

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: P858041

Luminaire Tested: **LX4C40D010 EX4C409840 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P858041
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: LX4C40D010 EX4C409840 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

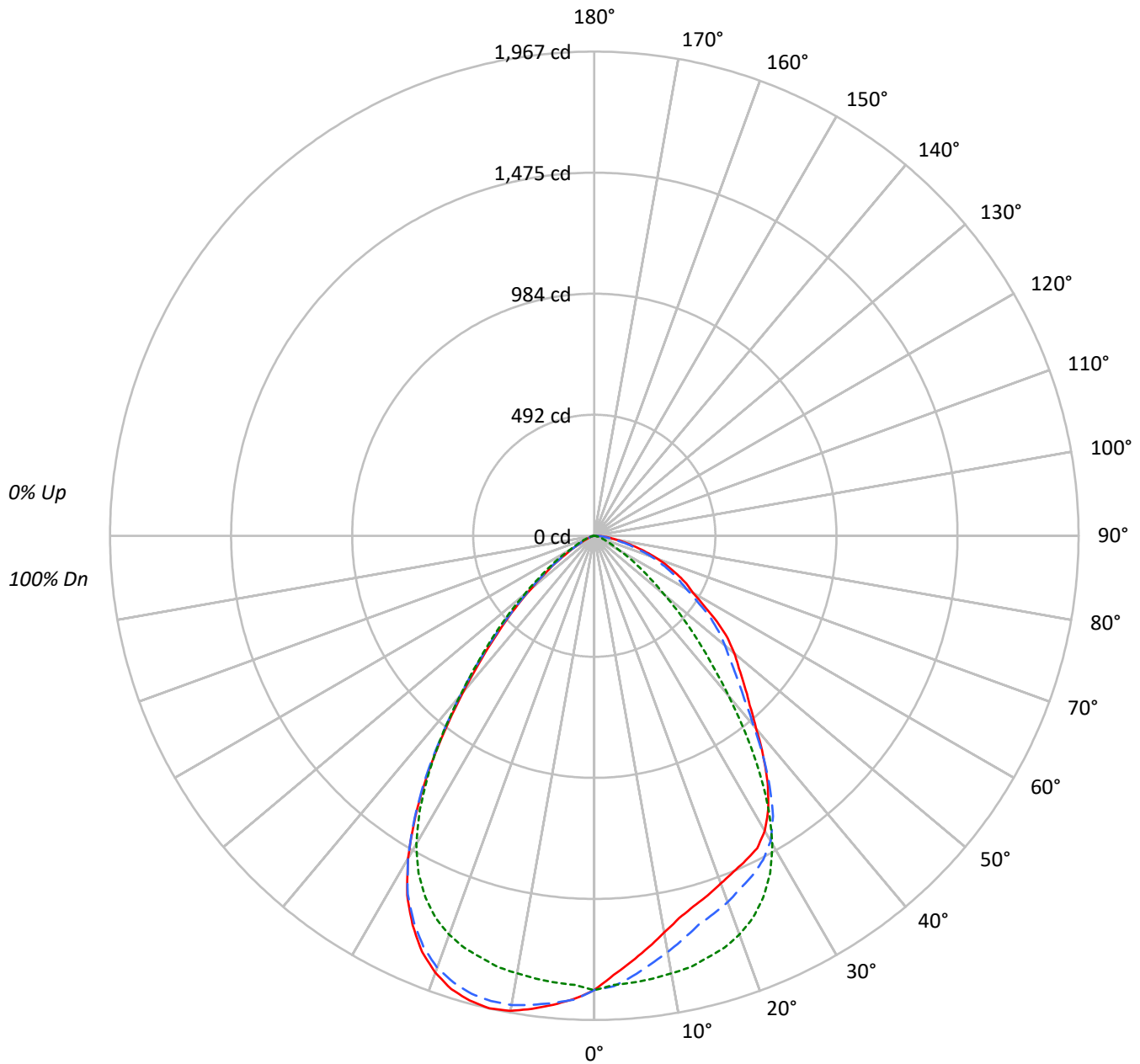
Lumens per Lamp: N/A
Luminaire Lumens: 3235.2 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	226738	226738	226738
5°	214113	224682	235830
10°	204126	225196	244482
15°	198145	225668	248664
20°	196512	225444	246886
25°	197312	219882	236636
30°	196375	205128	214590
35°	184051	175142	176927
40°	163998	135789	132741
45°	150008	101256	95036
50°	141816	70927	64104
55°	130419	47893	40246
60°	113934	28035	22187
65°	107877	17965	12442
70°	98277	12823	7687
75°	81311	9019	5649
80°	63886	5094	3325
85°	57088	3383	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	5.4
10°-20°	500.3	15.5
20°-30°	741.6	22.9
30°-40°	742.6	23.0
40°-50°	519.0	16.0
50°-60°	308.8	9.5
60°-70°	161.2	5.0
70°-80°	71.7	2.2
80°-90°	15.6	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°	1416.3	43.8
0°-40°	2158.9	66.7
0°-60°	2986.7	92.3
0°-90°	3235.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3235.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1846	1846	1846	1846	1846	
5°	1736	1796	1822	1905	1912	163
15°	1558	1636	1774	1926	1955	441
25°	1456	1522	1622	1734	1746	671
35°	1227	1242	1168	1189	1180	761
45°	863	821	583	564	547	670
55°	609	571	224	195	188	540
65°	371	340	62	45	43	367
75°	171	150	19	12	12	185
85°	40	31	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°	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6
2.5°	1786.2	1807.6	1786.2	1793.4	1821.9	1795.7	1810.0	1810.0	1802.8	1819.4	1831.4
5°	1736.2	1757.6	1736.2	1745.7	1776.7	1750.5	1767.2	1762.4	1764.8	1779.1	1795.7
7.5°	1686.3	1703.0	1683.9	1695.8	1724.4	1703.0	1717.1	1717.1	1719.6	1740.9	1755.3
10°	1636.3	1650.6	1636.3	1645.9	1676.8	1657.7	1667.3	1669.6	1676.8	1695.8	1717.1
12.5°	1591.1	1603.1	1588.8	1603.1	1629.1	1610.1	1622.1	1624.4	1631.6	1653.0	1676.8
15°	1557.9	1569.7	1555.6	1567.3	1591.1	1576.9	1586.4	1591.1	1595.9	1614.9	1636.3
17.5°	1531.7	1541.3	1529.3	1543.6	1562.6	1546.0	1560.3	1560.3	1567.3	1586.4	1610.1
20°	1503.1	1512.7	1503.1	1515.1	1536.5	1522.2	1534.1	1534.1	1541.3	1562.6	1584.0
22.5°	1477.0	1481.8	1477.0	1486.5	1507.8	1496.0	1503.1	1505.5	1512.7	1531.7	1550.7
25°	1455.6	1465.0	1460.3	1469.9	1484.1	1472.3	1479.3	1481.8	1488.9	1505.5	1522.2
27.5°	1431.8	1436.5	1431.8	1443.7	1455.6	1446.0	1453.3	1450.8	1455.6	1469.9	1484.1
30°	1384.3	1389.0	1389.0	1396.1	1405.7	1400.9	1408.1	1400.9	1405.7	1417.5	1431.8
32.5°	1315.2	1317.6	1320.0	1327.2	1334.3	1327.2	1331.9	1331.9	1331.9	1341.4	1351.0
35°	1227.2	1232.0	1229.6	1234.4	1241.5	1239.2	1239.2	1236.8	1232.0	1236.8	1241.5
37.5°	1127.3	1120.2	1120.2	1127.3	1132.2	1122.6	1127.3	1122.6	1122.6	1124.9	1124.9
40°	1022.6	1015.6	1022.6	1025.1	1027.5	1022.6	1020.3	1015.6	1008.4	1010.9	1006.1
42.5°	934.7	929.9	932.3	932.3	934.7	929.9	932.3	922.9	915.6	910.9	903.8
45°	863.4	856.3	863.4	858.6	858.6	856.3	853.8	849.1	839.6	832.4	820.6
47.5°	796.8	796.8	799.1	799.1	799.1	794.4	794.4	784.8	775.4	765.8	749.2
50°	742.0	737.3	746.8	746.8	739.7	737.3	739.7	727.8	720.7	708.8	692.1
52.5°	682.5	682.5	684.9	684.9	682.5	677.8	680.2	670.8	663.5	651.7	635.0
55°	608.9	604.2	611.2	611.2	608.9	606.5	608.9	601.7	594.6	585.2	570.8
57.5°	525.7	523.2	528.0	530.4	525.7	525.7	528.0	520.9	518.5	509.0	494.7
60°	463.7	461.4	466.2	468.6	463.7	463.7	463.7	454.3	449.4	440.0	430.4
62.5°	421.0	418.6	423.4	421.0	418.6	416.2	418.6	409.1	404.3	394.9	385.3
65°	371.1	373.4	375.9	375.9	373.4	371.1	371.1	366.3	361.6	352.1	340.1
67.5°	323.4	323.4	325.8	328.2	325.8	325.8	325.8	318.7	313.9	306.8	292.6
70°	273.6	271.1	278.3	278.3	273.6	275.9	273.6	271.1	266.4	256.8	245.1
72.5°	221.2	221.2	223.6	223.6	221.2	221.2	221.2	218.8	211.6	206.9	195.0
75°	171.3	171.3	173.6	176.0	171.3	171.3	173.6	168.8	164.1	157.0	149.8
77.5°	128.5	126.1	128.5	128.5	126.1	126.1	126.1	123.7	121.3	114.1	107.0
80°	90.3	88.0	90.3	90.3	90.3	88.0	88.0	85.6	85.6	80.8	73.7
82.5°	61.8	59.5	61.8	61.8	61.8	59.5	59.5	59.5	57.1	54.8	49.9
85°	40.5	38.1	38.1	40.5	38.1	38.1	38.1	38.1	35.7	33.3	30.9
87.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	16.7	16.7	16.7	14.3
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°	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6
2.5°	1821.9	1817.1	1831.4	1826.6	1829.0	1817.1	1836.2	1826.6	1838.5	1826.6	1850.5
5°	1790.9	1786.2	1807.6	1805.2	1807.6	1798.1	1819.4	1817.1	1831.4	1821.9	1848.0
7.5°	1757.6	1752.9	1776.7	1779.1	1783.8	1774.3	1802.8	1802.8	1817.1	1814.7	1843.2
10°	1719.6	1722.0	1745.7	1750.5	1760.0	1755.3	1781.4	1788.6	1807.6	1805.2	1840.9
12.5°	1683.9	1683.9	1714.8	1724.4	1731.4	1729.1	1760.0	1769.6	1790.9	1795.7	1829.0
15°	1648.3	1650.6	1679.1	1693.4	1703.0	1700.6	1733.9	1745.7	1771.9	1774.3	1814.7
17.5°	1619.7	1617.4	1648.3	1660.2	1674.4	1672.0	1707.7	1722.0	1748.2	1755.3	1793.4
20°	1595.9	1593.5	1622.1	1636.3	1645.9	1643.6	1679.1	1695.8	1719.6	1724.4	1762.4
22.5°	1567.3	1562.6	1591.1	1603.1	1612.5	1610.1	1641.1	1653.0	1676.8	1681.6	1717.1
25°	1534.1	1529.3	1555.6	1562.6	1569.7	1565.0	1591.1	1598.3	1617.4	1622.1	1657.7
27.5°	1496.0	1484.1	1505.5	1505.5	1510.3	1503.1	1522.2	1529.3	1546.0	1546.0	1579.3
30°	1436.5	1419.9	1431.8	1429.5	1431.8	1422.2	1434.2	1436.5	1448.5	1446.0	1469.9
32.5°	1353.3	1329.5	1336.7	1329.5	1322.5	1308.2	1322.5	1317.6	1327.2	1317.6	1339.0
35°	1239.2	1215.4	1212.9	1203.5	1196.4	1184.4	1184.4	1172.6	1175.0	1167.8	1182.1
37.5°	1115.5	1084.6	1079.8	1060.8	1048.9	1034.6	1034.6	1025.1	1013.2	1008.4	1020.3
40°	994.1	960.9	949.0	918.0	906.1	891.8	882.4	870.5	865.8	846.7	856.3
42.5°	889.5	853.8	827.7	794.4	782.5	761.1	746.8	732.6	725.4	704.0	713.5
45°	801.5	758.7	730.2	687.4	670.8	647.0	625.5	608.9	592.2	582.8	577.9
47.5°	727.8	682.5	644.6	596.9	570.8	549.4	520.9	504.2	482.9	470.9	463.7
50°	666.0	616.0	573.2	518.5	492.3	468.6	435.3	409.1	390.0	371.1	366.3
52.5°	611.2	558.9	511.4	449.4	418.6	390.0	354.4	325.8	309.2	287.9	285.4
55°	547.0	501.9	449.4	385.3	354.4	325.8	287.9	259.3	237.8	223.6	218.8
57.5°	478.1	435.3	385.3	321.1	290.2	259.3	223.6	197.3	178.3	166.5	164.1
60°	413.9	373.4	325.8	261.6	230.7	204.6	166.5	140.4	123.7	114.1	109.3
62.5°	366.3	328.2	283.0	223.6	195.0	168.8	133.2	109.3	95.1	85.6	80.8
65°	321.1	283.0	242.6	187.9	164.1	140.4	107.0	85.6	71.3	61.8	57.1
67.5°	273.6	240.2	202.2	157.0	133.2	114.1	85.6	66.6	54.8	47.5	42.8
70°	225.9	195.0	164.1	126.1	109.3	90.3	66.6	52.3	40.5	35.7	30.9
72.5°	178.3	154.5	128.5	97.6	83.3	71.3	52.3	38.1	30.9	26.2	21.4
75°	133.2	116.6	95.1	73.7	61.8	52.3	38.1	28.5	23.8	19.0	16.7
77.5°	95.1	80.8	66.6	49.9	45.2	38.1	26.2	21.4	16.7	11.9	9.5
80°	64.2	57.1	45.2	35.7	28.5	26.2	19.0	14.3	9.5	7.2	7.2
82.5°	42.8	35.7	28.5	21.4	19.0	16.7	11.9	9.5	7.2	4.7	4.7
85°	26.2	21.4	16.7	11.9	11.9	9.5	7.2	4.7	2.4	2.4	2.4
87.5°	11.9	9.5	7.2	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°	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6
2.5°	1869.4	1855.2	1845.6	1857.5	1862.2	1855.2	1862.2	1874.2	1886.1	1888.4	1855.2
5°	1871.9	1857.5	1852.8	1867.0	1869.4	1867.0	1874.2	1890.8	1905.1	1909.9	1876.6
7.5°	1871.9	1862.2	1859.9	1876.6	1878.9	1876.6	1888.4	1907.4	1921.7	1931.2	1898.0
10°	1867.0	1862.2	1864.6	1878.9	1883.7	1883.7	1900.4	1921.7	1936.0	1945.5	1912.3
12.5°	1859.9	1859.9	1859.9	1876.6	1881.4	1883.7	1898.0	1926.5	1936.0	1950.2	1917.0
15°	1848.0	1848.0	1848.0	1864.6	1871.9	1871.9	1888.4	1914.7	1926.5	1940.8	1907.4
17.5°	1826.6	1826.6	1829.0	1843.2	1850.5	1850.5	1867.0	1895.7	1902.7	1919.4	1886.1
20°	1795.7	1795.7	1798.1	1812.4	1819.4	1814.7	1836.2	1859.9	1867.0	1881.4	1848.0
22.5°	1750.5	1750.5	1750.5	1764.8	1769.6	1767.2	1788.6	1810.0	1810.0	1829.0	1793.4
25°	1683.9	1688.7	1683.9	1698.1	1703.0	1700.6	1719.6	1738.6	1733.9	1755.3	1719.6
27.5°	1603.1	1600.7	1600.7	1612.5	1612.5	1610.1	1624.4	1645.9	1641.1	1655.3	1622.1
30°	1491.3	1498.4	1486.5	1503.1	1496.0	1491.3	1500.8	1519.8	1512.7	1524.5	1498.4
32.5°	1362.8	1353.3	1353.3	1353.3	1358.0	1346.2	1355.7	1365.3	1358.0	1370.0	1341.4
35°	1194.0	1196.4	1189.2	1191.6	1194.0	1179.7	1189.2	1198.7	1189.2	1196.4	1170.1
37.5°	1025.1	1027.5	1010.9	1020.3	1010.9	1006.1	1015.6	1020.3	1010.9	1017.9	989.4
40°	856.3	851.5	849.1	849.1	851.5	839.6	846.7	853.8	846.7	851.5	825.3
42.5°	708.8	706.4	701.7	704.0	696.8	694.5	696.8	704.0	696.8	701.7	682.5
45°	580.3	575.5	568.5	570.8	570.8	558.9	566.0	570.8	563.7	566.0	549.4
47.5°	461.4	454.3	454.3	451.9	451.9	447.1	454.3	451.9	444.7	449.4	432.9
50°	359.1	354.4	354.4	354.4	354.4	347.2	349.7	354.4	347.2	347.2	337.7
52.5°	280.6	273.6	268.8	268.8	268.8	266.4	266.4	268.8	261.6	261.6	259.3
55°	211.6	209.3	202.2	202.2	202.2	195.0	197.3	197.3	195.0	195.0	187.9
57.5°	157.0	149.8	145.1	145.1	140.4	140.4	138.0	140.4	135.5	135.5	130.8
60°	104.6	99.9	97.6	95.1	95.1	92.7	95.1	92.7	92.7	90.3	88.0
62.5°	76.1	71.3	66.6	66.6	66.6	64.2	64.2	64.2	64.2	64.2	61.8
65°	54.8	49.9	49.9	47.5	47.5	45.2	45.2	45.2	45.2	45.2	42.8
67.5°	38.1	35.7	33.3	33.3	33.3	33.3	33.3	33.3	30.9	30.9	30.9
70°	28.5	26.2	23.8	23.8	23.8	23.8	23.8	21.4	23.8	23.8	21.4
72.5°	19.0	19.0	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
75°	14.3	14.3	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
77.5°	9.5	9.5	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
80°	7.2	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: P858041

CATALOG NUMBER: LX4C40D010 EX4C409840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6
2.5°	1890.8	1888.4	1883.7	1890.8	1871.9	1864.6	1862.2	1883.7
5°	1917.0	1912.3	1912.3	1919.4	1898.0	1893.2	1888.4	1912.3
7.5°	1940.8	1936.0	1936.0	1943.2	1924.2	1919.4	1914.7	1938.5
10°	1955.1	1955.1	1955.1	1959.8	1943.2	1938.5	1936.0	1959.8
12.5°	1962.2	1962.2	1959.8	1969.3	1947.9	1947.9	1943.2	1966.9
15°	1952.6	1952.6	1952.6	1959.8	1940.8	1936.0	1936.0	1955.1
17.5°	1928.9	1928.9	1926.5	1933.7	1912.3	1912.3	1909.9	1931.2
20°	1893.2	1893.2	1888.4	1898.0	1876.6	1869.4	1867.0	1888.4
22.5°	1836.2	1833.7	1831.4	1836.2	1817.1	1812.4	1810.0	1829.0
25°	1762.4	1760.0	1755.3	1760.0	1738.6	1731.4	1731.4	1745.7
27.5°	1657.7	1657.7	1650.6	1657.7	1633.9	1631.6	1629.1	1645.9
30°	1529.3	1519.8	1515.1	1524.5	1500.8	1500.8	1496.0	1512.7
32.5°	1370.0	1360.4	1358.0	1362.8	1341.4	1334.3	1343.8	1353.3
35°	1186.9	1189.2	1179.7	1179.7	1160.7	1163.0	1165.4	1179.7
37.5°	1010.9	1006.1	1003.7	1006.1	991.8	987.1	982.3	996.6
40°	846.7	834.8	832.4	832.4	820.6	818.3	820.6	827.7
42.5°	692.1	689.8	680.2	684.9	673.1	677.8	675.5	675.5
45°	558.9	561.3	551.7	558.9	549.4	542.3	542.3	547.0
47.5°	442.4	442.4	440.0	440.0	432.9	435.3	430.4	437.7
50°	342.4	342.4	337.7	340.1	335.4	335.4	333.0	335.4
52.5°	261.6	259.3	259.3	256.8	252.1	254.5	256.8	252.1
55°	190.3	192.6	187.9	190.3	185.6	187.9	185.6	187.9
57.5°	130.8	133.2	128.5	133.2	128.5	130.8	128.5	128.5
60°	90.3	90.3	88.0	90.3	88.0	88.0	85.6	90.3
62.5°	61.8	61.8	61.8	61.8	61.8	59.5	61.8	61.8
65°	45.2	42.8	42.8	42.8	42.8	42.8	42.8	42.8
67.5°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
70°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
72.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
75°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
77.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
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)