

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: P858208

Luminaire Tested: **LX4C45D010 EX4C459827 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P858208
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: LX4C45D010 EX4C459827 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

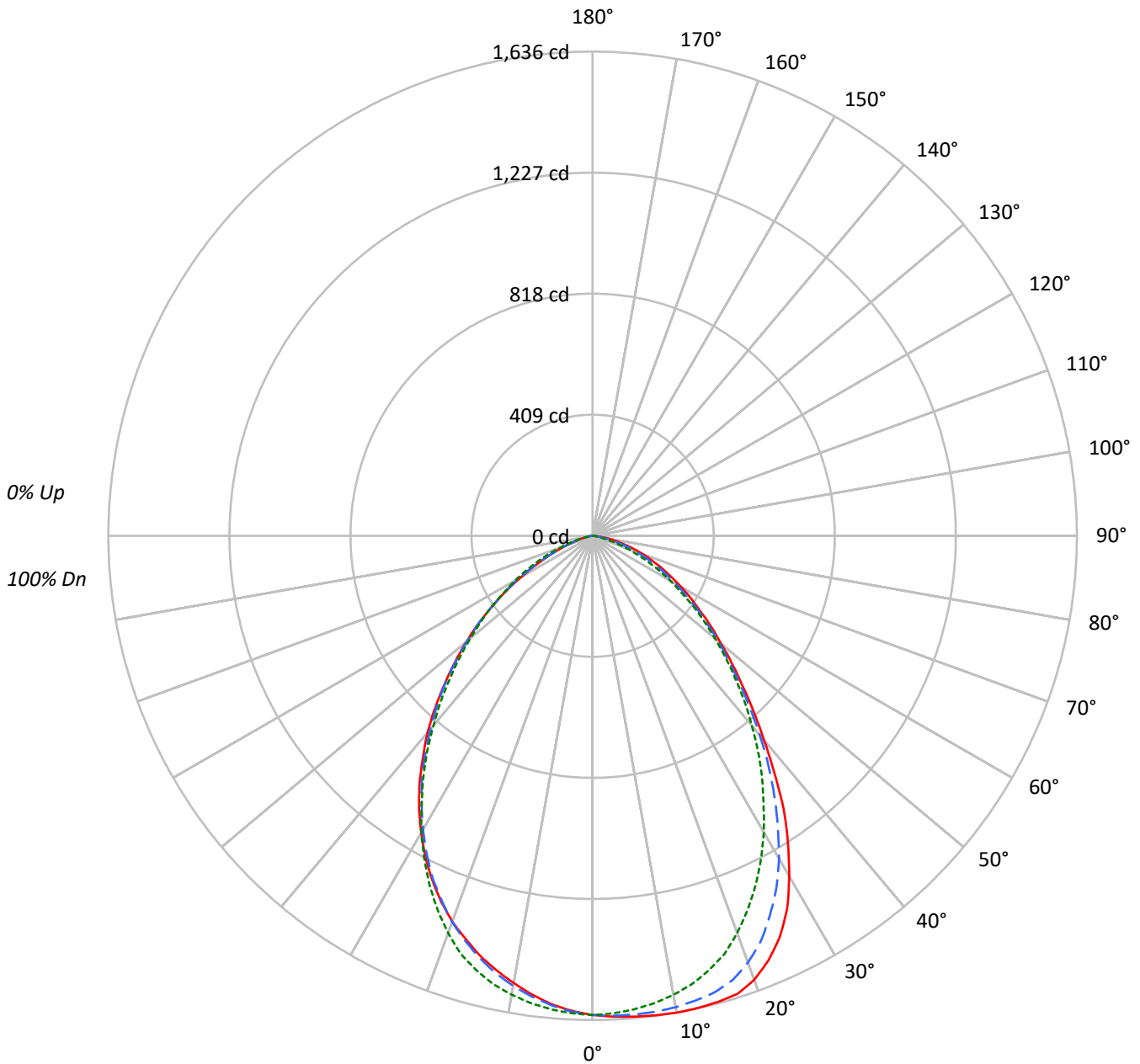
Lumens per Lamp: N/A
Luminaire Lumens: 3051.6 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
Input Current (A_{in}): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35																			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	198924	198924	198924
5°	201152	198069	195923
10°	204101	196404	191427
15°	207455	193274	186851
20°	208762	186694	181320
25°	202775	176600	173902
30°	188445	164145	164230
35°	168693	149631	152811
40°	144433	134137	139028
45°	124312	118266	122713
50°	108082	102960	106056
55°	95100	88567	87774
60°	84621	73909	68110
65°	74215	59215	49244
70°	63758	41847	33334
75°	51739	24256	19509
80°	37001	10612	9693
85°	14096	4370	4370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	5.0
10°-20°	432.0	14.2
20°-30°	616.8	20.2
30°-40°	645.3	21.1
40°-50°	540.7	17.7
50°-60°	378.4	12.4
60°-70°	206.1	6.8
70°-80°	71.5	2.3
80°-90°	8.2	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°	1201.4	39.4
0°-40°	1846.7	60.5
0°-60°	2765.8	90.6
0°-90°	3051.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3051.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1619	1619	1619	1619	1619	
5°	1631	1624	1606	1592	1589	156
15°	1631	1597	1520	1476	1469	461
25°	1496	1416	1303	1277	1283	683
35°	1125	1069	998	1005	1019	697
45°	716	699	681	703	706	556
55°	444	429	414	414	410	401
65°	255	233	204	171	169	254
75°	109	88	51	41	41	118
85°	10	6	3	3	3	18
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°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1626.7	1624.8	1625.5	1625.5	1625.5	1624.8	1625.5	1624.8	1624.8	1624.2	1623.0
5°	1631.1	1629.8	1629.8	1629.8	1629.2	1628.6	1628.6	1628.0	1626.7	1626.1	1623.6
7.5°	1634.2	1633.0	1633.0	1632.3	1631.7	1631.1	1630.5	1628.6	1626.7	1625.5	1622.3
10°	1636.1	1634.2	1634.2	1633.0	1631.7	1631.1	1629.8	1627.3	1624.8	1621.7	1617.4
12.5°	1634.8	1633.0	1632.3	1631.1	1628.6	1627.3	1626.1	1623.0	1618.6	1614.2	1608.6
15°	1631.1	1629.8	1628.6	1626.7	1623.6	1621.7	1620.5	1615.5	1609.9	1603.6	1596.8
17.5°	1623.6	1621.7	1619.2	1616.7	1612.4	1610.5	1607.4	1601.1	1593.1	1584.4	1573.7
20°	1596.8	1595.6	1593.1	1588.7	1581.9	1579.4	1575.0	1566.9	1556.4	1545.7	1534.5
22.5°	1552.6	1550.7	1547.0	1543.2	1537.0	1532.6	1528.9	1517.7	1505.9	1494.6	1484.0
25°	1495.9	1494.0	1489.0	1484.0	1477.9	1470.4	1466.6	1457.9	1446.0	1431.8	1416.2
27.5°	1423.0	1416.8	1414.9	1409.3	1400.0	1397.5	1391.9	1380.7	1369.4	1357.1	1343.9
30°	1328.4	1328.4	1324.7	1322.2	1313.4	1310.9	1304.7	1292.8	1286.7	1269.2	1259.2
32.5°	1228.1	1226.9	1223.7	1221.9	1216.9	1212.6	1206.3	1200.1	1186.4	1177.6	1164.0
35°	1124.8	1117.3	1118.5	1114.8	1111.6	1106.7	1106.0	1099.2	1086.8	1081.8	1069.3
37.5°	1007.0	1003.9	1008.3	1002.7	999.6	1000.2	995.2	990.8	985.8	977.2	974.7
40°	900.6	903.1	902.4	897.4	899.9	896.8	891.8	887.5	885.0	879.3	877.5
42.5°	805.2	801.5	800.2	800.2	800.9	800.9	798.4	795.3	795.3	789.7	784.1
45°	715.5	715.5	714.3	718.0	712.5	712.5	710.6	710.0	707.5	706.3	699.4
47.5°	638.3	637.7	637.1	636.4	635.8	635.8	632.2	629.0	628.4	624.7	620.9
50°	565.5	569.2	568.0	564.8	563.6	564.2	561.7	559.8	559.2	553.1	553.7
52.5°	504.5	503.8	505.1	503.2	500.1	500.7	498.2	495.7	493.2	490.1	487.6
55°	444.0	447.1	445.9	444.0	443.4	442.2	440.3	437.2	436.6	429.7	429.1
57.5°	393.6	393.0	391.7	388.6	388.0	386.1	386.1	383.6	379.9	376.1	373.0
60°	344.4	344.4	342.5	341.9	339.4	338.8	338.1	335.7	331.3	328.2	323.3
62.5°	297.0	298.3	297.0	295.2	293.3	290.8	289.5	287.8	284.0	280.9	276.5
65°	255.3	254.7	254.1	251.6	250.9	248.5	247.9	244.2	240.4	237.9	232.9
67.5°	215.4	213.6	213.6	212.3	211.2	209.3	208.0	204.3	199.9	197.4	192.4
70°	177.5	176.2	176.2	176.2	173.2	171.3	170.7	168.8	162.6	160.1	155.1
72.5°	142.6	142.0	141.3	139.5	137.6	137.6	135.1	131.4	128.3	125.2	121.5
75°	109.0	110.2	109.0	106.5	105.8	104.6	102.7	99.6	96.5	92.8	88.5
77.5°	79.7	78.5	77.2	77.2	76.0	73.5	72.9	70.4	66.6	64.1	59.7
80°	52.3	51.7	50.5	49.2	48.6	48.0	47.4	44.9	41.1	39.2	35.5
82.5°	28.6	28.0	28.0	27.4	25.5	25.5	24.9	22.4	20.5	19.3	17.5
85°	10.0	10.0	10.0	9.4	9.4	9.4	8.7	8.1	7.5	6.9	5.6
87.5°	1.2	0.6	1.2	0.6	1.2	0.6	0.6	0.6	0.6	0.6	0.6
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°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1621.7	1620.5	1619.8	1619.2	1618.6	1618.0	1617.4	1616.1	1615.5	1614.9	1613.6
5°	1621.7	1619.2	1618.0	1616.1	1614.9	1613.6	1611.7	1609.9	1608.0	1606.1	1604.2
7.5°	1619.2	1615.5	1613.0	1609.2	1608.0	1606.1	1602.4	1599.9	1596.8	1593.1	1588.7
10°	1613.0	1608.6	1603.6	1598.6	1596.8	1593.7	1588.7	1584.4	1579.4	1574.4	1570.0
12.5°	1603.0	1596.2	1590.0	1583.1	1579.4	1576.2	1569.4	1563.1	1557.0	1551.4	1543.9
15°	1588.1	1580.0	1571.9	1562.5	1558.2	1554.5	1544.5	1537.0	1527.0	1519.6	1512.1
17.5°	1563.8	1551.4	1541.4	1529.5	1523.3	1519.0	1510.3	1498.4	1489.0	1481.0	1472.3
20°	1522.0	1510.3	1496.5	1483.4	1476.6	1471.0	1458.5	1446.0	1436.8	1428.0	1418.7
22.5°	1467.3	1452.3	1442.4	1426.2	1420.5	1413.7	1398.8	1387.6	1376.9	1368.2	1359.5
25°	1400.7	1387.6	1373.8	1358.9	1352.1	1343.9	1331.5	1319.7	1312.8	1302.8	1292.2
27.5°	1324.1	1313.4	1296.6	1283.6	1276.7	1270.5	1258.6	1248.1	1238.1	1231.2	1221.2
30°	1243.1	1230.6	1215.6	1202.0	1198.2	1190.7	1180.1	1172.1	1161.5	1157.1	1152.8
32.5°	1154.0	1139.6	1128.5	1119.8	1112.3	1106.0	1100.4	1087.4	1085.5	1074.3	1073.0
35°	1056.9	1050.7	1040.0	1032.5	1026.3	1021.9	1012.7	1006.4	999.6	997.7	993.3
37.5°	965.3	957.8	947.8	941.1	936.7	936.1	929.2	925.4	920.5	918.0	913.0
40°	869.4	866.3	857.6	856.3	849.5	848.8	845.1	840.7	836.4	836.4	837.0
42.5°	781.0	777.2	773.5	769.1	765.4	765.4	763.5	762.3	761.0	759.1	762.3
45°	698.1	693.2	690.7	686.3	688.2	684.4	683.2	683.2	681.3	680.7	685.0
47.5°	620.9	615.3	612.8	611.6	611.6	612.2	606.6	608.4	607.8	609.1	610.9
50°	550.6	545.6	541.8	541.8	542.4	539.9	537.5	539.3	537.5	538.7	543.1
52.5°	485.1	480.2	478.3	478.3	474.6	474.0	475.2	472.7	473.3	474.0	476.5
55°	424.7	421.6	418.5	415.4	416.0	414.7	412.3	411.6	412.9	413.5	416.6
57.5°	370.5	366.1	361.9	360.6	359.4	359.4	356.3	355.6	356.9	353.8	353.8
60°	318.9	316.4	310.8	308.9	308.9	305.8	303.3	304.5	301.4	300.8	301.4
62.5°	270.9	269.0	265.3	261.5	260.3	259.1	255.9	254.7	253.4	250.9	247.3
65°	229.2	224.8	220.4	217.9	216.1	212.9	211.2	208.7	204.9	203.7	199.9
67.5°	187.4	183.1	178.7	176.8	175.0	173.2	170.1	166.9	162.6	157.6	153.2
70°	150.7	145.1	142.6	137.6	136.3	133.9	129.6	126.4	122.1	116.5	112.1
72.5°	115.2	111.5	107.7	103.4	100.2	98.4	94.7	89.7	84.7	81.6	77.2
75°	82.8	81.0	76.0	71.0	69.7	67.2	62.9	59.7	56.1	51.1	47.4
77.5°	56.1	52.3	49.2	44.9	43.6	41.1	38.6	35.5	33.0	29.9	27.4
80°	33.0	29.9	28.0	24.9	23.6	22.4	20.5	18.1	16.2	15.0	14.4
82.5°	16.2	13.7	13.1	11.2	10.6	10.0	8.7	8.1	6.9	6.9	6.9
85°	5.6	4.4	4.4	3.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	0.6
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°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1613.0	1612.4	1611.7	1611.1	1611.1	1610.5	1610.5	1609.9	1609.9	1609.2	1609.2
5°	1601.7	1599.9	1598.6	1597.5	1597.5	1595.6	1594.3	1593.1	1592.5	1592.5	1591.2
7.5°	1586.2	1583.7	1581.2	1579.4	1578.7	1575.6	1573.1	1573.1	1570.6	1569.4	1568.1
10°	1565.6	1561.3	1557.6	1555.7	1553.2	1551.4	1548.2	1546.4	1544.5	1541.4	1540.8
12.5°	1537.6	1534.5	1528.9	1526.4	1525.1	1521.5	1516.5	1514.0	1513.4	1510.9	1509.0
15°	1505.9	1499.0	1494.0	1490.9	1490.9	1484.7	1482.3	1478.5	1476.0	1474.1	1473.5
17.5°	1464.8	1457.9	1452.9	1448.5	1447.3	1442.4	1438.6	1437.4	1434.3	1435.5	1432.4
20°	1411.8	1406.2	1402.5	1396.9	1396.9	1393.8	1392.5	1389.4	1388.2	1386.9	1388.2
22.5°	1355.2	1348.3	1342.1	1341.4	1341.4	1337.1	1336.5	1335.8	1333.3	1335.2	1334.6
25°	1288.6	1283.6	1279.8	1279.2	1279.2	1276.7	1274.2	1275.5	1277.3	1276.7	1278.6
27.5°	1219.4	1214.4	1213.2	1212.6	1211.3	1210.7	1212.0	1212.0	1213.7	1216.2	1218.7
30°	1144.6	1143.4	1141.5	1140.9	1139.6	1142.8	1144.0	1145.9	1145.3	1149.0	1151.5
32.5°	1069.9	1067.4	1066.8	1068.0	1069.9	1069.3	1073.0	1074.3	1075.5	1079.9	1081.8
35°	994.6	993.9	992.7	992.7	993.3	998.3	998.3	1002.7	1005.2	1006.4	1011.4
37.5°	913.6	916.1	917.3	919.2	919.8	921.7	923.0	927.3	929.8	932.3	934.8
40°	839.5	838.2	843.9	840.1	841.4	847.0	849.5	848.8	852.6	856.3	858.8
42.5°	760.4	762.3	763.5	764.8	767.9	768.5	771.6	776.0	777.2	781.6	782.9
45°	683.8	684.4	686.9	689.4	691.3	696.3	697.5	699.4	703.1	703.1	705.0
47.5°	611.6	614.1	614.1	617.8	620.9	620.3	624.7	625.9	625.3	628.4	629.7
50°	542.4	546.2	545.6	548.1	549.3	549.9	553.7	554.9	552.4	555.6	556.2
52.5°	476.5	478.3	480.8	481.5	480.2	483.2	482.0	484.5	483.9	486.4	483.9
55°	416.0	415.4	415.4	416.6	415.4	416.6	417.9	415.4	413.5	416.0	415.4
57.5°	355.6	355.6	354.4	356.3	354.4	352.5	351.9	350.0	348.1	348.1	347.5
60°	298.9	297.7	295.2	294.5	294.5	291.4	290.2	287.8	287.8	285.3	282.8
62.5°	246.0	242.9	241.0	241.0	239.8	236.7	231.1	227.3	226.1	222.3	221.7
65°	196.2	193.1	191.2	187.4	184.3	183.1	177.5	173.2	171.3	167.6	168.2
67.5°	150.7	145.7	140.1	137.6	135.7	131.4	129.6	126.4	124.6	124.6	124.6
70°	108.3	104.0	98.4	96.5	95.3	91.6	89.7	89.1	91.0	90.3	91.0
72.5°	72.9	68.5	66.0	64.7	63.5	61.6	62.9	63.5	62.2	62.9	63.5
75°	44.2	43.0	41.1	40.5	40.5	41.1	40.5	40.5	41.1	41.1	41.7
77.5°	25.5	24.3	24.3	23.6	24.9	24.3	24.3	24.3	24.9	24.9	24.9
80°	13.7	13.7	13.7	13.7	14.4	13.7	14.4	14.4	14.4	14.4	14.4
82.5°	6.9	6.9	6.9	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.9
85°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
87.5°	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
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: P858208

CATALOG NUMBER: LX4C45D010 EX4C459827 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1608.0	1608.0	1608.0	1606.7	1607.4	1607.4	1606.7	1606.7
5°	1590.6	1590.0	1588.7	1588.7	1587.5	1588.7	1588.1	1588.7
7.5°	1566.9	1566.9	1565.0	1565.0	1564.4	1563.8	1563.1	1563.8
10°	1538.9	1538.9	1537.6	1537.0	1537.6	1535.1	1535.1	1534.5
12.5°	1507.8	1506.5	1505.3	1505.9	1505.3	1503.4	1502.8	1503.4
15°	1471.6	1469.8	1470.4	1468.5	1468.5	1467.9	1469.1	1469.1
17.5°	1431.8	1430.5	1429.3	1429.9	1428.7	1429.3	1428.7	1428.0
20°	1387.6	1386.9	1386.9	1384.4	1385.1	1384.4	1385.1	1386.9
22.5°	1336.5	1335.8	1336.5	1334.6	1335.8	1335.8	1337.7	1337.7
25°	1280.5	1279.8	1281.1	1281.7	1282.3	1284.2	1282.3	1282.9
27.5°	1218.1	1220.0	1221.9	1222.5	1225.0	1223.1	1221.9	1223.7
30°	1155.3	1155.3	1154.6	1157.1	1159.0	1160.9	1157.7	1157.7
32.5°	1083.0	1086.1	1086.1	1086.8	1088.6	1088.6	1088.6	1091.1
35°	1013.9	1015.8	1016.4	1013.9	1015.2	1014.5	1018.9	1018.9
37.5°	936.7	936.7	937.3	941.7	941.7	939.8	941.1	941.1
40°	863.2	863.8	861.3	862.6	865.7	864.5	865.7	866.9
42.5°	782.9	787.2	784.7	786.0	785.4	786.0	786.6	786.6
45°	706.3	707.5	707.5	708.1	709.4	710.6	706.9	706.3
47.5°	631.5	632.2	634.0	630.9	634.7	630.9	634.7	630.3
50°	556.2	558.6	556.8	558.1	556.2	556.2	555.6	554.9
52.5°	484.5	483.9	483.9	483.2	483.2	484.5	483.2	485.1
55°	412.9	413.5	412.3	411.6	411.0	412.9	411.0	409.8
57.5°	345.0	346.3	343.8	345.0	340.6	342.5	343.1	343.8
60°	282.1	280.3	280.3	277.8	277.8	279.7	277.2	277.2
62.5°	218.6	219.8	217.9	220.4	220.4	222.9	221.7	222.9
65°	167.6	168.2	168.8	168.8	168.8	172.6	171.3	169.4
67.5°	126.4	127.1	127.7	127.1	128.9	127.7	127.7	128.3
70°	91.6	92.2	92.8	92.8	92.2	92.8	92.8	92.8
72.5°	63.5	64.1	63.5	64.1	64.7	64.1	64.1	64.7
75°	41.7	41.7	41.1	41.1	41.1	41.1	41.7	41.1
77.5°	24.3	24.9	24.3	24.9	24.9	24.9	24.9	24.9
80°	14.4	14.4	14.4	13.7	14.4	14.4	14.4	13.7
82.5°	7.5	7.5	6.9	6.9	7.5	7.5	7.5	7.5
85°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)