

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: P684158

Luminaire Tested: **LX6C25D010 EX6C259040 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C25D010 EX6C259040 6LCSWH
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

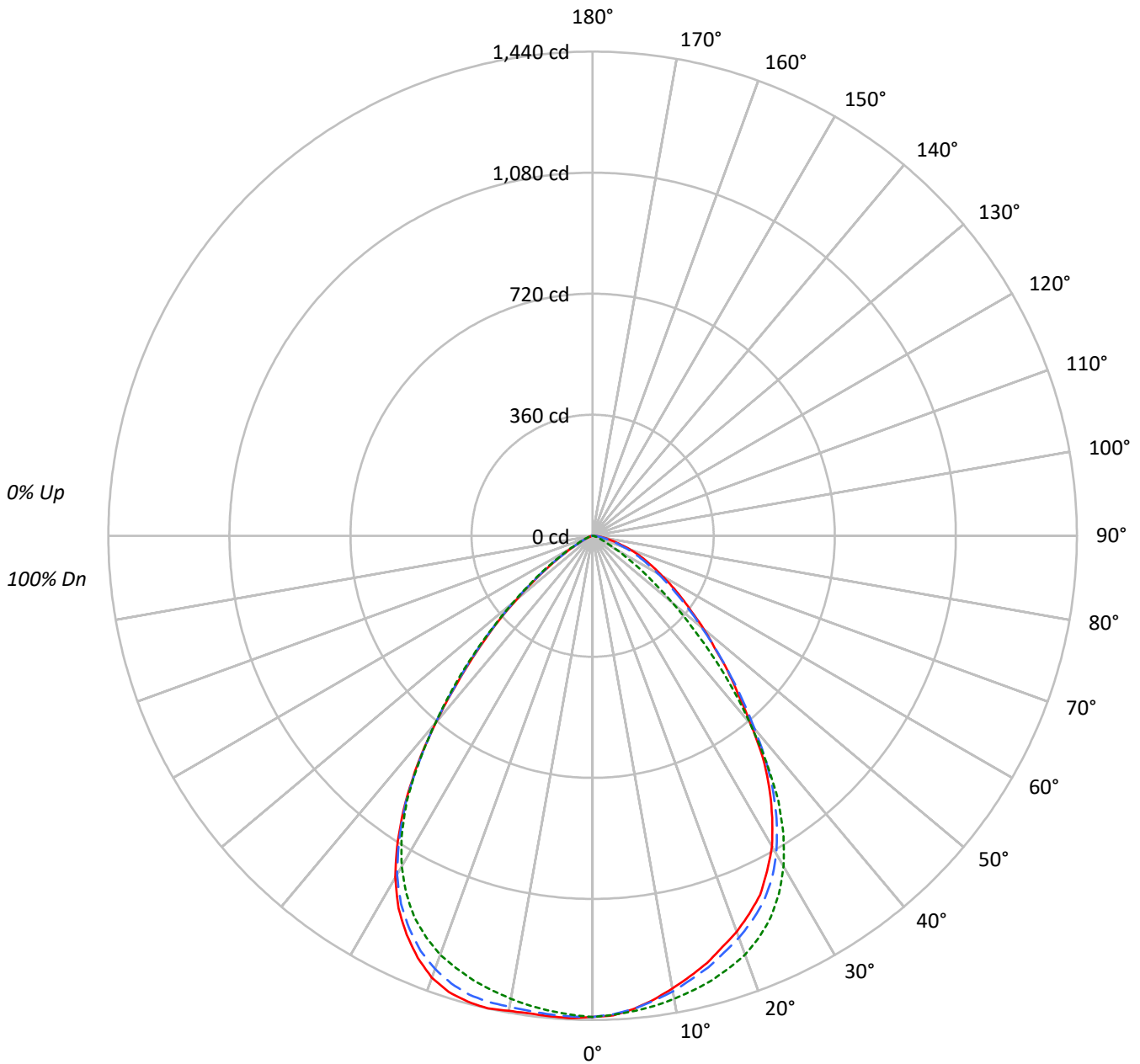
Lumens per Lamp: N/A
Luminaire Lumens: 2401.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	78459	78459	78459
5°	77707	78087	78945
10°	76106	77838	79858
15°	74649	77691	81419
20°	73104	77339	81575
25°	71303	75797	79142
30°	67510	71884	74290
35°	61308	64427	65009
40°	52327	52069	51826
45°	43950	38989	37787
50°	36707	26387	25065
55°	30890	16191	14700
60°	26149	8530	7390
65°	22648	4488	3580
70°	18833	2773	1939
75°	13916	1822	1101
80°	10923	1073	568
85°	8680	1132	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	5.6
10°-20°	386.2	16.1
20°-30°	570.3	23.8
30°-40°	587.7	24.5
40°-50°	405.9	16.9
50°-60°	200.1	8.3
60°-70°	81.1	3.4
70°-80°	28.9	1.2
80°-90°	6.0	0.2
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°	1091.3	45.5
0°-40°	1679.1	69.9
0°-60°	2285.1	95.2
0°-90°	2401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2401.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1431	1431	1431	1431	1431	
5°	1412	1412	1419	1429	1435	133
15°	1315	1329	1369	1414	1435	370
25°	1179	1201	1253	1289	1308	539
35°	916	939	963	968	971	568
45°	567	570	503	496	487	438
55°	323	311	169	159	154	292
65°	175	157	35	28	28	173
75°	66	55	9	5	5	74
85°	14	10	2	0	0	17
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°	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2
2.5°	1427.7	1422.5	1426.0	1419.0	1427.7	1419.0	1420.8	1422.5	1420.8	1422.5	1424.2
5°	1412.1	1406.9	1412.1	1403.5	1412.1	1406.9	1406.9	1408.7	1408.7	1410.4	1412.1
7.5°	1391.4	1386.2	1391.4	1382.7	1393.1	1387.9	1387.9	1391.4	1389.6	1391.4	1394.8
10°	1367.2	1360.3	1365.5	1360.3	1370.7	1363.7	1367.2	1367.2	1367.2	1372.3	1375.9
12.5°	1341.3	1334.3	1341.3	1332.6	1343.0	1337.8	1339.5	1344.7	1346.4	1349.9	1351.6
15°	1315.3	1306.7	1310.1	1304.9	1315.3	1310.1	1311.9	1318.8	1318.8	1324.0	1329.2
17.5°	1282.5	1275.6	1282.5	1275.6	1284.2	1280.8	1284.2	1289.4	1289.4	1294.6	1299.7
20°	1253.1	1246.2	1251.4	1246.2	1256.6	1251.4	1253.1	1260.0	1261.7	1266.9	1272.1
22.5°	1216.8	1211.6	1215.1	1209.9	1220.3	1216.8	1218.6	1225.5	1227.2	1230.7	1239.3
25°	1178.8	1168.4	1173.6	1170.1	1180.5	1175.3	1178.8	1185.7	1189.2	1194.3	1201.3
27.5°	1123.5	1118.3	1121.7	1121.7	1130.4	1125.2	1126.9	1133.9	1139.0	1144.2	1152.9
30°	1066.5	1057.8	1061.3	1063.0	1069.9	1066.5	1069.9	1076.8	1078.6	1085.5	1092.3
32.5°	993.9	990.4	997.3	993.9	997.3	997.3	999.0	1004.2	1007.6	1011.2	1019.8
35°	916.1	909.2	916.1	912.6	921.3	916.1	921.3	926.5	926.5	933.4	938.6
37.5°	831.4	822.7	826.2	826.2	829.6	827.9	827.9	836.6	838.3	843.5	848.7
40°	731.2	727.6	734.6	732.8	734.6	734.6	736.3	741.5	744.9	746.7	748.4
42.5°	641.3	643.0	644.7	644.7	644.7	644.7	644.7	651.6	649.9	655.1	656.8
45°	566.9	560.0	563.5	561.8	566.9	561.8	566.9	572.1	568.7	573.9	570.3
47.5°	490.9	490.9	490.9	489.2	492.6	490.9	494.3	496.1	496.1	496.1	494.3
50°	430.4	425.2	426.9	426.9	428.7	426.9	430.4	432.1	432.1	428.7	421.8
52.5°	371.6	369.9	369.9	373.3	373.3	371.6	371.6	371.6	371.6	366.5	362.9
55°	323.2	319.8	321.5	321.5	321.5	321.5	323.2	321.5	321.5	316.3	311.1
57.5°	280.0	276.6	276.6	276.6	278.3	276.6	276.6	276.6	274.8	269.6	262.7
60°	238.5	236.8	238.5	238.5	240.2	238.5	238.5	238.5	235.1	229.9	222.9
62.5°	204.0	204.0	204.0	205.7	205.7	204.0	204.0	202.2	200.5	193.6	186.7
65°	174.6	172.8	174.6	174.6	176.3	176.3	174.6	172.8	171.1	164.2	157.3
67.5°	145.2	143.4	145.2	145.2	146.9	145.2	145.2	145.2	140.0	136.6	129.6
70°	117.5	115.8	115.8	115.8	117.5	114.1	115.8	115.8	112.4	107.2	100.2
72.5°	89.9	89.9	89.9	89.9	89.9	89.9	88.1	88.1	84.7	79.5	76.0
75°	65.7	65.7	67.4	67.4	65.7	65.7	65.7	64.0	62.2	58.8	55.3
77.5°	48.4	48.4	48.4	48.4	46.7	46.7	46.7	44.9	43.2	41.5	38.0
80°	34.6	34.6	34.6	32.8	34.6	32.8	32.8	32.8	29.4	27.6	25.9
82.5°	24.2	22.5	22.5	22.5	22.5	22.5	22.5	20.7	20.7	19.0	17.3
85°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	12.1	10.4	10.4
87.5°	6.9	8.6	8.6	8.6	8.6	8.6	8.6	6.9	6.9	6.9	5.2
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°	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2
2.5°	1424.2	1424.2	1427.7	1422.5	1431.2	1426.0	1424.2	1432.9	1427.7	1426.0	1429.4
5°	1412.1	1413.9	1415.6	1412.1	1420.8	1415.6	1415.6	1424.2	1420.8	1419.0	1424.2
7.5°	1396.6	1398.3	1401.7	1400.0	1406.9	1403.5	1405.2	1413.9	1410.4	1410.4	1415.6
10°	1377.5	1381.0	1384.5	1384.5	1393.1	1389.6	1389.6	1400.0	1396.6	1398.3	1405.2
12.5°	1355.1	1360.3	1365.5	1367.2	1375.9	1370.7	1372.3	1384.5	1382.7	1384.5	1391.4
15°	1330.9	1337.8	1343.0	1343.0	1353.4	1348.2	1353.4	1365.5	1362.0	1368.9	1377.5
17.5°	1303.3	1310.1	1317.0	1318.8	1329.2	1325.7	1332.6	1344.7	1344.7	1348.2	1358.6
20°	1277.3	1286.0	1289.4	1294.6	1304.9	1303.3	1306.7	1320.5	1320.5	1325.7	1336.1
22.5°	1242.7	1251.4	1258.3	1263.5	1272.1	1272.1	1277.3	1289.4	1289.4	1292.9	1303.3
25°	1204.7	1215.1	1220.3	1225.5	1234.1	1232.3	1237.5	1247.9	1249.6	1253.1	1263.5
27.5°	1156.3	1164.9	1171.9	1175.3	1187.4	1180.5	1185.7	1197.8	1196.1	1199.5	1208.2
30°	1095.9	1104.5	1111.4	1111.4	1121.7	1121.7	1126.9	1132.1	1132.1	1135.6	1142.5
32.5°	1024.9	1035.3	1035.3	1040.5	1047.4	1040.5	1047.4	1054.3	1050.9	1056.1	1061.3
35°	943.7	948.9	950.6	950.6	955.8	954.1	952.3	957.5	954.1	962.7	967.9
37.5°	845.2	852.1	848.7	852.1	850.4	845.2	845.2	853.9	846.9	848.7	853.9
40°	750.1	750.1	748.4	739.8	741.5	736.3	734.6	736.3	729.4	727.6	734.6
42.5°	651.6	649.9	644.7	632.6	634.3	625.7	618.8	618.8	615.3	613.6	615.3
45°	563.5	558.3	549.6	535.8	532.3	525.4	511.6	508.1	502.9	502.9	504.7
47.5°	482.2	475.3	461.5	445.9	437.3	428.7	414.8	409.6	401.0	397.5	401.0
50°	414.8	402.7	385.4	362.9	354.3	344.0	330.1	321.5	312.8	309.4	307.6
52.5°	352.6	335.3	318.0	290.4	283.5	273.1	254.1	245.4	236.8	229.9	229.9
55°	299.0	283.5	259.3	233.3	222.9	212.6	193.6	181.5	172.8	169.4	165.9
57.5°	250.6	233.3	210.9	183.2	172.8	162.5	143.4	131.4	122.7	117.5	114.1
60°	210.9	191.9	169.4	145.2	133.1	122.7	103.7	91.6	82.9	77.8	74.3
62.5°	172.8	157.3	134.8	112.4	102.0	91.6	76.0	64.0	55.3	51.9	46.7
65°	145.2	129.6	108.9	89.9	81.2	70.8	57.1	46.7	39.8	34.6	31.1
67.5°	117.5	105.4	88.1	70.8	62.2	55.3	43.2	34.6	27.6	24.2	22.5
70°	93.3	81.2	67.4	53.6	48.4	41.5	32.8	24.2	20.7	17.3	15.5
72.5°	69.2	60.5	50.1	39.8	34.6	31.1	22.5	19.0	13.8	12.1	10.4
75°	50.1	43.2	36.3	27.6	24.2	22.5	17.3	12.1	10.4	8.6	6.9
77.5°	34.6	31.1	24.2	19.0	17.3	15.5	12.1	8.6	6.9	5.2	5.2
80°	22.5	19.0	15.5	12.1	12.1	10.4	6.9	5.2	5.2	3.4	3.4
82.5°	13.8	12.1	10.4	8.6	6.9	6.9	5.2	3.4	3.4	1.8	1.8
85°	8.6	6.9	5.2	5.2	3.4	3.4	3.4	1.8	1.8	1.8	1.8
87.5°	3.4	3.4	3.4	1.8	1.8	1.8	1.8	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2
2.5°	1429.4	1429.4	1432.9	1427.7	1431.2	1431.2	1434.6	1427.7	1431.2	1432.9	1436.3
5°	1422.5	1424.2	1427.7	1426.0	1427.7	1427.7	1431.2	1422.5	1429.4	1429.4	1434.6
7.5°	1415.6	1415.6	1419.0	1417.3	1420.8	1422.5	1426.0	1419.0	1426.0	1426.0	1431.2
10°	1406.9	1406.9	1412.1	1410.4	1415.6	1417.3	1422.5	1415.6	1422.5	1424.2	1429.4
12.5°	1394.8	1396.6	1401.7	1401.7	1406.9	1410.4	1415.6	1412.1	1420.8	1422.5	1429.4
15°	1381.0	1384.5	1391.4	1389.6	1394.8	1400.0	1406.9	1401.7	1413.9	1417.3	1424.2
17.5°	1363.7	1367.2	1372.3	1372.3	1377.5	1381.0	1389.6	1386.2	1396.6	1398.3	1406.9
20°	1337.8	1343.0	1349.9	1348.2	1353.4	1356.8	1363.7	1360.3	1370.7	1374.1	1382.7
22.5°	1306.7	1310.1	1315.3	1315.3	1320.5	1324.0	1330.9	1325.7	1336.1	1337.8	1344.7
25°	1265.2	1268.7	1272.1	1273.9	1279.0	1280.8	1284.2	1280.8	1289.4	1291.2	1299.7
27.5°	1211.6	1213.4	1218.6	1218.6	1222.0	1223.7	1228.9	1222.0	1234.1	1234.1	1239.3
30°	1147.7	1146.0	1152.9	1149.4	1152.9	1152.9	1158.1	1154.6	1163.3	1159.8	1164.9
32.5°	1063.0	1066.5	1066.5	1063.0	1069.9	1068.2	1068.2	1064.7	1069.9	1071.6	1075.1
35°	964.5	969.6	969.6	971.4	973.1	967.9	969.6	959.3	967.9	969.6	971.4
37.5°	857.3	852.1	855.6	850.4	859.0	848.7	848.7	841.8	848.7	848.7	850.4
40°	734.6	732.8	736.3	732.8	731.2	729.4	726.0	720.8	727.6	724.2	729.4
42.5°	618.8	617.0	617.0	613.6	611.9	611.9	608.4	604.9	603.2	603.2	611.9
45°	499.5	502.9	499.5	497.8	501.3	497.8	499.5	492.6	496.1	492.6	496.1
47.5°	399.3	401.0	397.5	394.1	399.3	394.1	394.1	388.9	395.8	395.8	392.3
50°	309.4	307.6	304.2	307.6	305.9	305.9	305.9	300.7	304.2	299.0	302.5
52.5°	228.1	226.4	226.4	224.7	226.4	224.7	224.7	222.9	222.9	221.2	222.9
55°	165.9	164.2	160.7	160.7	160.7	162.5	160.7	159.0	159.0	157.3	159.0
57.5°	112.4	108.9	108.9	108.9	108.9	107.2	107.2	105.4	107.2	105.4	107.2
60°	72.6	72.6	69.2	69.2	69.2	69.2	69.2	67.4	69.2	69.2	69.2
62.5°	44.9	44.9	43.2	41.5	43.2	41.5	41.5	41.5	43.2	41.5	43.2
65°	29.4	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
67.5°	20.7	19.0	19.0	19.0	19.0	19.0	19.0	17.3	19.0	19.0	19.0
70°	13.8	13.8	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
72.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
75°	6.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
77.5°	5.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	3.4	3.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P684158

CATALOG NUMBER: LX6C25D010 EX6C259040 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2	1431.2
2.5°	1431.2	1432.9	1429.4	1431.2	1427.7	1431.2	1432.9	1436.3
5°	1427.7	1429.4	1426.0	1429.4	1426.0	1429.4	1431.2	1434.6
7.5°	1424.2	1427.7	1424.2	1427.7	1424.2	1427.7	1429.4	1432.9
10°	1424.2	1429.4	1426.0	1431.2	1426.0	1429.4	1432.9	1434.6
12.5°	1424.2	1429.4	1427.7	1431.2	1429.4	1432.9	1436.3	1439.7
15°	1420.8	1426.0	1422.5	1427.7	1426.0	1427.7	1434.6	1434.6
17.5°	1401.7	1406.9	1406.9	1410.4	1410.4	1415.6	1419.0	1422.5
20°	1377.5	1382.7	1381.0	1386.2	1386.2	1391.4	1394.8	1398.3
22.5°	1341.3	1348.2	1346.4	1351.6	1349.9	1353.4	1360.3	1358.6
25°	1294.6	1303.3	1301.5	1304.9	1303.3	1303.3	1306.7	1308.4
27.5°	1237.5	1242.7	1241.0	1244.5	1241.0	1244.5	1247.9	1249.6
30°	1163.3	1166.7	1164.9	1166.7	1164.9	1168.4	1170.1	1173.6
32.5°	1073.4	1078.6	1073.4	1076.8	1075.1	1075.1	1082.0	1078.6
35°	966.2	967.9	969.6	969.6	966.2	967.9	971.4	971.4
37.5°	846.9	855.6	845.2	850.4	848.7	848.7	848.7	853.9
40°	722.5	724.2	720.8	720.8	720.8	719.0	726.0	724.2
42.5°	604.9	606.7	604.9	599.8	601.5	601.5	606.7	599.8
45°	490.9	494.3	492.6	492.6	489.2	489.2	490.9	487.4
47.5°	388.9	392.3	387.2	388.9	385.4	388.9	387.2	390.6
50°	295.5	299.0	297.3	299.0	299.0	295.5	300.7	293.9
52.5°	221.2	222.9	221.2	219.5	217.8	217.8	221.2	219.5
55°	157.3	155.5	155.5	155.5	157.3	157.3	155.5	153.8
57.5°	105.4	105.4	103.7	103.7	105.4	102.0	103.7	102.0
60°	67.4	67.4	67.4	67.4	65.7	67.4	67.4	67.4
62.5°	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
65°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
67.5°	17.3	19.0	19.0	19.0	17.3	17.3	17.3	17.3
70°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
72.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
75°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	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)