

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: PORTFOLIO

Report Number: P857765

Luminaire Tested: **LX4C35D010 EX4C359035 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C35D010 EX4C359035 4LBSWNH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

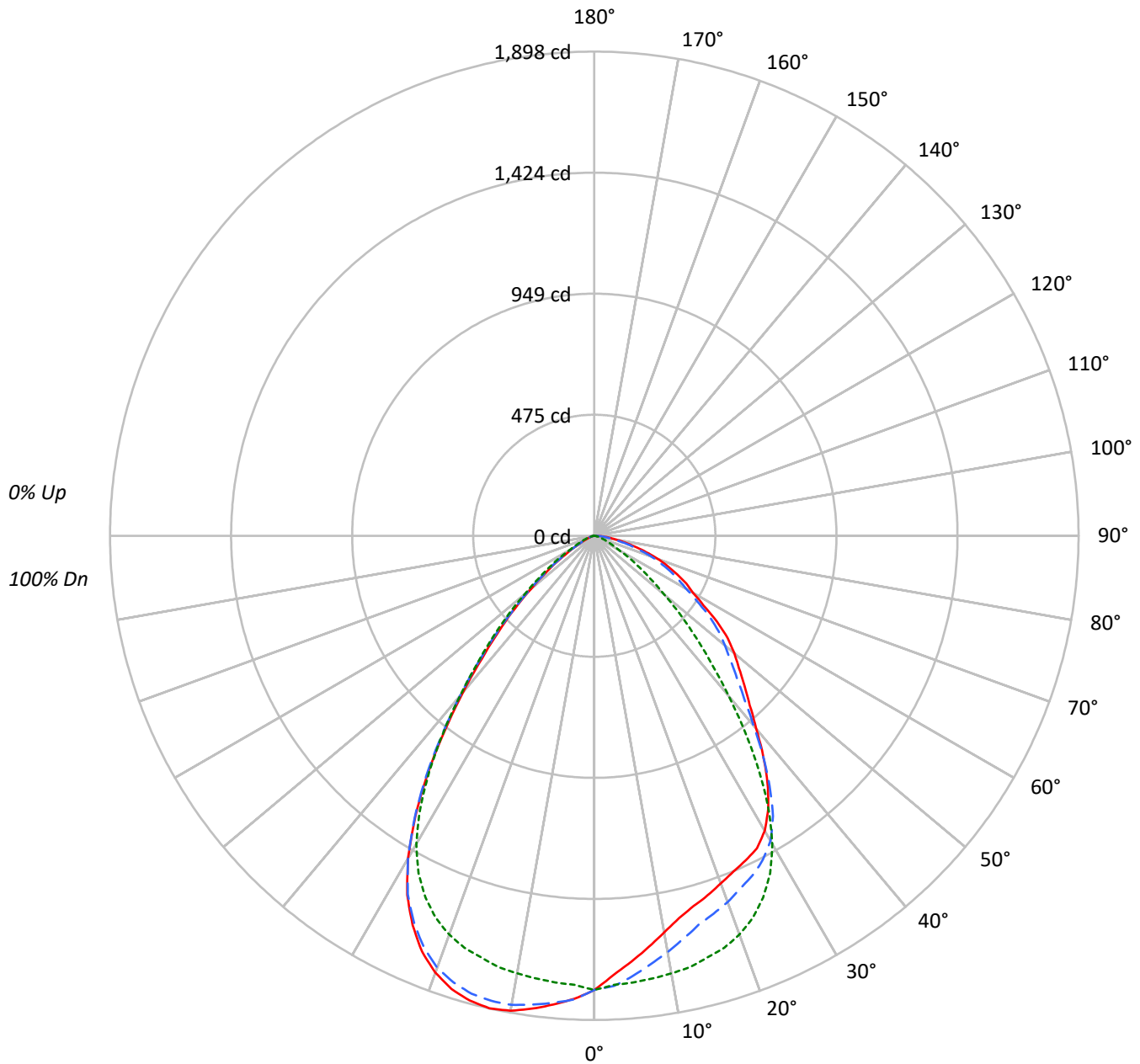
Lumens per Lamp: N/A
Luminaire Lumens: 3121.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
Input Voltage (V):
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: P857765

CATALOG NUMBER: LX4C35D010 EX4C359035 4LBSWNH

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	108	104	101	109	106	103	100		101	99	97			98	96	94			94
2	104	97	92	87	101	95	90	86		92	88	84			89	85	82			86
3	96	88	81	76	94	86	80	75		83	78	74			81	76	73			78
4	90	80	72	67	88	78	72	66		76	70	66			74	69	65			72
5	83	73	65	60	82	72	65	59		70	63	59			68	62	58			66
6	78	67	59	53	76	66	59	53		64	58	53			62	57	52			61
7	73	61	54	48	71	61	53	48		59	53	48			58	52	48			56
8	68	57	49	44	67	56	49	44		55	48	44			54	48	43			52
9	64	52	45	40	63	52	45	40		51	44	40			50	44	40			49
10	61	49	42	37	59	48	42	37		47	41	37			47	41	37			46

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	218741	218741	218741
5°	206553	216740	227493
10°	196928	217237	235850
15°	191137	217706	239875
20°	189570	217483	238178
25°	190345	212115	228286
30°	189438	197893	207001
35°	177557	168963	170673
40°	158225	130993	128058
45°	144709	97660	91683
50°	136808	68423	61829
55°	125814	46200	38811
60°	109929	27052	21426
65°	104069	17325	12006
70°	94793	12356	7435
75°	78415	8686	5459
80°	61693	4882	3254
85°	54974	3242	0



TEST NUMBER: P857765

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	5.4
10°-20°	482.6	15.5
20°-30°	715.4	22.9
30°-40°	716.4	23.0
40°-50°	500.7	16.0
50°-60°	297.9	9.5
60°-70°	155.5	5.0
70°-80°	69.1	2.2
80°-90°	15.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1366.3	43.8
0°-40°	2082.7	66.7
0°-60°	2881.3	92.3
0°-90°	3121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3121.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1780	1780	1780	1780	1780	
5°	1675	1732	1758	1838	1845	157
15°	1503	1579	1712	1858	1886	426
25°	1404	1468	1565	1673	1684	647
35°	1184	1198	1127	1147	1138	734
45°	833	792	562	544	528	647
55°	587	551	216	188	181	521
65°	358	328	60	44	41	354
75°	165	144	18	12	12	179
85°	39	30	2	2	0	44
90°	0	0	0	0	0	



TEST NUMBER: P857765

CATALOG NUMBER: LX4C35D010 EX4C359035 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5
2.5°	1723.1	1743.8	1723.1	1730.0	1757.5	1732.3	1746.0	1746.0	1739.2	1755.2	1766.7
5°	1674.9	1695.6	1674.9	1684.1	1713.9	1688.7	1704.8	1700.2	1702.5	1716.3	1732.3
7.5°	1626.8	1642.8	1624.4	1635.9	1663.5	1642.8	1656.5	1656.5	1658.9	1679.5	1693.3
10°	1578.6	1592.3	1578.6	1587.7	1617.6	1599.3	1608.4	1610.7	1617.6	1635.9	1656.5
12.5°	1534.9	1546.5	1532.7	1546.5	1571.6	1553.3	1564.8	1567.1	1574.0	1594.7	1617.6
15°	1502.8	1514.3	1500.6	1512.0	1534.9	1521.2	1530.4	1534.9	1539.5	1557.9	1578.6
17.5°	1477.7	1486.8	1475.3	1489.1	1507.4	1491.4	1505.2	1505.2	1512.0	1530.4	1553.3
20°	1450.0	1459.2	1450.0	1461.6	1482.2	1468.5	1479.9	1479.9	1486.8	1507.4	1528.1
22.5°	1424.9	1429.4	1424.9	1434.0	1454.6	1443.2	1450.0	1452.4	1459.2	1477.7	1496.0
25°	1404.2	1413.3	1408.8	1417.9	1431.7	1420.3	1427.1	1429.4	1436.3	1452.4	1468.5
27.5°	1381.2	1385.8	1381.2	1392.7	1404.2	1395.0	1401.9	1399.6	1404.2	1417.9	1431.7
30°	1335.4	1340.0	1340.0	1346.8	1356.0	1351.5	1358.3	1351.5	1356.0	1367.5	1381.2
32.5°	1268.8	1271.1	1273.4	1280.3	1287.2	1280.3	1284.9	1284.9	1284.9	1294.1	1303.3
35°	1183.9	1188.5	1186.2	1190.8	1197.7	1195.4	1195.4	1193.1	1188.5	1193.1	1197.7
37.5°	1087.6	1080.6	1080.6	1087.6	1092.2	1083.0	1087.6	1083.0	1083.0	1085.2	1085.2
40°	986.6	979.7	986.6	988.9	991.2	986.6	984.3	979.7	972.8	975.1	970.6
42.5°	901.8	897.1	899.4	899.4	901.8	897.1	899.4	890.2	883.3	878.7	871.9
45°	832.9	826.0	832.9	828.3	828.3	826.0	823.7	819.1	809.9	803.1	791.6
47.5°	768.6	768.6	770.9	770.9	770.9	766.3	766.3	757.1	748.0	738.8	722.8
50°	715.8	711.3	720.4	720.4	713.6	711.3	713.6	702.1	695.2	683.7	667.6
52.5°	658.5	658.5	660.8	660.8	658.5	653.9	656.2	647.0	640.1	628.7	612.6
55°	587.4	582.8	589.7	589.7	587.4	585.1	587.4	580.5	573.6	564.5	550.6
57.5°	507.1	504.8	509.3	511.7	507.1	507.1	509.3	502.5	500.2	491.0	477.2
60°	447.4	445.1	449.7	452.0	447.4	447.4	447.4	438.2	433.6	424.4	415.3
62.5°	406.1	403.8	408.4	406.1	403.8	401.5	403.8	394.7	390.1	380.9	371.7
65°	358.0	360.2	362.6	362.6	360.2	358.0	358.0	353.4	348.8	339.6	328.1
67.5°	312.0	312.0	314.3	316.6	314.3	314.3	314.3	307.4	302.8	296.0	282.2
70°	263.9	261.6	268.5	268.5	263.9	266.1	263.9	261.6	257.0	247.8	236.4
72.5°	213.3	213.3	215.7	215.7	213.3	213.3	213.3	211.1	204.2	199.6	188.2
75°	165.2	165.2	167.5	169.8	165.2	165.2	167.5	162.9	158.3	151.5	144.5
77.5°	123.9	121.6	123.9	123.9	121.6	121.6	121.6	119.4	117.0	110.1	103.3
80°	87.2	84.9	87.2	87.2	87.2	84.9	84.9	82.6	82.6	78.0	71.1
82.5°	59.6	57.4	59.6	59.6	59.6	57.4	57.4	57.4	55.0	52.8	48.2
85°	39.0	36.7	36.7	39.0	36.7	36.7	36.7	36.7	34.4	32.1	29.9
87.5°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	16.1	16.1	16.1	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P857765

CATALOG NUMBER: LX4C35D010 EX4C359035 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5
2.5°	1757.5	1753.0	1766.7	1762.1	1764.4	1753.0	1771.3	1762.1	1773.6	1762.1	1785.1
5°	1727.7	1723.1	1743.8	1741.4	1743.8	1734.6	1755.2	1753.0	1766.7	1757.5	1782.7
7.5°	1695.6	1691.0	1713.9	1716.3	1720.9	1711.7	1739.2	1739.2	1753.0	1750.6	1778.1
10°	1658.9	1661.1	1684.1	1688.7	1697.9	1693.3	1718.5	1725.4	1743.8	1741.4	1775.9
12.5°	1624.4	1624.4	1654.3	1663.5	1670.3	1668.1	1697.9	1707.1	1727.7	1732.3	1764.4
15°	1590.1	1592.3	1619.8	1633.6	1642.8	1640.5	1672.6	1684.1	1709.3	1711.7	1750.6
17.5°	1562.5	1560.2	1590.1	1601.5	1615.3	1613.0	1647.4	1661.1	1686.4	1693.3	1730.0
20°	1539.5	1537.3	1564.8	1578.6	1587.7	1585.5	1619.8	1635.9	1658.9	1663.5	1700.2
22.5°	1512.0	1507.4	1534.9	1546.5	1555.6	1553.3	1583.2	1594.7	1617.6	1622.2	1656.5
25°	1479.9	1475.3	1500.6	1507.4	1514.3	1509.8	1534.9	1541.9	1560.2	1564.8	1599.3
27.5°	1443.2	1431.7	1452.4	1452.4	1457.0	1450.0	1468.5	1475.3	1491.4	1491.4	1523.5
30°	1385.8	1369.8	1381.2	1379.0	1381.2	1372.1	1383.6	1385.8	1397.3	1395.0	1417.9
32.5°	1305.5	1282.6	1289.5	1282.6	1275.7	1262.0	1275.7	1271.1	1280.3	1271.1	1291.7
35°	1195.4	1172.5	1170.1	1161.0	1154.1	1142.6	1142.6	1131.2	1133.4	1126.6	1140.4
37.5°	1076.1	1046.3	1041.7	1023.4	1011.8	998.1	998.1	988.9	977.4	972.8	984.3
40°	959.0	926.9	915.5	885.7	874.1	860.4	851.2	839.8	835.2	816.8	826.0
42.5°	858.1	823.7	798.5	766.3	754.9	734.2	720.4	706.7	699.8	679.1	688.3
45°	773.2	731.9	704.4	663.0	647.0	624.1	603.4	587.4	571.3	562.1	557.5
47.5°	702.1	658.5	621.8	575.9	550.6	530.0	502.5	486.4	465.8	454.3	447.4
50°	642.5	594.2	553.0	500.2	475.0	452.0	419.8	394.7	376.3	358.0	353.4
52.5°	589.7	539.2	493.3	433.6	403.8	376.3	341.9	314.3	298.2	277.6	275.3
55°	527.7	484.2	433.6	371.7	341.9	314.3	277.6	250.1	229.4	215.7	211.1
57.5°	461.2	419.8	371.7	309.8	279.9	250.1	215.7	190.4	172.1	160.6	158.3
60°	399.3	360.2	314.3	252.4	222.5	197.3	160.6	135.4	119.4	110.1	105.5
62.5°	353.4	316.6	273.1	215.7	188.2	162.9	128.5	105.5	91.7	82.6	78.0
65°	309.8	273.1	234.0	181.2	158.3	135.4	103.3	82.6	68.8	59.6	55.0
67.5°	263.9	231.8	195.0	151.5	128.5	110.1	82.6	64.2	52.8	45.9	41.3
70°	217.9	188.2	158.3	121.6	105.5	87.2	64.2	50.5	39.0	34.4	29.9
72.5°	172.1	149.1	123.9	94.1	80.3	68.8	50.5	36.7	29.9	25.3	20.7
75°	128.5	112.4	91.7	71.1	59.6	50.5	36.7	27.5	22.9	18.3	16.1
77.5°	91.7	78.0	64.2	48.2	43.6	36.7	25.3	20.7	16.1	11.5	9.2
80°	62.0	55.0	43.6	34.4	27.5	25.3	18.3	13.8	9.2	6.9	6.9
82.5°	41.3	34.4	27.5	20.7	18.3	16.1	11.5	9.2	6.9	4.6	4.6
85°	25.3	20.7	16.1	11.5	11.5	9.2	6.9	4.6	2.3	2.3	2.3
87.5°	11.5	9.2	6.9	4.6	4.6	2.3	2.3	2.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P857765

CATALOG NUMBER: LX4C35D010 EX4C359035 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5
2.5°	1803.4	1789.7	1780.5	1791.9	1796.5	1789.7	1796.5	1808.0	1819.5	1821.8	1789.7
5°	1805.8	1791.9	1787.3	1801.1	1803.4	1801.1	1808.0	1824.1	1837.9	1842.5	1810.3
7.5°	1805.8	1796.5	1794.2	1810.3	1812.6	1810.3	1821.8	1840.1	1853.9	1863.1	1830.9
10°	1801.1	1796.5	1798.8	1812.6	1817.2	1817.2	1833.3	1853.9	1867.6	1876.8	1844.7
12.5°	1794.2	1794.2	1794.2	1810.3	1814.9	1817.2	1830.9	1858.5	1867.6	1881.4	1849.3
15°	1782.7	1782.7	1782.7	1798.8	1805.8	1805.8	1821.8	1847.0	1858.5	1872.2	1840.1
17.5°	1762.1	1762.1	1764.4	1778.1	1785.1	1785.1	1801.1	1828.7	1835.5	1851.6	1819.5
20°	1732.3	1732.3	1734.6	1748.4	1755.2	1750.6	1771.3	1794.2	1801.1	1814.9	1782.7
22.5°	1688.7	1688.7	1688.7	1702.5	1707.1	1704.8	1725.4	1746.0	1746.0	1764.4	1730.0
25°	1624.4	1629.0	1624.4	1638.2	1642.8	1640.5	1658.9	1677.2	1672.6	1693.3	1658.9
27.5°	1546.5	1544.1	1544.1	1555.6	1555.6	1553.3	1567.1	1587.7	1583.2	1596.9	1564.8
30°	1438.6	1445.5	1434.0	1450.0	1443.2	1438.6	1447.8	1466.1	1459.2	1470.7	1445.5
32.5°	1314.7	1305.5	1305.5	1305.5	1310.1	1298.7	1307.8	1317.0	1310.1	1321.6	1294.1
35°	1151.8	1154.1	1147.2	1149.5	1151.8	1138.0	1147.2	1156.4	1147.2	1154.1	1128.9
37.5°	988.9	991.2	975.1	984.3	975.1	970.6	979.7	984.3	975.1	982.0	954.5
40°	826.0	821.4	819.1	819.1	821.4	809.9	816.8	823.7	816.8	821.4	796.2
42.5°	683.7	681.5	676.9	679.1	672.2	670.0	672.2	679.1	672.2	676.9	658.5
45°	559.8	555.2	548.4	550.6	550.6	539.2	546.0	550.6	543.8	546.0	530.0
47.5°	445.1	438.2	438.2	435.9	435.9	431.4	438.2	435.9	429.0	433.6	417.6
50°	346.5	341.9	341.9	341.9	341.9	334.9	337.3	341.9	334.9	334.9	325.8
52.5°	270.7	263.9	259.3	259.3	259.3	257.0	257.0	259.3	252.4	252.4	250.1
55°	204.2	201.9	195.0	195.0	195.0	188.2	190.4	190.4	188.2	188.2	181.2
57.5°	151.5	144.5	139.9	139.9	135.4	135.4	133.1	135.4	130.8	130.8	126.2
60°	100.9	96.3	94.1	91.7	91.7	89.5	91.7	89.5	89.5	87.2	84.9
62.5°	73.4	68.8	64.2	64.2	64.2	62.0	62.0	62.0	62.0	62.0	59.6
65°	52.8	48.2	48.2	45.9	45.9	43.6	43.6	43.6	43.6	43.6	41.3
67.5°	36.7	34.4	32.1	32.1	32.1	32.1	32.1	32.1	29.9	29.9	29.9
70°	27.5	25.3	22.9	22.9	22.9	22.9	22.9	20.7	22.9	22.9	20.7
72.5°	18.3	18.3	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
75°	13.8	13.8	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
77.5°	9.2	9.2	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
80°	6.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	4.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P857765

CATALOG NUMBER: LX4C35D010 EX4C359035 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5
2.5°	1824.1	1821.8	1817.2	1824.1	1805.8	1798.8	1796.5	1817.2
5°	1849.3	1844.7	1844.7	1851.6	1830.9	1826.4	1821.8	1844.7
7.5°	1872.2	1867.6	1867.6	1874.6	1856.2	1851.6	1847.0	1870.0
10°	1886.0	1886.0	1886.0	1890.6	1874.6	1870.0	1867.6	1890.6
12.5°	1892.9	1892.9	1890.6	1899.7	1879.2	1879.2	1874.6	1897.5
15°	1883.7	1883.7	1883.7	1890.6	1872.2	1867.6	1867.6	1886.0
17.5°	1860.8	1860.8	1858.5	1865.4	1844.7	1844.7	1842.5	1863.1
20°	1826.4	1826.4	1821.8	1830.9	1810.3	1803.4	1801.1	1821.8
22.5°	1771.3	1769.0	1766.7	1771.3	1753.0	1748.4	1746.0	1764.4
25°	1700.2	1697.9	1693.3	1697.9	1677.2	1670.3	1670.3	1684.1
27.5°	1599.3	1599.3	1592.3	1599.3	1576.2	1574.0	1571.6	1587.7
30°	1475.3	1466.1	1461.6	1470.7	1447.8	1447.8	1443.2	1459.2
32.5°	1321.6	1312.4	1310.1	1314.7	1294.1	1287.2	1296.3	1305.5
35°	1145.0	1147.2	1138.0	1138.0	1119.7	1121.9	1124.3	1138.0
37.5°	975.1	970.6	968.2	970.6	956.8	952.2	947.6	961.4
40°	816.8	805.3	803.1	803.1	791.6	789.3	791.6	798.5
42.5°	667.6	665.4	656.2	660.8	649.3	653.9	651.6	651.6
45°	539.2	541.4	532.3	539.2	530.0	523.1	523.1	527.7
47.5°	426.8	426.8	424.4	424.4	417.6	419.8	415.3	422.2
50°	330.4	330.4	325.8	328.1	323.5	323.5	321.2	323.5
52.5°	252.4	250.1	250.1	247.8	243.2	245.5	247.8	243.2
55°	183.6	185.8	181.2	183.6	179.0	181.2	179.0	181.2
57.5°	126.2	128.5	123.9	128.5	123.9	126.2	123.9	123.9
60°	87.2	87.2	84.9	87.2	84.9	84.9	82.6	87.2
62.5°	59.6	59.6	59.6	59.6	59.6	57.4	59.6	59.6
65°	43.6	41.3	41.3	41.3	41.3	41.3	41.3	41.3
67.5°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
70°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
72.5°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
75°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
85°	2.3	2.3	2.3	0.0	2.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)