

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: P857852

Luminaire Tested: **LX4C35D010 EX4C359835 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857852
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 EX4C359835 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

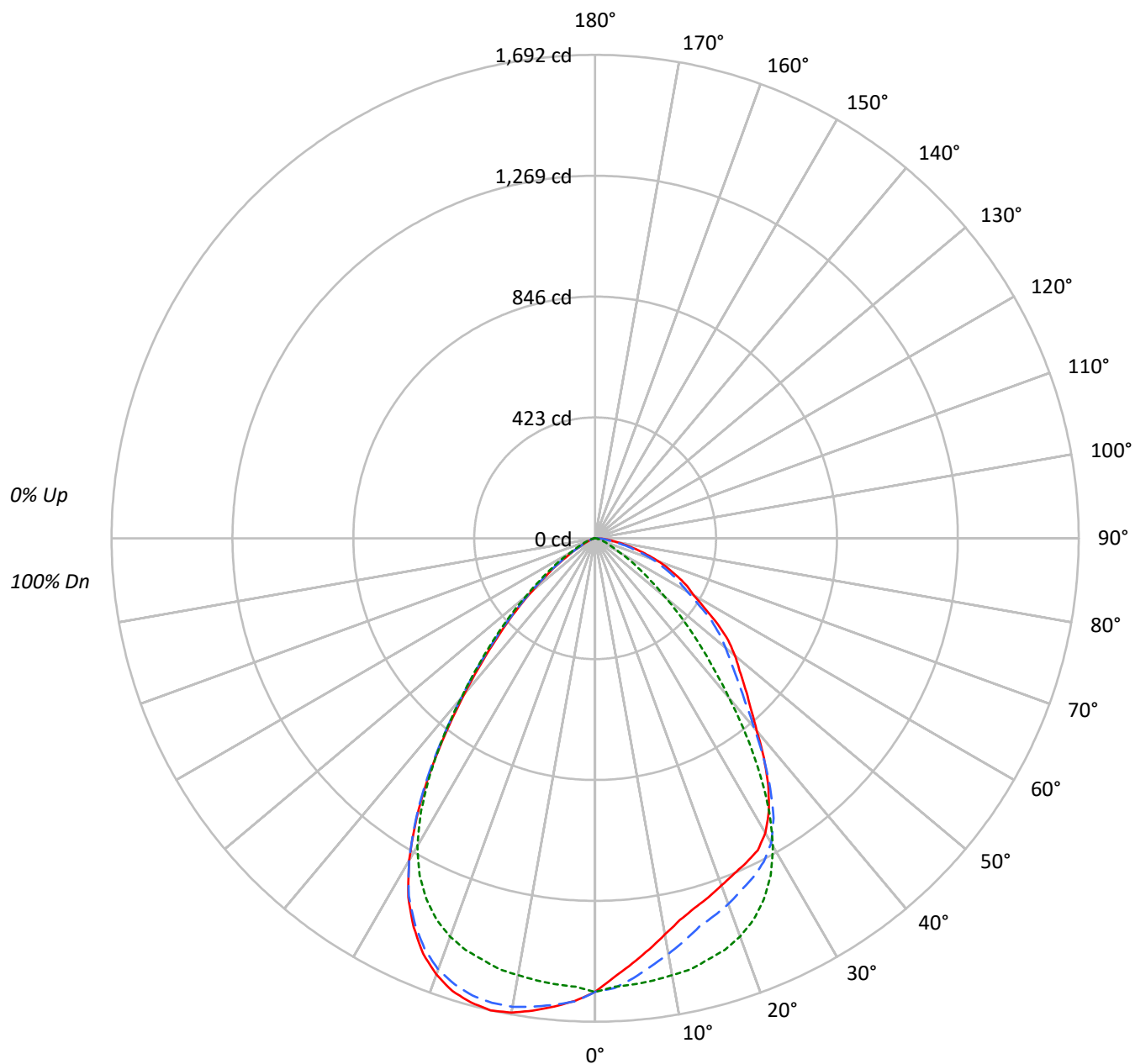
Lumens per Lamp: N/A
Luminaire Lumens: 2783.1 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	195054	195054	195054
5°	184195	193271	202866
10°	175609	193722	210314
15°	170444	194139	213904
20°	169044	193937	212397
25°	169740	189152	203575
30°	168926	176473	184587
35°	158330	150666	152196
40°	141097	116816	114202
45°	129037	87079	81763
50°	121996	61007	55140
55°	112192	41188	34613
60°	98037	24128	19116
65°	92790	15436	10698
70°	84520	11027	6645
75°	69919	7737	4889
80°	55042	4386	2901
85°	49054	2960	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	5.4
10°-20°	430.4	15.5
20°-30°	638.0	22.9
30°-40°	638.8	23.0
40°-50°	446.5	16.0
50°-60°	265.7	9.5
60°-70°	138.7	5.0
70°-80°	61.7	2.2
80°-90°	13.5	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°	1218.3	43.8
0°-40°	1857.2	66.7
0°-60°	2569.4	92.3
0°-90°	2783.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2783.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1588	1588	1588	1588	1588	
5°	1494	1545	1567	1639	1645	140
15°	1340	1408	1526	1657	1682	379
25°	1252	1310	1395	1492	1502	577
35°	1056	1068	1005	1023	1015	655
45°	743	706	501	485	471	577
55°	524	491	192	168	162	465
65°	319	293	53	39	37	316
75°	147	129	16	10	10	159
85°	35	27	2	2	0	39
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°	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7
2.5°	1536.6	1555.0	1536.6	1542.7	1567.2	1544.8	1557.0	1557.0	1550.9	1565.2	1575.4
5°	1493.6	1512.0	1493.6	1501.8	1528.4	1505.9	1520.2	1516.1	1518.2	1530.5	1544.8
7.5°	1450.7	1465.0	1448.5	1458.8	1483.4	1465.0	1477.2	1477.2	1479.3	1497.7	1510.0
10°	1407.7	1419.9	1407.7	1415.8	1442.5	1426.2	1434.3	1436.3	1442.5	1458.8	1477.2
12.5°	1368.7	1379.1	1366.8	1379.1	1401.5	1385.1	1395.4	1397.4	1403.6	1422.1	1442.5
15°	1340.1	1350.4	1338.1	1348.3	1368.7	1356.5	1364.7	1368.7	1372.8	1389.2	1407.7
17.5°	1317.7	1325.8	1315.6	1327.9	1344.2	1329.9	1342.2	1342.2	1348.3	1364.7	1385.1
20°	1293.0	1301.2	1293.0	1303.4	1321.7	1309.5	1319.7	1319.7	1325.8	1344.2	1362.7
22.5°	1270.6	1274.7	1270.6	1278.8	1297.1	1287.0	1293.0	1295.2	1301.2	1317.7	1334.0
25°	1252.2	1260.3	1256.3	1264.4	1276.7	1266.5	1272.6	1274.7	1280.8	1295.2	1309.5
27.5°	1231.7	1235.8	1231.7	1241.9	1252.2	1244.0	1250.1	1248.1	1252.2	1264.4	1276.7
30°	1190.8	1194.9	1194.9	1201.0	1209.2	1205.2	1211.3	1205.2	1209.2	1219.5	1231.7
32.5°	1131.4	1133.5	1135.5	1141.7	1147.9	1141.7	1145.8	1145.8	1145.8	1154.0	1162.2
35°	1055.7	1059.8	1057.8	1061.9	1068.0	1066.0	1066.0	1063.9	1059.8	1063.9	1068.0
37.5°	969.9	963.6	963.6	969.9	974.0	965.8	969.9	965.8	965.8	967.7	967.7
40°	879.8	873.6	879.8	881.8	883.9	879.8	877.7	873.6	867.5	869.5	865.5
42.5°	804.2	800.0	802.0	802.0	804.2	800.0	802.0	793.8	787.7	783.6	777.5
45°	742.7	736.6	742.7	738.6	738.6	736.6	734.5	730.4	722.2	716.2	705.9
47.5°	685.4	685.4	687.4	687.4	687.4	683.3	683.3	675.1	667.0	658.8	644.6
50°	638.3	634.3	642.4	642.4	636.3	634.3	636.3	626.1	619.9	609.7	595.3
52.5°	587.2	587.2	589.3	589.3	587.2	583.1	585.2	577.0	570.8	560.6	546.3
55°	523.8	519.7	525.9	525.9	523.8	521.8	523.8	517.7	511.5	503.4	491.0
57.5°	452.2	450.2	454.2	456.3	452.2	452.2	454.2	448.1	446.0	437.8	425.5
60°	399.0	396.9	401.0	403.1	399.0	399.0	399.0	390.8	386.7	378.5	370.3
62.5°	362.1	360.1	364.2	362.1	360.1	358.0	360.1	352.0	347.9	339.7	331.5
65°	319.2	321.2	323.3	323.3	321.2	319.2	319.2	315.1	311.0	302.8	292.6
67.5°	278.2	278.2	280.3	282.3	280.3	280.3	280.3	274.1	270.0	264.0	251.6
70°	235.3	233.3	239.4	239.4	235.3	237.3	235.3	233.3	229.2	221.0	210.8
72.5°	190.2	190.2	192.3	192.3	190.2	190.2	190.2	188.2	182.1	178.0	167.8
75°	147.3	147.3	149.4	151.4	147.3	147.3	149.4	145.3	141.2	135.1	128.9
77.5°	110.5	108.4	110.5	110.5	108.4	108.4	108.4	106.5	104.3	98.2	92.1
80°	77.8	75.7	77.8	77.8	77.8	75.7	75.7	73.7	73.7	69.6	63.4
82.5°	53.1	51.2	53.1	53.1	53.1	51.2	51.2	51.2	49.0	47.1	43.0
85°	34.8	32.7	32.7	34.8	32.7	32.7	32.7	32.7	30.7	28.6	26.7
87.5°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	14.4	14.4	14.4	12.3
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°	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7
2.5°	1567.2	1563.2	1575.4	1571.3	1573.4	1563.2	1579.5	1571.3	1581.6	1571.3	1591.8
5°	1540.7	1536.6	1555.0	1552.9	1555.0	1546.8	1565.2	1563.2	1575.4	1567.2	1589.7
7.5°	1512.0	1507.9	1528.4	1530.5	1534.6	1526.4	1550.9	1550.9	1563.2	1561.1	1585.6
10°	1479.3	1481.3	1501.8	1505.9	1514.1	1510.0	1532.5	1538.6	1555.0	1552.9	1583.6
12.5°	1448.5	1448.5	1475.2	1483.4	1489.5	1487.5	1514.1	1522.3	1540.7	1544.8	1573.4
15°	1418.0	1419.9	1444.4	1456.7	1465.0	1462.9	1491.5	1501.8	1524.3	1526.4	1561.1
17.5°	1393.3	1391.3	1418.0	1428.1	1440.4	1438.4	1469.1	1481.3	1503.8	1510.0	1542.7
20°	1372.8	1370.9	1395.4	1407.7	1415.8	1413.9	1444.4	1458.8	1479.3	1483.4	1516.1
22.5°	1348.3	1344.2	1368.7	1379.1	1387.2	1385.1	1411.8	1422.1	1442.5	1446.6	1477.2
25°	1319.7	1315.6	1338.1	1344.2	1350.4	1346.4	1368.7	1375.0	1391.3	1395.4	1426.2
27.5°	1287.0	1276.7	1295.2	1295.2	1299.3	1293.0	1309.5	1315.6	1329.9	1329.9	1358.6
30°	1235.8	1221.5	1231.7	1229.7	1231.7	1223.6	1233.8	1235.8	1246.0	1244.0	1264.4
32.5°	1164.2	1143.7	1149.9	1143.7	1137.6	1125.4	1137.6	1133.5	1141.7	1133.5	1151.9
35°	1066.0	1045.6	1043.4	1035.3	1029.2	1018.9	1018.9	1008.7	1010.7	1004.6	1016.9
37.5°	959.6	933.0	928.9	912.6	902.3	890.0	890.0	881.8	871.6	867.5	877.7
40°	855.2	826.6	816.4	789.8	779.5	767.3	759.1	748.9	744.8	728.4	736.6
42.5°	765.2	734.5	712.1	683.3	673.2	654.7	642.4	630.2	624.0	605.6	613.8
45°	689.5	652.7	628.1	591.2	577.0	556.5	538.1	523.8	509.5	501.2	497.1
47.5°	626.1	587.2	554.5	513.6	491.0	472.6	448.1	433.7	415.4	405.1	399.0
50°	572.9	529.9	493.1	446.0	423.6	403.1	374.4	352.0	335.6	319.2	315.1
52.5°	525.9	480.8	439.9	386.7	360.1	335.6	304.9	280.3	265.9	247.5	245.5
55°	470.6	431.8	386.7	331.5	304.9	280.3	247.5	223.0	204.6	192.3	188.2
57.5°	411.3	374.4	331.5	276.3	249.6	223.0	192.3	169.8	153.5	143.2	141.2
60°	356.1	321.2	280.3	225.1	198.4	175.9	143.2	120.7	106.5	98.2	94.1
62.5°	315.1	282.3	243.5	192.3	167.8	145.3	114.6	94.1	81.8	73.7	69.6
65°	276.3	243.5	208.7	161.6	141.2	120.7	92.1	73.7	61.4	53.1	49.0
67.5°	235.3	206.7	173.9	135.1	114.6	98.2	73.7	57.2	47.1	40.9	36.8
70°	194.3	167.8	141.2	108.4	94.1	77.8	57.2	45.0	34.8	30.7	26.7
72.5°	153.5	133.0	110.5	83.9	71.6	61.4	45.0	32.7	26.7	22.6	18.5
75°	114.6	100.2	81.8	63.4	53.1	45.0	32.7	24.5	20.4	16.3	14.4
77.5°	81.8	69.6	57.2	43.0	38.9	32.7	22.6	18.5	14.4	10.3	8.2
80°	55.3	49.0	38.9	30.7	24.5	22.6	16.3	12.3	8.2	6.2	6.2
82.5°	36.8	30.7	24.5	18.5	16.3	14.4	10.3	8.2	6.2	4.1	4.1
85°	22.6	18.5	14.4	10.3	10.3	8.2	6.2	4.1	2.1	2.1	2.1
87.5°	10.3	8.2	6.2	4.1	4.1	2.1	2.1	2.1	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°	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7
2.5°	1608.2	1596.0	1587.7	1597.9	1602.0	1596.0	1602.0	1612.3	1622.5	1624.6	1596.0
5°	1610.3	1597.9	1593.8	1606.1	1608.2	1606.1	1612.3	1626.6	1638.9	1643.0	1614.3
7.5°	1610.3	1602.0	1600.0	1614.3	1616.4	1614.3	1624.6	1640.9	1653.2	1661.4	1632.7
10°	1606.1	1602.0	1604.1	1616.4	1620.5	1620.5	1634.8	1653.2	1665.4	1673.6	1645.0
12.5°	1600.0	1600.0	1600.0	1614.3	1618.4	1620.5	1632.7	1657.3	1665.4	1677.7	1649.1
15°	1589.7	1589.7	1589.7	1604.1	1610.3	1610.3	1624.6	1647.0	1657.3	1669.5	1640.9
17.5°	1571.3	1571.3	1573.4	1585.6	1591.8	1591.8	1606.1	1630.7	1636.8	1651.1	1622.5
20°	1544.8	1544.8	1546.8	1559.1	1565.2	1561.1	1579.5	1600.0	1606.1	1618.4	1589.7
22.5°	1505.9	1505.9	1505.9	1518.2	1522.3	1520.2	1538.6	1557.0	1557.0	1573.4	1542.7
25°	1448.5	1452.6	1448.5	1460.9	1465.0	1462.9	1479.3	1495.6	1491.5	1510.0	1479.3
27.5°	1379.1	1376.9	1376.9	1387.2	1387.2	1385.1	1397.4	1415.8	1411.8	1424.0	1395.4
30°	1282.9	1289.0	1278.8	1293.0	1287.0	1282.9	1291.1	1307.4	1301.2	1311.5	1289.0
32.5°	1172.4	1164.2	1164.2	1164.2	1168.3	1158.1	1166.2	1174.4	1168.3	1178.5	1154.0
35°	1027.1	1029.2	1023.0	1025.1	1027.1	1014.8	1023.0	1031.2	1023.0	1029.2	1006.7
37.5°	881.8	883.9	869.5	877.7	869.5	865.5	873.6	877.7	869.5	875.7	851.2
40°	736.6	732.5	730.4	730.4	732.5	722.2	728.4	734.5	728.4	732.5	710.0
42.5°	609.7	607.7	603.6	605.6	599.4	597.5	599.4	605.6	599.4	603.6	587.2
45°	499.2	495.1	489.0	491.0	491.0	480.8	486.9	491.0	484.9	486.9	472.6
47.5°	396.9	390.8	390.8	388.7	388.7	384.7	390.8	388.7	382.6	386.7	372.4
50°	309.0	304.9	304.9	304.9	304.9	298.6	300.8	304.9	298.6	298.6	290.5
52.5°	241.4	235.3	231.2	231.2	231.2	229.2	229.2	231.2	225.1	225.1	223.0
55°	182.1	180.0	173.9	173.9	173.9	167.8	169.8	169.8	167.8	167.8	161.6
57.5°	135.1	128.9	124.8	124.8	120.7	120.7	118.7	120.7	116.6	116.6	112.5
60°	90.0	85.9	83.9	81.8	81.8	79.8	81.8	79.8	79.8	77.8	75.7
62.5°	65.5	61.4	57.2	57.2	57.2	55.3	55.3	55.3	55.3	55.3	53.1
65°	47.1	43.0	43.0	40.9	40.9	38.9	38.9	38.9	38.9	38.9	36.8
67.5°	32.7	30.7	28.6	28.6	28.6	28.6	28.6	28.6	26.7	26.7	26.7
70°	24.5	22.6	20.4	20.4	20.4	20.4	20.4	18.5	20.4	20.4	18.5
72.5°	16.3	16.3	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
75°	12.3	12.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
77.5°	8.2	8.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
80°	6.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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: P857852

CATALOG NUMBER: LX4C35D010 EX4C359835 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7
2.5°	1626.6	1624.6	1620.5	1626.6	1610.3	1604.1	1602.0	1620.5
5°	1649.1	1645.0	1645.0	1651.1	1632.7	1628.7	1624.6	1645.0
7.5°	1669.5	1665.4	1665.4	1671.7	1655.3	1651.1	1647.0	1667.6
10°	1681.8	1681.8	1681.8	1685.9	1671.7	1667.6	1665.4	1685.9
12.5°	1688.0	1688.0	1685.9	1694.0	1675.8	1675.8	1671.7	1692.1
15°	1679.8	1679.8	1679.8	1685.9	1669.5	1665.4	1665.4	1681.8
17.5°	1659.4	1659.4	1657.3	1663.5	1645.0	1645.0	1643.0	1661.4
20°	1628.7	1628.7	1624.6	1632.7	1614.3	1608.2	1606.1	1624.6
22.5°	1579.5	1577.5	1575.4	1579.5	1563.2	1559.1	1557.0	1573.4
25°	1516.1	1514.1	1510.0	1514.1	1495.6	1489.5	1489.5	1501.8
27.5°	1426.2	1426.2	1419.9	1426.2	1405.6	1403.6	1401.5	1415.8
30°	1315.6	1307.4	1303.4	1311.5	1291.1	1291.1	1287.0	1301.2
32.5°	1178.5	1170.3	1168.3	1172.4	1154.0	1147.9	1156.0	1164.2
35°	1021.0	1023.0	1014.8	1014.8	998.5	1000.4	1002.6	1014.8
37.5°	869.5	865.5	863.4	865.5	853.2	849.1	845.0	857.3
40°	728.4	718.1	716.2	716.2	705.9	703.9	705.9	712.1
42.5°	595.3	593.4	585.2	589.3	579.0	583.1	581.1	581.1
45°	480.8	482.8	474.7	480.8	472.6	466.5	466.5	470.6
47.5°	380.6	380.6	378.5	378.5	372.4	374.4	370.3	376.5
50°	294.6	294.6	290.5	292.6	288.5	288.5	286.4	288.5
52.5°	225.1	223.0	223.0	221.0	216.9	218.9	221.0	216.9
55°	163.7	165.7	161.6	163.7	159.6	161.6	159.6	161.6
57.5°	112.5	114.6	110.5	114.6	110.5	112.5	110.5	110.5
60°	77.8	77.8	75.7	77.8	75.7	75.7	73.7	77.8
62.5°	53.1	53.1	53.1	53.1	53.1	51.2	53.1	53.1
65°	38.9	36.8	36.8	36.8	36.8	36.8	36.8	36.8
67.5°	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
70°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
72.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
75°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
77.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	0.0	2.1	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)