°	229.6	225.0	224.6	222.8	222.1	220.8
32°	227.8	223.2	222.7	221.0	220.4	219.0
32.5°	226.1	221.5	220.9	219.2	218.6	217.2
33°	224.5	219.8	219.2	217.3	216.7	215.4
33.5°	222.7	218.0	217.4	215.5	214.9	213.5
34°	221.0	216.2	215.5	213.7	213.0	211.7
34.5°	219.2	214.4	213.6	211.8	211.2	209.8
35°	217.4	212.5	211.7	209.9	209.4	208.0
35.5°	215.6	210.5	209.9	208.0	207.5	206.1
36°	213.7	208.5	208.0	206.1	205.6	204.2
36.5°	211.9	206.6	206.1	204.2	203.7	202.2
37°	210.0	204.7	204.1	202.3	201.8	200.3
37.5°	208.2	202.8	202.2	200.4	199.8	198.4
38°	206.3	201.0	200.2	198.5	197.9	196.4
38.5°	204.5	199.0	198.2	196.4	195.9	194.4
39°	202.5	197.0	196.3	194.4	194.0	192.4
39.5°	200.5	194.9	194.3	192.4	192.0	190.4
40°	198.5	192.9	192.2	190.3	189.9	188.4
40.5°	196.5	190.8	190.2	188.2	187.8	186.3
41°	194.5	188.8	188.0	186.2	185.8	184.3
41.5°	192.5	186.7	186.0	184.2	183.7	182.2
42°	190.4	184.6	184.0	182.0	181.6	180.1
42.5°	188.4	182.5	181.9	179.8	179.5	177.9
43°	186.3	180.3	179.7	177.7	177.4	175.8
43.5°	184.2	178.2	177.6	175.5	175.3	173.6
44°	182.1	176.0	175.5	173.3	173.0	171.4
44.5°	180.0	173.8	173.2	171.2	170.8	169.2



TEST NUMBER: P522104

CATALOG NUMBER: RLLV6069BLE40AWHDM-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	177.8	171.6	171.0	169.0	168.6	167.0
45.5°	175.6	169.3	168.8	166.8	166.5	164.8
46°	173.3	167.0	166.6	164.5	164.2	162.5
46.5°	171.1	164.6	164.3	162.3	162.1	160.3
47°	168.8	162.4	162.2	160.1	159.8	158.1
47.5°	166.6	160.0	159.9	157.8	157.5	155.8
48°	164.2	157.7	157.4	155.5	155.1	153.5
48.5°	162.0	155.2	155.1	153.1	152.7	150.9
49°	159.7	152.7	152.7	150.6	150.3	148.5
49.5°	157.4	150.2	150.2	148.1	147.9	145.9
50°	154.9	147.7	147.8	145.7	145.2	143.1
50.5°	152.4	145.1	145.2	142.9	142.5	140.4
51°	150.0	142.4	142.5	140.2	139.9	137.7
51.5°	147.5	139.8	139.8	137.5	137.1	135.0
52°	144.9	137.1	137.0	134.8	134.3	132.2
52.5°	142.2	134.2	134.3	132.1	131.6	129.3
53°	139.5	131.6	131.6	129.1	128.6	126.5
53.5°	136.8	128.7	128.7	126.3	125.9	123.5
54°	134.0	125.9	125.9	123.5	122.9	120.7
54.5°	131.2	123.0	123.0	120.5	119.9	117.7
55°	128.3	120.2	120.0	117.7	117.0	114.8
55.5°	125.6	117.4	117.3	114.9	114.1	111.9
56°	122.8	114.5	114.3	111.8	111.2	109.0
56.5°	119.9	111.7	111.5	108.9	108.2	106.1
57°	117.0	108.7	108.6	106.0	105.4	103.2
57.5°	114.0	105.8	105.8	103.1	102.4	100.2
58°	111.2	103.0	102.8	100.1	99.5	97.3
58.5°	108.3	100.1	99.8	97.4	96.6	94.4
59°	105.5	97.4	97.1	94.3	93.6	91.6
59.5°	102.6	94.4	94.2	91.6	90.7	88.6
60°	99.7	91.7	91.3	88.6	87.9	85.7
60.5°	96.8	88.8	88.5	85.8	85.1	83.0
61°	93.8	86.0	85.6	82.9	82.3	80.1
61.5°	91.0	83.3	82.8	80.0	79.5	77.3
62°	88.2	80.4	80.0	77.3	76.6	74.5
62.5°	85.5	77.7	77.3	74.5	73.7	71.7
63°	82.6	75.0	74.5	71.8	71.1	69.1
63.5°	79.9	72.4	71.8	69.2	68.4	66.5
64°	77.0	69.6	69.2	66.6	65.8	63.7
64.5°	74.2	67.0	66.5	63.8	63.1	61.2
65°	71.6	64.5	63.9	61.2	60.4	58.5
65.5°	68.9	61.7	61.2	58.5	57.8	55.9
66°	66.3	59.3	58.6	56.0	55.3	53.4
66.5°	63.6	56.7	56.0	53.4	52.6	51.0
67°	61.0	54.2	53.5	51.1	50.2	48.4



TEST NUMBER: P522104

CATALOG NUMBER: RLLV6069BLE40AWHDM-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	58.3	51.6	51.1	48.5	47.7	46.0
68°	55.8	49.3	48.8	46.0	45.3	43.6
68.5°	53.2	46.8	46.2	43.6	43.0	41.3
69°	50.7	44.4	43.8	41.3	40.7	39.0
69.5°	48.2	42.0	41.4	39.1	38.3	36.6
70°	45.8	39.7	39.1	36.6	36.0	34.5
70.5°	43.4	37.6	36.9	34.5	33.9	32.3
71°	41.1	35.3	34.7	32.3	31.7	30.2
71.5°	38.8	33.1	32.5	30.2	29.6	28.1
72°	36.3	31.0	30.4	28.1	27.6	26.1
72.5°	34.2	29.0	28.3	26.0	25.6	24.3
73°	32.0	27.2	26.4	24.3	23.8	22.5
73.5°	29.9	25.2	24.3	22.5	22.0	20.8
74°	27.8	23.2	22.4	20.7	20.2	19.1
74.5°	25.9	21.2	20.7	19.0	18.6	17.4
75°	23.9	19.4	18.9	17.3	17.0	15.8
75.5°	22.0	17.8	17.3	15.7	15.4	14.3
76°	20.2	16.2	15.7	14.3	13.9	13.0
76.5°	18.5	14.9	14.4	12.8	12.5	11.7
77°	16.8	13.4	12.9	11.5	11.3	10.7
77.5°	15.2	12.0	11.5	10.4	10.3	9.3
78°	13.8	10.8	10.4	9.1	9.0	8.5
78.5°	12.4	9.4	9.1	8.2	8.1	7.3
79°	11.0	8.5	8.2	7.3	7.1	6.7
79.5°	9.9	7.4	7.1	6.4	6.4	5.8
80°	9.0	6.7	6.3	5.6	5.5	5.4
80.5°	7.6	5.7	5.5	5.0	5.0	4.8
81°	6.9	5.1	4.9	4.5	4.5	4.2
81.5°	5.9	4.6	4.4	4.0	3.9	3.8
82°	5.5	4.0	3.9	3.7	3.7	3.4
82.5°	4.8	3.8	3.7	3.2	3.1	3.0
83°	4.1	3.2	3.0	2.9	2.9	2.8
83.5°	3.8	3.0	2.9	2.5	2.4	2.3
84°	3.5	2.7	2.3	2.2	2.2	2.2
84.5°	3.0	2.3	2.2	2.2	2.1	1.7
85°	2.8	2.2	2.1	1.6	1.6	1.3
85.5°	2.3	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°	0.8	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: P522104

CATALOG NUMBER: RLLV6069BLE40AWHDM-3000K-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)