

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: P879402

Luminaire Tested: **LD4C30D010 EU4309035 4LBDWWH**

Issue Date: 10/1/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P879402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C30D010 EU4309035 4LBLDWWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

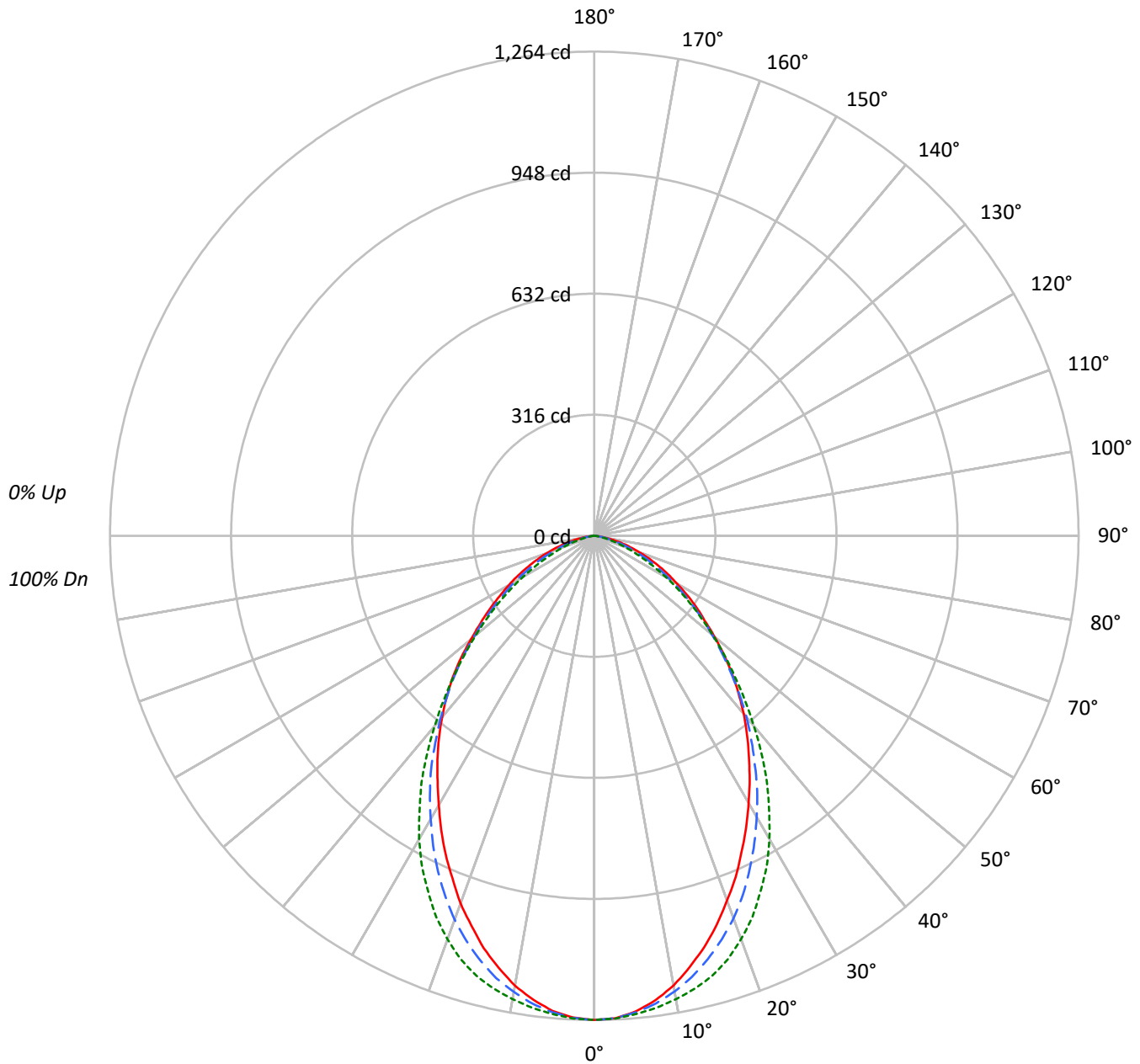
Lumens per Lamp: N/A
Luminaire Lumens: 2261.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V): NR
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: P879402

CATALOG NUMBER: LD4C30D010 EU4309035 4LBLDWWH

Luminous Intensity Polar Plot





TEST NUMBER: P879402

CATALOG NUMBER: LD4C30D010 EU4309035 4LBLDWWH

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	100	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85	100	94	89	84		90	86	82		87	84	80		84	81	79
3	95	86	79	73	92	84	78	73		81	76	71		79	74	70		76	72	69
4	88	77	70	64	86	76	69	63		74	68	63		71	66	62		69	65	61
5	81	70	62	56	80	69	62	56		67	61	56		65	59	55		63	58	54
6	76	64	56	50	74	63	56	50		61	55	50		60	54	49		58	53	49
7	71	59	51	45	69	58	50	45		56	50	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34	57	46	39	34		45	39	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	155299	155299	155299
5°	153709	154573	153549
10°	148713	153229	148775
15°	141292	151264	141763
20°	132424	146505	133523
25°	123340	139010	124466
30°	114253	129673	115119
35°	105403	117866	107008
40°	97235	103858	99015
45°	88069	90015	90745
50°	78075	77100	80024
55°	69611	64921	71196
60°	60911	52704	63196
65°	53314	40756	55203
70°	44864	29849	47199
75°	35031	19414	37024
80°	22993	10188	25257
85°	7894	4511	10431



TEST NUMBER: P879402

CATALOG NUMBER: LD4C30D010 EU4309035 4LBLDWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	5.2
10°-20°	322.4	14.3
20°-30°	443.4	19.6
30°-40°	462.6	20.5
40°-50°	395.8	17.5
50°-60°	283.1	12.5
60°-70°	164.3	7.3
70°-80°	63.3	2.8
80°-90°	8.0	0.4
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°	883.9	39.1
0°-40°	1346.5	59.6
0°-60°	2025.3	89.6
0°-90°	2261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1264	1264	1264	1264	1264	
5°	1246	1249	1253	1249	1245	117
15°	1111	1144	1189	1148	1115	311
25°	910	960	1026	966	918	419
35°	703	731	786	742	714	440
45°	507	503	518	515	522	391
55°	325	309	303	317	332	291
65°	183	162	140	168	190	183
75°	74	55	41	58	78	79
85°	6	4	3	5	7	11
90°	0	0	0	0	0	



TEST NUMBER: P879402

CATALOG NUMBER: LD4C30D010 EU4309035 4LBLDWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1260.8	1259.9	1260.4	1260.4	1260.4	1259.9	1260.8	1260.8	1260.4	1260.4	1260.4
5°	1246.4	1245.5	1246.0	1246.4	1246.4	1246.4	1246.9	1247.4	1247.8	1248.3	1248.8
7.5°	1223.2	1221.8	1223.2	1225.1	1225.1	1225.6	1226.0	1226.5	1227.9	1230.2	1231.6
10°	1192.1	1192.1	1192.6	1194.0	1196.3	1195.8	1197.2	1199.6	1202.3	1205.6	1207.9
12.5°	1152.7	1153.6	1155.0	1156.4	1158.7	1160.1	1162.4	1165.2	1169.8	1174.5	1179.6
15°	1110.9	1111.4	1111.8	1115.1	1117.4	1120.6	1122.5	1128.1	1132.2	1138.7	1144.3
17.5°	1064.0	1063.5	1064.9	1067.7	1073.3	1074.7	1077.0	1083.0	1089.1	1097.9	1105.3
20°	1012.9	1015.7	1017.6	1021.3	1024.5	1028.3	1030.1	1037.5	1044.5	1052.9	1062.6
22.5°	964.7	962.3	965.6	969.8	972.6	975.3	978.6	986.5	993.9	1004.1	1013.9
25°	909.9	911.3	913.6	916.8	920.6	924.3	928.0	936.3	940.5	951.2	960.0
27.5°	857.9	860.2	861.1	865.3	868.6	871.4	873.2	883.0	886.7	896.0	904.8
30°	805.4	807.8	807.8	812.4	814.7	817.5	822.1	828.6	834.2	840.7	847.2
32.5°	754.8	754.8	756.7	760.9	763.2	766.4	767.8	772.5	778.0	784.5	791.5
35°	702.8	704.2	706.1	706.1	710.3	712.1	714.0	718.6	722.3	725.1	730.7
37.5°	655.0	655.0	653.6	656.0	658.7	658.3	661.1	663.4	665.7	668.9	673.6
40°	606.3	606.3	604.4	605.8	607.7	607.2	606.3	608.6	610.5	612.8	617.4
42.5°	556.6	555.7	555.2	555.2	556.1	555.2	556.1	556.6	556.6	556.6	559.4
45°	506.9	509.3	506.5	505.5	504.1	502.8	502.3	502.8	504.6	502.3	502.8
47.5°	458.2	459.1	457.3	455.9	454.5	453.5	454.5	451.7	452.6	453.1	451.2
50°	408.5	406.7	406.7	405.3	405.7	405.3	404.3	403.4	403.4	401.1	399.7
52.5°	362.6	363.5	364.4	361.2	361.6	359.3	359.8	357.5	357.5	354.7	355.6
55°	325.0	323.6	323.6	322.2	321.7	319.4	318.9	317.5	314.3	312.4	308.7
57.5°	286.0	285.5	283.6	284.1	281.3	280.9	279.9	277.6	275.3	273.0	268.8
60°	247.9	248.4	248.4	247.4	246.0	243.7	244.2	240.9	237.7	233.5	229.8
62.5°	216.3	214.9	214.5	213.5	210.8	210.8	208.4	206.1	202.9	198.7	195.4
65°	183.4	183.8	182.4	181.0	178.3	177.8	175.9	174.1	170.8	166.7	162.0
67.5°	153.7	152.7	152.3	150.9	148.1	147.6	146.2	142.1	139.3	135.1	131.4
70°	124.9	123.9	124.4	122.1	119.3	117.9	117.4	114.2	110.0	106.8	103.1
72.5°	98.0	98.0	97.5	95.2	93.8	92.8	91.0	87.3	85.0	81.2	78.5
75°	73.8	73.3	72.4	71.0	69.2	68.2	67.3	65.0	61.7	57.6	55.2
77.5°	51.1	51.5	50.6	50.1	47.8	46.4	46.0	44.6	41.8	39.0	36.7
80°	32.5	32.0	31.6	30.6	30.2	29.7	28.3	27.4	24.6	23.2	21.8
82.5°	17.6	16.7	16.7	16.2	15.3	14.9	14.4	13.5	13.0	12.1	11.1
85°	5.6	6.0	5.6	5.6	5.6	5.1	5.1	5.1	4.6	4.6	4.2
87.5°	0.5	0.9	0.5	0.5	0.9	0.5	0.5	0.9	0.5	0.5	0.9
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: P879402

CATALOG NUMBER: LD4C30D010 EU4309035 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1260.4	1260.8	1260.8	1261.3	1261.3	1261.3	1261.3	1261.3	1261.3	1261.3	1261.3
5°	1250.2	1250.2	1251.1	1252.0	1252.0	1252.0	1252.5	1253.4	1253.4	1253.4	1252.9
7.5°	1233.4	1235.3	1237.2	1239.0	1239.5	1239.9	1240.9	1242.7	1242.7	1242.7	1242.7
10°	1211.6	1215.8	1218.1	1220.9	1222.3	1223.2	1226.0	1226.5	1227.9	1228.3	1227.9
12.5°	1183.8	1189.3	1194.5	1199.1	1201.0	1202.8	1205.6	1208.4	1209.8	1211.2	1210.7
15°	1152.7	1158.7	1166.6	1171.7	1175.4	1178.2	1182.4	1186.1	1188.4	1189.3	1189.3
17.5°	1115.1	1122.5	1130.9	1139.2	1141.5	1146.2	1150.8	1155.9	1158.7	1159.2	1158.7
20°	1073.3	1081.6	1088.6	1097.0	1102.1	1104.4	1110.9	1117.4	1120.2	1120.6	1120.2
22.5°	1023.6	1031.5	1040.8	1049.6	1053.8	1058.0	1064.9	1071.4	1075.1	1077.9	1075.1
25°	968.4	979.5	988.3	995.8	1001.8	1006.0	1014.8	1019.9	1025.9	1025.5	1025.9
27.5°	914.1	923.3	933.1	941.9	945.6	950.3	957.2	965.6	970.7	973.9	973.5
30°	858.4	865.8	874.1	882.0	888.1	891.8	902.0	905.7	912.2	914.1	912.7
32.5°	799.4	804.5	812.9	823.5	825.9	829.6	836.1	845.4	847.7	848.6	849.1
35°	736.7	746.5	753.4	759.9	761.8	765.0	772.5	779.4	781.8	785.9	784.1
37.5°	678.7	684.3	687.5	694.0	699.6	702.4	706.1	710.7	715.4	717.2	716.8
40°	620.7	623.5	626.2	633.2	633.7	633.7	639.2	645.7	645.7	647.6	647.6
42.5°	561.2	561.7	565.4	569.1	570.1	571.0	576.6	577.5	580.3	581.7	583.5
45°	503.7	506.5	508.8	509.3	511.6	512.0	513.4	514.8	519.0	518.1	519.0
47.5°	451.2	452.6	454.0	454.0	455.4	454.9	457.3	455.9	458.7	459.6	461.0
50°	399.7	402.0	400.6	401.6	401.1	402.5	401.6	401.6	401.6	403.4	404.8
52.5°	352.3	352.8	351.4	351.9	351.9	351.0	351.9	351.4	351.0	351.0	351.4
55°	308.7	306.9	305.9	304.1	301.7	304.5	303.1	302.2	304.1	303.1	304.1
57.5°	266.5	264.1	262.3	261.4	258.1	260.0	258.1	257.2	257.2	257.2	259.5
60°	226.5	224.2	221.9	219.1	218.7	217.7	216.8	214.5	214.9	214.5	215.4
62.5°	191.7	187.1	183.8	181.5	181.0	179.7	178.3	175.9	176.4	176.4	176.9
65°	159.7	154.6	149.9	146.7	146.7	144.4	142.1	142.1	139.3	140.2	140.7
67.5°	127.7	123.5	118.8	116.5	115.1	113.3	111.9	110.9	109.6	109.6	110.5
70°	98.9	94.7	92.4	88.7	88.2	86.8	85.0	83.6	83.1	83.1	82.6
72.5°	74.7	71.0	68.2	65.9	64.5	63.1	61.3	60.8	59.9	59.9	60.8
75°	52.0	49.7	47.4	45.0	44.1	43.6	42.2	41.3	41.3	40.9	41.3
77.5°	34.8	32.5	30.2	29.2	28.3	27.4	26.9	26.5	25.1	25.1	25.1
80°	20.0	19.0	18.1	16.7	16.7	16.2	15.3	14.9	14.4	14.4	14.4
82.5°	10.2	9.7	8.8	8.4	8.4	8.4	7.9	7.9	7.4	7.4	7.4
85°	4.2	3.7	3.2	3.2	3.2	3.2	3.2	3.2	3.7	3.2	3.7
87.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: P879402

CATALOG NUMBER: LD4C30D010 EU4309035 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1261.3	1260.8	1260.8	1260.8	1260.8	1260.8	1260.4	1260.4	1259.9	1259.9	1259.9
5°	1253.4	1252.9	1252.5	1252.0	1251.6	1251.1	1250.6	1250.2	1248.8	1248.3	1247.4
7.5°	1242.3	1241.3	1239.9	1239.5	1238.6	1237.2	1235.3	1234.4	1232.5	1230.2	1229.3
10°	1227.4	1225.6	1224.2	1221.8	1221.4	1219.5	1214.9	1212.6	1209.3	1206.5	1203.3
12.5°	1209.3	1207.4	1204.2	1201.0	1199.1	1194.9	1190.7	1187.0	1182.8	1176.8	1172.2
15°	1187.0	1184.2	1177.7	1176.8	1174.0	1167.5	1162.0	1155.0	1148.5	1142.0	1136.4
17.5°	1157.3	1151.3	1148.0	1143.9	1140.6	1132.2	1126.2	1118.3	1109.5	1102.1	1094.2
20°	1118.3	1111.8	1106.2	1103.9	1099.7	1092.3	1084.9	1075.1	1066.3	1057.0	1050.1
22.5°	1071.9	1067.7	1059.4	1056.6	1051.5	1044.0	1035.2	1025.9	1017.6	1007.4	998.1
25°	1022.2	1016.2	1009.7	1004.1	1000.4	993.4	982.3	975.3	966.1	954.9	947.9
27.5°	969.3	962.3	953.1	949.3	946.1	936.8	927.5	918.7	911.3	901.5	895.5
30°	908.0	902.9	896.9	892.2	887.6	880.2	871.8	861.6	853.7	849.1	840.7
32.5°	845.8	841.6	833.7	831.4	826.3	820.3	814.3	806.8	798.5	791.5	785.0
35°	779.4	775.3	769.7	765.5	763.7	759.5	753.0	746.5	742.3	734.4	731.2
37.5°	713.0	711.7	706.1	701.9	700.5	695.4	692.2	687.5	681.5	679.6	675.9
40°	644.8	643.9	640.6	640.2	637.4	636.0	631.3	627.6	624.8	623.5	621.1
42.5°	582.1	581.2	578.4	578.9	576.1	575.2	574.7	571.5	569.1	566.4	566.8
45°	520.4	519.5	517.6	516.7	518.1	517.6	516.7	515.3	515.3	515.8	514.4
47.5°	461.0	461.9	460.0	461.0	461.0	459.6	459.6	461.4	461.9	462.8	463.8
50°	404.8	407.6	406.7	408.1	408.5	409.0	407.6	409.9	409.4	413.6	412.7
52.5°	353.7	354.2	356.1	356.5	357.0	357.5	359.8	361.6	362.1	364.0	367.2
55°	304.5	305.0	308.7	308.7	311.0	311.5	314.7	315.7	317.1	322.2	323.1
57.5°	258.1	260.9	262.8	263.7	265.1	267.4	269.3	273.4	275.7	279.0	282.2
60°	216.3	219.6	221.9	222.8	224.7	227.5	229.8	234.4	238.6	242.3	244.6
62.5°	177.8	180.6	182.4	185.7	185.7	188.0	193.6	196.4	201.0	204.3	208.4
65°	143.4	145.3	148.6	148.6	150.4	154.1	158.8	162.9	167.6	172.2	176.4
67.5°	112.3	113.7	115.6	117.4	118.4	123.0	126.7	132.8	136.9	140.2	145.3
70°	85.0	85.9	88.2	90.1	91.5	94.7	98.9	103.1	107.2	110.9	116.1
72.5°	60.8	62.7	65.0	66.4	67.3	69.6	73.8	78.0	81.7	85.4	88.2
75°	41.8	43.2	44.1	45.5	46.9	48.7	51.5	54.3	58.5	62.2	65.5
77.5°	26.0	27.4	28.8	29.2	29.7	31.6	33.4	36.2	39.0	41.8	44.1
80°	15.3	15.8	16.2	16.7	17.6	19.0	20.0	21.8	23.7	25.5	27.9
82.5°	7.9	8.4	8.8	8.8	8.8	9.3	10.7	11.6	12.1	13.0	14.4
85°	3.2	3.2	3.2	3.7	3.7	4.2	4.2	4.6	4.6	5.1	5.6
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: P879402

CATALOG NUMBER: LD4C30D010 EU4309035 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1259.4	1259.4	1259.4	1259.0	1259.4	1259.4	1259.4	1259.0
5°	1247.4	1246.4	1246.4	1246.0	1245.5	1245.5	1246.0	1245.1
7.5°	1227.4	1226.0	1225.1	1225.1	1224.6	1224.2	1224.2	1221.8
10°	1201.4	1198.6	1198.6	1197.7	1194.0	1193.5	1192.6	1192.6
12.5°	1168.9	1165.7	1163.8	1161.5	1159.2	1157.3	1156.8	1155.0
15°	1130.4	1126.2	1123.0	1122.0	1118.3	1115.5	1115.5	1114.6
17.5°	1088.6	1082.1	1079.8	1077.5	1072.4	1071.9	1071.0	1066.8
20°	1041.3	1035.2	1032.0	1029.7	1026.4	1021.8	1020.8	1021.3
22.5°	991.6	983.2	980.4	978.1	974.9	970.7	970.7	967.4
25°	940.1	932.6	929.8	927.1	922.0	920.1	917.8	918.2
27.5°	887.6	880.6	878.3	873.2	870.0	867.6	865.3	865.3
30°	832.8	829.1	825.4	824.9	818.4	815.6	813.3	811.5
32.5°	779.9	775.3	773.4	771.5	768.3	764.6	764.1	760.9
35°	727.9	723.3	720.9	719.1	715.4	714.0	712.6	713.5
37.5°	673.1	672.2	670.8	668.5	666.2	665.7	663.8	666.2
40°	619.3	618.8	617.0	617.4	617.4	616.5	617.4	617.4
42.5°	567.3	567.3	565.4	566.4	566.8	567.7	569.1	570.1
45°	516.7	516.2	516.7	517.6	516.7	519.0	520.9	522.3
47.5°	464.7	465.2	467.0	467.5	468.4	471.7	471.7	471.7
50°	415.0	417.3	416.4	419.2	418.7	420.6	418.7	418.7
52.5°	367.7	370.0	370.5	370.9	373.7	374.2	374.2	373.7
55°	325.4	328.7	327.3	329.6	331.0	331.9	333.3	332.4
57.5°	286.4	287.8	289.2	289.7	291.5	292.5	293.4	292.5
60°	247.9	250.7	253.0	253.5	254.4	255.3	255.8	257.2
62.5°	211.7	216.3	217.3	217.7	220.0	221.4	222.4	223.3
65°	179.7	182.9	185.2	186.6	188.5	188.5	189.9	189.9
67.5°	148.6	151.8	153.2	154.1	156.9	157.4	159.7	159.7
70°	120.2	122.6	123.5	124.9	127.7	129.5	130.4	131.4
72.5°	92.8	95.6	97.0	98.9	100.7	102.1	102.6	104.0
75°	67.8	72.0	72.4	74.3	75.7	77.5	78.5	78.0
77.5°	47.4	48.7	50.6	51.5	52.9	54.3	55.7	55.7
80°	29.2	31.1	31.6	32.0	33.9	34.8	35.7	35.7
82.5°	15.3	16.2	17.2	17.6	18.6	18.6	19.0	19.5
85°	6.0	6.5	6.5	6.5	7.0	7.4	7.4	7.4
87.5°	0.9	1.4	0.9	0.9	1.4	1.4	1.4	1.4
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)