

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: P522095

Luminaire Tested: **RLLV4069BLE40AWHDM-3500K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1809075A001)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RLLV4069BLE40AWHDM-3500K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (16) 3500K CCT, 93 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

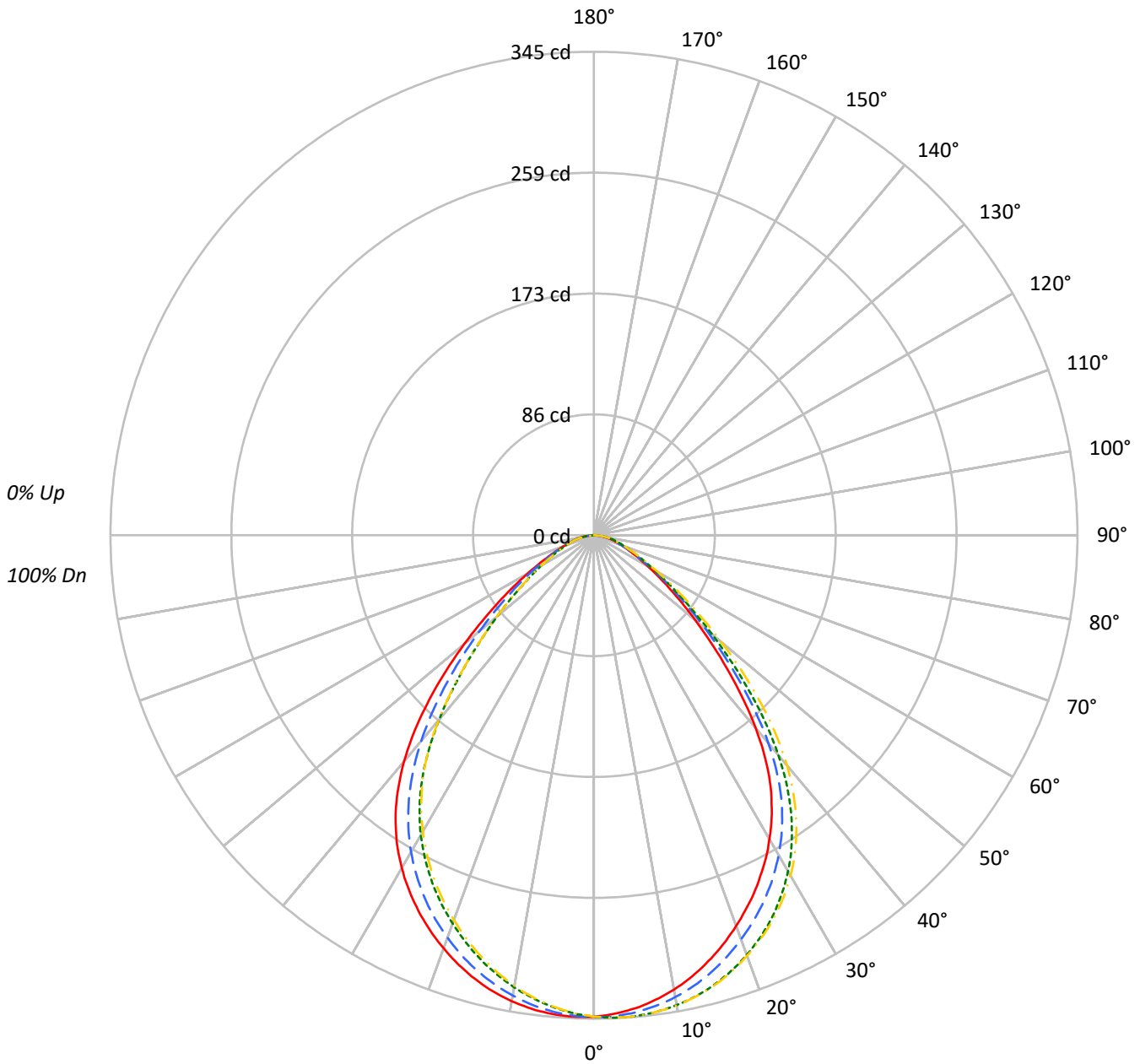
Lumens per Lamp: 644.87 (16 lamps)
Luminaire Lumens: 630.0 lumens
Efficiency: 6.1%
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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: P522095
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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	7	6	6	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5
2	6	6	6	5	6	6	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5
3	6	5	5	5	6	5	5	5	5	5	4	5	5	4	5	4	4	5	4	4	4
4	5	5	4	4	5	5	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4
5	5	4	4	4	5	4	4	4	4	4	3	4	4	3	4	4	3	4	4	3	3
6	5	4	4	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	4	3	3	3	3	3	3	3	3	3	3	3	3
8	4	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
9	4	3	3	2	4	3	3	2	3	3	2	3	3	2	3	3	2	3	3	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°	42479	42479	42479	42479
5°	42033	42715	42529	41921
10°	41314	42720	42368	41113
15°	40279	42480	41943	40075
20°	39023	41917	41246	38787
25°	37583	41006	40379	37270
30°	35749	39517	39132	35250
35°	33163	37071	37237	32273
40°	28928	33026	34010	27734
45°	23421	27284	29049	22285
50°	18209	21150	23227	17324
55°	14071	15988	17820	13424
60°	11049	12409	13570	10678
65°	8890	10002	10470	8803
70°	7589	8492	8311	7733
75°	6781	7879	7402	7306
80°	5907	7544	7046	6263
85°	3403	6381	5672	3262



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.3	5.1	0.3
10°-20°	90.7	14.4	0.9
20°-30°	131.6	20.9	1.3
30°-40°	143.8	22.8	1.4
40°-50°	113.1	18.0	1.1
50°-60°	65.1	10.3	0.6
60°-70°	33.1	5.3	0.3
70°-80°	16.3	2.6	0.2
80°-90°	4.1	0.6	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°	254.6	40.4	2.5
0°-40°	398.4	63.2	3.9
0°-60°	576.6	91.5	5.6
0°-90°	630.0	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°	630.0	100.0	6.1

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	344	344	344	344	344	
5°	339	344	343	338	339	32
15°	315	332	328	313	315	89
25°	276	301	296	273	276	127
35°	220	246	247	214	220	136
45°	134	156	166	128	134	104
55°	65	74	83	62	65	59
65°	30	34	36	30	30	31
75°	14	16	16	15	14	15
85°	2	4	4	2	2	3
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°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
0.5°	343.3	343.4	343.9	344.9	343.8	343.8	343.8	343.7	343.7	343.6	343.8
1°	343.0	343.3	343.9	344.9	344.1	344.1	344.0	343.9	343.8	343.6	343.7
1.5°	342.6	343.1	343.8	344.9	344.3	344.3	344.3	344.0	343.8	343.6	343.5
2°	342.2	342.8	343.7	344.9	344.5	344.5	344.5	344.1	343.9	343.6	343.3
2.5°	341.8	342.5	343.5	344.8	344.6	344.6	344.6	344.2	343.8	343.4	343.0
3°	341.3	342.2	343.2	344.7	344.6	344.7	344.6	344.2	343.7	343.1	342.7
3.5°	340.7	341.8	342.9	344.5	344.6	344.7	344.6	344.2	343.6	342.9	342.4
4°	340.1	341.3	342.5	344.3	344.6	344.7	344.6	344.1	343.4	342.6	342.1
4.5°	339.4	340.8	342.2	344.1	344.5	344.7	344.5	344.0	343.2	342.2	341.6
5°	338.8	340.2	341.7	343.7	344.3	344.6	344.3	343.8	342.8	341.9	341.1
5.5°	338.1	339.6	341.2	343.4	344.2	344.4	344.2	343.5	342.5	341.4	340.5
6°	337.3	339.0	340.6	342.9	343.9	344.2	344.0	343.2	342.2	340.9	339.9
6.5°	336.4	338.3	340.0	342.5	343.6	344.0	343.7	342.8	341.8	340.4	339.3
7°	335.5	337.5	339.3	342.0	343.3	343.6	343.3	342.4	341.4	339.7	338.7
7.5°	334.5	336.6	338.7	341.5	342.9	343.3	342.9	342.0	340.8	339.2	337.9
8°	333.6	335.9	338.0	340.8	342.4	342.9	342.5	341.5	340.2	338.5	337.1
8.5°	332.5	334.9	337.2	340.2	342.0	342.4	342.2	341.0	339.6	337.8	336.3
9°	331.4	333.9	336.4	339.5	341.5	342.0	341.7	340.4	339.0	337.0	335.5
9.5°	330.4	333.0	335.5	338.8	341.0	341.4	341.1	339.7	338.3	336.2	334.5
10°	329.2	331.9	334.6	338.0	340.4	340.8	340.5	339.1	337.6	335.3	333.6
10.5°	327.9	330.7	333.6	337.2	339.7	340.2	339.9	338.4	336.8	334.4	332.6
11°	326.7	329.6	332.6	336.4	339.1	339.5	339.3	337.7	336.0	333.5	331.5
11.5°	325.3	328.4	331.5	335.4	338.4	338.9	338.6	336.8	335.2	332.4	330.4
12°	324.0	327.2	330.5	334.4	337.6	338.1	337.8	336.1	334.2	331.4	329.3
12.5°	322.6	325.9	329.3	333.4	336.8	337.3	337.0	335.2	333.3	330.4	328.1
13°	321.1	324.7	328.2	332.3	336.0	336.5	336.3	334.2	332.3	329.3	326.9
13.5°	319.6	323.3	326.9	331.2	335.1	335.6	335.4	333.3	331.2	328.1	325.7
14°	318.1	321.9	325.6	330.1	334.1	334.7	334.4	332.3	330.2	326.9	324.4
14.5°	316.4	320.4	324.3	328.9	333.1	333.7	333.5	331.2	329.0	325.6	323.0
15°	314.8	319.0	322.9	327.7	332.0	332.7	332.4	330.2	327.8	324.4	321.7
15.5°	313.2	317.4	321.5	326.3	330.8	331.6	331.3	329.0	326.6	323.0	320.2
16°	311.5	315.8	320.0	325.0	329.7	330.6	330.2	327.9	325.3	321.6	318.8
16.5°	309.8	314.1	318.5	323.6	328.4	329.4	329.0	326.6	324.0	320.2	317.3
17°	308.0	312.5	317.0	322.2	327.3	328.1	327.8	325.3	322.6	318.7	315.8
17.5°	306.2	310.8	315.4	320.7	325.9	326.8	326.5	324.0	321.3	317.2	314.2
18°	304.4	309.1	313.7	319.3	324.6	325.4	325.2	322.6	319.8	315.6	312.6
18.5°	302.4	307.4	312.1	317.7	323.2	324.1	323.8	321.2	318.3	314.0	310.8
19°	300.6	305.5	310.4	316.2	321.8	322.7	322.4	319.7	316.8	312.4	309.1
19.5°	298.7	303.8	308.7	314.4	320.2	321.3	320.9	318.3	315.2	310.7	307.4
20°	296.7	301.9	306.9	312.8	318.7	319.7	319.4	316.7	313.6	309.1	305.5
20.5°	294.8	300.0	305.1	311.0	317.1	318.2	318.0	315.2	312.0	307.4	303.8
21°	292.8	298.2	303.3	309.4	315.5	316.5	316.4	313.5	310.5	305.5	302.0
21.5°	290.6	296.3	301.5	307.6	313.8	314.9	314.8	312.0	308.7	303.8	300.1
22°	288.6	294.2	299.5	305.7	312.1	313.2	313.2	310.4	307.1	302.1	298.2



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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°	286.5	292.3	297.6	304.0	310.4	311.4	311.4	308.7	305.2	300.2	296.3
23°	284.5	290.3	295.7	302.1	308.5	309.7	309.8	307.0	303.5	298.4	294.1
23.5°	282.3	288.1	293.7	300.0	306.6	307.8	308.0	305.2	301.7	296.4	292.1
24°	280.1	286.1	291.6	298.1	304.8	305.9	306.3	303.5	299.8	294.4	290.1
24.5°	277.9	284.0	289.6	296.0	302.8	304.0	304.5	301.6	298.0	292.3	287.9
25°	275.6	281.8	287.5	293.8	300.7	302.0	302.5	299.6	296.1	290.3	285.7
25.5°	273.3	279.4	285.2	291.7	298.6	299.9	300.6	297.7	294.0	288.1	283.4
26°	270.8	277.1	283.0	289.5	296.4	297.8	298.6	295.8	292.0	286.0	281.1
26.5°	268.5	274.8	280.8	287.2	294.1	295.6	296.4	293.7	290.0	283.9	278.7
27°	266.1	272.5	278.6	284.9	291.9	293.4	294.3	291.7	287.8	281.7	276.3
27.5°	263.6	270.1	276.2	282.5	289.6	291.1	292.2	289.6	285.7	279.3	273.9
28°	261.1	267.7	273.7	280.1	287.2	288.7	290.0	287.5	283.5	277.0	271.4
28.5°	258.5	265.1	271.3	277.6	284.8	286.2	287.7	285.2	281.3	274.6	269.0
29°	256.0	262.6	268.7	275.1	282.2	283.7	285.3	283.0	279.0	272.3	266.3
29.5°	253.2	260.0	266.2	272.5	279.5	281.1	282.9	280.7	276.5	269.9	263.6
30°	250.5	257.4	263.6	269.8	276.9	278.5	280.5	278.3	274.2	267.3	260.9
30.5°	247.7	254.7	260.9	267.0	274.2	275.8	278.0	275.9	271.7	264.8	258.2
31°	244.9	252.0	258.1	264.2	271.4	273.0	275.4	273.5	269.3	262.1	255.4
31.5°	242.0	249.2	255.4	261.4	268.6	270.1	272.8	270.8	266.7	259.3	252.5
32°	239.1	246.4	252.5	258.3	265.6	267.1	270.0	268.2	264.1	256.6	249.6
32.5°	236.1	243.4	249.6	255.3	262.5	264.0	267.2	265.4	261.4	253.8	246.5
33°	233.0	240.4	246.5	252.0	259.3	260.9	264.2	262.6	258.6	250.8	243.3
33.5°	229.7	237.2	243.4	248.8	256.0	257.7	261.2	259.8	255.8	247.9	240.1
34°	226.6	234.0	240.2	245.4	252.6	254.4	258.1	256.8	252.8	244.9	236.8
34.5°	223.3	230.7	236.9	242.0	249.2	250.9	255.0	253.8	249.8	241.9	233.5
35°	219.8	227.4	233.5	238.4	245.7	247.4	251.7	250.6	246.8	238.6	230.2
35.5°	216.2	223.9	230.0	234.8	242.0	243.6	248.4	247.6	243.6	235.4	226.6
36°	212.5	220.3	226.4	231.0	238.3	239.8	244.9	244.3	240.3	232.0	223.0
36.5°	208.7	216.5	222.6	227.3	234.4	236.1	241.4	240.9	236.9	228.6	219.3
37°	204.8	212.7	218.8	223.2	230.5	232.1	237.7	237.4	233.4	225.0	215.6
37.5°	201.0	208.8	214.9	219.1	226.4	228.0	234.0	233.8	229.9	221.4	211.8
38°	196.8	204.7	210.8	215.0	222.3	223.9	230.3	230.3	226.2	217.7	207.9
38.5°	192.6	200.7	206.6	210.6	218.1	219.7	226.5	226.4	222.5	213.7	204.0
39°	188.3	196.4	202.3	206.4	213.7	215.3	222.4	222.5	218.8	209.8	200.1
39.5°	183.9	192.1	198.0	201.9	209.3	210.7	218.4	218.6	214.9	205.8	195.9
40°	179.3	187.7	193.5	197.4	204.7	206.2	214.1	214.6	210.8	201.8	191.7
40.5°	174.9	183.1	189.1	192.8	200.1	201.6	209.8	210.4	206.7	197.5	187.5
41°	170.4	178.5	184.5	188.0	195.3	196.9	205.3	206.1	202.4	193.3	183.1
41.5°	165.8	173.9	179.8	183.2	190.6	192.2	200.9	201.9	198.2	189.1	178.8
42°	161.2	169.3	175.1	178.5	185.9	187.3	196.3	197.4	193.8	184.7	174.5
42.5°	156.5	164.6	170.4	173.7	181.0	182.3	191.6	192.8	189.4	180.1	170.1
43°	152.0	159.9	165.6	168.9	176.1	177.3	186.9	188.1	184.9	175.7	165.6
43.5°	147.4	155.3	160.9	164.1	171.1	172.3	182.0	183.5	180.3	171.0	161.2
44°	142.8	150.6	156.1	159.1	166.1	167.3	177.1	178.8	175.7	166.5	156.6
44.5°	138.4	146.0	151.3	154.2	161.2	162.2	172.2	174.0	170.9	162.0	152.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	134.0	141.4	146.8	149.5	156.1	157.3	167.2	169.3	166.2	157.5	147.9
45.5°	129.7	136.9	142.1	144.7	151.3	152.3	162.3	164.5	161.7	152.9	143.5
46°	125.4	132.6	137.5	140.1	146.5	147.3	157.3	159.5	157.0	148.2	139.2
46.5°	121.3	128.1	133.1	135.5	141.7	142.2	152.4	154.7	152.3	143.6	135.0
47°	117.1	123.9	128.5	130.8	136.8	137.4	147.4	150.0	147.6	139.1	130.6
47.5°	113.1	119.6	124.1	126.4	132.2	132.7	142.5	145.2	143.1	134.7	126.5
48°	109.3	115.5	119.9	121.8	127.5	127.9	137.7	140.5	138.5	130.3	122.4
48.5°	105.4	111.6	115.8	117.6	123.0	123.3	133.0	136.0	133.9	126.1	118.5
49°	101.6	107.7	111.8	113.3	118.6	118.8	128.2	131.4	129.5	121.8	114.4
49.5°	98.3	103.9	107.8	109.3	114.2	114.4	123.6	126.8	125.1	117.6	110.6
50°	94.7	100.3	104.0	105.2	110.0	110.1	119.0	122.2	120.8	113.4	106.9
50.5°	91.2	96.7	100.1	101.4	105.7	105.9	114.6	117.8	116.5	109.5	103.1
51°	87.9	93.2	96.4	97.6	101.7	101.7	110.2	113.5	112.3	105.6	99.5
51.5°	84.8	89.8	92.9	93.8	97.9	97.9	106.1	109.4	108.3	101.8	95.9
52°	81.8	86.5	89.5	90.2	94.1	94.1	101.8	105.2	104.3	98.2	92.6
52.5°	78.8	83.3	86.2	86.9	90.4	90.4	97.9	101.3	100.5	94.6	89.2
53°	75.9	80.2	82.9	83.6	87.1	86.9	94.1	97.4	96.8	91.0	86.0
53.5°	73.1	77.2	79.9	80.3	83.7	83.5	90.3	93.6	93.1	87.6	82.9
54°	70.4	74.4	76.7	77.2	80.4	80.2	86.8	89.9	89.6	84.4	79.9
54.5°	67.8	71.6	73.8	74.2	77.3	77.0	83.3	86.3	86.1	81.1	76.8
55°	65.3	68.9	71.0	71.3	74.2	73.9	79.9	82.9	82.7	78.1	74.0
55.5°	63.0	66.3	68.4	68.5	71.3	71.0	76.6	79.6	79.5	75.0	71.2
56°	60.6	63.8	65.6	65.9	68.6	68.4	73.5	76.3	76.3	72.2	68.6
56.5°	58.4	61.4	63.1	63.3	66.2	65.6	70.6	73.2	73.4	69.4	66.2
57°	56.1	59.0	60.7	60.9	63.5	63.0	67.8	70.2	70.5	66.9	63.6
57.5°	54.0	56.9	58.3	58.6	61.1	60.5	65.0	67.3	67.7	64.1	61.2
58°	52.0	54.7	56.0	56.3	58.7	58.2	62.3	64.6	64.9	61.6	58.7
58.5°	50.1	52.7	53.8	54.1	56.4	56.0	59.8	61.9	62.2	59.1	56.4
59°	48.3	50.6	51.8	51.9	54.4	53.8	57.4	59.4	59.7	56.8	54.4
59.5°	46.5	48.6	49.9	49.8	52.3	51.8	55.0	56.9	57.2	54.6	52.3
60°	44.7	46.8	47.8	47.9	50.2	49.9	52.9	54.6	54.9	52.4	50.1
60.5°	43.1	45.0	45.9	46.1	48.3	47.8	50.8	52.1	52.7	50.1	48.2
61°	41.5	43.3	44.1	44.4	46.5	46.0	48.6	50.1	50.4	48.2	46.3
61.5°	39.7	41.6	42.3	42.7	44.7	44.3	46.6	47.8	48.2	46.2	44.5
62°	38.2	39.9	40.8	41.0	43.1	42.5	44.7	45.8	46.2	44.3	42.8
62.5°	36.8	38.4	39.1	39.3	41.4	41.1	42.9	43.9	44.4	42.5	41.2
63°	35.6	36.8	37.6	37.8	39.8	39.4	41.2	42.1	42.5	40.9	39.4
63.5°	34.1	35.6	36.1	36.3	38.4	38.0	39.4	40.2	40.8	39.2	37.9
64°	32.9	34.2	34.6	34.9	37.0	36.4	37.9	38.5	38.9	37.6	36.5
64.5°	31.6	32.8	33.1	33.5	35.7	35.0	36.3	36.8	37.3	36.0	35.1
65°	30.4	31.5	31.9	32.4	34.2	33.6	34.9	35.3	35.8	34.5	33.7
65.5°	29.4	30.2	30.5	31.0	32.9	32.5	33.4	33.7	34.2	32.9	32.5
66°	28.2	29.2	29.4	29.9	31.8	31.2	32.2	32.4	32.7	31.7	31.1
66.5°	27.3	28.1	28.4	28.7	30.5	30.1	30.8	31.0	31.2	30.3	30.0
67°	26.1	27.0	27.4	27.5	29.4	29.0	29.6	29.7	30.0	29.3	29.0



TEST NUMBER: P522095

CATALOG NUMBER: RLLV4069BLE40AWHDM-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	25.2	25.9	26.0	26.6	28.4	27.8	28.4	28.6	28.6	27.9	27.6
68°	24.3	25.0	25.1	25.5	27.4	26.8	27.4	27.3	27.5	26.8	26.8
68.5°	23.4	24.1	24.2	24.4	26.2	25.8	26.1	26.1	26.2	25.6	25.7
69°	22.6	23.0	23.1	23.6	25.3	24.7	25.3	25.1	25.2	24.5	24.6
69.5°	21.7	22.3	22.2	22.6	24.3	24.1	24.2	24.2	24.2	23.8	23.9
70°	21.0	21.4	21.3	21.8	23.5	22.9	23.2	23.0	23.0	22.7	22.8
70.5°	20.1	20.7	20.6	20.9	22.6	22.2	22.4	22.1	22.1	21.7	21.9
71°	19.2	19.7	19.7	20.2	21.8	21.4	21.5	21.1	21.1	20.9	21.2
71.5°	18.6	19.0	19.1	19.4	21.1	20.7	20.7	20.4	20.3	20.1	20.6
72°	17.9	18.3	18.3	18.9	20.5	19.8	19.7	19.4	19.3	19.2	19.6
72.5°	17.4	17.5	17.5	18.1	19.7	19.1	19.0	18.8	18.7	18.5	19.0
73°	16.5	16.9	16.8	17.4	19.0	18.5	18.2	18.1	17.9	17.7	18.3
73.5°	15.9	16.2	16.2	16.6	18.4	17.7	17.5	17.4	17.3	17.1	17.5
74°	15.6	15.7	15.7	16.1	17.6	17.1	16.7	16.6	16.5	16.4	16.8
74.5°	15.1	15.1	15.1	15.7	17.3	16.5	16.1	15.9	15.7	15.8	16.3
75°	14.2	14.8	14.5	15.1	16.5	15.8	15.7	15.6	15.5	15.2	15.7
75.5°	13.6	14.0	14.1	14.4	15.7	15.3	14.9	14.9	14.9	14.7	15.1
76°	13.2	13.5	13.7	14.0	15.5	14.8	14.2	14.2	14.1	14.2	14.8
76.5°	12.5	12.9	12.9	13.6	14.8	14.2	13.9	13.8	13.6	13.8	14.0
77°	11.9	12.3	12.3	12.8	14.1	13.7	13.3	13.3	13.1	13.0	13.7
77.5°	11.3	11.8	11.9	12.2	13.6	13.0	12.6	12.7	12.5	12.4	12.9
78°	10.7	11.3	11.2	11.7	13.0	12.4	12.2	12.3	12.1	11.9	12.2
78.5°	10.3	10.6	10.7	10.9	12.3	11.9	11.8	11.8	11.6	11.3	11.8
79°	9.4	10.0	10.0	10.6	11.8	11.2	11.2	11.0	10.9	10.8	10.9
79.5°	9.0	9.4	9.3	9.9	11.2	10.7	10.6	10.7	10.5	10.2	10.5
80°	8.3	9.0	9.0	9.1	10.6	10.2	10.0	10.1	9.9	9.5	9.8
80.5°	7.5	8.3	8.2	8.7	10.0	9.6	9.5	9.4	9.2	9.1	9.0
81°	7.2	7.4	7.4	8.0	9.2	9.0	9.0	9.0	8.9	8.4	8.4
81.5°	6.5	7.2	7.2	7.2	8.9	8.5	8.4	8.4	8.1	7.6	7.8
82°	5.8	6.3	6.5	6.7	8.0	7.7	7.9	7.6	7.3	7.2	7.3
82.5°	5.4	5.7	5.8	6.1	7.3	7.3	7.2	7.3	7.1	6.5	6.6
83°	4.7	5.4	5.4	5.5	6.9	6.6	6.6	6.6	6.3	5.8	5.7
83.5°	4.1	4.6	4.7	4.9	6.1	5.9	6.0	5.8	5.6	5.5	5.5
84°	3.9	4.0	4.1	4.5	5.6	5.6	5.6	5.5	5.3	4.7	4.7
84.5°	3.1	3.7	3.9	3.9	4.9	4.9	4.9	4.8	4.6	4.1	4.0
85°	2.4	2.9	3.1	3.2	4.5	4.3	4.5	4.2	4.0	3.9	3.7
85.5°	2.2	2.2	2.4	2.8	3.9	3.9	3.9	3.9	3.7	3.1	2.9
86°	1.7	2.1	2.2	2.2	3.3	3.2	3.2	3.1	2.9	2.4	2.3
86.5°	1.5	1.4	1.6	2.0	2.8	2.8	2.7	2.4	2.3	2.2	2.1
87°	0.6	0.8	1.4	1.3	2.2	2.2	2.2	2.2	2.1	1.7	1.4
87.5°	0.5	0.5	0.6	0.7	2.0	2.0	1.9	1.6	1.4	1.5	0.9
88°	0.0	0.0	0.5	0.5	1.4	1.4	1.4	1.5	0.9	0.6	0.5
88.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.6	0.5	0.5	0.0
89°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.3	0.0	0.3
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: P522095

CATALOG NUMBER: RLLV4069BLE40AWHDM-3500K-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	0.3	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522095

CATALOG NUMBER: RLLV4069BLE40AWHDM-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	343.7	343.7	343.7	343.7	343.7	343.7
0.5°	344.5	343.1	343.1	343.0	343.1	343.3
1°	344.3	342.8	342.7	342.6	342.7	343.0
1.5°	344.0	342.3	342.2	342.2	342.3	342.6
2°	343.6	341.9	341.7	341.7	341.9	342.2
2.5°	343.3	341.4	341.2	341.1	341.4	341.8
3°	342.8	340.8	340.6	340.4	340.8	341.3
3.5°	342.3	340.1	339.9	339.7	340.1	340.7
4°	341.9	339.4	339.2	339.1	339.4	340.1
4.5°	341.3	338.7	338.5	338.2	338.8	339.4
5°	340.7	337.9	337.6	337.4	338.0	338.8
5.5°	340.0	337.0	336.7	336.5	337.1	338.1
6°	339.3	336.2	335.9	335.6	336.3	337.3
6.5°	338.6	335.2	334.9	334.6	335.4	336.4
7°	337.7	334.2	333.9	333.6	334.4	335.5
7.5°	336.9	333.2	332.8	332.5	333.3	334.5
8°	336.1	332.1	331.7	331.4	332.2	333.6
8.5°	335.1	331.0	330.6	330.3	331.0	332.5
9°	334.1	330.0	329.3	329.1	329.9	331.4
9.5°	333.1	328.8	328.1	327.9	328.7	330.4
10°	332.0	327.6	326.9	326.6	327.5	329.2
10.5°	330.9	326.3	325.5	325.1	326.2	327.9
11°	329.8	325.0	324.2	323.8	324.9	326.7
11.5°	328.6	323.7	322.8	322.3	323.6	325.3
12°	327.5	322.2	321.4	320.9	322.1	324.0
12.5°	326.1	320.9	319.9	319.4	320.6	322.6
13°	324.9	319.4	318.5	317.8	319.2	321.1
13.5°	323.5	317.9	316.9	316.3	317.7	319.6
14°	322.1	316.4	315.3	314.5	316.1	318.1
14.5°	320.6	314.8	313.6	312.9	314.4	316.4
15°	319.1	313.2	312.0	311.1	312.8	314.8
15.5°	317.6	311.4	310.3	309.4	311.0	313.2
16°	316.1	309.8	308.5	307.7	309.2	311.5
16.5°	314.4	308.0	306.7	305.8	307.5	309.8
17°	312.8	306.2	304.9	303.9	305.6	308.0
17.5°	311.0	304.4	303.1	302.1	303.8	306.2
18°	309.3	302.5	301.2	300.1	302.0	304.4
18.5°	307.6	300.6	299.2	298.1	300.0	302.4
19°	305.7	298.8	297.3	296.2	298.1	300.6
19.5°	304.0	296.8	295.3	294.1	296.1	298.7
20°	302.1	294.9	293.3	292.1	294.0	296.7
20.5°	300.2	292.9	291.3	290.1	292.1	294.8
21°	298.2	290.8	289.3	288.0	290.1	292.8
21.5°	296.3	288.7	287.2	285.9	287.9	290.6
22°	294.2	286.7	285.0	283.7	285.9	288.6



TEST NUMBER: P522095

CATALOG NUMBER: RLLV4069BLE40AWHDM-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	292.1	284.6	282.9	281.6	283.7	286.5
23°	290.2	282.4	280.6	279.4	281.5	284.5
23.5°	287.9	280.2	278.4	277.1	279.2	282.3
24°	285.8	277.9	276.2	274.8	277.0	280.1
24.5°	283.6	275.6	273.8	272.5	274.7	277.9
25°	281.3	273.3	271.5	270.1	272.4	275.6
25.5°	278.9	270.7	269.2	267.7	270.0	273.3
26°	276.5	268.3	266.7	265.1	267.6	270.8
26.5°	274.2	265.8	264.2	262.7	265.1	268.5
27°	271.7	263.4	261.7	260.2	262.6	266.1
27.5°	269.2	260.8	259.1	257.7	260.1	263.6
28°	266.6	258.1	256.6	255.0	257.6	261.1
28.5°	264.0	255.4	253.9	252.3	255.0	258.5
29°	261.3	252.7	251.2	249.6	252.3	256.0
29.5°	258.5	249.8	248.5	246.9	249.6	253.2
30°	255.8	247.0	245.8	244.1	246.8	250.5
30.5°	252.8	244.1	242.9	241.3	244.0	247.7
31°	249.9	241.0	240.1	238.4	241.2	244.9
31.5°	246.9	238.0	237.1	235.4	238.3	242.0
32°	243.8	234.8	234.1	232.5	235.4	239.1
32.5°	240.6	231.6	231.0	229.4	232.3	236.1
33°	237.3	228.2	227.8	226.2	229.2	233.0
33.5°	234.0	224.8	224.6	223.0	226.0	229.7
34°	230.6	221.4	221.2	219.8	222.7	226.6
34.5°	227.1	217.7	217.8	216.4	219.4	223.3
35°	223.5	213.9	214.3	213.0	216.1	219.8
35.5°	219.8	210.2	210.6	209.4	212.5	216.2
36°	216.0	206.2	207.0	205.6	208.9	212.5
36.5°	212.1	202.2	203.2	201.8	205.1	208.7
37°	208.1	198.1	199.2	198.0	201.3	204.8
37.5°	204.2	193.9	195.2	194.0	197.2	201.0
38°	200.1	189.7	191.1	189.9	193.2	196.8
38.5°	195.9	185.3	187.1	185.6	188.9	192.6
39°	191.6	180.9	182.8	181.3	184.7	188.3
39.5°	187.5	176.4	178.4	176.8	180.4	183.9
40°	183.1	171.9	173.9	172.4	176.0	179.3
40.5°	178.8	167.5	169.4	167.9	171.4	174.9
41°	174.4	163.0	164.7	163.6	166.9	170.4
41.5°	170.0	158.5	160.2	159.0	162.3	165.8
42°	165.4	154.0	155.8	154.6	157.9	161.2
42.5°	160.9	149.4	151.2	150.1	153.4	156.5
43°	156.4	144.8	146.7	145.5	149.0	152.0
43.5°	152.0	140.4	142.2	141.1	144.5	147.4
44°	147.5	136.0	137.7	136.7	139.9	142.8
44.5°	143.2	131.7	133.3	132.3	135.6	138.4



TEST NUMBER: P522095

CATALOG NUMBER: RLLV4069BLE40AWHDM-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	138.9	127.5	128.9	128.0	131.1	134.0
45.5°	134.6	123.3	124.7	123.8	126.9	129.7
46°	130.3	119.3	120.6	119.7	122.6	125.4
46.5°	126.0	115.2	116.6	115.6	118.6	121.3
47°	121.8	111.2	112.6	111.6	114.5	117.1
47.5°	118.0	107.5	108.8	107.7	110.5	113.1
48°	114.0	103.8	105.0	104.1	106.8	109.3
48.5°	110.2	100.3	101.3	100.5	103.1	105.4
49°	106.5	96.8	97.8	97.0	99.5	101.6
49.5°	102.8	93.3	94.3	93.6	96.0	98.3
50°	99.2	90.1	91.0	90.3	92.8	94.7
50.5°	95.8	86.9	87.7	87.0	89.4	91.2
51°	92.4	83.8	84.6	83.9	86.1	87.9
51.5°	89.1	80.8	81.6	80.9	83.0	84.8
52°	86.0	77.9	78.5	78.0	79.9	81.8
52.5°	82.9	75.1	75.8	75.2	77.0	78.8
53°	79.8	72.4	73.0	72.5	74.3	75.9
53.5°	76.9	69.8	70.3	69.9	71.6	73.1
54°	74.0	67.3	67.8	67.3	69.0	70.4
54.5°	71.4	64.7	65.3	64.9	66.5	67.8
55°	68.8	62.3	62.9	62.5	64.0	65.3
55.5°	66.4	60.2	60.5	60.2	61.6	63.0
56°	63.8	58.0	58.4	58.1	59.4	60.6
56.5°	61.5	55.9	56.3	55.9	57.2	58.4
57°	59.2	53.8	54.4	53.8	55.3	56.1
57.5°	57.0	51.9	52.5	51.9	53.0	54.0
58°	55.0	50.0	50.4	50.0	51.2	52.0
58.5°	53.0	48.2	48.5	48.2	49.4	50.1
59°	50.9	46.5	46.8	46.6	47.4	48.3
59.5°	49.1	44.8	45.1	44.8	45.7	46.5
60°	47.2	43.2	43.6	43.2	44.1	44.7
60.5°	45.5	41.6	41.9	41.6	42.6	43.1
61°	43.8	40.1	40.6	40.1	41.1	41.5
61.5°	42.2	38.7	39.1	38.7	39.3	39.7
62°	40.6	37.4	37.7	37.4	37.9	38.2
62.5°	39.2	36.1	36.2	36.0	36.4	36.8
63°	37.8	34.7	35.1	34.6	35.2	35.6
63.5°	36.4	33.4	33.8	33.4	34.0	34.1
64°	34.9	32.4	32.7	32.3	32.7	32.9
64.5°	33.6	31.2	31.5	31.2	31.5	31.6
65°	32.4	30.1	30.5	30.1	30.3	30.4
65.5°	31.2	29.3	29.4	29.1	29.3	29.4
66°	30.1	28.1	28.4	28.0	28.3	28.2
66.5°	29.3	27.4	27.5	27.2	27.3	27.3
67°	28.0	26.2	26.5	26.1	26.2	26.1



TEST NUMBER: P522095

CATALOG NUMBER: RLLV4069BLE40AWHDM-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	27.2	25.5	25.6	25.4	25.4	25.2
68°	26.0	24.4	24.7	24.3	24.3	24.3
68.5°	25.3	23.8	24.1	23.6	23.6	23.4
69°	24.3	22.8	23.1	22.7	22.6	22.6
69.5°	23.5	22.2	22.5	22.0	21.9	21.7
70°	22.7	21.4	21.6	21.2	21.2	21.0
70.5°	22.0	20.9	20.9	20.7	20.6	20.1
71°	21.1	20.0	20.1	19.8	19.7	19.2
71.5°	20.4	19.3	19.4	19.2	19.0	18.6
72°	19.6	18.6	19.0	18.5	18.4	17.9
72.5°	19.1	18.2	18.3	17.7	17.6	17.4
73°	18.4	17.5	17.5	17.3	17.2	16.5
73.5°	17.7	16.8	16.9	16.6	16.4	15.9
74°	17.4	16.4	16.3	15.9	15.7	15.6
74.5°	16.5	15.8	15.7	15.5	15.4	15.1
75°	15.9	15.3	15.2	15.0	14.8	14.2
75.5°	15.7	14.8	14.9	14.2	14.1	13.6
76°	15.0	14.1	14.1	13.7	13.5	13.2
76.5°	14.2	13.4	13.5	13.1	12.9	12.5
77°	13.6	12.7	12.7	12.4	12.2	11.9
77.5°	13.1	12.0	12.1	11.8	11.7	11.3
78°	12.4	11.4	11.5	11.0	11.0	10.7
78.5°	11.9	10.7	10.7	10.6	10.5	10.3
79°	11.0	10.0	10.0	9.8	9.7	9.4
79.5°	10.5	9.2	9.4	9.1	9.0	9.0
80°	9.8	8.8	8.9	8.5	8.4	8.3
80.5°	9.1	8.1	8.1	7.6	7.8	7.5
81°	8.6	7.3	7.2	7.3	7.2	7.2
81.5°	7.6	6.9	6.7	6.5	6.6	6.5
82°	7.3	5.9	6.0	5.7	5.7	5.8
82.5°	6.5	5.6	5.5	5.0	5.4	5.4
83°	5.7	4.7	4.7	4.5	4.6	4.7
83.5°	5.2	4.0	4.0	3.9	4.0	4.1
84°	4.6	3.7	3.7	3.2	3.7	3.9
84.5°	4.0	2.9	2.9	2.7	2.9	3.1
85°	3.3	2.3	2.2	2.2	2.2	2.4
85.5°	2.8	2.0	2.0	1.6	2.1	2.2
86°	2.2	1.4	1.4	1.4	1.4	1.7
86.5°	1.6	0.9	0.8	0.7	1.0	1.5
87°	1.3	0.6	0.5	0.5	0.5	0.6
87.5°	0.7	0.0	0.0	0.0	0.3	0.5
88°	0.5	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0
89°	0.3	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: P522095

CATALOG NUMBER: RLLV4069BLE40AWHDM-3500K-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)