

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: P858065

Luminaire Tested: **LX4C40D010 EX4C409030 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P858065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C40D010 EX4C409030 4LBLWWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

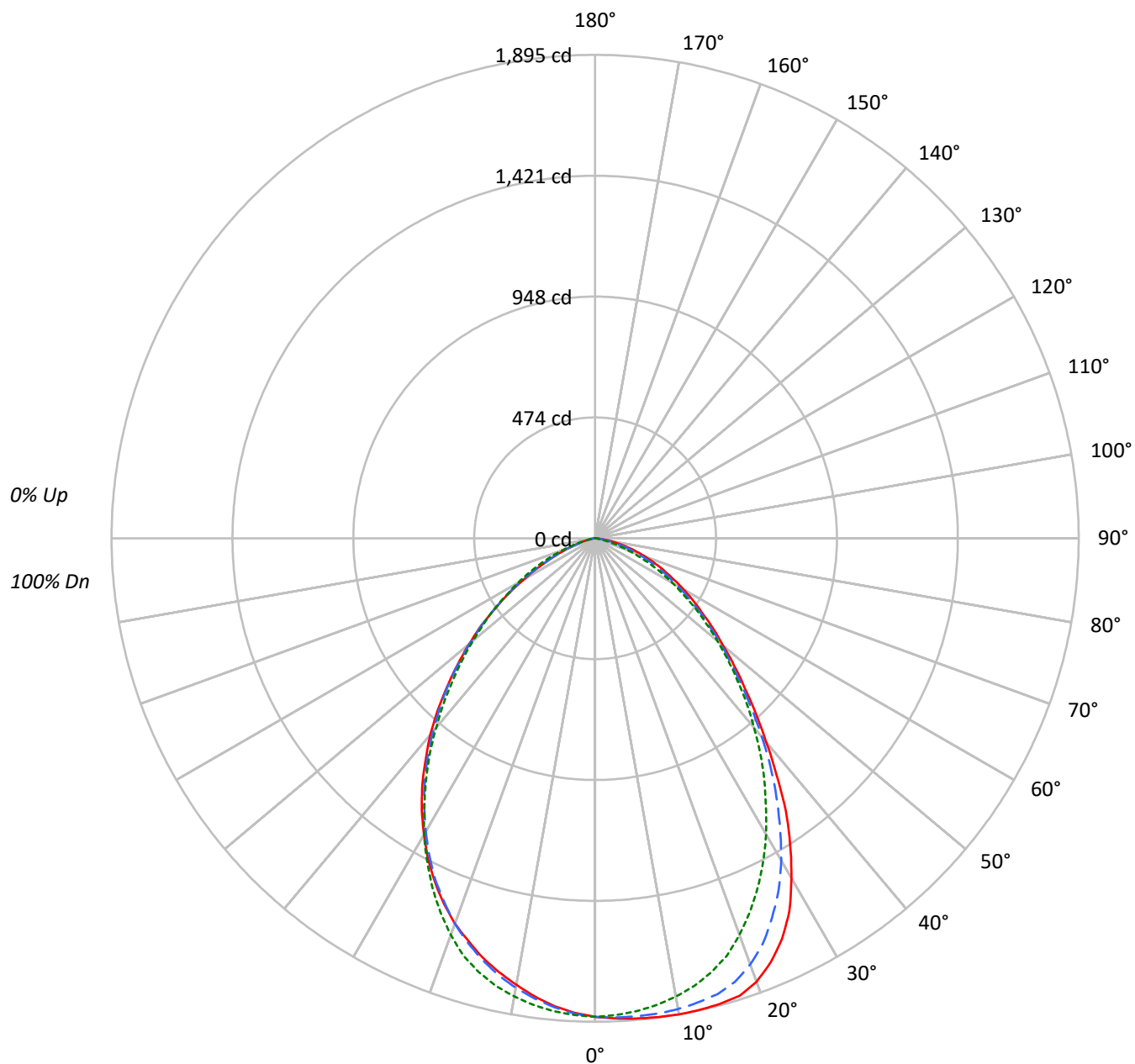
Lumens per Lamp: N/A
Luminaire Lumens: 3535.1 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 65
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	86	100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	74	93	85	78	73		82	76	72		79	75	71		77	73	70
4	88	78	70	64	86	77	69	64		74	68	63		72	67	62		70	65	62
5	82	71	63	57	80	69	62	57		67	61	56		66	60	55		64	59	55
6	76	64	56	51	74	63	56	50		62	55	50		60	54	50		59	53	49
7	71	59	51	46	69	58	51	45		57	50	45		55	49	45		54	49	44
8	67	54	47	41	65	54	46	41		52	46	41		51	45	41		50	45	40
9	62	50	43	38	61	50	42	37		49	42	37		47	41	37		47	41	37
10	59	47	39	34	58	46	39	34		45	39	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	230449	230449	230449
5°	233031	229467	226976
10°	236436	227529	221766
15°	240333	223900	216460
20°	241852	216280	210057
25°	234901	204591	201474
30°	218307	190148	190261
35°	195404	173343	177032
40°	167318	155386	161063
45°	144014	137012	142138
50°	125188	119282	122856
55°	110179	102618	101675
60°	98013	85604	78897
65°	85988	68575	57035
70°	73851	48456	38614
75°	59951	28053	22594
80°	42874	12310	11249
85°	16210	5075	5075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	5.0
10°-20°	500.4	14.2
20°-30°	714.6	20.2
30°-40°	747.5	21.1
40°-50°	626.3	17.7
50°-60°	438.4	12.4
60°-70°	238.7	6.8
70°-80°	82.8	2.3
80°-90°	9.5	0.3
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°	1391.8	39.4
0°-40°	2139.3	60.5
0°-60°	3204.0	90.6
0°-90°	3535.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3535.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1876	1876	1876	1876	1876	
5°	1890	1881	1861	1845	1840	181
15°	1890	1850	1760	1710	1702	534
25°	1733	1641	1509	1480	1486	791
35°	1303	1239	1156	1164	1180	808
45°	829	810	789	814	818	645
55°	514	497	479	479	475	465
65°	296	270	236	198	196	295
75°	126	102	59	48	48	136
85°	12	6	4	4	4	21
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°	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8
2.5°	1884.5	1882.3	1883.0	1883.0	1883.0	1882.3	1883.0	1882.3	1882.3	1881.6	1880.1
5°	1889.6	1888.1	1888.1	1888.1	1887.4	1886.6	1886.6	1885.9	1884.5	1883.7	1880.8
7.5°	1893.1	1891.6	1891.6	1890.9	1890.3	1889.6	1888.8	1886.6	1884.5	1883.0	1879.4
10°	1895.3	1893.1	1893.1	1891.6	1890.3	1889.6	1888.1	1885.2	1882.3	1878.6	1873.7
12.5°	1893.8	1891.6	1890.9	1889.6	1886.6	1885.2	1883.7	1880.1	1875.1	1870.0	1863.6
15°	1889.6	1888.1	1886.6	1884.5	1880.8	1878.6	1877.3	1871.5	1865.0	1857.8	1849.9
17.5°	1880.8	1878.6	1875.8	1872.9	1867.8	1865.8	1862.1	1854.8	1845.5	1835.4	1823.1
20°	1849.9	1848.4	1845.5	1840.5	1832.5	1829.6	1824.6	1815.2	1803.0	1790.7	1777.7
22.5°	1798.6	1796.4	1792.2	1787.8	1780.5	1775.5	1771.2	1758.2	1744.6	1731.6	1719.2
25°	1732.9	1730.7	1725.0	1719.2	1712.0	1703.4	1699.0	1689.0	1675.2	1658.6	1640.6
27.5°	1648.5	1641.3	1639.2	1632.7	1621.8	1619.0	1612.5	1599.5	1586.5	1572.0	1556.9
30°	1538.9	1538.9	1534.6	1531.7	1521.6	1518.7	1511.4	1497.8	1490.5	1470.4	1458.8
32.5°	1422.8	1421.3	1417.7	1415.5	1409.8	1404.7	1397.5	1390.2	1374.4	1364.2	1348.4
35°	1302.9	1294.3	1295.7	1291.4	1287.8	1282.0	1281.3	1273.4	1258.9	1253.2	1238.8
37.5°	1166.6	1163.0	1168.1	1161.6	1157.9	1158.6	1152.9	1147.8	1142.1	1131.9	1129.1
40°	1043.3	1046.2	1045.4	1039.6	1042.5	1038.9	1033.2	1028.1	1025.2	1018.7	1016.6
42.5°	932.9	928.5	927.1	927.1	927.8	927.8	924.9	921.3	921.3	914.8	908.3
45°	828.9	828.9	827.5	831.8	825.4	825.4	823.2	822.5	819.6	818.1	810.2
47.5°	739.4	738.8	738.1	737.4	736.6	736.6	732.3	728.6	727.9	723.6	719.3
50°	655.0	659.4	658.0	654.3	653.0	653.7	650.8	648.6	647.9	640.7	641.4
52.5°	584.4	583.6	585.1	582.9	579.4	580.1	577.2	574.3	571.4	567.8	564.9
55°	514.4	518.0	516.6	514.4	513.7	512.2	510.0	506.5	505.8	497.8	497.1
57.5°	456.0	455.3	453.8	450.2	449.4	447.4	447.4	444.5	440.1	435.7	432.2
60°	398.9	398.9	396.7	396.1	393.2	392.5	391.8	388.8	383.9	380.2	374.4
62.5°	344.2	345.6	344.2	342.0	339.8	337.0	335.5	333.3	329.0	325.3	320.3
65°	295.8	295.1	294.4	291.5	290.7	287.8	287.2	282.8	278.5	275.7	269.8
67.5°	249.7	247.5	247.5	246.0	244.6	242.4	240.9	236.7	231.6	228.7	223.0
70°	205.6	204.1	204.1	204.1	200.6	198.4	197.7	195.5	188.3	185.4	179.6
72.5°	165.3	164.4	163.8	161.6	159.4	159.4	156.5	152.3	148.6	145.0	140.6
75°	126.3	127.6	126.3	123.4	122.7	121.2	119.0	115.5	111.8	107.5	102.5
77.5°	92.3	90.8	89.5	89.5	88.0	85.1	84.4	81.5	77.2	74.3	69.2
80°	60.6	59.9	58.4	57.0	56.2	55.5	54.9	52.0	47.6	45.4	41.2
82.5°	33.2	32.4	32.4	31.7	29.6	29.6	28.9	26.0	23.8	22.3	20.2
85°	11.5	11.5	11.5	10.8	10.8	10.8	10.1	9.4	8.6	7.9	6.4
87.5°	1.5	0.7	1.5	0.7	1.5	0.7	0.7	0.7	0.7	0.7	0.7
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°	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8
2.5°	1878.6	1877.3	1876.6	1875.8	1875.1	1874.4	1873.7	1872.2	1871.5	1870.7	1869.3
5°	1878.6	1875.8	1874.4	1872.2	1870.7	1869.3	1867.1	1865.0	1862.8	1860.7	1858.5
7.5°	1875.8	1871.5	1868.6	1864.3	1862.8	1860.7	1856.3	1853.5	1849.9	1845.5	1840.5
10°	1868.6	1863.6	1857.8	1852.0	1849.9	1846.2	1840.5	1835.4	1829.6	1823.9	1818.8
12.5°	1857.0	1849.1	1842.0	1834.0	1829.6	1826.1	1818.2	1810.9	1803.7	1797.2	1788.5
15°	1839.8	1830.3	1821.0	1810.1	1805.2	1800.8	1789.3	1780.5	1769.0	1760.4	1751.7
17.5°	1811.6	1797.2	1785.6	1771.9	1764.7	1759.6	1749.6	1735.8	1725.0	1715.7	1705.6
20°	1763.3	1749.6	1733.6	1718.6	1710.6	1704.1	1689.7	1675.2	1664.4	1654.3	1643.5
22.5°	1699.8	1682.4	1671.0	1652.2	1645.6	1637.7	1620.5	1607.5	1595.2	1585.0	1574.9
25°	1622.5	1607.5	1591.6	1574.2	1566.3	1556.9	1542.5	1528.8	1520.9	1509.3	1497.1
27.5°	1533.9	1521.6	1502.1	1486.9	1479.0	1471.8	1458.1	1445.8	1434.3	1426.3	1414.8
30°	1440.0	1425.7	1408.3	1392.4	1388.0	1379.4	1367.1	1357.8	1345.5	1340.4	1335.4
32.5°	1336.9	1320.3	1307.3	1297.2	1288.6	1281.3	1274.8	1259.7	1257.5	1244.5	1243.0
35°	1224.3	1217.2	1204.9	1196.2	1189.0	1183.9	1173.1	1165.9	1157.9	1155.8	1150.7
37.5°	1118.3	1109.6	1098.0	1090.1	1085.1	1084.3	1076.4	1072.1	1066.3	1063.4	1057.7
40°	1007.2	1003.6	993.5	992.0	984.1	983.4	979.0	973.9	968.9	968.9	969.7
42.5°	904.7	900.3	896.1	891.0	886.6	886.6	884.5	883.1	881.6	879.5	883.1
45°	808.8	803.0	800.1	795.1	797.2	792.9	791.4	791.4	789.2	788.6	793.6
47.5°	719.3	712.8	709.9	708.5	708.5	709.2	702.6	704.8	704.1	705.6	707.7
50°	637.8	632.0	627.7	627.7	628.4	625.5	622.6	624.8	622.6	624.1	629.2
52.5°	562.0	556.3	554.1	554.1	549.7	549.0	550.5	547.6	548.3	549.0	551.9
55°	492.1	488.4	484.8	481.2	482.0	480.5	477.6	476.9	478.3	479.1	482.7
57.5°	429.3	424.2	419.2	417.7	416.3	416.3	412.7	411.9	413.4	409.7	409.7
60°	369.4	366.5	360.1	357.9	357.9	354.2	351.3	352.8	349.1	348.4	349.1
62.5°	313.8	311.6	307.4	303.0	301.5	300.2	296.5	295.1	293.6	290.7	286.5
65°	265.5	260.5	255.4	252.5	250.4	246.8	244.6	241.7	237.4	235.9	231.6
67.5°	217.1	212.1	207.1	204.9	202.7	200.6	197.0	193.3	188.3	182.5	177.4
70°	174.6	168.1	165.3	159.4	158.0	155.1	150.1	146.5	141.4	134.9	129.8
72.5°	133.5	129.1	124.8	119.7	116.2	114.0	109.7	103.8	98.1	94.5	89.5
75°	95.9	93.8	88.0	82.2	80.8	78.0	72.9	69.2	65.0	59.1	54.9
77.5°	65.0	60.6	57.0	52.0	50.5	47.6	44.7	41.2	38.3	34.6	31.7
80°	38.3	34.6	32.4	28.9	27.4	26.0	23.8	20.9	18.7	17.4	16.6
82.5°	18.7	15.9	15.2	13.0	12.3	11.5	10.1	9.4	7.9	7.9	7.9
85°	6.4	5.1	5.1	4.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	0.7
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°	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8
2.5°	1868.6	1867.8	1867.1	1866.4	1866.4	1865.8	1865.8	1865.0	1865.0	1864.3	1864.3
5°	1855.6	1853.5	1852.0	1850.6	1850.6	1848.4	1846.9	1845.5	1844.8	1844.8	1843.3
7.5°	1837.6	1834.7	1831.8	1829.6	1829.0	1825.3	1822.4	1822.4	1819.5	1818.2	1816.7
10°	1813.8	1808.7	1804.4	1802.2	1799.3	1797.2	1793.5	1791.4	1789.3	1785.6	1784.9
12.5°	1781.4	1777.7	1771.2	1768.4	1766.9	1762.5	1756.7	1753.9	1753.2	1750.3	1748.1
15°	1744.6	1736.6	1730.7	1727.2	1727.2	1719.9	1717.1	1712.8	1709.8	1707.7	1706.9
17.5°	1696.9	1689.0	1683.1	1678.1	1676.7	1671.0	1666.6	1665.1	1661.5	1663.0	1659.3
20°	1635.5	1629.1	1624.7	1618.3	1618.3	1614.6	1613.2	1609.5	1608.2	1606.7	1608.2
22.5°	1569.9	1561.9	1554.8	1554.0	1554.0	1548.9	1548.2	1547.6	1544.7	1546.9	1546.1
25°	1492.7	1486.9	1482.6	1481.9	1481.9	1479.0	1476.1	1477.5	1479.7	1479.0	1481.2
27.5°	1412.7	1406.9	1405.4	1404.7	1403.2	1402.5	1403.9	1403.9	1406.1	1409.0	1411.9
30°	1326.1	1324.6	1322.5	1321.7	1320.3	1323.9	1325.4	1327.4	1326.8	1331.1	1334.0
32.5°	1239.5	1236.6	1235.9	1237.3	1239.5	1238.8	1243.0	1244.5	1246.0	1251.0	1253.2
35°	1152.2	1151.5	1150.0	1150.0	1150.7	1156.6	1156.6	1161.6	1164.5	1165.9	1171.6
37.5°	1058.3	1061.2	1062.7	1064.9	1065.6	1067.8	1069.2	1074.2	1077.2	1080.1	1083.0
40°	972.6	971.1	977.6	973.2	974.7	981.2	984.1	983.4	987.7	992.0	994.9
42.5°	880.9	883.1	884.5	886.0	889.5	890.3	893.9	899.0	900.3	905.4	906.9
45°	792.1	792.9	795.8	798.7	800.9	806.6	808.0	810.2	814.5	814.5	816.7
47.5°	708.5	711.4	711.4	715.6	719.3	718.6	723.6	725.1	724.4	727.9	729.4
50°	628.4	632.7	632.0	634.9	636.3	637.1	641.4	642.8	640.0	643.5	644.2
52.5°	551.9	554.1	556.9	557.8	556.3	559.8	558.4	561.3	560.6	563.5	560.6
55°	482.0	481.2	481.2	482.7	481.2	482.7	484.2	481.2	479.1	482.0	481.2
57.5°	411.9	411.9	410.6	412.7	410.6	408.4	407.7	405.5	403.3	403.3	402.6
60°	346.3	344.9	342.0	341.2	341.2	337.6	336.3	333.3	333.3	330.4	327.5
62.5°	285.0	281.4	279.2	279.2	277.7	274.2	267.7	263.3	261.9	257.6	256.8
65°	227.2	223.7	221.5	217.1	213.6	212.1	205.6	200.6	198.4	194.1	194.8
67.5°	174.6	168.8	162.4	159.4	157.3	152.3	150.1	146.5	144.3	144.3	144.3
70°	125.6	120.5	114.0	111.8	110.4	106.0	103.8	103.2	105.3	104.6	105.3
72.5°	84.4	79.4	76.5	75.0	73.6	71.4	72.9	73.6	72.1	72.9	73.6
75°	51.2	49.8	47.6	46.9	46.9	47.6	46.9	46.9	47.6	47.6	48.3
77.5°	29.6	28.2	28.2	27.4	28.9	28.2	28.2	28.2	28.9	28.9	28.9
80°	15.9	15.9	15.9	15.9	16.6	15.9	16.6	16.6	16.6	16.6	16.6
82.5°	7.9	7.9	7.9	8.6	8.6	8.6	8.6	8.6	8.6	8.6	7.9
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	0.7	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7
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: P858065

CATALOG NUMBER: LX4C40D010 EX4C409030 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8
2.5°	1862.8	1862.8	1862.8	1861.4	1862.1	1862.1	1861.4	1861.4
5°	1842.6	1842.0	1840.5	1840.5	1839.0	1840.5	1839.8	1840.5
7.5°	1815.2	1815.2	1813.1	1813.1	1812.3	1811.6	1810.9	1811.6
10°	1782.7	1782.7	1781.4	1780.5	1781.4	1778.4	1778.4	1777.7
12.5°	1746.6	1745.2	1743.7	1744.6	1743.7	1741.7	1740.9	1741.7
15°	1704.9	1702.7	1703.4	1701.2	1701.2	1700.5	1701.9	1701.9
17.5°	1658.6	1657.2	1655.8	1656.5	1655.1	1655.8	1655.1	1654.3
20°	1607.5	1606.7	1606.7	1603.8	1604.6	1603.8	1604.6	1606.7
22.5°	1548.2	1547.6	1548.2	1546.1	1547.6	1547.6	1549.7	1549.7
25°	1483.4	1482.6	1484.1	1484.8	1485.5	1487.6	1485.5	1486.3
27.5°	1411.2	1413.4	1415.5	1416.2	1419.1	1416.9	1415.5	1417.7
30°	1338.4	1338.4	1337.6	1340.4	1342.6	1344.8	1341.2	1341.2
32.5°	1254.6	1258.2	1258.2	1258.9	1261.1	1261.1	1261.1	1264.0
35°	1174.5	1176.7	1177.5	1174.5	1176.0	1175.3	1180.4	1180.4
37.5°	1085.1	1085.1	1085.8	1090.9	1090.9	1088.7	1090.1	1090.1
40°	999.9	1000.7	997.7	999.2	1002.8	1001.4	1002.8	1004.3
42.5°	906.9	912.0	909.1	910.5	909.8	910.5	911.3	911.3
45°	818.1	819.6	819.6	820.3	821.8	823.2	818.9	818.1
47.5°	731.5	732.3	734.5	730.8	735.2	730.8	735.2	730.1
50°	644.2	647.1	645.0	646.4	644.2	644.2	643.5	642.8
52.5°	561.3	560.6	560.6	559.8	559.8	561.3	559.8	562.0
55°	478.3	479.1	477.6	476.9	476.2	478.3	476.2	474.7
57.5°	399.7	401.1	398.2	399.7	394.7	396.7	397.6	398.2
60°	326.8	324.6	324.6	321.8	321.8	324.0	321.1	321.1
62.5°	253.2	254.7	252.5	255.4	255.4	258.3	256.8	258.3
65°	194.1	194.8	195.5	195.5	195.5	199.9	198.4	196.2
67.5°	146.5	147.2	147.9	147.2	149.4	147.9	147.9	148.6
70°	106.0	106.7	107.5	107.5	106.7	107.5	107.5	107.5
72.5°	73.6	74.3	73.6	74.3	75.0	74.3	74.3	75.0
75°	48.3	48.3	47.6	47.6	47.6	47.6	48.3	47.6
77.5°	28.2	28.9	28.2	28.9	28.9	28.9	28.9	28.9
80°	16.6	16.6	16.6	15.9	16.6	16.6	16.6	15.9
82.5°	8.6	8.6	7.9	7.9	8.6	8.6	8.6	8.6
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)