

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: P857574

Luminaire Tested: **LX4C30D010 EX4C309040 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857574
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: LX4C30D010 EX4C309040 4LBLWW*
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

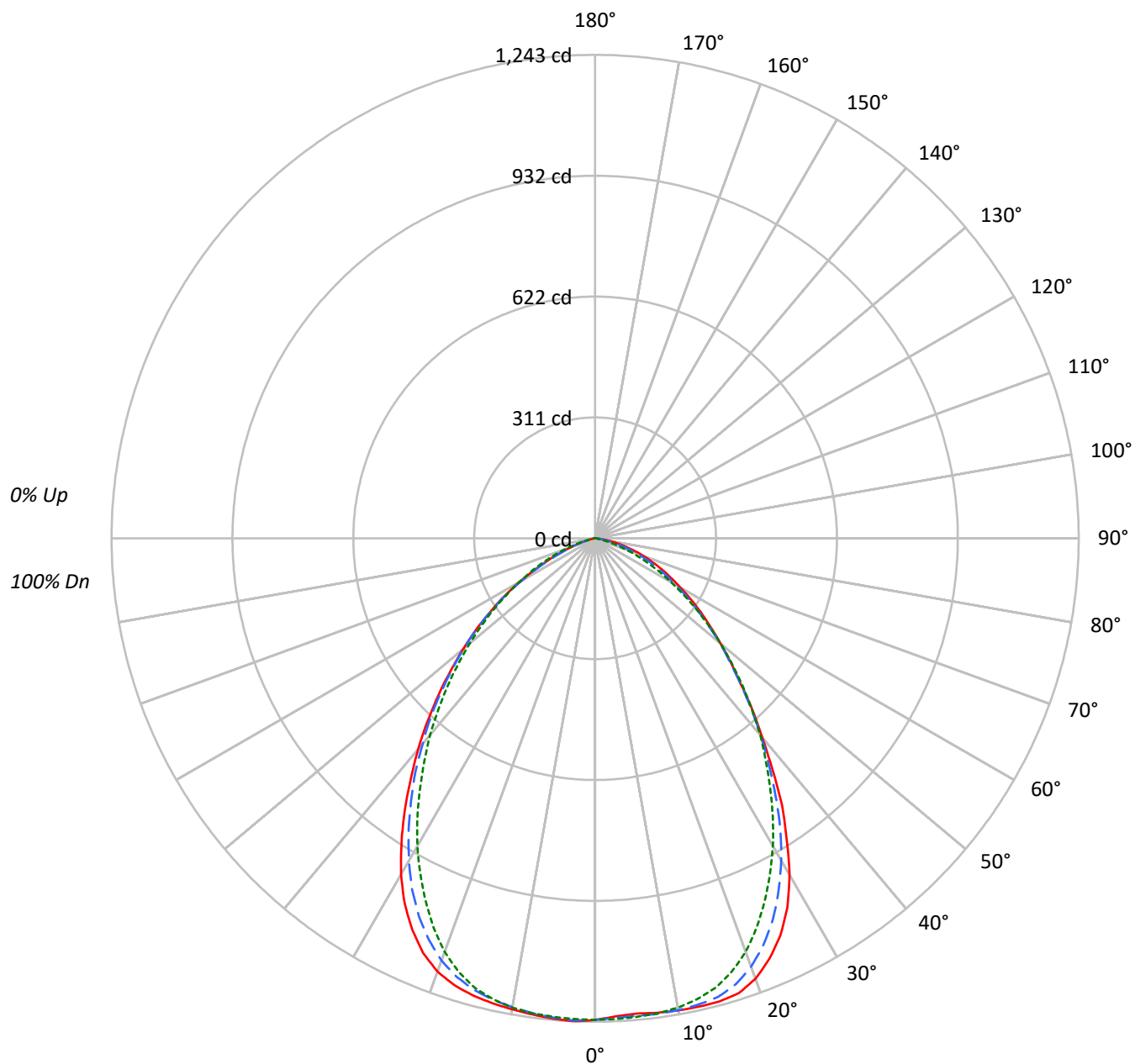
Lumens per Lamp: N/A
Luminaire Lumens: 2374.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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

TEST NUMBER: P857574

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBLWW*

Luminous Intensity Polar Plot





TEST NUMBER: P857574

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBLWW*

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°	152129	152129	152129
5°	151268	152304	152883
10°	153778	152855	153428
15°	156784	152167	154711
20°	157578	147904	154964
25°	152728	139675	150641
30°	141760	129617	141490
35°	125530	117581	127900
40°	107017	105895	113432
45°	91944	92986	98807
50°	80254	80426	84688
55°	70918	67919	70211
60°	62164	55407	55186
65°	55029	42994	38256
70°	46947	29562	22701
75°	37974	15901	10395
80°	25965	3962	2618
85°	7894	1269	1269



TEST NUMBER: P857574

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	5.0
10°-20°	340.7	14.4
20°-30°	492.3	20.7
30°-40°	508.9	21.4
40°-50°	420.5	17.7
50°-60°	290.2	12.2
60°-70°	151.9	6.4
70°-80°	47.8	2.0
80°-90°	4.1	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°	950.6	40.0
0°-40°	1459.5	61.5
0°-60°	2170.2	91.4
0°-90°	2374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2374.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1238	1238	1238	1238	1238	
5°	1227	1233	1235	1237	1240	117
15°	1233	1221	1196	1202	1216	348
25°	1127	1081	1030	1072	1111	514
35°	837	809	784	825	853	520
45°	529	527	535	560	569	412
55°	331	321	317	326	328	297
65°	189	172	148	123	132	188
75°	80	63	34	23	22	86
85°	6	3	1	1	1	12
90°	0	0	0	0	0	



TEST NUMBER: P857574

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3
2.5°	1230.4	1230.8	1230.8	1231.8	1231.8	1231.8	1232.2	1232.2	1232.7	1233.2	1233.6
5°	1226.6	1226.6	1227.6	1228.0	1229.0	1229.4	1230.4	1230.8	1231.8	1232.2	1232.7
7.5°	1230.4	1230.4	1230.8	1231.3	1231.3	1231.8	1231.8	1232.2	1232.7	1233.2	1233.2
10°	1232.7	1232.7	1232.7	1232.7	1233.2	1233.2	1233.2	1232.7	1232.7	1232.7	1232.2
12.5°	1233.6	1233.6	1233.2	1232.7	1233.2	1232.7	1232.7	1231.3	1230.4	1229.4	1228.0
15°	1232.7	1232.7	1232.2	1231.8	1231.3	1230.4	1229.9	1227.6	1225.7	1222.9	1221.1
17.5°	1226.6	1225.7	1224.8	1223.9	1222.0	1220.6	1219.7	1215.5	1212.2	1207.6	1202.5
20°	1205.3	1204.3	1202.9	1200.6	1198.3	1196.4	1193.6	1187.6	1184.3	1177.4	1172.2
22.5°	1170.4	1169.5	1169.9	1165.7	1161.1	1158.3	1156.4	1151.3	1145.7	1136.9	1131.3
25°	1126.7	1123.9	1123.9	1117.4	1115.1	1113.2	1110.9	1104.8	1096.5	1088.5	1081.1
27.5°	1069.9	1066.2	1064.4	1063.4	1057.9	1053.7	1050.4	1045.8	1038.8	1031.8	1021.6
30°	999.3	998.8	996.5	992.3	988.1	986.2	982.5	974.6	968.1	963.0	956.5
32.5°	916.0	915.6	915.6	915.6	912.8	912.3	906.7	902.6	897.4	889.5	885.3
35°	837.0	836.5	837.0	830.0	828.2	826.8	826.3	823.5	816.5	812.8	809.1
37.5°	747.7	749.1	748.2	746.3	748.6	744.5	747.7	741.7	738.9	737.9	733.8
40°	667.3	671.0	667.3	667.7	670.1	665.9	665.9	664.9	663.1	662.1	661.2
42.5°	598.4	593.8	596.6	594.3	596.6	595.2	592.9	594.3	594.7	592.9	592.4
45°	529.2	530.1	531.0	529.6	529.6	528.2	532.0	529.6	529.6	530.1	526.8
47.5°	472.9	471.5	472.4	471.5	472.0	471.0	472.0	472.4	471.5	471.5	468.7
50°	419.9	419.0	422.2	419.4	419.4	419.0	419.4	418.5	417.1	417.1	418.0
52.5°	373.9	372.0	371.5	373.9	370.6	370.6	371.1	370.1	368.3	367.3	365.0
55°	331.1	330.6	331.1	329.2	328.3	328.3	326.0	325.0	324.6	322.2	320.8
57.5°	291.1	289.7	290.2	289.7	287.8	287.4	285.5	285.5	283.6	281.8	279.5
60°	253.0	253.0	254.4	252.5	251.1	250.2	249.2	248.3	245.1	241.8	239.0
62.5°	219.0	219.5	219.0	217.6	216.7	215.8	214.8	212.0	209.2	207.4	204.1
65°	189.3	188.8	187.4	186.5	184.1	184.1	182.3	180.9	177.6	174.8	171.6
67.5°	158.6	157.6	157.6	157.6	154.8	154.4	153.4	150.7	147.9	144.1	141.4
70°	130.7	131.6	130.2	128.8	127.4	126.9	125.5	122.8	119.5	115.8	113.5
72.5°	104.2	105.1	103.7	103.2	100.4	99.5	99.0	96.7	93.0	90.7	87.0
75°	80.0	80.4	79.5	78.6	76.7	76.3	73.9	72.1	69.7	66.0	62.8
77.5°	57.7	56.7	56.7	54.9	53.0	53.0	52.5	49.8	46.5	43.7	40.9
80°	36.7	36.3	34.9	33.9	32.5	32.1	31.6	29.3	27.0	25.1	23.2
82.5°	18.6	18.1	17.7	17.2	16.3	15.3	15.8	13.9	13.0	11.2	9.8
85°	5.6	6.0	6.0	5.6	5.1	5.1	5.1	4.6	3.7	3.3	2.8
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: P857574

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3
2.5°	1234.1	1234.6	1235.0	1235.5	1235.5	1235.9	1236.4	1236.9	1237.3	1237.3	1237.8
5°	1233.2	1234.1	1234.1	1234.6	1234.6	1234.6	1235.0	1235.0	1235.0	1235.0	1235.5
7.5°	1233.6	1233.6	1233.6	1233.2	1233.2	1232.7	1232.7	1232.7	1231.8	1231.8	1231.8
10°	1231.3	1230.8	1230.4	1229.4	1229.0	1228.5	1227.6	1226.6	1225.7	1225.3	1224.3
12.5°	1226.6	1224.8	1222.9	1221.1	1220.1	1219.7	1217.8	1216.4	1215.0	1213.6	1212.7
15°	1217.4	1214.6	1211.3	1207.6	1206.7	1205.7	1202.5	1199.7	1197.8	1196.4	1194.1
17.5°	1198.8	1193.2	1189.5	1183.9	1181.5	1180.6	1175.5	1172.7	1169.5	1168.5	1166.7
20°	1165.7	1160.6	1153.6	1148.5	1145.7	1143.0	1138.8	1135.0	1131.3	1131.3	1129.0
22.5°	1124.4	1117.8	1109.0	1102.5	1102.0	1096.5	1092.7	1088.5	1087.2	1084.4	1084.4
25°	1072.3	1066.7	1056.9	1051.3	1048.6	1047.2	1041.1	1035.5	1032.7	1030.4	1032.3
27.5°	1014.6	1006.2	998.8	991.8	989.5	986.7	981.1	978.8	973.7	973.2	972.8
30°	948.6	940.2	932.8	929.5	924.9	922.5	918.4	915.6	913.7	913.7	912.8
32.5°	879.3	871.9	868.1	861.2	858.8	855.6	852.8	850.0	850.9	850.0	850.5
35°	804.4	802.6	795.6	791.4	791.4	791.0	786.3	784.4	783.5	784.0	786.3
37.5°	733.3	727.7	723.1	720.3	722.6	719.8	719.3	719.3	722.1	720.3	724.0
40°	657.5	657.0	655.2	656.1	656.6	653.3	654.2	654.7	656.6	660.3	660.8
42.5°	591.5	591.0	591.0	591.0	590.1	588.2	590.1	593.3	592.9	595.7	598.0
45°	527.8	526.8	528.7	527.3	530.1	531.0	529.6	530.6	533.3	535.2	538.9
47.5°	469.6	469.6	470.1	471.0	468.2	470.6	471.5	473.4	474.8	475.7	477.5
50°	415.7	415.7	414.8	414.8	414.8	416.2	414.3	416.6	417.1	420.8	423.1
52.5°	365.9	363.6	365.0	364.1	362.2	361.3	362.2	362.7	365.5	366.4	369.2
55°	318.5	318.5	314.8	313.9	315.3	314.8	314.3	314.3	315.7	317.1	319.4
57.5°	276.7	273.9	271.1	270.6	269.2	269.7	269.7	269.2	268.3	268.8	269.2
60°	237.1	235.3	231.1	231.1	230.6	230.2	227.8	227.4	225.1	225.5	223.7
62.5°	200.9	199.9	194.4	192.5	192.5	191.1	188.8	188.3	185.1	185.1	183.2
65°	168.3	165.5	162.3	159.0	159.0	157.2	155.8	151.6	149.3	147.9	145.1
67.5°	138.6	134.4	131.1	128.3	126.5	126.0	122.8	120.0	116.2	113.9	109.7
70°	109.7	106.5	103.2	100.4	98.6	96.7	93.5	89.3	86.5	82.3	79.5
72.5°	82.8	80.0	77.2	73.5	71.1	69.7	66.5	62.8	58.1	55.3	51.6
75°	59.5	56.3	52.5	49.3	47.9	46.5	42.8	40.0	36.7	33.5	29.8
77.5°	38.6	34.9	32.1	28.4	27.9	27.0	23.2	20.5	18.1	16.3	13.9
80°	20.5	18.6	16.3	13.9	13.0	11.6	9.8	8.4	7.0	5.6	4.6
82.5°	8.8	7.4	6.0	5.1	4.6	4.2	3.3	2.8	2.3	2.3	1.9
85°	2.3	1.9	1.9	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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



TEST NUMBER: P857574

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3
2.5°	1238.3	1238.7	1239.2	1239.2	1239.7	1240.1	1240.1	1240.6	1241.1	1241.5	1241.5
5°	1235.9	1235.9	1235.9	1236.4	1236.4	1236.4	1236.4	1237.3	1237.3	1237.8	1238.3
7.5°	1231.3	1231.3	1231.3	1231.3	1230.8	1231.3	1230.8	1230.8	1231.8	1232.2	1232.7
10°	1223.9	1223.4	1223.4	1222.9	1222.9	1222.9	1223.4	1223.9	1224.3	1224.8	1226.2
12.5°	1212.2	1211.8	1211.8	1211.3	1211.3	1211.8	1212.2	1213.2	1215.0	1216.0	1217.8
15°	1193.6	1193.2	1193.6	1194.1	1195.0	1196.4	1197.8	1199.2	1202.0	1204.3	1206.7
17.5°	1166.7	1167.1	1167.6	1168.5	1169.9	1171.8	1175.5	1179.2	1182.5	1186.2	1189.9
20°	1129.5	1131.3	1131.8	1135.0	1136.0	1140.2	1144.3	1149.9	1155.0	1159.7	1164.8
22.5°	1084.8	1086.2	1088.1	1091.8	1094.1	1099.7	1104.8	1111.3	1116.9	1123.0	1130.4
25°	1034.1	1034.6	1040.2	1040.2	1045.8	1050.4	1056.5	1063.4	1071.8	1079.7	1084.8
27.5°	976.5	978.8	983.0	984.9	989.0	996.5	1001.6	1010.0	1018.3	1025.3	1030.9
30°	916.0	917.9	924.9	925.8	929.1	935.6	942.5	950.4	957.0	964.9	970.0
32.5°	852.3	857.4	861.6	864.9	865.8	875.6	879.3	884.9	892.3	900.2	905.3
35°	790.5	792.8	798.9	800.7	803.5	809.1	816.5	821.2	824.9	830.0	836.1
37.5°	724.9	731.9	733.3	738.9	739.8	744.9	748.6	754.2	758.9	763.5	764.4
40°	664.0	666.3	671.4	672.8	673.8	680.7	685.4	686.8	689.1	693.3	698.9
42.5°	602.2	604.5	610.1	608.7	612.9	616.1	618.4	624.0	626.3	627.7	627.7
45°	541.3	542.2	545.9	547.8	550.1	551.9	556.1	558.9	559.9	564.0	565.4
47.5°	483.1	484.1	486.8	490.1	489.2	491.5	496.1	497.5	498.0	500.8	502.2
50°	425.9	428.3	432.0	431.0	433.8	435.2	439.4	440.3	440.3	440.8	441.3
52.5°	372.5	374.3	375.2	376.2	377.6	379.9	381.8	380.8	382.7	384.5	383.2
55°	319.4	320.8	323.2	324.1	324.1	324.6	323.6	327.8	326.0	325.5	326.0
57.5°	271.1	269.2	268.8	271.1	272.0	271.6	270.2	272.0	272.0	271.1	269.7
60°	224.1	222.7	222.3	222.7	220.9	219.5	220.4	219.5	217.2	216.2	216.7
62.5°	181.3	180.0	176.2	176.2	175.3	174.8	171.1	171.6	169.7	166.9	167.9
65°	141.8	138.1	136.2	135.8	132.5	129.7	128.8	125.5	122.8	122.3	122.8
67.5°	106.5	102.3	99.0	97.6	95.8	93.5	90.2	87.4	88.3	87.9	89.7
70°	73.9	71.1	67.9	65.6	66.5	63.7	61.8	61.8	62.3	62.8	63.7
72.5°	49.3	45.6	44.2	42.8	41.8	40.0	40.9	40.9	40.5	40.9	40.0
75°	27.9	26.0	24.6	24.2	23.2	23.2	23.2	23.2	22.8	22.3	22.3
77.5°	12.6	11.6	11.2	10.7	10.7	10.7	10.2	9.8	9.8	9.8	9.3
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	1.9	1.9	2.3	2.3	2.3	1.9	2.3	2.3	1.9	1.9	2.3
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: P857574

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3
2.5°	1242.0	1242.5	1242.5	1242.5	1242.9	1242.9	1242.9	1242.9
5°	1238.7	1239.2	1239.2	1239.2	1239.7	1239.7	1239.7	1239.7
7.5°	1233.2	1233.6	1233.6	1234.1	1234.1	1234.6	1234.6	1235.0
10°	1226.6	1227.6	1228.0	1228.5	1229.0	1229.4	1229.4	1229.9
12.5°	1219.7	1220.6	1221.1	1222.0	1222.9	1223.4	1223.9	1224.3
15°	1209.4	1211.3	1212.2	1212.7	1214.6	1215.5	1216.0	1216.4
17.5°	1193.2	1196.9	1198.3	1199.2	1201.1	1202.9	1204.3	1204.8
20°	1169.9	1174.1	1176.0	1178.3	1181.1	1183.4	1184.3	1185.3
22.5°	1137.4	1142.0	1144.8	1147.6	1149.9	1152.3	1156.0	1154.6
25°	1090.9	1098.8	1102.0	1103.4	1108.5	1111.3	1113.2	1111.3
27.5°	1038.8	1043.4	1046.2	1049.5	1053.2	1056.0	1056.9	1059.7
30°	976.0	983.9	983.5	986.7	991.4	994.2	995.1	997.4
32.5°	910.9	914.6	917.4	917.0	918.8	923.9	922.1	926.3
35°	841.6	842.1	846.8	846.3	850.0	850.0	850.0	852.8
37.5°	767.7	773.3	771.0	776.5	774.7	776.1	776.1	777.0
40°	700.3	702.1	702.1	704.0	705.4	704.0	704.9	707.3
42.5°	630.5	632.4	632.9	631.9	633.3	637.5	634.2	637.0
45°	565.4	566.8	568.7	567.3	569.6	568.2	569.6	568.7
47.5°	504.1	503.6	503.1	506.8	503.6	504.1	505.9	502.7
50°	441.3	444.1	442.2	443.6	444.5	444.5	443.1	443.1
52.5°	385.5	385.0	383.6	385.0	384.1	384.5	385.5	384.5
55°	327.8	329.7	328.7	328.3	328.7	328.7	331.5	327.8
57.5°	271.1	270.2	271.6	274.8	271.6	273.9	275.3	275.7
60°	217.2	217.2	219.9	218.5	221.3	223.7	225.5	224.6
62.5°	165.5	167.9	168.8	169.3	172.0	173.9	173.9	173.4
65°	122.8	126.0	126.0	127.9	128.8	128.8	129.7	131.6
67.5°	90.7	90.7	91.1	92.1	91.6	91.6	92.5	93.0
70°	63.2	62.3	63.7	63.2	63.2	62.8	63.2	63.2
72.5°	40.0	40.0	40.5	40.0	39.1	39.5	39.5	40.5
75°	21.4	22.3	21.4	21.4	21.9	20.9	21.4	21.9
77.5°	8.8	8.8	8.8	8.8	8.8	8.4	8.4	8.4
80°	4.2	4.2	4.2	4.2	4.2	4.2	3.7	3.7
82.5°	1.9	2.3	1.9	2.3	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)