

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: P857807

Luminaire Tested: **LX4C35D010 EX4C359050 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857807
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 EX4C359050 4LBSWNH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

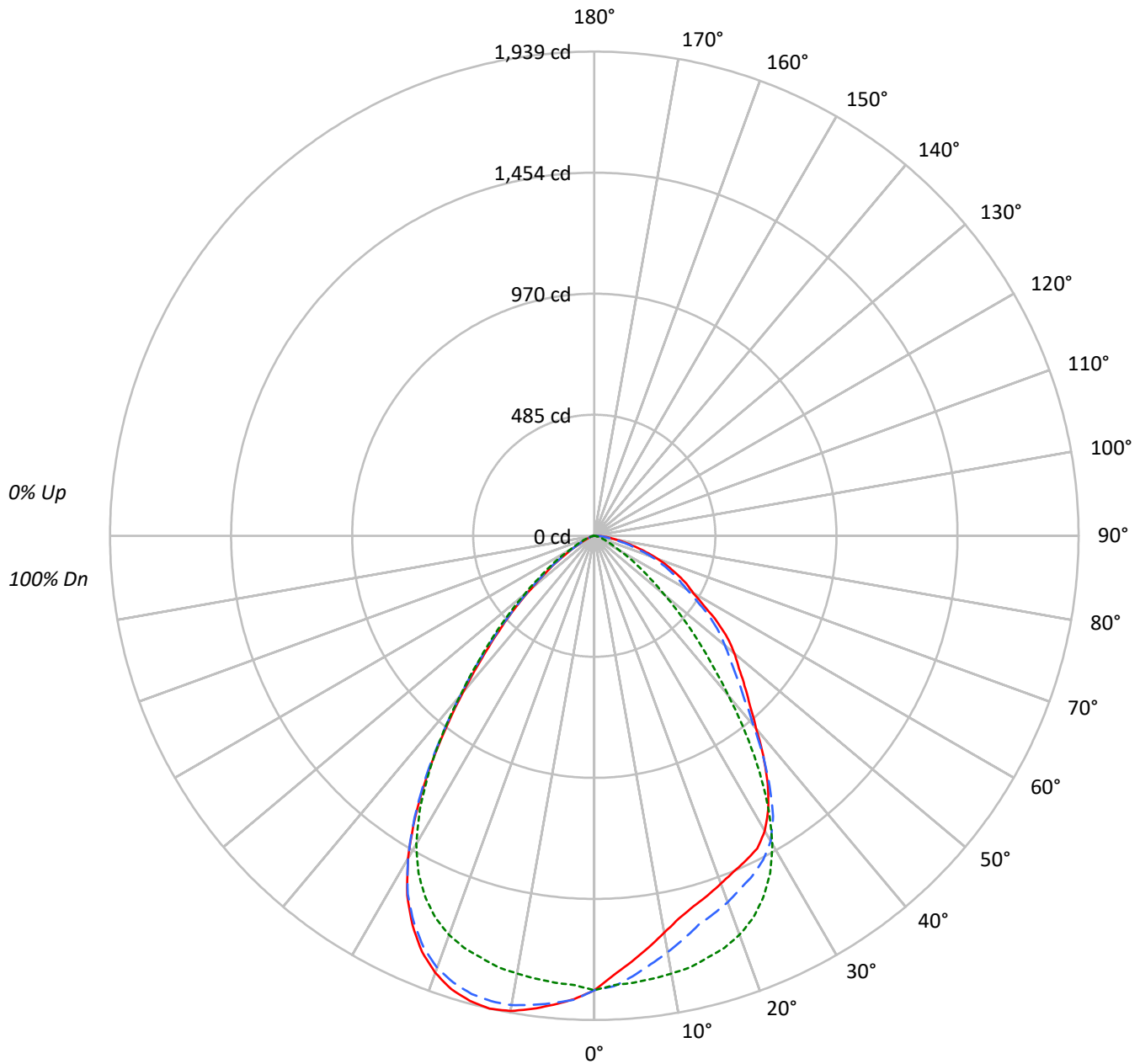
Lumens per Lamp: N/A
Luminaire Lumens: 3190.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70		
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62		
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46		
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	223569	223569	223569
5°	211116	221537	232525
10°	201282	222053	241064
15°	195372	222514	245179
20°	193767	222281	243434
25°	194547	216805	233329
30°	193623	202263	211583
35°	181486	172698	174453
40°	161721	133896	130897
45°	147906	99832	93716
50°	139847	69933	63205
55°	128599	47207	39668
60°	112362	27642	21892
65°	106366	17703	12267
70°	96876	12644	7579
75°	80172	8924	5601
80°	63037	5023	3325
85°	56242	3383	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	5.4
10°-20°	493.3	15.5
20°-30°	731.2	22.9
30°-40°	732.2	23.0
40°-50°	511.8	16.0
50°-60°	304.5	9.5
60°-70°	158.9	5.0
70°-80°	70.7	2.2
80°-90°	15.4	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°	1396.5	43.8
0°-40°	2128.7	66.7
0°-60°	2945.0	92.3
0°-90°	3190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3190.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1820	1820	1820	1820	1820	
5°	1712	1771	1796	1878	1886	161
15°	1536	1614	1750	1900	1928	435
25°	1435	1501	1599	1710	1721	661
35°	1210	1224	1152	1173	1163	750
45°	851	809	575	556	539	661
55°	600	563	220	192	185	533
65°	366	335	61	45	42	362
75°	169	148	19	12	12	183
85°	40	30	2	2	0	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8
2.5°	1761.2	1782.3	1761.2	1768.3	1796.4	1770.6	1784.6	1784.6	1777.7	1794.0	1805.8
5°	1711.9	1733.1	1711.9	1721.3	1751.8	1726.0	1742.4	1737.8	1740.1	1754.2	1770.6
7.5°	1662.7	1679.1	1660.3	1672.1	1700.2	1679.1	1693.2	1693.2	1695.6	1716.6	1730.8
10°	1613.5	1627.5	1613.5	1622.8	1653.4	1634.6	1644.0	1646.3	1653.4	1672.1	1693.2
12.5°	1568.9	1580.6	1566.6	1580.6	1606.4	1587.6	1599.4	1601.7	1608.8	1629.9	1653.4
15°	1536.1	1547.8	1533.8	1545.4	1568.9	1554.8	1564.2	1568.9	1573.6	1592.3	1613.5
17.5°	1510.3	1519.7	1507.9	1522.0	1540.7	1524.4	1538.4	1538.4	1545.4	1564.2	1587.6
20°	1482.1	1491.5	1482.1	1493.9	1515.0	1500.9	1512.6	1512.6	1519.7	1540.7	1561.9
22.5°	1456.4	1461.0	1456.4	1465.7	1486.8	1475.1	1482.1	1484.5	1491.5	1510.3	1529.1
25°	1435.2	1444.6	1439.9	1449.3	1463.3	1451.7	1458.7	1461.0	1468.0	1484.5	1500.9
27.5°	1411.8	1416.5	1411.8	1423.5	1435.2	1425.8	1432.9	1430.5	1435.2	1449.3	1463.3
30°	1364.9	1369.6	1369.6	1376.6	1386.0	1381.3	1388.3	1381.3	1386.0	1397.7	1411.8
32.5°	1296.9	1299.2	1301.5	1308.6	1315.6	1308.6	1313.3	1313.3	1313.3	1322.7	1332.1
35°	1210.1	1214.8	1212.5	1217.2	1224.1	1221.8	1221.8	1219.5	1214.8	1219.5	1224.1
37.5°	1111.6	1104.5	1104.5	1111.6	1116.3	1106.9	1111.6	1106.9	1106.9	1109.2	1109.2
40°	1008.4	1001.4	1008.4	1010.8	1013.1	1008.4	1006.1	1001.4	994.3	996.7	992.0
42.5°	921.7	916.9	919.3	919.3	921.7	916.9	919.3	909.9	902.8	898.2	891.2
45°	851.3	844.3	851.3	846.6	846.6	844.3	841.9	837.2	827.8	820.8	809.1
47.5°	785.6	785.6	787.9	787.9	787.9	783.2	783.2	773.9	764.5	755.1	738.8
50°	731.7	727.0	736.4	736.4	729.4	727.0	729.4	717.6	710.6	698.9	682.4
52.5°	673.0	673.0	675.4	675.4	673.0	668.3	670.7	661.3	654.3	642.6	626.1
55°	600.4	595.7	602.7	602.7	600.4	598.0	600.4	593.3	586.3	577.0	562.8
57.5°	518.3	515.9	520.6	523.0	518.3	518.3	520.6	513.6	511.2	501.8	487.8
60°	457.3	455.0	459.7	462.0	457.3	457.3	457.3	447.9	443.2	433.8	424.4
62.5°	415.1	412.8	417.5	415.1	412.8	410.4	412.8	403.4	398.7	389.3	379.9
65°	365.9	368.2	370.6	370.6	368.2	365.9	365.9	361.2	356.5	347.1	335.4
67.5°	318.9	318.9	321.3	323.6	321.3	321.3	321.3	314.2	309.5	302.5	288.5
70°	269.7	267.3	274.4	274.4	269.7	272.0	269.7	267.3	262.6	253.3	241.6
72.5°	218.1	218.1	220.4	220.4	218.1	218.1	218.1	215.8	208.7	204.0	192.3
75°	168.9	168.9	171.2	173.6	168.9	168.9	171.2	166.5	161.8	154.8	147.7
77.5°	126.7	124.3	126.7	126.7	124.3	124.3	124.3	122.0	119.6	112.5	105.5
80°	89.1	86.8	89.1	89.1	89.1	86.8	86.8	84.4	84.4	79.7	72.7
82.5°	60.9	58.7	60.9	60.9	60.9	58.7	58.7	58.7	56.3	54.0	49.3
85°	39.9	37.5	37.5	39.9	37.5	37.5	37.5	37.5	35.2	32.8	30.5
87.5°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	16.5	16.5	16.5	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8
2.5°	1796.4	1791.7	1805.8	1801.1	1803.4	1791.7	1810.5	1801.1	1812.8	1801.1	1824.5
5°	1765.9	1761.2	1782.3	1780.0	1782.3	1773.0	1794.0	1791.7	1805.8	1796.4	1822.1
7.5°	1733.1	1728.4	1751.8	1754.2	1758.9	1749.5	1777.7	1777.7	1791.7	1789.3	1817.5
10°	1695.6	1697.9	1721.3	1726.0	1735.5	1730.8	1756.5	1763.6	1782.3	1780.0	1815.2
12.5°	1660.3	1660.3	1690.9	1700.2	1707.2	1704.9	1735.5	1744.8	1765.9	1770.6	1803.4
15°	1625.2	1627.5	1655.7	1669.7	1679.1	1676.8	1709.6	1721.3	1747.1	1749.5	1789.3
17.5°	1597.0	1594.7	1625.2	1636.9	1651.0	1648.7	1683.8	1697.9	1723.7	1730.8	1768.3
20°	1573.6	1571.3	1599.4	1613.5	1622.8	1620.5	1655.7	1672.1	1695.6	1700.2	1737.8
22.5°	1545.4	1540.7	1568.9	1580.6	1590.0	1587.6	1618.2	1629.9	1653.4	1658.1	1693.2
25°	1512.6	1507.9	1533.8	1540.7	1547.8	1543.1	1568.9	1576.0	1594.7	1599.4	1634.6
27.5°	1475.1	1463.3	1484.5	1484.5	1489.2	1482.1	1500.9	1507.9	1524.4	1524.4	1557.2
30°	1416.5	1400.1	1411.8	1409.5	1411.8	1402.4	1414.2	1416.5	1428.2	1425.8	1449.3
32.5°	1334.4	1310.9	1318.0	1310.9	1303.9	1289.9	1303.9	1299.2	1308.6	1299.2	1320.3
35°	1221.8	1198.4	1196.0	1186.6	1179.6	1167.9	1167.9	1156.2	1158.5	1151.5	1165.6
37.5°	1099.9	1069.4	1064.7	1046.0	1034.2	1020.1	1020.1	1010.8	999.0	994.3	1006.1
40°	980.3	947.4	935.8	905.2	893.5	879.4	870.0	858.4	853.7	834.9	844.3
42.5°	877.1	841.9	816.2	783.2	771.6	750.4	736.4	722.3	715.3	694.2	703.5
45°	790.3	748.1	720.0	677.7	661.3	637.9	616.8	600.4	583.9	574.6	569.9
47.5°	717.6	673.0	635.5	588.6	562.8	541.7	513.6	497.2	476.1	464.3	457.3
50°	656.7	607.4	565.2	511.2	485.5	462.0	429.1	403.4	384.6	365.9	361.2
52.5°	602.7	551.1	504.2	443.2	412.8	384.6	349.4	321.3	304.8	283.8	281.4
55°	539.4	494.9	443.2	379.9	349.4	321.3	283.8	255.7	234.5	220.4	215.8
57.5°	471.4	429.1	379.9	316.6	286.1	255.7	220.4	194.6	175.9	164.2	161.8
60°	408.1	368.2	321.3	258.0	227.4	201.7	164.2	138.4	122.0	112.5	107.8
62.5°	361.2	323.6	279.1	220.4	192.3	166.5	131.4	107.8	93.8	84.4	79.7
65°	316.6	279.1	239.2	185.2	161.8	138.4	105.5	84.4	70.3	60.9	56.3
67.5°	269.7	236.9	199.3	154.8	131.4	112.5	84.4	65.6	54.0	46.9	42.2
70°	222.7	192.3	161.8	124.3	107.8	89.1	65.6	51.6	39.9	35.2	30.5
72.5°	175.9	152.4	126.7	96.2	82.1	70.3	51.6	37.5	30.5	25.8	21.1
75°	131.4	114.9	93.8	72.7	60.9	51.6	37.5	28.1	23.4	18.8	16.5
77.5°	93.8	79.7	65.6	49.3	44.6	37.5	25.8	21.1	16.5	11.8	9.4
80°	63.3	56.3	44.6	35.2	28.1	25.8	18.8	14.1	9.4	7.1	7.1
82.5°	42.2	35.2	28.1	21.1	18.8	16.5	11.8	9.4	7.1	4.7	4.7
85°	25.8	21.1	16.5	11.8	11.8	9.4	7.1	4.7	2.4	2.4	2.4
87.5°	11.8	9.4	7.1	4.7	4.7	2.4	2.4	2.4	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8
2.5°	1843.3	1829.2	1819.8	1831.5	1836.2	1829.2	1836.2	1848.0	1859.7	1862.0	1829.2
5°	1845.7	1831.5	1826.8	1840.9	1843.3	1840.9	1848.0	1864.4	1878.5	1883.2	1850.4
7.5°	1845.7	1836.2	1833.9	1850.4	1852.7	1850.4	1862.0	1880.8	1894.9	1904.2	1871.4
10°	1840.9	1836.2	1838.6	1852.7	1857.4	1857.4	1873.8	1894.9	1908.9	1918.3	1885.5
12.5°	1833.9	1833.9	1833.9	1850.4	1855.1	1857.4	1871.4	1899.6	1908.9	1923.0	1890.2
15°	1822.1	1822.1	1822.1	1838.6	1845.7	1845.7	1862.0	1887.9	1899.6	1913.6	1880.8
17.5°	1801.1	1801.1	1803.4	1817.5	1824.5	1824.5	1840.9	1869.1	1876.1	1892.6	1859.7
20°	1770.6	1770.6	1773.0	1787.0	1794.0	1789.3	1810.5	1833.9	1840.9	1855.1	1822.1
22.5°	1726.0	1726.0	1726.0	1740.1	1744.8	1742.4	1763.6	1784.6	1784.6	1803.4	1768.3
25°	1660.3	1665.0	1660.3	1674.4	1679.1	1676.8	1695.6	1714.3	1709.6	1730.8	1695.6
27.5°	1580.6	1578.3	1578.3	1590.0	1590.0	1587.6	1601.7	1622.8	1618.2	1632.2	1599.4
30°	1470.4	1477.4	1465.7	1482.1	1475.1	1470.4	1479.8	1498.6	1491.5	1503.2	1477.4
32.5°	1343.7	1334.4	1334.4	1334.4	1339.1	1327.4	1336.8	1346.1	1339.1	1350.8	1322.7
35°	1177.3	1179.6	1172.6	1175.0	1177.3	1163.2	1172.6	1181.9	1172.6	1179.6	1153.8
37.5°	1010.8	1013.1	996.7	1006.1	996.7	992.0	1001.4	1006.1	996.7	1003.7	975.6
40°	844.3	839.6	837.2	837.2	839.6	827.8	834.9	841.9	834.9	839.6	813.8
42.5°	698.9	696.6	691.9	694.2	687.1	684.8	687.1	694.2	687.1	691.9	673.0
45°	572.2	567.5	560.5	562.8	562.8	551.1	558.1	562.8	555.8	558.1	541.7
47.5°	455.0	447.9	447.9	445.6	445.6	440.9	447.9	445.6	438.5	443.2	426.8
50°	354.1	349.4	349.4	349.4	349.4	342.3	344.7	349.4	342.3	342.3	333.0
52.5°	276.7	269.7	265.0	265.0	265.0	262.6	262.6	265.0	258.0	258.0	255.7
55°	208.7	206.4	199.3	199.3	199.3	192.3	194.6	194.6	192.3	192.3	185.2
57.5°	154.8	147.7	143.0	143.0	138.4	138.4	136.1	138.4	133.7	133.7	129.0
60°	103.1	98.5	96.2	93.8	93.8	91.5	93.8	91.5	91.5	89.1	86.8
62.5°	75.0	70.3	65.6	65.6	65.6	63.3	63.3	63.3	63.3	63.3	60.9
65°	54.0	49.3	49.3	46.9	46.9	44.6	44.6	44.6	44.6	44.6	42.2
67.5°	37.5	35.2	32.8	32.8	32.8	32.8	32.8	32.8	30.5	30.5	30.5
70°	28.1	25.8	23.4	23.4	23.4	23.4	23.4	21.1	23.4	23.4	21.1
72.5°	18.8	18.8	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
75°	14.1	14.1	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
77.5°	9.4	9.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
80°	7.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	4.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	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: P857807

CATALOG NUMBER: LX4C35D010 EX4C359050 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8
2.5°	1864.4	1862.0	1857.4	1864.4	1845.7	1838.6	1836.2	1857.4
5°	1890.2	1885.5	1885.5	1892.6	1871.4	1866.7	1862.0	1885.5
7.5°	1913.6	1908.9	1908.9	1916.0	1897.3	1892.6	1887.9	1911.3
10°	1927.7	1927.7	1927.7	1932.4	1916.0	1911.3	1908.9	1932.4
12.5°	1934.8	1934.8	1932.4	1941.7	1920.7	1920.7	1916.0	1939.4
15°	1925.4	1925.4	1925.4	1932.4	1913.6	1908.9	1908.9	1927.7
17.5°	1901.9	1901.9	1899.6	1906.6	1885.5	1885.5	1883.2	1904.2
20°	1866.7	1866.7	1862.0	1871.4	1850.4	1843.3	1840.9	1862.0
22.5°	1810.5	1808.1	1805.8	1810.5	1791.7	1787.0	1784.6	1803.4
25°	1737.8	1735.5	1730.8	1735.5	1714.3	1707.2	1707.2	1721.3
27.5°	1634.6	1634.6	1627.5	1634.6	1611.1	1608.8	1606.4	1622.8
30°	1507.9	1498.6	1493.9	1503.2	1479.8	1479.8	1475.1	1491.5
32.5°	1350.8	1341.4	1339.1	1343.7	1322.7	1315.6	1325.0	1334.4
35°	1170.3	1172.6	1163.2	1163.2	1144.4	1146.7	1149.1	1163.2
37.5°	996.7	992.0	989.6	992.0	978.0	973.3	968.6	982.6
40°	834.9	823.1	820.8	820.8	809.1	806.8	809.1	816.2
42.5°	682.4	680.1	670.7	675.4	663.6	668.3	666.0	666.0
45°	551.1	553.4	544.0	551.1	541.7	534.7	534.7	539.4
47.5°	436.2	436.2	433.8	433.8	426.8	429.1	424.4	431.5
50°	337.7	337.7	333.0	335.4	330.7	330.7	328.3	330.7
52.5°	258.0	255.7	255.7	253.3	248.6	251.0	253.3	248.6
55°	187.6	189.9	185.2	187.6	182.9	185.2	182.9	185.2
57.5°	129.0	131.4	126.7	131.4	126.7	129.0	126.7	126.7
60°	89.1	89.1	86.8	89.1	86.8	86.8	84.4	89.1
62.5°	60.9	60.9	60.9	60.9	60.9	58.7	60.9	60.9
65°	44.6	42.2	42.2	42.2	42.2	42.2	42.2	42.2
67.5°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
70°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
72.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
75°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	0.0	2.4	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)