

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: P522101

Luminaire Tested: **RLLV6069SE010WHDM-4000K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522101
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: RLLV6069SE010WHDM-4000K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (72) 4000K CCT, 94 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

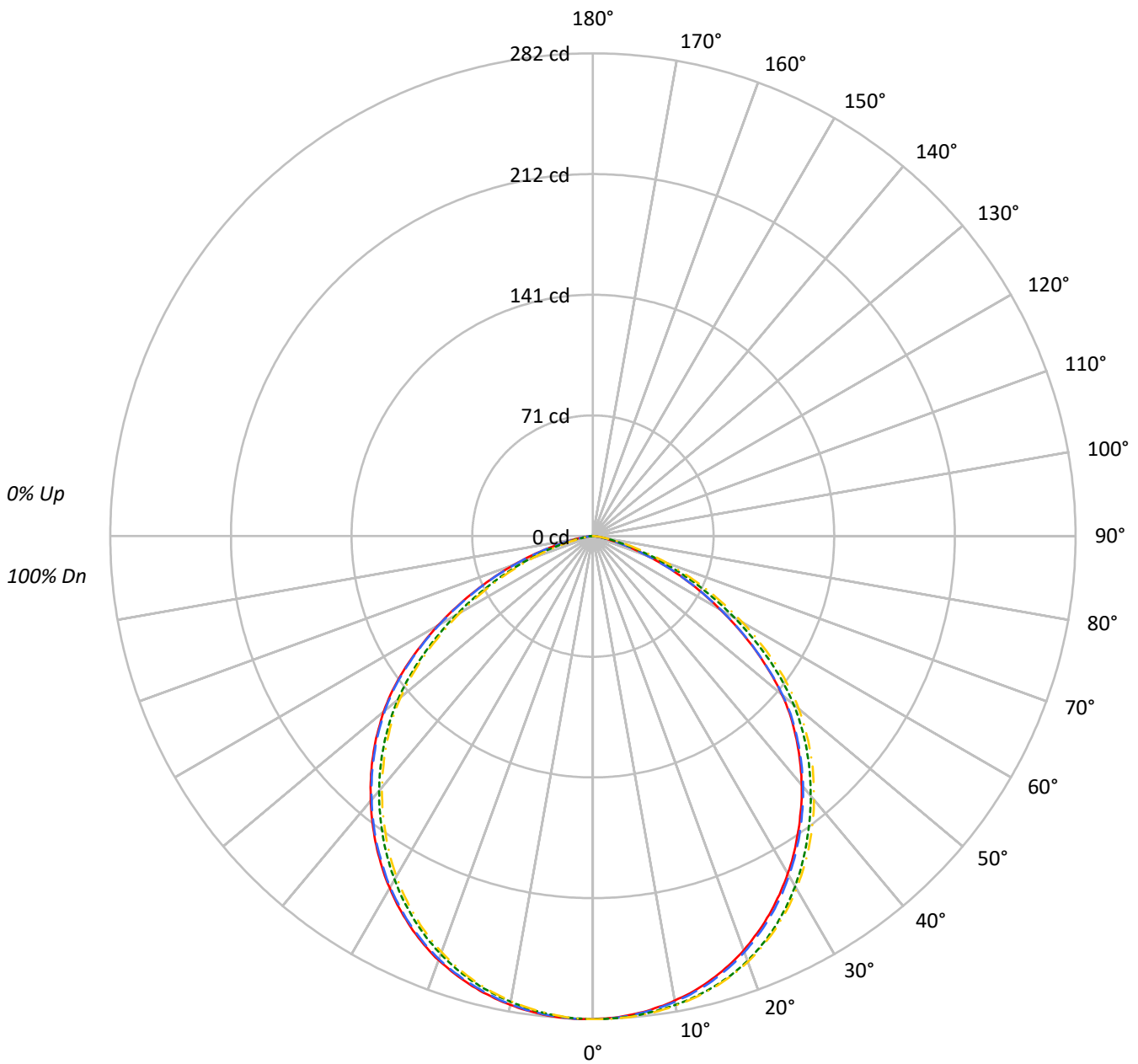
Lumens per Lamp: 706.09 (72 lamps)
Luminaire Lumens: 690.0 lumens
Efficiency: 1.4%
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P522101
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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	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	0	1	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	0
9	1	1	1	0	1	1	1	0	1	1	0	1	0	0	1	0	0	1	0	0	0
10	1	1	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15476	15476	15476	15476
5°	15419	15480	15491	15441
10°	15342	15481	15481	15380
15°	15216	15471	15448	15301
20°	15022	15407	15378	15162
25°	14753	15225	15237	14952
30°	14414	14958	15021	14673
35°	14020	14576	14770	14322
40°	13575	14169	14463	13905
45°	13040	13699	14087	13397
50°	12290	13057	13611	12682
55°	11049	11985	12759	11574
60°	9473	10493	11468	10120
65°	7640	8704	9832	8432
70°	5562	6652	7886	6411
75°	3368	4342	5507	4151
80°	1736	2273	3125	2115
85°	818	1384	1950	1384



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	26.7	3.9	0.1
10°-20°	76.3	11.1	0.2
20°-30°	114.5	16.6	0.2
30°-40°	134.8	19.5	0.3
40°-50°	134.8	19.5	0.3
50°-60°	110.7	16.0	0.2
60°-70°	66.5	9.6	0.1
70°-80°	23.0	3.3	0.0
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°	217.5	31.5	0.4
0°-40°	352.3	51.1	0.7
0°-60°	597.8	86.6	1.2
0°-90°	690.0	100.0	1.4
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°	690.0	100.0	1.4

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	282	282	282	282	282	
5°	280	281	282	281	280	27
15°	268	273	272	270	268	76
25°	244	252	252	247	244	112
35°	210	218	221	214	210	131
45°	168	177	182	173	168	130
55°	116	125	134	121	116	103
65°	59	67	76	65	59	59
75°	16	20	26	20	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°	282.3	282.3	282.3	282.3	282.3	282.3	282.3	282.3	282.3	282.3	282.3
0.5°	282.1	282.1	282.3	282.5	282.2	282.2	282.3	282.3	282.3	282.3	282.3
1°	282.0	282.0	282.2	282.5	282.2	282.3	282.3	282.3	282.3	282.3	282.3
1.5°	282.0	281.9	282.0	282.4	282.1	282.3	282.3	282.3	282.3	282.3	282.3
2°	281.8	281.8	282.0	282.3	282.1	282.2	282.3	282.3	282.3	282.3	282.2
2.5°	281.7	281.6	281.8	282.2	282.0	282.1	282.2	282.3	282.2	282.2	282.0
3°	281.5	281.5	281.7	282.0	282.0	282.0	282.1	282.1	282.1	282.0	282.0
3.5°	281.2	281.3	281.4	281.9	281.8	282.0	282.0	282.0	282.0	282.0	281.8
4°	280.8	280.9	281.2	281.7	281.7	281.9	281.9	282.0	281.9	281.8	281.6
4.5°	280.6	280.6	280.9	281.5	281.5	281.7	281.8	281.8	281.7	281.6	281.5
5°	280.2	280.3	280.6	281.3	281.3	281.5	281.6	281.7	281.5	281.4	281.3
5.5°	279.9	280.0	280.2	280.9	281.1	281.3	281.4	281.4	281.3	281.1	281.0
6°	279.6	279.6	279.9	280.6	280.8	281.0	281.3	281.1	281.0	280.8	280.7
6.5°	279.2	279.3	279.6	280.2	280.6	280.8	280.9	280.8	280.7	280.4	280.4
7°	278.7	278.9	279.2	279.9	280.2	280.4	280.7	280.5	280.4	280.1	280.1
7.5°	278.2	278.5	278.7	279.6	279.9	280.1	280.3	280.2	280.1	279.8	279.7
8°	277.7	278.0	278.3	279.2	279.6	279.8	280.0	279.8	279.7	279.5	279.5
8.5°	277.3	277.5	277.8	278.7	279.3	279.5	279.6	279.6	279.4	279.1	279.0
9°	276.8	277.0	277.3	278.2	278.9	279.1	279.3	279.1	279.0	278.6	278.5
9.5°	276.3	276.5	276.8	277.8	278.5	278.7	278.9	278.6	278.5	278.2	278.1
10°	275.6	275.9	276.3	277.2	278.1	278.3	278.5	278.2	278.1	277.6	277.6
10.5°	274.9	275.3	275.7	276.8	277.6	277.9	278.0	277.6	277.6	277.2	277.2
11°	274.4	274.7	275.0	276.2	277.2	277.4	277.5	277.2	277.2	276.7	276.7
11.5°	273.7	274.0	274.5	275.6	276.7	277.0	277.2	276.7	276.6	276.2	276.2
12°	273.0	273.3	273.8	275.0	276.2	276.5	276.6	276.2	276.1	275.5	275.5
12.5°	272.3	272.6	273.0	274.4	275.6	275.9	276.1	275.6	275.4	274.9	274.9
13°	271.5	272.0	272.4	273.8	275.0	275.3	275.5	274.9	274.8	274.3	274.4
13.5°	270.7	271.2	271.6	273.0	274.5	274.8	274.9	274.3	274.3	273.6	273.7
14°	269.9	270.4	270.8	272.4	273.9	274.2	274.4	273.7	273.6	272.9	272.9
14.5°	269.1	269.6	270.0	271.6	273.2	273.5	273.7	272.9	272.8	272.3	272.3
15°	268.1	268.7	269.2	270.9	272.6	272.8	273.0	272.3	272.2	271.5	271.5
15.5°	267.2	267.7	268.2	270.0	271.9	272.2	272.4	271.5	271.4	270.7	270.8
16°	266.2	266.8	267.4	269.1	271.1	271.4	271.6	270.7	270.6	270.0	270.1
16.5°	265.3	265.8	266.3	268.1	270.4	270.7	270.9	270.0	269.9	269.2	269.3
17°	264.2	264.9	265.3	267.2	269.7	269.9	270.1	269.2	269.1	268.2	268.3
17.5°	263.2	263.8	264.4	266.2	268.8	269.1	269.4	268.3	268.2	267.5	267.6
18°	262.1	262.8	263.2	265.2	267.9	268.1	268.4	267.5	267.4	266.5	266.7
18.5°	261.0	261.6	262.2	264.1	267.0	267.3	267.7	266.5	266.4	265.6	265.8
19°	259.9	260.5	261.0	262.9	266.1	266.3	266.7	265.7	265.5	264.7	264.9
19.5°	258.7	259.3	260.0	261.9	265.1	265.3	265.7	264.7	264.6	263.8	263.9
20°	257.5	258.2	258.7	260.6	264.1	264.4	264.8	263.8	263.6	262.9	262.9
20.5°	256.2	256.8	257.5	259.5	263.0	263.3	263.7	262.8	262.7	261.9	261.9
21°	255.0	255.8	256.2	258.3	261.9	262.3	262.7	261.7	261.6	260.7	260.8
21.5°	253.6	254.3	255.0	257.1	260.7	261.1	261.5	260.6	260.5	259.7	259.8
22°	252.3	253.0	253.6	255.8	259.5	260.0	260.4	259.5	259.3	258.5	258.6



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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°	251.0	251.6	252.3	254.4	258.3	258.8	259.1	258.2	258.2	257.4	257.5
23°	249.6	250.3	251.0	253.2	257.1	257.7	258.0	257.1	256.9	256.1	256.2
23.5°	248.3	248.8	249.6	251.7	255.8	256.3	256.7	255.9	255.8	255.0	255.0
24°	246.8	247.5	248.2	250.4	254.4	255.0	255.6	254.6	254.5	253.7	253.8
24.5°	245.3	246.2	246.7	248.9	253.1	253.6	254.2	253.4	253.3	252.4	252.5
25°	243.9	244.6	245.2	247.5	251.7	252.3	252.9	252.0	251.9	251.0	251.2
25.5°	242.4	243.1	243.8	246.1	250.3	250.9	251.5	250.7	250.6	249.7	249.9
26°	240.8	241.6	242.3	244.5	248.8	249.4	250.1	249.3	249.2	248.4	248.6
26.5°	239.2	240.0	240.7	242.9	247.4	248.0	248.7	247.9	247.9	246.9	247.1
27°	237.6	238.5	239.1	241.4	245.9	246.6	247.2	246.5	246.4	245.5	245.7
27.5°	236.1	236.8	237.5	239.7	244.4	245.1	245.8	245.1	245.0	244.0	244.3
28°	234.4	235.3	235.9	238.1	242.8	243.4	244.3	243.5	243.6	242.7	242.8
28.5°	232.7	233.6	234.2	236.5	241.3	241.8	242.7	242.0	242.1	241.1	241.4
29°	231.1	232.0	232.6	234.8	239.5	240.2	241.2	240.4	240.5	239.5	239.8
29.5°	229.4	230.2	230.9	233.1	237.9	238.6	239.5	238.9	239.0	238.0	238.3
30°	227.7	228.6	229.2	231.4	236.3	236.8	238.0	237.2	237.3	236.6	236.8
30.5°	226.0	226.8	227.4	229.6	234.4	235.2	236.3	235.7	235.9	234.9	235.2
31°	224.2	225.0	225.7	227.9	232.7	233.5	234.5	234.1	234.4	233.3	233.6
31.5°	222.5	223.3	223.9	226.1	231.0	231.7	232.9	232.3	232.7	231.7	232.0
32°	220.6	221.6	222.1	224.4	229.2	229.8	231.2	230.6	231.0	229.9	230.2
32.5°	218.8	219.8	220.2	222.5	227.3	228.0	229.5	229.0	229.3	228.3	228.6
33°	217.0	217.9	218.4	220.7	225.5	226.2	227.7	227.2	227.6	226.6	226.9
33.5°	215.1	216.1	216.5	218.8	223.6	224.4	226.0	225.5	225.9	224.9	225.1
34°	213.2	214.3	214.8	216.9	221.7	222.5	224.2	223.7	224.2	223.1	223.4
34.5°	211.3	212.4	212.9	215.0	219.8	220.5	222.4	222.0	222.5	221.4	221.7
35°	209.5	210.6	210.9	213.0	217.8	218.6	220.5	220.1	220.7	219.7	220.0
35.5°	207.6	208.7	209.0	211.1	215.9	216.6	218.6	218.3	218.9	217.8	218.1
36°	205.7	206.7	207.1	209.1	214.0	214.7	216.7	216.5	217.1	216.0	216.3
36.5°	203.6	204.8	205.1	207.2	212.1	212.8	214.8	214.6	215.2	214.2	214.5
37°	201.7	202.8	203.1	205.2	210.1	210.7	212.9	212.9	213.3	212.3	212.6
37.5°	199.8	200.9	201.2	203.2	208.1	208.8	210.8	210.9	211.4	210.5	210.7
38°	197.8	198.9	199.2	201.1	206.1	206.9	208.9	209.0	209.6	208.6	208.8
38.5°	195.9	196.9	197.2	199.1	204.1	204.9	207.0	207.1	207.7	206.7	207.0
39°	193.9	194.9	195.2	197.1	202.1	202.9	205.0	205.2	205.8	204.8	205.1
39.5°	191.7	192.9	193.1	195.1	200.2	200.9	203.0	203.2	203.9	202.9	203.1
40°	189.7	190.9	191.0	193.0	198.0	198.8	201.0	201.2	202.1	201.0	201.1
40.5°	187.6	188.8	189.1	190.9	195.9	196.7	198.8	199.2	200.0	199.0	199.2
41°	185.6	186.8	186.8	188.8	193.9	194.6	196.8	197.3	198.0	197.0	197.2
41.5°	183.5	184.5	184.7	186.7	191.7	192.6	194.8	195.2	196.1	195.1	195.2
42°	181.4	182.4	182.5	184.4	189.6	190.5	192.8	193.3	194.0	193.1	193.2
42.5°	179.2	180.3	180.4	182.3	187.6	188.4	190.7	191.2	192.0	191.0	191.3
43°	177.1	178.2	178.2	180.1	185.4	186.2	188.7	189.1	190.1	189.1	189.2
43.5°	174.9	176.0	175.9	177.9	183.3	184.1	186.6	187.0	188.0	186.9	187.0
44°	172.6	173.8	173.8	175.7	181.1	181.9	184.4	184.8	185.9	184.8	185.0
44.5°	170.4	171.6	171.5	173.4	178.8	179.7	182.1	182.7	183.8	182.7	182.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	168.2	169.4	169.3	171.2	176.7	177.4	179.9	180.6	181.7	180.7	180.8
45.5°	166.0	167.2	167.0	168.8	174.5	175.3	177.7	178.4	179.6	178.6	178.6
46°	163.7	165.0	164.7	166.6	172.2	173.0	175.5	176.2	177.4	176.5	176.6
46.5°	161.5	162.8	162.4	164.2	170.0	170.8	173.3	174.1	175.3	174.3	174.4
47°	159.2	160.4	160.2	161.9	167.7	168.5	171.0	171.8	173.2	172.2	172.1
47.5°	156.9	158.1	157.8	159.7	165.3	166.3	168.7	169.5	170.8	169.9	169.9
48°	154.6	155.6	155.4	157.1	163.0	164.0	166.4	167.2	168.6	167.7	167.7
48.5°	152.0	153.1	152.9	154.7	160.5	161.7	164.0	165.0	166.3	165.4	165.4
49°	149.6	150.6	150.3	152.2	158.1	159.3	161.8	162.6	164.1	163.2	163.1
49.5°	146.9	147.9	147.6	149.8	155.6	156.8	159.5	160.4	161.8	160.9	160.9
50°	144.1	145.2	144.9	147.1	153.1	154.3	157.0	158.0	159.6	158.6	158.5
50.5°	141.5	142.6	142.0	144.4	150.6	151.7	154.6	155.5	157.2	156.2	156.3
51°	138.7	139.7	139.3	141.6	147.9	149.0	152.1	153.0	154.8	153.8	153.8
51.5°	136.0	137.0	136.6	138.9	145.2	146.5	149.5	150.4	152.4	151.4	151.3
52°	133.2	134.2	133.6	136.0	142.4	143.7	146.7	147.9	149.7	148.8	148.8
52.5°	130.2	131.3	130.8	133.1	139.6	141.0	144.1	145.2	147.1	146.3	146.3
53°	127.4	128.5	127.8	130.3	136.9	138.2	141.4	142.4	144.5	143.6	143.6
53.5°	124.4	125.4	124.9	127.4	134.2	135.3	138.8	139.6	141.7	140.9	140.9
54°	121.6	122.5	122.0	124.5	131.2	132.4	135.9	136.8	139.1	138.1	138.2
54.5°	118.5	119.6	119.1	121.6	128.3	129.7	133.0	134.2	136.3	135.4	135.4
55°	115.6	116.6	116.1	118.6	125.4	126.7	130.2	131.4	133.5	132.7	132.6
55.5°	112.8	113.5	113.2	115.5	122.5	124.0	127.3	128.4	130.6	129.7	129.7
56°	109.8	110.6	110.3	112.6	119.4	121.0	124.4	125.6	127.7	127.0	126.9
56.5°	106.9	107.7	107.4	109.7	116.5	118.0	121.6	122.8	124.9	124.2	124.0
57°	103.9	104.7	104.3	106.8	113.5	115.0	118.7	119.8	122.2	121.2	121.1
57.5°	101.0	101.7	101.2	103.7	110.5	112.0	115.6	116.9	119.1	118.3	118.3
58°	98.0	98.8	98.4	100.8	107.5	109.1	112.8	114.0	116.2	115.4	115.4
58.5°	95.1	95.9	95.4	97.9	104.5	106.0	109.8	111.0	113.3	112.5	112.4
59°	92.2	92.9	92.5	94.8	101.5	103.2	106.9	108.2	110.3	109.6	109.5
59.5°	89.2	89.8	89.5	91.8	98.6	100.2	103.9	105.2	107.5	106.6	106.6
60°	86.4	87.0	86.7	89.0	95.7	97.2	101.0	102.3	104.6	103.7	103.6
60.5°	83.6	84.3	83.8	86.2	92.8	94.2	98.1	99.3	101.6	100.8	100.8
61°	80.7	81.4	80.8	83.2	89.8	91.3	95.2	96.4	98.8	97.9	97.9
61.5°	77.8	78.5	78.0	80.4	86.9	88.3	92.2	93.6	95.9	94.9	95.0
62°	75.0	75.7	75.2	77.5	84.1	85.5	89.3	90.5	93.0	92.0	92.0
62.5°	72.3	72.9	72.6	74.8	81.1	82.6	86.5	87.7	90.0	89.2	89.2
63°	69.6	70.2	69.8	72.0	78.2	79.8	83.6	84.8	87.1	86.4	86.3
63.5°	67.0	67.5	67.1	69.3	75.4	77.0	80.7	82.1	84.3	83.6	83.5
64°	64.2	64.9	64.4	66.5	72.7	74.1	78.0	79.2	81.5	80.7	80.6
64.5°	61.6	62.2	61.7	63.8	69.9	71.4	75.0	76.4	78.6	77.8	77.8
65°	58.9	59.5	59.0	61.1	67.1	68.6	72.4	73.6	75.8	75.0	75.0
65.5°	56.3	56.9	56.4	58.5	64.5	65.8	69.6	70.8	73.0	72.2	72.4
66°	53.7	54.4	53.8	55.9	61.7	63.2	66.7	68.0	70.2	69.6	69.5
66.5°	51.3	51.7	51.4	53.3	59.0	60.6	64.1	65.4	67.6	66.9	66.7
67°	48.8	49.3	48.8	50.9	56.4	57.9	61.3	62.7	64.8	64.1	64.0



TEST NUMBER: P522101

CATALOG NUMBER: RLLV6069SE010WHDM-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	46.4	46.8	46.4	48.4	53.8	55.3	58.7	60.0	62.1	61.4	61.4
68°	44.0	44.4	44.0	45.9	51.3	52.8	56.2	57.3	59.5	58.7	58.8
68.5°	41.6	42.0	41.6	43.5	48.8	50.1	53.5	54.7	56.9	56.1	56.1
69°	39.3	39.7	39.3	41.1	46.3	47.5	51.1	52.0	54.4	53.5	53.5
69.5°	36.9	37.5	36.9	38.9	43.9	45.1	48.5	49.5	51.6	51.0	51.1
70°	34.7	35.1	34.7	36.4	41.5	42.7	46.0	47.0	49.2	48.5	48.5
70.5°	32.5	32.9	32.5	34.3	39.2	40.3	43.5	44.6	46.6	46.0	46.0
71°	30.4	30.8	30.3	32.1	36.8	38.0	41.1	42.1	44.2	43.5	43.6
71.5°	28.3	28.9	28.3	29.9	34.5	35.7	38.9	39.7	41.7	41.1	41.3
72°	26.3	27.0	26.3	28.0	32.3	33.4	36.4	37.3	39.3	38.7	38.9
72.5°	24.5	25.0	24.4	25.8	30.2	31.2	34.2	35.0	37.0	36.4	36.5
73°	22.6	22.9	22.6	24.0	28.2	29.2	32.0	32.9	34.6	34.1	34.2
73.5°	20.9	21.1	20.9	22.2	26.0	27.2	29.8	30.7	32.4	32.0	32.0
74°	19.2	19.4	19.1	20.4	24.2	25.1	27.6	28.6	30.2	29.7	29.7
74.5°	17.6	17.8	17.5	18.7	22.4	23.1	25.6	26.4	28.1	27.7	27.7
75°	15.9	16.2	15.9	17.0	20.5	21.2	23.8	24.5	26.0	25.7	25.7
75.5°	14.4	14.7	14.3	15.5	18.8	19.5	21.9	22.6	24.1	23.6	23.9
76°	13.1	13.4	13.0	14.0	17.2	17.8	20.0	20.6	22.3	21.7	22.0
76.5°	11.8	12.0	11.8	12.7	15.5	16.1	18.2	18.9	20.3	19.8	20.0
77°	10.7	10.7	10.7	11.5	14.0	14.8	16.6	17.2	18.6	18.1	18.3
77.5°	9.4	9.6	9.3	10.4	12.7	13.3	15.2	15.6	16.9	16.5	16.6
78°	8.5	8.7	8.4	9.0	11.5	12.0	13.7	14.1	15.5	15.1	15.2
78.5°	7.4	7.6	7.4	8.2	10.4	10.8	12.2	12.6	13.9	13.5	13.7
79°	6.7	6.8	6.5	7.2	9.0	9.5	10.9	11.2	12.3	12.1	12.2
79.5°	5.9	5.9	5.8	6.3	8.3	8.6	9.9	10.2	11.1	10.8	10.8
80°	5.5	5.5	5.2	5.6	7.2	7.4	8.8	9.1	9.9	9.6	9.8
80.5°	4.8	4.7	4.6	4.9	6.3	6.7	7.6	8.0	8.8	8.5	8.7
81°	4.2	4.1	4.0	4.5	5.6	5.9	6.7	7.1	7.7	7.5	7.5
81.5°	3.8	3.8	3.8	3.8	4.9	5.4	5.9	6.1	6.8	6.7	6.6
82°	3.5	3.6	3.3	3.7	4.5	4.7	5.5	5.6	5.9	5.8	5.8
82.5°	3.1	3.1	3.0	3.1	3.9	4.1	4.6	4.9	5.5	5.2	5.4
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	3.2	3.4	3.8	3.9	4.0	4.1	3.9
84°	2.2	2.1	2.2	2.2	2.9	3.1	3.2	3.7	3.8	3.8	3.8
84.5°	1.7	1.6	1.6	2.0	2.4	2.7	3.0	3.1	3.5	3.4	3.2
85°	1.3	1.3	1.4	1.6	2.2	2.3	2.6	2.8	3.1	3.1	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: P522101

CATALOG NUMBER: RLLV6069SE010WHDM-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: P522101

CATALOG NUMBER: RLLV6069SE010WHDM-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	282.3	282.3	282.3	282.3	282.3	282.3
0.5°	282.6	282.2	282.1	282.2	282.1	282.1
1°	282.6	282.1	282.0	282.1	282.0	282.0
1.5°	282.5	282.0	282.0	282.0	282.0	282.0
2°	282.5	282.0	281.9	282.0	281.8	281.8
2.5°	282.4	281.8	281.7	281.7	281.7	281.7
3°	282.2	281.7	281.5	281.6	281.5	281.5
3.5°	282.1	281.4	281.3	281.3	281.3	281.2
4°	281.9	281.2	281.1	281.0	281.0	280.8
4.5°	281.7	280.9	280.8	280.7	280.6	280.6
5°	281.5	280.6	280.5	280.4	280.3	280.2
5.5°	281.3	280.3	280.1	280.0	280.0	279.9
6°	280.9	279.9	279.8	279.7	279.6	279.6
6.5°	280.6	279.6	279.6	279.4	279.3	279.2
7°	280.2	279.2	279.1	278.9	278.9	278.7
7.5°	279.9	278.7	278.7	278.4	278.4	278.2
8°	279.6	278.3	278.2	278.0	278.0	277.7
8.5°	279.1	277.9	277.8	277.5	277.4	277.3
9°	278.7	277.3	277.2	277.0	277.0	276.8
9.5°	278.2	276.9	276.8	276.5	276.4	276.3
10°	277.7	276.3	276.3	275.9	275.9	275.6
10.5°	277.2	275.7	275.7	275.2	275.3	274.9
11°	276.7	275.1	275.1	274.7	274.7	274.4
11.5°	276.1	274.6	274.5	274.0	274.0	273.7
12°	275.5	273.9	273.9	273.3	273.3	273.0
12.5°	274.8	273.2	273.2	272.7	272.5	272.3
13°	274.3	272.5	272.5	272.0	271.9	271.5
13.5°	273.6	271.9	271.9	271.2	271.1	270.7
14°	272.9	271.3	271.1	270.4	270.3	269.9
14.5°	272.2	270.3	270.3	269.7	269.5	269.1
15°	271.5	269.6	269.6	268.8	268.6	268.1
15.5°	270.7	268.8	268.7	267.9	267.7	267.2
16°	269.9	267.9	267.8	267.0	266.7	266.2
16.5°	269.1	267.0	267.0	266.1	265.8	265.3
17°	268.2	266.1	266.0	265.1	264.8	264.2
17.5°	267.5	265.1	265.1	264.1	263.8	263.2
18°	266.5	264.1	264.1	263.0	262.8	262.1
18.5°	265.6	263.1	263.0	262.0	261.6	261.0
19°	264.7	262.1	262.0	260.8	260.5	259.9
19.5°	263.7	261.0	260.8	259.8	259.3	258.7
20°	262.8	259.9	259.8	258.6	258.2	257.5
20.5°	261.7	258.7	258.6	257.4	256.9	256.2
21°	260.6	257.7	257.5	256.2	255.8	255.0
21.5°	259.5	256.3	256.2	254.9	254.4	253.6
22°	258.3	255.2	255.0	253.6	253.2	252.3



TEST NUMBER: P522101

CATALOG NUMBER: RLLV6069SE010WHDM-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	257.2	253.9	253.7	252.3	251.7	251.0
23°	256.0	252.6	252.4	251.0	250.5	249.6
23.5°	254.7	251.3	251.0	249.6	249.0	248.3
24°	253.4	250.0	249.8	248.4	247.7	246.8
24.5°	252.1	248.6	248.4	246.8	246.3	245.3
25°	250.8	247.2	247.0	245.4	244.8	243.9
25.5°	249.4	245.8	245.6	243.9	243.4	242.4
26°	248.1	244.2	244.0	242.4	241.9	240.8
26.5°	246.7	242.8	242.6	241.0	240.3	239.2
27°	245.2	241.4	241.1	239.3	238.8	237.6
27.5°	243.8	239.8	239.5	237.8	237.1	236.1
28°	242.3	238.2	238.0	236.2	235.6	234.4
28.5°	240.8	236.7	236.4	234.6	234.0	232.7
29°	239.1	235.0	234.7	233.0	232.3	231.1
29.5°	237.6	233.4	233.0	231.3	230.7	229.4
30°	236.1	231.8	231.4	229.6	228.9	227.7
30.5°	234.6	230.0	229.6	227.9	227.2	226.0
31°	232.9	228.4	227.8	226.2	225.4	224.2
31.5°	231.3	226.7	226.2	224.5	223.7	222.5
32°	229.5	224.9	224.4	222.6	222.0	220.6
32.5°	227.7	223.1	222.5	220.8	220.1	218.8
33°	226.1	221.4	220.8	218.9	218.3	217.0
33.5°	224.4	219.6	219.0	217.1	216.5	215.1
34°	222.6	217.7	217.1	215.3	214.6	213.2
34.5°	220.8	215.9	215.2	213.3	212.8	211.3
35°	219.0	214.0	213.2	211.4	210.9	209.5
35.5°	217.2	212.0	211.4	209.5	209.0	207.6
36°	215.3	210.1	209.5	207.6	207.1	205.7
36.5°	213.4	208.2	207.6	205.7	205.2	203.6
37°	211.5	206.2	205.6	203.7	203.3	201.7
37.5°	209.7	204.3	203.6	201.8	201.2	199.8
38°	207.8	202.5	201.6	199.9	199.3	197.8
38.5°	205.9	200.5	199.6	197.8	197.3	195.9
39°	203.9	198.5	197.7	195.8	195.4	193.9
39.5°	202.0	196.3	195.7	193.8	193.4	191.7
40°	200.0	194.3	193.6	191.6	191.3	189.7
40.5°	198.0	192.2	191.6	189.5	189.2	187.6
41°	196.0	190.2	189.3	187.5	187.1	185.6
41.5°	193.9	188.1	187.3	185.5	185.0	183.5
42°	191.8	186.0	185.3	183.3	182.9	181.4
42.5°	189.7	183.9	183.2	181.1	180.8	179.2
43°	187.6	181.7	181.0	179.0	178.7	177.1
43.5°	185.5	179.5	178.9	176.8	176.6	174.9
44°	183.4	177.3	176.8	174.6	174.3	172.6
44.5°	181.3	175.0	174.5	172.5	172.1	170.4



TEST NUMBER: P522101

CATALOG NUMBER: RLLV6069SE010WHDM-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	179.1	172.8	172.3	170.2	169.9	168.2
45.5°	176.9	170.5	170.1	168.0	167.8	166.0
46°	174.6	168.2	167.8	165.7	165.4	163.7
46.5°	172.4	165.8	165.5	163.5	163.2	161.5
47°	170.1	163.6	163.3	161.2	160.9	159.2
47.5°	167.8	161.1	161.0	158.9	158.6	156.9
48°	165.4	158.8	158.5	156.6	156.2	154.6
48.5°	163.1	156.3	156.2	154.2	153.8	152.0
49°	160.8	153.8	153.8	151.7	151.4	149.6
49.5°	158.5	151.3	151.3	149.2	148.9	146.9
50°	156.0	148.7	148.8	146.7	146.3	144.1
50.5°	153.5	146.2	146.3	144.0	143.6	141.5
51°	151.1	143.5	143.6	141.3	140.9	138.7
51.5°	148.6	140.8	140.8	138.5	138.1	136.0
52°	146.0	138.1	138.0	135.8	135.3	133.2
52.5°	143.3	135.2	135.3	133.1	132.5	130.2
53°	140.5	132.5	132.5	130.0	129.6	127.4
53.5°	137.8	129.7	129.7	127.3	126.8	124.4
54°	135.0	126.8	126.9	124.4	123.8	121.6
54.5°	132.1	123.9	123.9	121.4	120.8	118.5
55°	129.3	121.1	120.9	118.5	117.8	115.6
55.5°	126.5	118.2	118.1	115.7	115.0	112.8
56°	123.7	115.4	115.2	112.7	112.0	109.8
56.5°	120.8	112.5	112.3	109.7	109.0	106.9
57°	117.8	109.5	109.4	106.8	106.1	103.9
57.5°	114.9	106.6	106.6	103.8	103.2	101.0
58°	112.0	103.7	103.5	100.9	100.2	98.0
58.5°	109.1	100.9	100.6	98.1	97.3	95.1
59°	106.2	98.1	97.8	95.0	94.2	92.2
59.5°	103.4	95.1	94.9	92.2	91.4	89.2
60°	100.4	92.3	91.9	89.2	88.6	86.4
60.5°	97.5	89.4	89.2	86.5	85.7	83.6
61°	94.5	86.7	86.3	83.5	82.9	80.7
61.5°	91.6	83.9	83.4	80.6	80.0	77.8
62°	88.9	81.0	80.6	77.8	77.2	75.0
62.5°	86.1	78.3	77.8	75.0	74.3	72.3
63°	83.2	75.5	75.0	72.4	71.6	69.6
63.5°	80.5	72.9	72.4	69.7	68.9	67.0
64°	77.5	70.2	69.7	67.1	66.3	64.2
64.5°	74.8	67.5	67.0	64.3	63.5	61.6
65°	72.2	65.0	64.4	61.6	60.8	58.9
65.5°	69.4	62.2	61.6	58.9	58.3	56.3
66°	66.8	59.7	59.0	56.4	55.7	53.7
66.5°	64.1	57.1	56.4	53.8	53.0	51.3
67°	61.4	54.6	53.9	51.4	50.6	48.8



TEST NUMBER: P522101

CATALOG NUMBER: RLLV6069SE010WHDM-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	58.7	52.0	51.4	48.8	48.1	46.4
68°	56.2	49.6	49.1	46.4	45.7	44.0
68.5°	53.5	47.1	46.5	44.0	43.3	41.6
69°	51.1	44.7	44.1	41.6	41.0	39.3
69.5°	48.6	42.3	41.7	39.3	38.6	36.9
70°	46.2	40.0	39.3	36.9	36.3	34.7
70.5°	43.8	37.9	37.1	34.7	34.2	32.5
71°	41.4	35.6	34.9	32.5	32.0	30.4
71.5°	39.1	33.3	32.7	30.4	29.8	28.3
72°	36.6	31.2	30.6	28.3	27.8	26.3
72.5°	34.5	29.2	28.5	26.2	25.8	24.5
73°	32.2	27.4	26.6	24.5	24.0	22.6
73.5°	30.1	25.3	24.5	22.6	22.2	20.9
74°	28.0	23.3	22.6	20.8	20.3	19.2
74.5°	26.1	21.4	20.8	19.1	18.7	17.6
75°	24.1	19.6	19.0	17.5	17.1	15.9
75.5°	22.2	17.9	17.5	15.8	15.5	14.4
76°	20.3	16.3	15.8	14.4	14.0	13.1
76.5°	18.6	15.0	14.5	12.9	12.6	11.8
77°	16.9	13.5	13.0	11.6	11.4	10.7
77.5°	15.4	12.1	11.6	10.5	10.4	9.4
78°	13.9	10.8	10.5	9.2	9.0	8.5
78.5°	12.5	9.5	9.2	8.3	8.2	7.4
79°	11.0	8.5	8.3	7.4	7.2	6.7
79.5°	10.0	7.5	7.2	6.4	6.4	5.9
80°	9.0	6.7	6.3	5.7	5.6	5.5
80.5°	7.7	5.8	5.6	5.0	5.0	4.8
81°	6.9	5.2	4.9	4.5	4.5	4.2
81.5°	5.9	4.6	4.4	4.0	3.9	3.8
82°	5.6	4.0	3.9	3.7	3.7	3.5
82.5°	4.8	3.8	3.7	3.3	3.2	3.1
83°	4.1	3.3	3.1	2.9	2.9	2.8
83.5°	3.8	3.0	2.9	2.5	2.4	2.3
84°	3.6	2.7	2.3	2.2	2.2	2.2
84.5°	3.1	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	1.2	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: P522101

CATALOG NUMBER: RLLV6069SE010WHDM-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)