

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: P857826

Luminaire Tested: **LX4C35D010 EX4C359827 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857826
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 EX4C359827 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

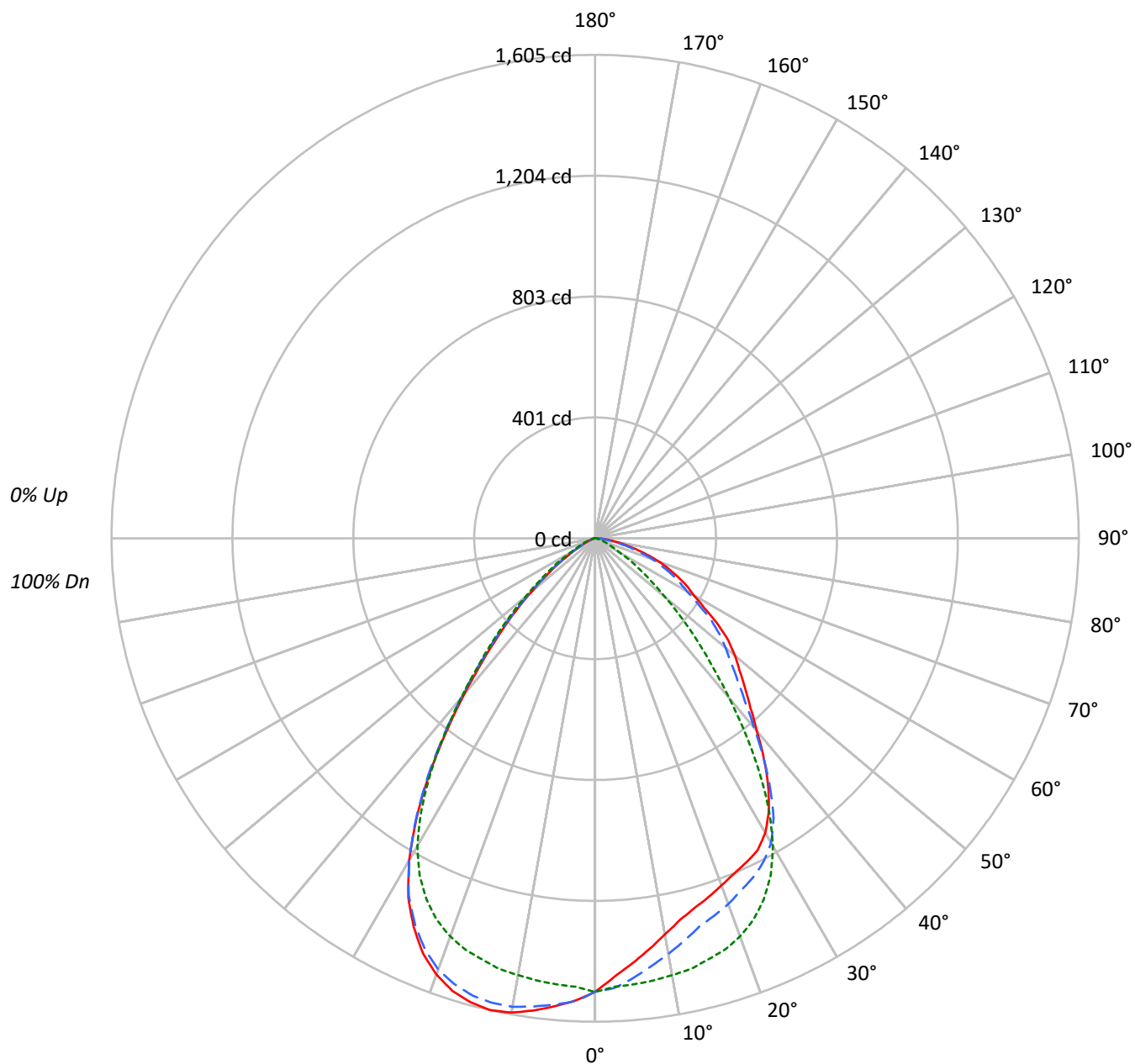
Lumens per Lamp: N/A
Luminaire Lumens: 2639.6 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	184993	184993	184993
5°	174687	183307	192396
10°	166539	183730	199461
15°	161655	184129	202876
20°	160324	183935	201441
25°	160970	179392	193069
30°	160216	167365	175068
35°	150156	142898	144352
40°	133816	110786	108300
45°	122383	82596	77541
50°	115708	57854	52292
55°	106409	39089	32835
60°	92976	22875	18109
65°	87994	14680	10174
70°	80173	10489	6286
75°	66311	7357	4604
80°	52142	4174	2759
85°	46516	2819	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	5.4
10°-20°	408.2	15.5
20°-30°	605.1	22.9
30°-40°	605.9	23.0
40°-50°	423.5	16.0
50°-60°	252.0	9.5
60°-70°	131.5	5.0
70°-80°	58.5	2.2
80°-90°	12.8	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°	1155.5	43.8
0°-40°	1761.4	66.7
0°-60°	2436.8	92.3
0°-90°	2639.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2639.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1506	1506	1506	1506	1506	
5°	1416	1465	1486	1554	1560	133
15°	1271	1335	1448	1572	1595	360
25°	1188	1242	1323	1415	1424	547
35°	1001	1013	953	970	962	621
45°	704	669	475	460	446	547
55°	497	466	182	159	153	441
65°	303	278	50	37	35	299
75°	140	122	16	10	10	151
85°	33	25	2	2	0	37
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°	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8
2.5°	1457.3	1474.8	1457.3	1463.2	1486.4	1465.0	1476.7	1476.7	1470.9	1484.5	1494.2
5°	1416.5	1434.0	1416.5	1424.3	1449.5	1428.1	1441.8	1437.9	1439.9	1451.5	1465.0
7.5°	1375.9	1389.3	1373.8	1383.6	1406.9	1389.3	1401.0	1401.0	1403.0	1420.4	1432.1
10°	1335.0	1346.7	1335.0	1342.8	1368.1	1352.6	1360.4	1362.2	1368.1	1383.6	1401.0
12.5°	1298.2	1307.9	1296.2	1307.9	1329.2	1313.7	1323.4	1325.3	1331.2	1348.7	1368.1
15°	1271.0	1280.7	1269.1	1278.8	1298.2	1286.5	1294.3	1298.2	1302.0	1317.5	1335.0
17.5°	1249.7	1257.4	1247.7	1259.4	1274.9	1261.4	1273.0	1273.0	1278.8	1294.3	1313.7
20°	1226.3	1234.1	1226.3	1236.1	1253.6	1241.9	1251.6	1251.6	1257.4	1274.9	1292.4
22.5°	1205.1	1208.9	1205.1	1212.9	1230.2	1220.6	1226.3	1228.4	1234.1	1249.7	1265.2
25°	1187.5	1195.3	1191.5	1199.2	1210.8	1201.2	1207.0	1208.9	1214.7	1228.4	1241.9
27.5°	1168.2	1172.0	1168.2	1177.9	1187.5	1179.8	1185.7	1183.7	1187.5	1199.2	1210.8
30°	1129.4	1133.2	1133.2	1139.0	1146.9	1142.9	1148.7	1142.9	1146.9	1156.5	1168.2
32.5°	1073.1	1075.1	1077.0	1082.8	1088.6	1082.8	1086.7	1086.7	1086.7	1094.4	1102.2
35°	1001.2	1005.2	1003.2	1007.1	1012.9	1011.0	1011.0	1009.0	1005.2	1009.0	1012.9
37.5°	919.8	913.9	913.9	919.8	923.7	915.9	919.8	915.9	915.9	917.9	917.9
40°	834.4	828.6	834.4	836.4	838.2	834.4	832.4	828.6	822.7	824.7	820.8
42.5°	762.6	758.7	760.7	760.7	762.6	758.7	760.7	752.9	747.0	743.2	737.4
45°	704.4	698.6	704.4	700.5	700.5	698.6	696.6	692.7	684.9	679.2	669.4
47.5°	650.1	650.1	652.0	652.0	652.0	648.1	648.1	640.4	632.6	624.8	611.3
50°	605.4	601.6	609.3	609.3	603.5	601.6	603.5	593.8	588.0	578.3	564.7
52.5°	556.9	556.9	558.9	558.9	556.9	553.0	555.0	547.3	541.4	531.7	518.1
55°	496.8	493.0	498.7	498.7	496.8	494.8	496.8	490.9	485.2	477.4	465.7
57.5°	428.8	426.9	430.8	432.8	428.8	428.8	430.8	425.0	423.0	415.3	403.6
60°	378.4	376.5	380.3	382.3	378.4	378.4	378.4	370.6	366.7	358.9	351.2
62.5°	343.4	341.5	345.5	343.4	341.5	339.6	341.5	333.8	329.9	322.2	314.4
65°	302.7	304.6	306.7	306.7	304.6	302.7	302.7	298.9	295.0	287.2	277.5
67.5°	263.9	263.9	265.8	267.8	265.8	265.8	265.8	260.0	256.1	250.3	238.7
70°	223.2	221.2	227.0	227.0	223.2	225.1	223.2	221.2	217.3	209.6	199.9
72.5°	180.4	180.4	182.5	182.5	180.4	180.4	180.4	178.5	172.6	168.8	159.2
75°	139.7	139.7	141.6	143.6	139.7	139.7	141.6	137.8	133.9	128.1	122.3
77.5°	104.8	102.8	104.8	104.8	102.8	102.8	102.8	100.9	99.0	93.1	87.3
80°	73.7	71.8	73.7	73.7	73.7	71.8	71.8	69.8	69.8	66.0	60.2
82.5°	50.5	48.5	50.5	50.5	50.5	48.5	48.5	48.5	46.5	44.7	40.8
85°	33.0	31.0	31.0	33.0	31.0	31.0	31.0	31.0	29.2	27.2	25.2
87.5°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	13.6	13.6	13.6	11.7
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°	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8
2.5°	1486.4	1482.5	1494.2	1490.3	1492.2	1482.5	1498.0	1490.3	1500.0	1490.3	1509.7
5°	1461.2	1457.3	1474.8	1472.8	1474.8	1467.0	1484.5	1482.5	1494.2	1486.4	1507.8
7.5°	1434.0	1430.2	1449.5	1451.5	1455.4	1447.7	1470.9	1470.9	1482.5	1480.6	1503.8
10°	1403.0	1404.9	1424.3	1428.1	1436.0	1432.1	1453.5	1459.2	1474.8	1472.8	1502.0
12.5°	1373.8	1373.8	1399.1	1406.9	1412.6	1410.7	1436.0	1443.7	1461.2	1465.0	1492.2
15°	1344.8	1346.7	1370.0	1381.6	1389.3	1387.5	1414.7	1424.3	1445.7	1447.7	1480.6
17.5°	1321.5	1319.5	1344.8	1354.5	1366.1	1364.2	1393.3	1404.9	1426.3	1432.1	1463.2
20°	1302.0	1300.2	1323.4	1335.0	1342.8	1340.9	1370.0	1383.6	1403.0	1406.9	1437.9
22.5°	1278.8	1274.9	1298.2	1307.9	1315.7	1313.7	1339.0	1348.7	1368.1	1371.9	1401.0
25°	1251.6	1247.7	1269.1	1274.9	1280.7	1276.9	1298.2	1304.0	1319.5	1323.4	1352.6
27.5°	1220.6	1210.8	1228.4	1228.4	1232.2	1226.3	1241.9	1247.7	1261.4	1261.4	1288.5
30°	1172.0	1158.5	1168.2	1166.2	1168.2	1160.4	1170.1	1172.0	1181.8	1179.8	1199.2
32.5°	1104.2	1084.7	1090.6	1084.7	1078.9	1067.3	1078.9	1075.1	1082.8	1075.1	1092.5
35°	1011.0	991.6	989.7	981.9	976.1	966.4	966.4	956.7	958.6	952.8	964.4
37.5°	910.1	884.9	881.0	865.5	855.7	844.1	844.1	836.4	826.6	822.7	832.4
40°	811.1	783.9	774.3	749.1	739.3	727.7	719.9	710.3	706.3	690.8	698.6
42.5°	725.8	696.6	675.3	648.1	638.4	620.9	609.3	597.6	591.8	574.4	582.1
45°	653.9	619.0	595.8	560.7	547.3	527.8	510.3	496.8	483.1	475.4	471.6
47.5°	593.8	556.9	525.9	487.1	465.7	448.3	425.0	411.4	394.0	384.3	378.4
50°	543.3	502.6	467.6	423.0	401.7	382.3	355.1	333.8	318.3	302.7	298.9
52.5°	498.7	456.0	417.2	366.7	341.5	318.3	289.1	265.8	252.3	234.8	232.8
55°	446.3	409.5	366.7	314.4	289.1	265.8	234.8	211.5	194.0	182.5	178.5
57.5°	390.0	355.1	314.4	262.0	236.8	211.5	182.5	161.0	145.5	135.8	133.9
60°	337.7	304.6	265.8	213.5	188.2	166.9	135.8	114.5	100.9	93.1	89.3
62.5°	298.9	267.8	231.0	182.5	159.2	137.8	108.7	89.3	77.6	69.8	66.0
65°	262.0	231.0	198.0	153.3	133.9	114.5	87.3	69.8	58.2	50.5	46.5
67.5°	223.2	196.0	164.9	128.1	108.7	93.1	69.8	54.3	44.7	38.8	35.0
70°	184.3	159.2	133.9	102.8	89.3	73.7	54.3	42.7	33.0	29.2	25.2
72.5°	145.5	126.1	104.8	79.5	68.0	58.2	42.7	31.0	25.2	21.4	17.5
75°	108.7	95.1	77.6	60.2	50.5	42.7	31.0	23.3	19.4	15.5	13.6
77.5°	77.6	66.0	54.3	40.8	36.9	31.0	21.4	17.5	13.6	9.7	7.8
80°	52.4	46.5	36.9	29.2	23.3	21.4	15.5	11.7	7.8	5.9	5.9
82.5°	35.0	29.2	23.3	17.5	15.5	13.6	9.7	7.8	5.9	3.9	3.9
85°	21.4	17.5	13.6	9.7	9.7	7.8	5.9	3.9	2.0	2.0	2.0
87.5°	9.7	7.8	5.9	3.9	3.9	2.0	2.0	2.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8
2.5°	1525.2	1513.6	1505.8	1515.5	1519.3	1513.6	1519.3	1529.1	1538.9	1540.8	1513.6
5°	1527.2	1515.5	1511.6	1523.3	1525.2	1523.3	1529.1	1542.7	1554.4	1558.2	1531.1
7.5°	1527.2	1519.3	1517.5	1531.1	1533.0	1531.1	1540.8	1556.3	1567.9	1575.6	1548.5
10°	1523.3	1519.3	1521.3	1533.0	1536.8	1536.8	1550.5	1567.9	1579.5	1587.3	1560.1
12.5°	1517.5	1517.5	1517.5	1531.1	1535.0	1536.8	1548.5	1571.8	1579.5	1591.1	1564.0
15°	1507.8	1507.8	1507.8	1521.3	1527.2	1527.2	1540.8	1562.2	1571.8	1583.4	1556.3
17.5°	1490.3	1490.3	1492.2	1503.8	1509.7	1509.7	1523.3	1546.6	1552.3	1566.0	1538.9
20°	1465.0	1465.0	1467.0	1478.7	1484.5	1480.6	1498.0	1517.5	1523.3	1535.0	1507.8
22.5°	1428.1	1428.1	1428.1	1439.9	1443.7	1441.8	1459.2	1476.7	1476.7	1492.2	1463.2
25°	1373.8	1377.7	1373.8	1385.5	1389.3	1387.5	1403.0	1418.5	1414.7	1432.1	1403.0
27.5°	1307.9	1306.0	1306.0	1315.7	1315.7	1313.7	1325.3	1342.8	1339.0	1350.5	1323.4
30°	1216.7	1222.5	1212.9	1226.3	1220.6	1216.7	1224.5	1240.0	1234.1	1243.9	1222.5
32.5°	1111.9	1104.2	1104.2	1104.2	1108.0	1098.4	1106.1	1113.9	1108.0	1117.7	1094.4
35°	974.1	976.1	970.2	972.2	974.1	962.5	970.2	978.0	970.2	976.1	954.7
37.5°	836.4	838.2	824.7	832.4	824.7	820.8	828.6	832.4	824.7	830.5	807.2
40°	698.6	694.8	692.7	692.7	694.8	684.9	690.8	696.6	690.8	694.8	673.4
42.5°	578.3	576.3	572.5	574.4	568.5	566.6	568.5	574.4	568.5	572.5	556.9
45°	473.4	469.6	463.8	465.7	465.7	456.0	461.8	465.7	459.9	461.8	448.3
47.5°	376.5	370.6	370.6	368.7	368.7	364.8	370.6	368.7	362.8	366.7	353.2
50°	293.0	289.1	289.1	289.1	289.1	283.3	285.3	289.1	283.3	283.3	275.5
52.5°	229.0	223.2	219.3	219.3	219.3	217.3	217.3	219.3	213.5	213.5	211.5
55°	172.6	170.8	164.9	164.9	164.9	159.2	161.0	161.0	159.2	159.2	153.3
57.5°	128.1	122.3	118.3	118.3	114.5	114.5	112.5	114.5	110.6	110.6	106.7
60°	85.3	81.5	79.5	77.6	77.6	75.7	77.6	75.7	75.7	73.7	71.8
62.5°	62.1	58.2	54.3	54.3	54.3	52.4	52.4	52.4	52.4	52.4	50.5
65°	44.7	40.8	40.8	38.8	38.8	36.9	36.9	36.9	36.9	36.9	35.0
67.5°	31.0	29.2	27.2	27.2	27.2	27.2	27.2	27.2	25.2	25.2	25.2
70°	23.3	21.4	19.4	19.4	19.4	19.4	19.4	17.5	19.4	19.4	17.5
72.5°	15.5	15.5	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
75°	11.7	11.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
77.5°	7.8	7.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	5.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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: P857826

CATALOG NUMBER: LX4C35D010 EX4C359827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8
2.5°	1542.7	1540.8	1536.8	1542.7	1527.2	1521.3	1519.3	1536.8
5°	1564.0	1560.1	1560.1	1566.0	1548.5	1544.6	1540.8	1560.1
7.5°	1583.4	1579.5	1579.5	1585.4	1569.9	1566.0	1562.2	1581.5
10°	1595.1	1595.1	1595.1	1598.9	1585.4	1581.5	1579.5	1598.9
12.5°	1600.9	1600.9	1598.9	1606.7	1589.3	1589.3	1585.4	1604.8
15°	1593.2	1593.2	1593.2	1598.9	1583.4	1579.5	1579.5	1595.1
17.5°	1573.7	1573.7	1571.8	1577.7	1560.1	1560.1	1558.2	1575.6
20°	1544.6	1544.6	1540.8	1548.5	1531.1	1525.2	1523.3	1540.8
22.5°	1498.0	1496.1	1494.2	1498.0	1482.5	1478.7	1476.7	1492.2
25°	1437.9	1436.0	1432.1	1436.0	1418.5	1412.6	1412.6	1424.3
27.5°	1352.6	1352.6	1346.7	1352.6	1333.1	1331.2	1329.2	1342.8
30°	1247.7	1240.0	1236.1	1243.9	1224.5	1224.5	1220.6	1234.1
32.5°	1117.7	1110.0	1108.0	1111.9	1094.4	1088.6	1096.4	1104.2
35°	968.3	970.2	962.5	962.5	946.9	948.9	950.9	962.5
37.5°	824.7	820.8	818.9	820.8	809.2	805.3	801.4	813.1
40°	690.8	681.1	679.2	679.2	669.4	667.6	669.4	675.3
42.5°	564.7	562.8	555.0	558.9	549.1	553.0	551.1	551.1
45°	456.0	457.9	450.2	456.0	448.3	442.4	442.4	446.3
47.5°	361.0	361.0	358.9	358.9	353.2	355.1	351.2	357.1
50°	279.4	279.4	275.5	277.5	273.6	273.6	271.6	273.6
52.5°	213.5	211.5	211.5	209.6	205.7	207.7	209.6	205.7
55°	155.3	157.1	153.3	155.3	151.4	153.3	151.4	153.3
57.5°	106.7	108.7	104.8	108.7	104.8	106.7	104.8	104.8
60°	73.7	73.7	71.8	73.7	71.8	71.8	69.8	73.7
62.5°	50.5	50.5	50.5	50.5	50.5	48.5	50.5	50.5
65°	36.9	35.0	35.0	35.0	35.0	35.0	35.0	35.0
67.5°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
70°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
72.5°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
75°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	0.0	2.0	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)