

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: P522102

Luminaire Tested: **RLLV6069SE010WHDM-5000K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522102
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-5000K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (72) 5000K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

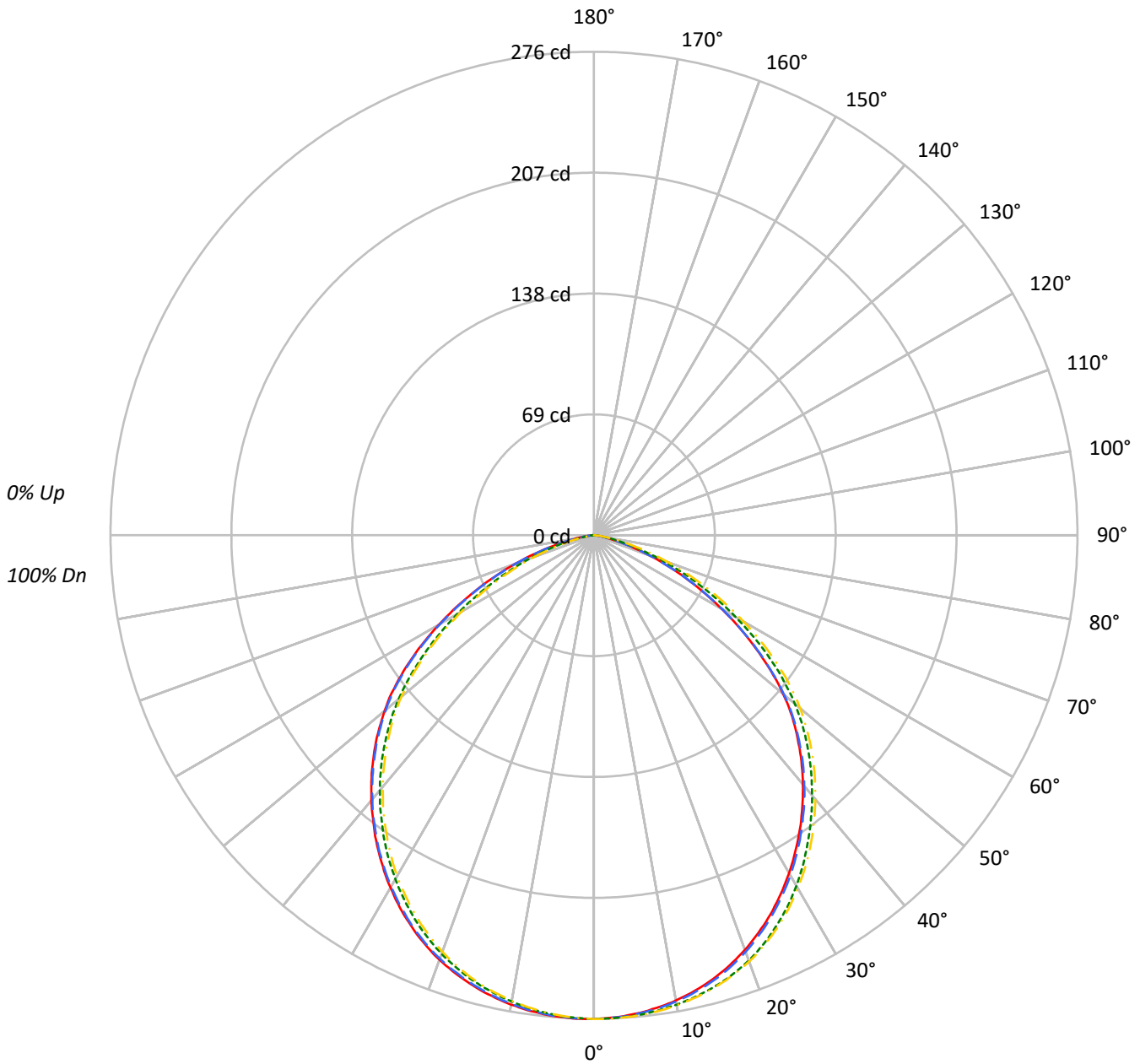
Lumens per Lamp: 706.09 (72 lamps)
Luminaire Lumens: 675.0 lumens
Efficiency: 1.3%
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P522102
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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	0
RCR																		
0	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
2	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
4	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
6	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	0
8	1	1	1	0	1	1	1	0	1	1	0	1	1	0	1	1	0	0
9	1	1	1	0	1	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	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15141	15141	15141	15141
5°	15084	15144	15155	15106
10°	15008	15147	15147	15046
15°	14887	15136	15108	14966
20°	14695	15075	15045	14830
25°	14432	14892	14904	14626
30°	14103	14629	14698	14350
35°	13713	14261	14449	14014
40°	13282	13862	14148	13604
45°	12761	13397	13777	13110
50°	12025	12767	13313	12409
55°	10810	11727	12482	11326
60°	9265	10262	11216	9901
65°	7472	8509	9625	8250
70°	5450	6508	7726	6267
75°	3304	4257	5380	4067
80°	1705	2210	3062	2084
85°	818	1384	1887	1384



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	26.1	3.9	0.1
10°-20°	74.7	11.1	0.1
20°-30°	112.0	16.6	0.2
30°-40°	131.9	19.5	0.3
40°-50°	131.8	19.5	0.3
50°-60°	108.2	16.0	0.2
60°-70°	65.0	9.6	0.1
70°-80°	22.5	3.3	0.0
80°-90°	2.7	0.4	0.0
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	212.8	31.5	0.4
0°-40°	344.7	51.1	0.7
0°-60°	584.8	86.6	1.2
0°-90°	675.0	100.0	1.3
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°	675.0	100.0	1.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	276	276	276	276	276	
5°	274	275	275	274	274	26
15°	262	267	266	264	262	74
25°	239	246	246	242	239	110
35°	205	213	216	209	205	128
45°	165	173	178	169	165	127
55°	113	123	131	118	113	101
65°	58	66	74	64	58	57
75°	16	20	25	19	16	18
85°	1	2	3	2	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	276.2	276.2	276.2	276.2	276.2	276.2	276.2	276.2	276.2	276.2	276.2
0.5°	276.0	276.0	276.2	276.4	276.1	276.1	276.2	276.2	276.2	276.2	276.2
1°	275.9	275.9	276.1	276.4	276.1	276.2	276.2	276.2	276.2	276.2	276.2
1.5°	275.8	275.7	275.9	276.3	276.0	276.2	276.2	276.2	276.2	276.2	276.2
2°	275.6	275.6	275.8	276.2	276.0	276.1	276.2	276.2	276.2	276.2	276.1
2.5°	275.5	275.4	275.6	276.1	275.9	276.0	276.1	276.2	276.1	276.1	275.9
3°	275.4	275.4	275.5	275.9	275.8	275.9	276.0	276.0	276.0	275.9	275.8
3.5°	275.1	275.2	275.3	275.7	275.6	275.8	275.8	275.9	275.8	275.8	275.6
4°	274.7	274.8	275.1	275.5	275.5	275.7	275.7	275.8	275.7	275.6	275.4
4.5°	274.5	274.5	274.8	275.4	275.4	275.5	275.6	275.6	275.5	275.4	275.4
5°	274.1	274.2	274.5	275.2	275.2	275.4	275.4	275.5	275.4	275.3	275.2
5.5°	273.9	273.9	274.1	274.8	275.0	275.2	275.3	275.3	275.2	275.0	274.9
6°	273.5	273.6	273.9	274.5	274.7	274.9	275.2	275.0	274.9	274.7	274.6
6.5°	273.1	273.2	273.5	274.1	274.5	274.7	274.8	274.7	274.6	274.3	274.3
7°	272.6	272.8	273.1	273.9	274.1	274.3	274.6	274.4	274.3	274.0	274.0
7.5°	272.2	272.4	272.6	273.5	273.9	274.0	274.2	274.1	274.0	273.8	273.7
8°	271.7	272.0	272.3	273.1	273.6	273.8	273.9	273.8	273.7	273.4	273.4
8.5°	271.3	271.5	271.8	272.6	273.2	273.4	273.6	273.5	273.3	273.0	272.9
9°	270.8	270.9	271.3	272.2	272.8	273.0	273.2	273.0	272.9	272.5	272.4
9.5°	270.3	270.5	270.8	271.8	272.4	272.6	272.8	272.5	272.4	272.2	272.1
10°	269.6	269.9	270.3	271.2	272.1	272.3	272.4	272.2	272.1	271.6	271.6
10.5°	269.0	269.3	269.7	270.8	271.6	271.9	272.0	271.6	271.6	271.2	271.1
11°	268.4	268.7	269.1	270.2	271.1	271.4	271.5	271.2	271.1	270.7	270.7
11.5°	267.7	268.0	268.5	269.6	270.7	270.9	271.1	270.7	270.6	270.2	270.2
12°	267.1	267.4	267.8	269.1	270.2	270.5	270.6	270.2	270.1	269.5	269.5
12.5°	266.3	266.7	267.1	268.4	269.6	269.9	270.1	269.6	269.4	269.0	269.0
13°	265.6	266.1	266.4	267.8	269.1	269.3	269.5	269.0	268.9	268.3	268.4
13.5°	264.8	265.3	265.7	267.1	268.5	268.8	269.0	268.3	268.3	267.7	267.7
14°	264.0	264.6	264.9	266.4	267.9	268.2	268.4	267.7	267.7	267.0	267.0
14.5°	263.2	263.7	264.1	265.7	267.3	267.6	267.7	267.0	266.9	266.3	266.3
15°	262.3	262.9	263.3	265.0	266.7	266.9	267.1	266.3	266.2	265.6	265.6
15.5°	261.4	261.9	262.4	264.1	266.0	266.2	266.4	265.6	265.5	264.8	264.9
16°	260.4	261.0	261.6	263.2	265.2	265.5	265.7	264.8	264.7	264.1	264.2
16.5°	259.5	260.0	260.5	262.3	264.6	264.8	265.0	264.1	264.0	263.3	263.4
17°	258.5	259.1	259.6	261.4	263.8	264.0	264.2	263.3	263.2	262.4	262.5
17.5°	257.5	258.1	258.6	260.4	263.0	263.2	263.5	262.5	262.4	261.6	261.7
18°	256.4	257.0	257.5	259.4	262.1	262.3	262.6	261.6	261.6	260.7	260.9
18.5°	255.4	255.9	256.5	258.4	261.2	261.5	261.8	260.7	260.6	259.9	260.0
19°	254.2	254.8	255.4	257.2	260.3	260.5	260.9	260.0	259.8	258.9	259.1
19.5°	253.1	253.7	254.3	256.2	259.3	259.6	260.0	258.9	258.8	258.1	258.2
20°	251.9	252.5	253.1	255.0	258.4	258.6	259.0	258.1	257.9	257.1	257.2
20.5°	250.7	251.2	251.9	253.9	257.3	257.6	258.0	257.0	257.0	256.2	256.2
21°	249.4	250.2	250.7	252.7	256.2	256.6	257.0	256.0	255.9	255.1	255.2
21.5°	248.1	248.8	249.4	251.5	255.1	255.4	255.8	254.9	254.8	254.0	254.1
22°	246.8	247.5	248.1	250.3	253.9	254.3	254.7	253.9	253.7	252.9	253.0



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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°	245.5	246.2	246.8	248.9	252.7	253.2	253.5	252.6	252.5	251.8	251.9
23°	244.2	244.8	245.5	247.7	251.5	252.1	252.4	251.5	251.3	250.6	250.7
23.5°	242.9	243.4	244.2	246.2	250.3	250.8	251.1	250.4	250.3	249.4	249.4
24°	241.5	242.1	242.8	244.9	248.9	249.4	250.0	249.1	249.0	248.2	248.3
24.5°	240.0	240.8	241.4	243.5	247.6	248.1	248.7	247.8	247.8	246.9	247.0
25°	238.6	239.3	239.9	242.1	246.2	246.8	247.4	246.5	246.4	245.6	245.8
25.5°	237.1	237.8	238.5	240.7	244.8	245.4	246.1	245.2	245.1	244.3	244.5
26°	235.5	236.4	237.0	239.2	243.4	244.0	244.7	243.9	243.8	243.0	243.2
26.5°	234.0	234.8	235.5	237.6	242.0	242.6	243.3	242.5	242.5	241.6	241.7
27°	232.4	233.3	233.9	236.1	240.5	241.3	241.8	241.2	241.1	240.1	240.3
27.5°	230.9	231.7	232.4	234.5	239.1	239.8	240.4	239.8	239.7	238.7	239.0
28°	229.3	230.2	230.8	232.9	237.5	238.1	239.0	238.2	238.3	237.4	237.5
28.5°	227.7	228.5	229.1	231.3	236.0	236.6	237.4	236.8	236.9	235.8	236.1
29°	226.1	226.9	227.6	229.7	234.3	235.0	235.9	235.2	235.3	234.3	234.6
29.5°	224.4	225.2	225.9	228.0	232.7	233.4	234.3	233.7	233.8	232.8	233.1
30°	222.8	223.6	224.2	226.3	231.1	231.7	232.8	232.1	232.2	231.4	231.6
30.5°	221.1	221.8	222.5	224.7	229.4	230.1	231.1	230.6	230.8	229.8	230.1
31°	219.3	220.2	220.8	223.0	227.7	228.4	229.4	229.0	229.3	228.2	228.5
31.5°	217.6	218.5	219.0	221.2	226.0	226.6	227.8	227.3	227.7	226.6	226.9
32°	215.8	216.8	217.2	219.5	224.2	224.8	226.2	225.6	226.0	224.9	225.2
32.5°	214.0	215.0	215.5	217.7	222.4	223.1	224.5	224.0	224.3	223.3	223.6
33°	212.3	213.2	213.7	215.9	220.6	221.3	222.8	222.3	222.7	221.7	221.9
33.5°	210.4	211.4	211.8	214.0	218.7	219.5	221.1	220.6	221.0	220.0	220.2
34°	208.6	209.6	210.1	212.2	216.9	217.6	219.3	218.8	219.3	218.3	218.6
34.5°	206.7	207.8	208.2	210.3	215.0	215.7	217.5	217.1	217.6	216.6	216.9
35°	204.9	206.0	206.3	208.4	213.1	213.9	215.7	215.4	215.9	214.9	215.2
35.5°	203.1	204.2	204.5	206.5	211.2	211.9	213.9	213.6	214.1	213.1	213.4
36°	201.2	202.2	202.6	204.6	209.4	210.0	212.0	211.8	212.4	211.3	211.6
36.5°	199.2	200.3	200.6	202.7	207.5	208.1	210.1	209.9	210.5	209.5	209.8
37°	197.3	198.4	198.7	200.7	205.5	206.2	208.2	208.2	208.7	207.7	207.9
37.5°	195.5	196.5	196.9	198.7	203.5	204.3	206.3	206.3	206.8	205.9	206.2
38°	193.5	194.6	194.9	196.8	201.7	202.4	204.4	204.5	205.0	204.1	204.3
38.5°	191.6	192.6	192.9	194.8	199.7	200.4	202.5	202.6	203.2	202.2	202.5
39°	189.6	190.7	191.0	192.8	197.7	198.5	200.5	200.7	201.4	200.3	200.6
39.5°	187.6	188.7	188.9	190.9	195.8	196.5	198.6	198.7	199.5	198.5	198.7
40°	185.6	186.7	186.8	188.8	193.7	194.5	196.6	196.9	197.7	196.6	196.8
40.5°	183.5	184.7	184.9	186.7	191.6	192.5	194.5	194.9	195.6	194.7	194.9
41°	181.6	182.7	182.8	184.7	189.6	190.4	192.5	193.0	193.7	192.7	192.9
41.5°	179.5	180.5	180.7	182.6	187.6	188.4	190.6	191.0	191.8	190.9	191.0
42°	177.4	178.5	178.6	180.4	185.5	186.4	188.6	189.1	189.8	188.9	189.0
42.5°	175.3	176.4	176.5	178.4	183.5	184.3	186.5	187.0	187.9	186.8	187.1
43°	173.2	174.3	174.3	176.2	181.4	182.1	184.6	184.9	186.0	184.9	185.0
43.5°	171.1	172.2	172.1	174.1	179.3	180.1	182.5	183.0	183.9	182.9	183.0
44°	168.9	170.0	170.0	171.9	177.2	177.9	180.3	180.8	181.8	180.8	181.0
44.5°	166.7	167.9	167.8	169.6	174.9	175.7	178.2	178.7	179.8	178.7	178.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	164.6	165.7	165.6	167.5	172.8	173.6	176.0	176.7	177.7	176.8	176.9
45.5°	162.4	163.5	163.4	165.1	170.7	171.5	173.9	174.5	175.7	174.7	174.7
46°	160.2	161.4	161.1	163.0	168.4	169.3	171.7	172.4	173.6	172.6	172.7
46.5°	158.0	159.2	158.8	160.6	166.3	167.1	169.5	170.3	171.5	170.5	170.6
47°	155.7	156.9	156.7	158.4	164.0	164.9	167.3	168.0	169.5	168.4	168.3
47.5°	153.5	154.6	154.3	156.2	161.7	162.7	165.0	165.8	167.1	166.2	166.2
48°	151.2	152.2	152.0	153.7	159.4	160.4	162.8	163.5	164.9	164.0	164.0
48.5°	148.7	149.7	149.6	151.3	157.0	158.2	160.4	161.4	162.7	161.9	161.8
49°	146.4	147.3	147.0	148.9	154.6	155.8	158.3	159.0	160.5	159.7	159.6
49.5°	143.7	144.7	144.4	146.5	152.2	153.4	156.0	156.9	158.3	157.4	157.4
50°	141.0	142.0	141.8	143.9	149.7	151.0	153.6	154.5	156.1	155.2	155.1
50.5°	138.4	139.5	138.9	141.3	147.3	148.4	151.2	152.1	153.8	152.8	152.9
51°	135.7	136.7	136.3	138.5	144.7	145.8	148.8	149.6	151.4	150.5	150.5
51.5°	133.0	134.1	133.6	135.8	142.0	143.4	146.3	147.1	149.1	148.1	148.0
52°	130.3	131.2	130.7	133.0	139.3	140.5	143.5	144.7	146.5	145.6	145.6
52.5°	127.4	128.4	128.0	130.2	136.6	137.9	141.0	142.0	143.9	143.1	143.1
53°	124.7	125.7	125.0	127.5	134.0	135.2	138.3	139.3	141.4	140.4	140.4
53.5°	121.7	122.7	122.2	124.7	131.2	132.4	135.8	136.6	138.7	137.8	137.8
54°	118.9	119.9	119.3	121.8	128.3	129.6	132.9	133.9	136.0	135.1	135.2
54.5°	115.9	117.0	116.5	118.9	125.5	126.8	130.1	131.2	133.3	132.5	132.5
55°	113.1	114.1	113.6	116.0	122.7	123.9	127.4	128.5	130.6	129.8	129.7
55.5°	110.3	111.1	110.8	113.0	119.8	121.3	124.5	125.6	127.8	126.9	126.8
56°	107.4	108.2	107.9	110.1	116.8	118.4	121.7	122.9	125.0	124.2	124.1
56.5°	104.6	105.3	105.1	107.3	114.0	115.5	118.9	120.2	122.2	121.5	121.3
57°	101.7	102.4	102.0	104.5	111.1	112.5	116.1	117.2	119.5	118.6	118.5
57.5°	98.8	99.5	99.0	101.5	108.1	109.6	113.1	114.3	116.5	115.8	115.8
58°	95.9	96.6	96.2	98.6	105.1	106.7	110.3	111.5	113.7	112.8	112.8
58.5°	93.0	93.8	93.3	95.8	102.2	103.7	107.4	108.6	110.9	110.0	109.9
59°	90.2	90.9	90.5	92.8	99.3	100.9	104.6	105.8	107.9	107.2	107.1
59.5°	87.3	87.9	87.6	89.8	96.4	98.0	101.7	102.9	105.1	104.3	104.3
60°	84.5	85.1	84.8	87.0	93.6	95.1	98.8	100.1	102.3	101.5	101.4
60.5°	81.8	82.4	82.0	84.3	90.8	92.2	95.9	97.2	99.4	98.6	98.6
61°	79.0	79.6	79.0	81.4	87.9	89.3	93.1	94.3	96.6	95.8	95.8
61.5°	76.1	76.8	76.3	78.7	85.0	86.4	90.2	91.5	93.8	92.8	92.9
62°	73.4	74.1	73.6	75.9	82.2	83.6	87.4	88.5	91.0	90.0	90.0
62.5°	70.7	71.3	71.0	73.1	79.3	80.8	84.6	85.8	88.1	87.2	87.2
63°	68.1	68.7	68.3	70.4	76.5	78.1	81.8	83.0	85.2	84.5	84.4
63.5°	65.5	66.0	65.6	67.8	73.8	75.3	79.0	80.4	82.4	81.8	81.7
64°	62.8	63.5	63.0	65.1	71.2	72.5	76.3	77.5	79.7	79.0	78.9
64.5°	60.3	60.8	60.4	62.4	68.3	69.8	73.4	74.7	76.9	76.1	76.1
65°	57.6	58.2	57.7	59.8	65.6	67.1	70.8	72.0	74.2	73.3	73.3
65.5°	55.1	55.7	55.2	57.3	63.1	64.4	68.1	69.3	71.4	70.6	70.8
66°	52.6	53.2	52.7	54.7	60.4	61.9	65.2	66.6	68.7	68.1	68.0
66.5°	50.2	50.6	50.3	52.1	57.7	59.2	62.7	63.9	66.1	65.4	65.2
67°	47.7	48.3	47.7	49.8	55.2	56.6	60.0	61.3	63.4	62.7	62.6



TEST NUMBER: P522102

CATALOG NUMBER: RLLV6069SE010WHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	45.3	45.8	45.3	47.3	52.7	54.1	57.5	58.7	60.7	60.1	60.1
68°	43.0	43.5	43.0	44.9	50.2	51.6	55.0	56.0	58.2	57.5	57.5
68.5°	40.7	41.1	40.7	42.5	47.8	49.0	52.4	53.5	55.7	54.9	54.9
69°	38.4	38.9	38.4	40.2	45.3	46.5	49.9	50.9	53.2	52.4	52.4
69.5°	36.1	36.7	36.1	38.0	42.9	44.1	47.4	48.4	50.5	49.9	49.9
70°	34.0	34.4	34.0	35.6	40.6	41.8	45.0	46.0	48.2	47.4	47.4
70.5°	31.8	32.2	31.8	33.5	38.3	39.4	42.5	43.7	45.6	45.0	45.0
71°	29.8	30.1	29.7	31.5	36.0	37.2	40.2	41.2	43.3	42.5	42.6
71.5°	27.7	28.3	27.7	29.3	33.8	34.9	38.0	38.9	40.8	40.2	40.4
72°	25.7	26.4	25.7	27.4	31.6	32.7	35.6	36.5	38.5	37.8	38.0
72.5°	23.9	24.4	23.8	25.3	29.6	30.5	33.4	34.3	36.2	35.6	35.7
73°	22.2	22.4	22.2	23.5	27.6	28.5	31.3	32.2	33.9	33.3	33.4
73.5°	20.5	20.7	20.5	21.7	25.4	26.6	29.2	30.0	31.7	31.3	31.3
74°	18.8	19.0	18.7	20.0	23.7	24.6	27.0	28.0	29.6	29.1	29.1
74.5°	17.2	17.4	17.1	18.3	21.9	22.6	25.1	25.8	27.5	27.1	27.1
75°	15.6	15.9	15.6	16.6	20.1	20.7	23.3	23.9	25.4	25.2	25.2
75.5°	14.1	14.4	14.0	15.2	18.4	19.1	21.4	22.1	23.6	23.1	23.4
76°	12.8	13.1	12.7	13.7	16.8	17.4	19.5	20.2	21.8	21.2	21.5
76.5°	11.5	11.7	11.5	12.4	15.2	15.8	17.8	18.5	19.9	19.3	19.5
77°	10.5	10.4	10.4	11.3	13.7	14.5	16.2	16.8	18.2	17.7	17.9
77.5°	9.2	9.4	9.1	10.1	12.4	13.0	14.8	15.3	16.5	16.1	16.2
78°	8.4	8.5	8.3	8.8	11.3	11.7	13.4	13.8	15.1	14.7	14.8
78.5°	7.2	7.4	7.2	8.0	10.1	10.6	11.9	12.3	13.6	13.2	13.4
79°	6.6	6.7	6.4	7.0	8.8	9.3	10.7	11.0	12.0	11.8	11.9
79.5°	5.7	5.8	5.6	6.2	8.1	8.4	9.7	10.0	10.9	10.6	10.6
80°	5.4	5.4	5.1	5.4	7.0	7.2	8.6	8.9	9.7	9.4	9.6
80.5°	4.7	4.6	4.5	4.8	6.2	6.6	7.4	7.8	8.6	8.4	8.5
81°	4.1	4.0	3.9	4.4	5.4	5.7	6.6	6.9	7.5	7.3	7.3
81.5°	3.8	3.8	3.8	3.8	4.8	5.3	5.7	6.0	6.7	6.6	6.5
82°	3.4	3.5	3.2	3.7	4.4	4.6	5.4	5.4	5.8	5.6	5.6
82.5°	3.0	3.0	2.9	3.0	3.8	4.0	4.5	4.8	5.4	5.1	5.3
83°	2.7	2.7	2.5	2.7	3.8	3.8	3.9	4.2	4.6	4.5	4.5
83.5°	2.3	2.3	2.3	2.3	3.1	3.3	3.8	3.8	3.9	4.0	3.8
84°	2.2	2.1	2.2	2.2	2.8	3.0	3.1	3.7	3.8	3.8	3.8
84.5°	1.7	1.6	1.6	2.0	2.3	2.6	2.9	3.0	3.4	3.3	3.1
85°	1.3	1.3	1.4	1.6	2.2	2.3	2.5	2.7	3.0	3.0	2.9
85.5°	1.4	1.4	1.5	1.2	2.1	2.2	2.2	2.3	2.6	2.6	2.6
86°	0.7	0.7	0.7	0.8	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	0.9	1.5	1.3	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.6	0.8	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: P522102

CATALOG NUMBER: RLLV6069SE010WHDM-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: P522102

CATALOG NUMBER: RLLV6069SE010WHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	276.2	276.2	276.2	276.2	276.2	276.2
0.5°	276.5	276.1	276.0	276.1	276.0	276.0
1°	276.5	276.0	275.9	276.0	275.9	275.9
1.5°	276.4	275.9	275.8	275.9	275.8	275.8
2°	276.4	275.8	275.7	275.8	275.6	275.6
2.5°	276.3	275.6	275.5	275.5	275.5	275.5
3°	276.1	275.5	275.4	275.4	275.4	275.4
3.5°	276.0	275.3	275.2	275.2	275.2	275.1
4°	275.7	275.1	275.0	274.9	274.9	274.7
4.5°	275.5	274.8	274.7	274.6	274.5	274.5
5°	275.4	274.5	274.4	274.3	274.2	274.1
5.5°	275.2	274.2	274.0	273.9	273.9	273.9
6°	274.8	273.9	273.8	273.7	273.6	273.5
6.5°	274.5	273.6	273.5	273.3	273.2	273.1
7°	274.1	273.1	273.0	272.8	272.8	272.6
7.5°	273.9	272.6	272.6	272.3	272.3	272.2
8°	273.5	272.3	272.2	272.0	272.0	271.7
8.5°	273.0	271.9	271.8	271.5	271.4	271.3
9°	272.6	271.3	271.2	270.9	270.9	270.8
9.5°	272.2	270.8	270.8	270.5	270.4	270.3
10°	271.7	270.3	270.3	269.9	269.9	269.6
10.5°	271.2	269.7	269.7	269.3	269.3	269.0
11°	270.7	269.2	269.2	268.7	268.7	268.4
11.5°	270.1	268.6	268.5	268.0	268.0	267.7
12°	269.5	267.9	267.9	267.4	267.4	267.1
12.5°	268.9	267.3	267.3	266.8	266.6	266.3
13°	268.3	266.6	266.6	266.1	266.0	265.6
13.5°	267.7	266.0	266.0	265.3	265.2	264.8
14°	267.0	265.4	265.2	264.6	264.5	264.0
14.5°	266.2	264.5	264.5	263.8	263.6	263.2
15°	265.6	263.7	263.7	263.0	262.8	262.3
15.5°	264.8	263.0	262.9	262.1	261.8	261.4
16°	264.0	262.1	262.0	261.2	260.9	260.4
16.5°	263.2	261.2	261.2	260.3	260.0	259.5
17°	262.4	260.3	260.2	259.3	259.0	258.5
17.5°	261.6	259.3	259.3	258.4	258.1	257.5
18°	260.7	258.4	258.4	257.3	257.0	256.4
18.5°	259.9	257.4	257.3	256.3	255.9	255.4
19°	258.9	256.4	256.3	255.2	254.8	254.2
19.5°	258.0	255.4	255.2	254.1	253.7	253.1
20°	257.0	254.2	254.1	253.0	252.6	251.9
20.5°	256.0	253.1	253.0	251.8	251.3	250.7
21°	255.0	252.1	251.9	250.7	250.3	249.4
21.5°	253.9	250.8	250.7	249.3	248.9	248.1
22°	252.7	249.6	249.4	248.1	247.7	246.8



TEST NUMBER: P522102

CATALOG NUMBER: RLLV6069SE010WHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	251.6	248.4	248.2	246.8	246.2	245.5
23°	250.5	247.1	246.9	245.5	245.0	244.2
23.5°	249.2	245.9	245.6	244.2	243.6	242.9
24°	247.9	244.6	244.4	243.0	242.3	241.5
24.5°	246.6	243.2	243.0	241.5	241.0	240.0
25°	245.3	241.8	241.6	240.1	239.5	238.6
25.5°	244.0	240.4	240.2	238.6	238.1	237.1
26°	242.7	238.9	238.7	237.1	236.7	235.5
26.5°	241.4	237.5	237.3	235.7	235.1	234.0
27°	239.9	236.1	235.8	234.1	233.6	232.4
27.5°	238.5	234.6	234.3	232.6	232.0	230.9
28°	237.0	233.0	232.8	231.0	230.5	229.3
28.5°	235.5	231.5	231.2	229.5	228.9	227.7
29°	234.0	229.9	229.6	227.9	227.3	226.1
29.5°	232.4	228.3	227.9	226.3	225.7	224.4
30°	230.9	226.7	226.3	224.6	223.9	222.8
30.5°	229.5	225.0	224.7	223.0	222.2	221.1
31°	227.8	223.4	222.9	221.3	220.5	219.3
31.5°	226.3	221.7	221.3	219.6	218.8	217.6
32°	224.5	220.0	219.5	217.8	217.1	215.8
32.5°	222.8	218.3	217.7	216.0	215.4	214.0
33°	221.2	216.6	216.0	214.1	213.6	212.3
33.5°	219.5	214.8	214.2	212.4	211.8	210.4
34°	217.8	213.0	212.4	210.6	209.9	208.6
34.5°	216.0	211.2	210.5	208.7	208.1	206.7
35°	214.2	209.4	208.6	206.8	206.3	204.9
35.5°	212.5	207.4	206.8	204.9	204.5	203.1
36°	210.6	205.5	204.9	203.1	202.6	201.2
36.5°	208.8	203.6	203.1	201.2	200.7	199.2
37°	206.9	201.7	201.1	199.3	198.8	197.3
37.5°	205.1	199.9	199.2	197.4	196.9	195.5
38°	203.3	198.1	197.2	195.6	195.0	193.5
38.5°	201.5	196.1	195.3	193.5	193.0	191.6
39°	199.5	194.1	193.4	191.5	191.1	189.6
39.5°	197.6	192.1	191.4	189.5	189.2	187.6
40°	195.6	190.1	189.4	187.5	187.1	185.6
40.5°	193.7	188.0	187.4	185.4	185.0	183.5
41°	191.7	186.1	185.2	183.4	183.1	181.6
41.5°	189.7	184.0	183.3	181.5	181.0	179.5
42°	187.7	181.9	181.3	179.3	178.9	177.4
42.5°	185.6	179.9	179.2	177.2	176.9	175.3
43°	183.5	177.7	177.1	175.1	174.8	173.2
43.5°	181.5	175.6	175.0	172.9	172.7	171.1
44°	179.4	173.4	172.9	170.8	170.5	168.9
44.5°	177.3	171.2	170.7	168.7	168.3	166.7



TEST NUMBER: P522102

CATALOG NUMBER: RLLV6069SE010WHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	175.2	169.1	168.5	166.5	166.2	164.6
45.5°	173.0	166.8	166.4	164.4	164.1	162.4
46°	170.8	164.6	164.2	162.1	161.9	160.2
46.5°	168.6	162.2	161.9	160.0	159.7	158.0
47°	166.4	160.1	159.8	157.7	157.4	155.7
47.5°	164.2	157.6	157.5	155.5	155.2	153.5
48°	161.9	155.4	155.1	153.2	152.8	151.2
48.5°	159.6	152.9	152.8	150.9	150.5	148.7
49°	157.3	150.5	150.5	148.4	148.1	146.4
49.5°	155.1	148.0	148.0	146.0	145.7	143.7
50°	152.7	145.5	145.6	143.5	143.1	141.0
50.5°	150.2	143.0	143.1	140.8	140.4	138.4
51°	147.8	140.4	140.4	138.2	137.8	135.7
51.5°	145.3	137.7	137.7	135.5	135.1	133.0
52°	142.8	135.1	135.0	132.8	132.4	130.3
52.5°	140.2	132.3	132.4	130.2	129.6	127.4
53°	137.4	129.6	129.6	127.2	126.7	124.7
53.5°	134.8	126.8	126.8	124.5	124.0	121.7
54°	132.1	124.0	124.1	121.7	121.1	118.9
54.5°	129.3	121.2	121.2	118.8	118.2	115.9
55°	126.5	118.5	118.3	115.9	115.3	113.1
55.5°	123.7	115.7	115.6	113.2	112.5	110.3
56°	121.0	112.8	112.7	110.2	109.6	107.4
56.5°	118.2	110.0	109.8	107.3	106.6	104.6
57°	115.3	107.1	107.0	104.5	103.8	101.7
57.5°	112.4	104.3	104.3	101.6	100.9	98.8
58°	109.6	101.5	101.3	98.7	98.0	95.9
58.5°	106.7	98.7	98.4	95.9	95.2	93.0
59°	103.9	95.9	95.7	92.9	92.2	90.2
59.5°	101.1	93.0	92.8	90.2	89.4	87.3
60°	98.2	90.3	89.9	87.3	86.7	84.5
60.5°	95.4	87.5	87.2	84.6	83.8	81.8
61°	92.5	84.8	84.4	81.7	81.1	79.0
61.5°	89.7	82.1	81.6	78.9	78.3	76.1
62°	86.9	79.2	78.9	76.1	75.5	73.4
62.5°	84.2	76.6	76.1	73.4	72.7	70.7
63°	81.4	73.9	73.4	70.8	70.0	68.1
63.5°	78.8	71.3	70.8	68.2	67.4	65.5
64°	75.9	68.6	68.2	65.6	64.9	62.8
64.5°	73.1	66.0	65.5	62.9	62.1	60.3
65°	70.6	63.6	63.0	60.3	59.5	57.6
65.5°	67.9	60.8	60.3	57.6	57.0	55.1
66°	65.3	58.4	57.7	55.2	54.5	52.6
66.5°	62.7	55.9	55.2	52.7	51.8	50.2
67°	60.1	53.4	52.8	50.3	49.5	47.7



TEST NUMBER: P522102

CATALOG NUMBER: RLLV6069SE010WHDM-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	57.5	50.9	50.3	47.8	47.0	45.3
68°	55.0	48.5	48.1	45.3	44.7	43.0
68.5°	52.4	46.1	45.5	43.0	42.3	40.7
69°	49.9	43.7	43.2	40.7	40.1	38.4
69.5°	47.5	41.4	40.8	38.5	37.7	36.1
70°	45.2	39.1	38.5	36.1	35.5	34.0
70.5°	42.8	37.1	36.3	34.0	33.4	31.8
71°	40.5	34.8	34.2	31.8	31.3	29.8
71.5°	38.2	32.6	32.0	29.8	29.2	27.7
72°	35.8	30.5	29.9	27.7	27.2	25.7
72.5°	33.7	28.5	27.9	25.6	25.3	23.9
73°	31.5	26.8	26.0	23.9	23.5	22.2
73.5°	29.5	24.8	23.9	22.2	21.7	20.5
74°	27.4	22.8	22.1	20.4	19.9	18.8
74.5°	25.5	20.9	20.4	18.7	18.3	17.2
75°	23.6	19.2	18.6	17.1	16.7	15.6
75.5°	21.7	17.6	17.1	15.5	15.2	14.1
76°	19.9	16.0	15.5	14.1	13.7	12.8
76.5°	18.2	14.6	14.2	12.6	12.3	11.5
77°	16.5	13.2	12.7	11.4	11.2	10.5
77.5°	15.0	11.8	11.4	10.2	10.1	9.2
78°	13.6	10.6	10.2	9.0	8.8	8.4
78.5°	12.2	9.3	9.0	8.1	8.0	7.2
79°	10.8	8.4	8.1	7.2	7.0	6.6
79.5°	9.8	7.3	7.0	6.3	6.3	5.7
80°	8.8	6.6	6.2	5.5	5.4	5.4
80.5°	7.5	5.6	5.4	4.9	4.9	4.7
81°	6.8	5.1	4.8	4.4	4.4	4.1
81.5°	5.8	4.5	4.3	3.9	3.8	3.8
82°	5.4	3.9	3.8	3.7	3.7	3.4
82.5°	4.7	3.8	3.7	3.2	3.1	3.0
83°	4.0	3.2	3.0	2.8	2.8	2.7
83.5°	3.8	2.9	2.8	2.4	2.3	2.3
84°	3.5	2.6	2.3	2.2	2.2	2.2
84.5°	3.0	2.3	2.2	2.2	2.1	1.7
85°	2.7	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: P522102

CATALOG NUMBER: RLLV6069SE010WHDM-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)