

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: P857776

Luminaire Tested: **LX4C35D010 EX4C359040 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C35D010 EX4C359040 4LBLWW*
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

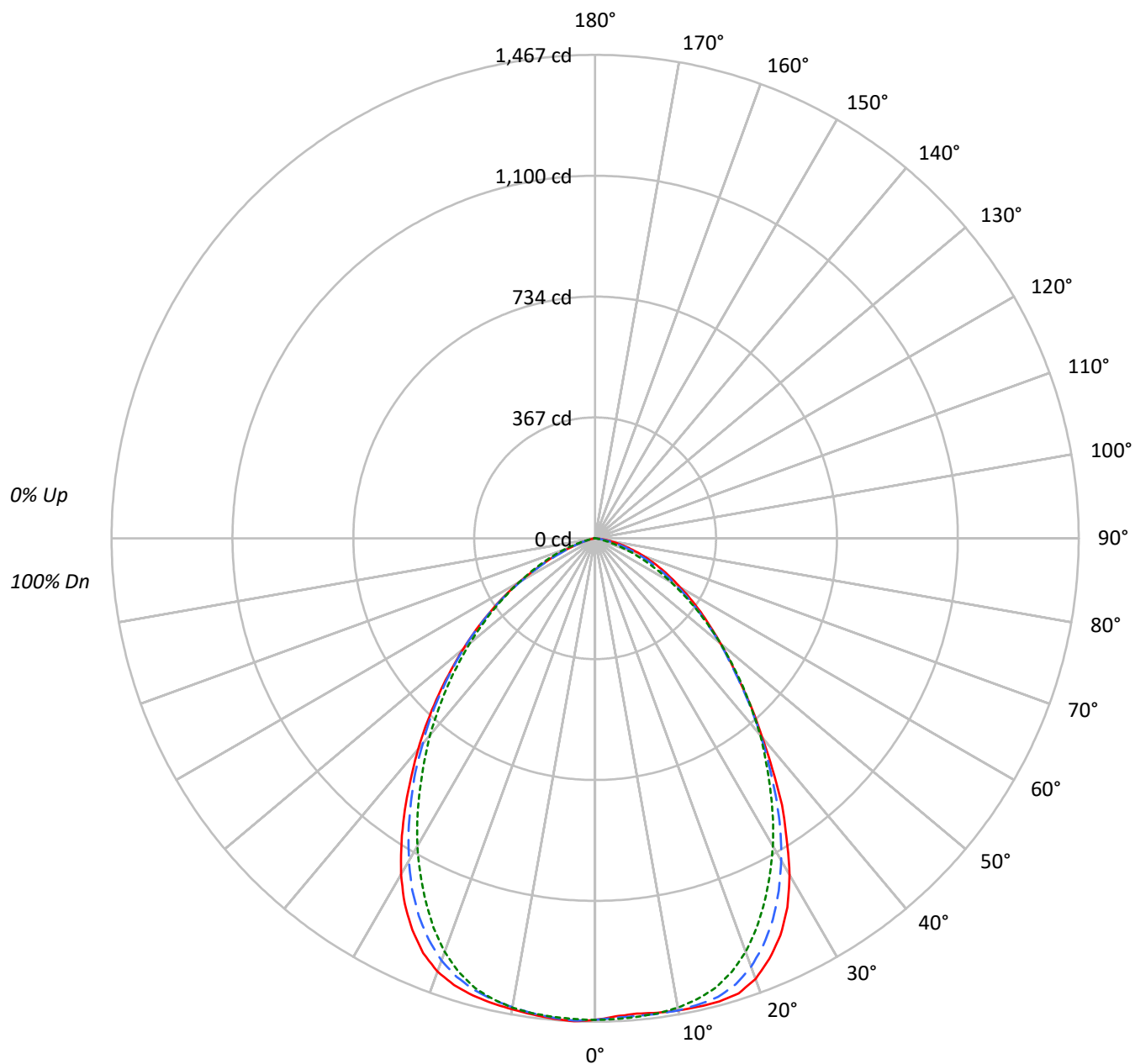
Lumens per Lamp: N/A
Luminaire Lumens: 2802.0 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94
2	103	96	91	86	101	95	89	85	91	87	83		88	84	81		85
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77
4	88	78	71	65	86	77	70	65	75	69	64		72	67	63		70
5	82	71	63	57	80	70	63	57	68	61	57		66	60	56		64
6	76	65	57	51	75	64	56	51	62	56	51		61	55	50		59
7	71	59	51	46	70	59	51	46	57	50	46		56	50	45		54
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		50
9	63	51	43	38	61	50	43	38	49	42	38		48	42	38		47
10	59	47	40	35	58	46	39	35	45	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	179550	179550	179550
5°	178547	179768	180446
10°	181497	180412	181085
15°	185045	179601	182603
20°	185988	174574	182902
25°	180259	164861	177806
30°	167308	152981	166996
35°	148162	138773	150951
40°	126310	124979	133880
45°	108519	109752	116615
50°	94722	94932	99959
55°	83705	80171	82870
60°	73368	65407	65137
65°	64942	50726	45145
70°	55389	34878	26796
75°	44809	18749	12246
80°	30705	4669	3113
85°	9303	1551	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	5.0
10°-20°	402.1	14.4
20°-30°	581.0	20.7
30°-40°	600.6	21.4
40°-50°	496.3	17.7
50°-60°	342.5	12.2
60°-70°	179.3	6.4
70°-80°	56.4	2.0
80°-90°	4.8	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°	1122.0	40.0
0°-40°	1722.6	61.5
0°-60°	2561.4	91.4
0°-90°	2802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2802.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1462	1462	1462	1462	1462	
5°	1448	1455	1458	1460	1463	139
15°	1455	1441	1412	1419	1436	410
25°	1330	1276	1216	1265	1312	607
35°	988	955	925	974	1006	613
45°	625	622	632	661	671	487
55°	391	379	374	385	387	351
65°	223	202	174	145	155	221
75°	94	74	40	27	26	101
85°	7	3	1	1	1	14
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°	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5
2.5°	1452.2	1452.7	1452.7	1453.8	1453.8	1453.8	1454.4	1454.4	1454.9	1455.5	1456.0
5°	1447.8	1447.8	1448.9	1449.4	1450.5	1451.1	1452.2	1452.7	1453.8	1454.4	1454.9
7.5°	1452.2	1452.2	1452.7	1453.3	1453.3	1453.8	1453.8	1454.4	1454.9	1455.5	1455.5
10°	1454.9	1454.9	1454.9	1454.9	1455.5	1455.5	1455.5	1454.9	1454.9	1454.9	1454.4
12.5°	1456.0	1456.0	1455.5	1454.9	1455.5	1454.9	1454.9	1453.3	1452.2	1451.1	1449.4
15°	1454.9	1454.9	1454.4	1453.8	1453.3	1452.2	1451.6	1448.9	1446.7	1443.4	1441.2
17.5°	1447.8	1446.7	1445.6	1444.5	1442.3	1440.7	1439.6	1434.6	1430.8	1425.3	1419.3
20°	1422.6	1421.5	1419.8	1417.1	1414.3	1412.1	1408.8	1401.7	1397.9	1389.6	1383.6
22.5°	1381.4	1380.3	1380.8	1375.9	1370.4	1367.1	1364.9	1358.9	1352.3	1341.9	1335.3
25°	1329.8	1326.5	1326.5	1318.8	1316.1	1313.9	1311.1	1304.0	1294.1	1284.8	1276.0
27.5°	1262.8	1258.5	1256.3	1255.2	1248.6	1243.6	1239.8	1234.3	1226.1	1217.8	1205.8
30°	1179.4	1178.9	1176.1	1171.2	1166.3	1164.1	1159.7	1150.3	1142.7	1136.6	1128.9
32.5°	1081.2	1080.6	1080.6	1080.6	1077.3	1076.8	1070.2	1065.3	1059.2	1049.9	1045.0
35°	987.9	987.3	987.9	979.7	977.5	975.8	975.3	972.0	963.7	959.3	955.0
37.5°	882.5	884.2	883.1	880.9	883.6	878.7	882.5	875.4	872.1	871.0	866.0
40°	787.6	792.0	787.6	788.1	790.9	785.9	785.9	784.8	782.6	781.5	780.4
42.5°	706.3	700.8	704.1	701.4	704.1	702.5	699.8	701.4	701.9	699.8	699.2
45°	624.6	625.7	626.8	625.1	625.1	623.5	627.9	625.1	625.1	625.7	621.8
47.5°	558.2	556.5	557.6	556.5	557.1	556.0	557.1	557.6	556.5	556.5	553.2
50°	495.6	494.5	498.3	495.0	495.0	494.5	495.0	493.9	492.3	492.3	493.4
52.5°	441.3	439.1	438.5	441.3	437.4	437.4	438.0	436.9	434.7	433.6	430.8
55°	390.8	390.2	390.8	388.6	387.5	387.5	384.7	383.6	383.1	380.3	378.7
57.5°	343.6	341.9	342.5	341.9	339.7	339.2	337.0	337.0	334.8	332.6	329.8
60°	298.6	298.6	300.2	298.0	296.4	295.3	294.2	293.1	289.2	285.4	282.1
62.5°	258.5	259.0	258.5	256.8	255.8	254.7	253.6	250.3	247.0	244.8	240.9
65°	223.4	222.8	221.2	220.1	217.3	217.3	215.1	213.5	209.7	206.4	202.5
67.5°	187.1	186.1	186.1	186.1	182.8	182.2	181.1	177.8	174.5	170.1	166.8
70°	154.2	155.3	153.7	152.0	150.4	149.8	148.2	144.9	141.0	136.7	133.9
72.5°	122.9	124.0	122.4	121.8	118.5	117.4	116.9	114.2	109.8	107.0	102.6
75°	94.4	94.9	93.8	92.8	90.6	90.0	87.3	85.1	82.3	77.9	74.1
77.5°	68.1	67.0	67.0	64.8	62.6	62.6	62.0	58.7	54.9	51.6	48.3
80°	43.4	42.8	41.2	40.1	38.4	37.9	37.3	34.6	31.8	29.6	27.4
82.5°	22.0	21.4	20.9	20.3	19.2	18.1	18.7	16.5	15.4	13.2	11.5
85°	6.6	7.1	7.1	6.6	6.0	6.0	6.0	5.5	4.4	3.8	3.3
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5
2.5°	1456.6	1457.1	1457.7	1458.2	1458.2	1458.8	1459.3	1459.9	1460.4	1460.4	1461.0
5°	1455.5	1456.6	1456.6	1457.1	1457.1	1457.1	1457.7	1457.7	1457.7	1457.7	1458.2
7.5°	1456.0	1456.0	1456.0	1455.5	1455.5	1454.9	1454.9	1454.9	1453.8	1453.8	1453.8
10°	1453.3	1452.7	1452.2	1451.1	1450.5	1450.0	1448.9	1447.8	1446.7	1446.2	1445.1
12.5°	1447.8	1445.6	1443.4	1441.2	1440.1	1439.6	1437.4	1435.7	1434.1	1432.4	1431.3
15°	1436.8	1433.5	1429.7	1425.3	1424.2	1423.1	1419.3	1416.0	1413.8	1412.1	1409.4
17.5°	1414.9	1408.3	1403.9	1397.3	1394.6	1393.5	1387.4	1384.1	1380.3	1379.2	1377.0
20°	1375.9	1369.9	1361.6	1355.6	1352.3	1349.0	1344.1	1339.7	1335.3	1335.3	1332.5
22.5°	1327.1	1319.4	1308.9	1301.3	1300.7	1294.1	1289.7	1284.8	1283.2	1279.9	1279.9
25°	1265.6	1259.0	1247.5	1240.9	1237.6	1236.0	1228.8	1222.2	1218.9	1216.2	1218.4
27.5°	1197.5	1187.7	1178.9	1170.6	1167.9	1164.6	1158.0	1155.3	1149.2	1148.7	1148.1
30°	1119.6	1109.7	1100.9	1097.1	1091.6	1088.9	1083.9	1080.6	1078.4	1078.4	1077.3
32.5°	1037.8	1029.0	1024.7	1016.4	1013.7	1009.8	1006.5	1003.3	1004.3	1003.3	1003.8
35°	949.5	947.3	939.0	934.1	934.1	933.5	928.1	925.9	924.8	925.3	928.1
37.5°	865.5	858.9	853.4	850.1	852.9	849.6	849.0	849.0	852.3	850.1	854.5
40°	776.0	775.5	773.3	774.4	774.9	771.1	772.2	772.7	774.9	779.3	779.9
42.5°	698.1	697.6	697.6	697.6	696.5	694.3	696.5	700.3	699.8	703.0	705.8
45°	622.9	621.8	624.0	622.4	625.7	626.8	625.1	626.2	629.5	631.7	636.1
47.5°	554.3	554.3	554.9	556.0	552.7	555.4	556.5	558.7	560.3	561.4	563.6
50°	490.6	490.6	489.6	489.6	489.6	491.2	489.0	491.7	492.3	496.7	499.4
52.5°	431.9	429.2	430.8	429.7	427.5	426.4	427.5	428.1	431.4	432.5	435.8
55°	375.9	375.9	371.6	370.5	372.1	371.6	371.0	371.0	372.7	374.3	377.0
57.5°	326.6	323.3	320.0	319.4	317.8	318.3	318.3	317.8	316.7	317.2	317.8
60°	279.9	277.7	272.8	272.8	272.2	271.7	268.9	268.4	265.6	266.2	264.0
62.5°	237.1	236.0	229.4	227.2	227.2	225.6	222.8	222.3	218.4	218.4	216.2
65°	198.7	195.4	191.5	187.7	187.7	185.5	183.9	178.9	176.2	174.5	171.2
67.5°	163.5	158.6	154.8	151.5	149.3	148.7	144.9	141.6	137.2	134.5	129.5
70°	129.5	125.7	121.8	118.5	116.4	114.2	110.3	105.4	102.1	97.1	93.8
72.5°	97.7	94.4	91.1	86.7	84.0	82.3	78.5	74.1	68.6	65.3	60.9
75°	70.2	66.4	62.0	58.2	56.5	54.9	50.5	47.2	43.4	39.5	35.1
77.5°	45.6	41.2	37.9	33.5	32.9	31.8	27.4	24.1	21.4	19.2	16.5
80°	24.1	22.0	19.2	16.5	15.4	13.7	11.5	9.9	8.2	6.6	5.5
82.5°	10.4	8.8	7.1	6.0	5.5	4.9	3.8	3.3	2.7	2.7	2.2
85°	2.7	2.2	2.2	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.5	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°	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5
2.5°	1461.5	1462.1	1462.6	1462.6	1463.2	1463.7	1463.7	1464.3	1464.8	1465.4	1465.4
5°	1458.8	1458.8	1458.8	1459.3	1459.3	1459.3	1459.3	1460.4	1460.4	1461.0	1461.5
7.5°	1453.3	1453.3	1453.3	1453.3	1452.7	1453.3	1452.7	1452.7	1453.8	1454.4	1454.9
10°	1444.5	1444.0	1444.0	1443.4	1443.4	1443.4	1444.0	1444.5	1445.1	1445.6	1447.2
12.5°	1430.8	1430.2	1430.2	1429.7	1429.7	1430.2	1430.8	1431.9	1434.1	1435.2	1437.4
15°	1408.8	1408.3	1408.8	1409.4	1410.5	1412.1	1413.8	1415.4	1418.7	1421.5	1424.2
17.5°	1377.0	1377.5	1378.1	1379.2	1380.8	1383.0	1387.4	1391.8	1395.7	1400.1	1404.4
20°	1333.1	1335.3	1335.8	1339.7	1340.8	1345.7	1350.7	1357.2	1363.3	1368.8	1374.8
22.5°	1280.4	1282.1	1284.2	1288.6	1291.4	1298.0	1304.0	1311.7	1318.3	1325.4	1334.2
25°	1220.6	1221.1	1227.7	1227.7	1234.3	1239.8	1246.9	1255.2	1265.0	1274.4	1280.4
27.5°	1152.5	1155.3	1160.2	1162.4	1167.3	1176.1	1182.2	1192.0	1201.9	1210.2	1216.7
30°	1081.2	1083.4	1091.6	1092.7	1096.6	1104.2	1112.5	1121.8	1129.5	1138.8	1144.8
32.5°	1006.0	1012.0	1017.0	1020.8	1021.9	1033.4	1037.8	1044.4	1053.2	1062.5	1068.6
35°	933.0	935.7	942.9	945.1	948.4	955.0	963.7	969.2	973.6	979.7	986.8
37.5°	855.6	863.8	865.5	872.1	873.2	879.2	883.6	890.2	895.7	901.2	902.3
40°	783.7	786.5	792.5	794.1	795.2	803.5	809.0	810.6	813.4	818.3	824.9
42.5°	710.7	713.5	720.1	718.4	723.4	727.2	729.9	736.5	739.3	740.9	740.9
45°	638.8	639.9	644.3	646.5	649.3	651.5	656.4	659.7	660.8	665.7	667.4
47.5°	570.2	571.3	574.6	578.5	577.4	580.1	585.6	587.2	587.8	591.1	592.7
50°	502.7	505.5	509.9	508.8	512.1	513.7	518.6	519.7	519.7	520.3	520.8
52.5°	439.6	441.8	442.9	444.0	445.6	448.4	450.6	449.5	451.7	453.9	452.2
55°	377.0	378.7	381.4	382.5	382.5	383.1	382.0	386.9	384.7	384.2	384.7
57.5°	320.0	317.8	317.2	320.0	321.1	320.5	318.9	321.1	321.1	320.0	318.3
60°	264.5	262.9	262.3	262.9	260.7	259.0	260.1	259.0	256.3	255.2	255.8
62.5°	214.0	212.4	208.0	208.0	206.9	206.4	202.0	202.5	200.3	197.0	198.1
65°	167.4	163.0	160.8	160.3	156.4	153.1	152.0	148.2	144.9	144.3	144.9
67.5°	125.7	120.7	116.9	115.3	113.1	110.3	106.5	103.2	104.3	103.7	105.9
70°	87.3	84.0	80.1	77.4	78.5	75.2	73.0	73.0	73.5	74.1	75.2
72.5°	58.2	53.8	52.1	50.5	49.4	47.2	48.3	48.3	47.7	48.3	47.2
75°	32.9	30.7	29.1	28.5	27.4	27.4	27.4	27.4	26.9	26.3	26.3
77.5°	14.8	13.7	13.2	12.6	12.6	12.6	12.1	11.5	11.5	11.5	11.0
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	2.2	2.2	2.7	2.7	2.7	2.2	2.7	2.7	2.2	2.2	2.7
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.5	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: P857776

CATALOG NUMBER: LX4C35D010 EX4C359040 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5	1461.5
2.5°	1465.9	1466.5	1466.5	1466.5	1467.0	1467.0	1467.0	1467.0
5°	1462.1	1462.6	1462.6	1462.6	1463.2	1463.2	1463.2	1463.2
7.5°	1455.5	1456.0	1456.0	1456.6	1456.6	1457.1	1457.1	1457.7
10°	1447.8	1448.9	1449.4	1450.0	1450.5	1451.1	1451.1	1451.6
12.5°	1439.6	1440.7	1441.2	1442.3	1443.4	1444.0	1444.5	1445.1
15°	1427.5	1429.7	1430.8	1431.3	1433.5	1434.6	1435.2	1435.7
17.5°	1408.3	1412.7	1414.3	1415.4	1417.6	1419.8	1421.5	1422.0
20°	1380.8	1385.8	1388.0	1390.7	1394.0	1396.8	1397.9	1399.0
22.5°	1342.4	1347.9	1351.2	1354.5	1357.2	1360.0	1364.4	1362.7
25°	1287.5	1296.9	1300.7	1302.4	1308.4	1311.7	1313.9	1311.7
27.5°	1226.1	1231.6	1234.9	1238.7	1243.1	1246.4	1247.5	1250.8
30°	1152.0	1161.3	1160.8	1164.6	1170.1	1173.4	1174.5	1177.2
32.5°	1075.1	1079.5	1082.8	1082.3	1084.5	1090.5	1088.3	1093.3
35°	993.4	993.9	999.4	998.9	1003.3	1003.3	1003.3	1006.5
37.5°	906.1	912.7	910.0	916.5	914.3	916.0	916.0	917.1
40°	826.5	828.7	828.7	830.9	832.6	830.9	832.0	834.8
42.5°	744.2	746.4	746.9	745.9	747.5	752.4	748.6	751.9
45°	667.4	669.0	671.2	669.6	672.3	670.7	672.3	671.2
47.5°	594.9	594.4	593.8	598.2	594.4	594.9	597.1	593.3
50°	520.8	524.1	521.9	523.6	524.7	524.7	523.0	523.0
52.5°	455.0	454.4	452.8	454.4	453.3	453.9	455.0	453.9
55°	386.9	389.1	388.0	387.5	388.0	388.0	391.3	386.9
57.5°	320.0	318.9	320.5	324.4	320.5	323.3	324.9	325.5
60°	256.3	256.3	259.6	257.9	261.2	264.0	266.2	265.1
62.5°	195.4	198.1	199.2	199.8	203.1	205.3	205.3	204.7
65°	144.9	148.7	148.7	150.9	152.0	152.0	153.1	155.3
67.5°	107.0	107.0	107.6	108.7	108.1	108.1	109.2	109.8
70°	74.6	73.5	75.2	74.6	74.6	74.1	74.6	74.6
72.5°	47.2	47.2	47.7	47.2	46.1	46.7	46.7	47.7
75°	25.2	26.3	25.2	25.2	25.8	24.7	25.2	25.8
77.5°	10.4	10.4	10.4	10.4	10.4	9.9	9.9	9.9
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.4	4.4
82.5°	2.2	2.7	2.2	2.7	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.5
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)