

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: P879398

Luminaire Tested: **LD4C30D010 EU4309027 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: P879398
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 EU4309027 4LBLDWWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

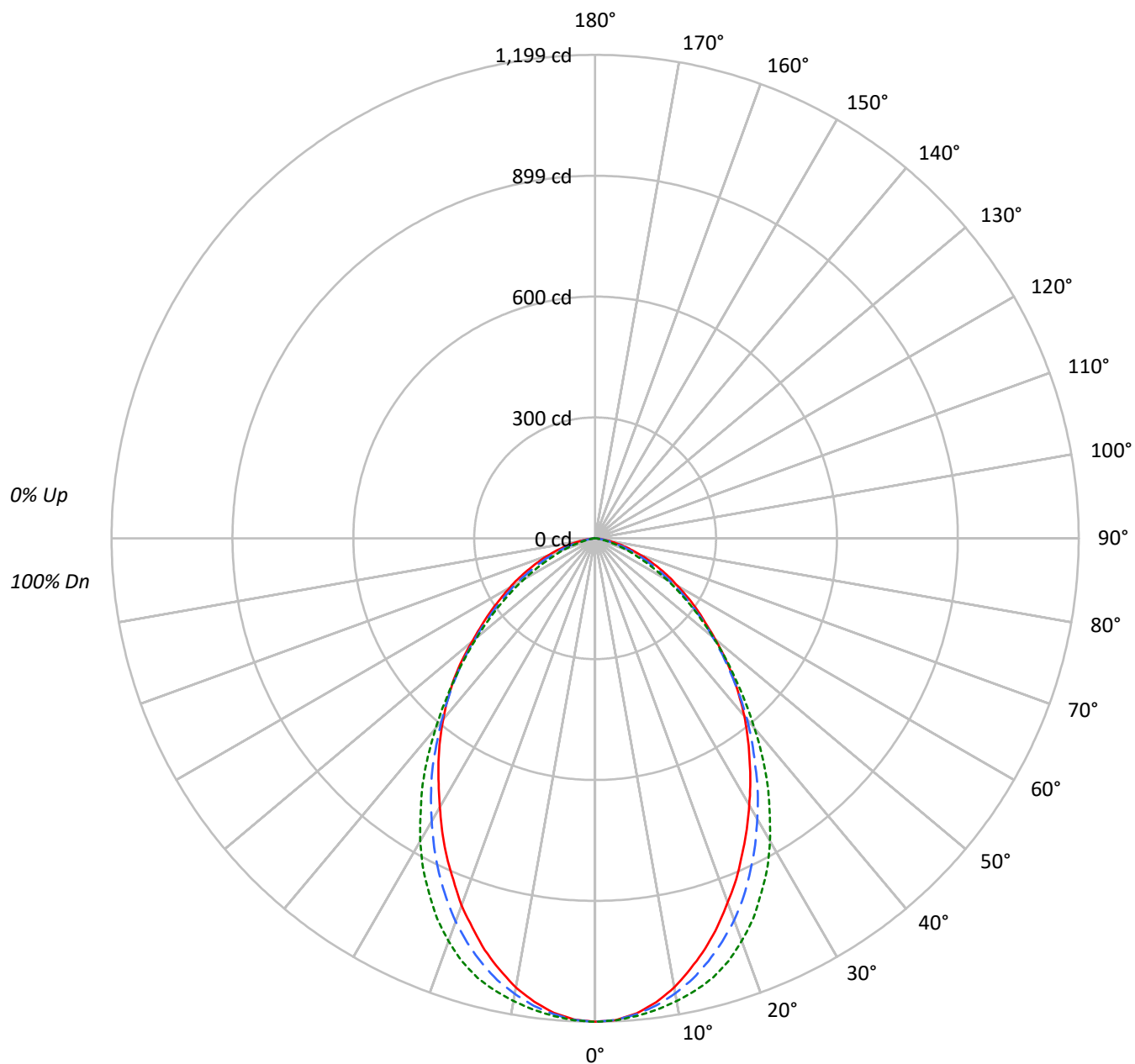
Lumens per Lamp: N/A
Luminaire Lumens: 2145.0 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P879398

CATALOG NUMBER: LD4C30D010 EU4309027 4LBLDWWH

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	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59		
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52		
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	147326	147326	147326
5°	145829	146643	145669
10°	141091	145370	141141
15°	134043	143505	134488
20°	125639	138988	126672
25°	117010	131880	118081
30°	108394	123020	109203
35°	100004	111822	101519
40°	92247	98534	93931
45°	83552	85394	86089
50°	74080	73144	75915
55°	66034	61601	67534
60°	57790	50001	59952
65°	50581	38663	52354
70°	42565	28305	44756
75°	33227	18417	35126
80°	21791	9693	23984
85°	7471	4370	9867



TEST NUMBER: P879398

CATALOG NUMBER: LD4C30D010 EU4309027 4LBLDWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	5.2
10°-20°	305.9	14.3
20°-30°	420.7	19.6
30°-40°	438.9	20.5
40°-50°	375.5	17.5
50°-60°	268.6	12.5
60°-70°	155.8	7.3
70°-80°	60.1	2.8
80°-90°	7.6	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°	838.5	39.1
0°-40°	1277.4	59.6
0°-60°	1921.4	89.6
0°-90°	2145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2145.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1199	1199	1199	1199	1199	
5°	1182	1185	1189	1185	1181	111
15°	1054	1086	1128	1090	1057	295
25°	863	911	973	916	871	397
35°	667	693	746	704	677	418
45°	481	477	492	489	496	371
55°	308	293	288	301	315	276
65°	174	154	133	159	180	173
75°	70	52	39	56	74	75
85°	5	4	3	4	7	10
90°	0	0	0	0	0	



TEST NUMBER: P879398

CATALOG NUMBER: LD4C30D010 EU4309027 4LBLDWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2
2.5°	1196.1	1195.3	1195.7	1195.7	1195.7	1195.3	1196.1	1196.1	1195.7	1195.7	1195.7
5°	1182.5	1181.6	1182.1	1182.5	1182.5	1182.5	1182.9	1183.4	1183.8	1184.3	1184.7
7.5°	1160.5	1159.2	1160.5	1162.2	1162.2	1162.7	1163.1	1163.6	1164.9	1167.1	1168.4
10°	1131.0	1131.0	1131.4	1132.7	1134.9	1134.5	1135.8	1138.0	1140.7	1143.7	1145.9
12.5°	1093.5	1094.4	1095.7	1097.1	1099.3	1100.6	1102.8	1105.4	1109.8	1114.2	1119.1
15°	1053.9	1054.3	1054.8	1057.9	1060.1	1063.1	1064.9	1070.2	1074.2	1080.3	1085.6
17.5°	1009.4	1009.0	1010.3	1012.9	1018.2	1019.5	1021.7	1027.5	1033.2	1041.6	1048.6
20°	961.0	963.6	965.4	968.9	972.0	975.5	977.3	984.3	990.9	998.8	1008.1
22.5°	915.2	913.0	916.0	920.0	922.7	925.3	928.4	935.9	942.9	952.6	961.9
25°	863.2	864.5	866.7	869.8	873.3	876.9	880.4	888.3	892.3	902.4	910.8
27.5°	813.9	816.1	817.0	820.9	824.0	826.6	828.4	837.7	841.2	850.0	858.4
30°	764.1	766.3	766.3	770.7	772.9	775.6	780.0	786.1	791.4	797.6	803.7
32.5°	716.1	716.1	717.9	721.8	724.0	727.1	728.4	732.8	738.1	744.3	750.9
35°	666.8	668.1	669.9	669.9	673.8	675.6	677.3	681.8	685.3	687.9	693.2
37.5°	621.4	621.4	620.1	622.3	624.9	624.5	627.1	629.3	631.5	634.6	639.0
40°	575.2	575.2	573.4	574.7	576.5	576.1	575.2	577.4	579.1	581.3	585.7
42.5°	528.0	527.2	526.7	526.7	527.6	526.7	527.6	528.0	528.0	528.0	530.7
45°	480.9	483.1	480.5	479.6	478.3	477.0	476.5	477.0	478.7	476.5	477.0
47.5°	434.7	435.6	433.8	432.5	431.2	430.3	431.2	428.5	429.4	429.8	428.1
50°	387.6	385.8	385.8	384.5	384.9	384.5	383.6	382.7	382.7	380.5	379.2
52.5°	344.0	344.8	345.7	342.6	343.1	340.9	341.3	339.1	339.1	336.5	337.4
55°	308.3	307.0	307.0	305.6	305.2	303.0	302.6	301.2	298.2	296.4	292.9
57.5°	271.3	270.9	269.1	269.5	266.9	266.4	265.6	263.4	261.2	259.0	255.0
60°	235.2	235.6	235.6	234.7	233.4	231.2	231.7	228.6	225.5	221.5	218.0
62.5°	205.2	203.9	203.5	202.6	199.9	199.9	197.7	195.5	192.5	188.5	185.4
65°	174.0	174.4	173.1	171.8	169.1	168.7	166.9	165.2	162.1	158.1	153.7
67.5°	145.8	144.9	144.5	143.1	140.5	140.0	138.7	134.8	132.1	128.2	124.6
70°	118.5	117.6	118.0	115.8	113.2	111.9	111.4	108.3	104.4	101.3	97.8
72.5°	92.9	92.9	92.5	90.3	89.0	88.1	86.3	82.8	80.6	77.1	74.4
75°	70.0	69.6	68.7	67.4	65.6	64.7	63.9	61.7	58.6	54.6	52.4
77.5°	48.4	48.9	48.0	47.6	45.4	44.0	43.6	42.3	39.6	37.0	34.8
80°	30.8	30.4	29.9	29.1	28.6	28.2	26.9	26.0	23.3	22.0	20.7
82.5°	16.7	15.9	15.9	15.4	14.5	14.1	13.7	12.8	12.3	11.5	10.6
85°	5.3	5.7	5.3	5.3	5.3	4.8	4.8	4.8	4.4	4.4	4.0
87.5°	0.4	0.9	0.4	0.4	0.9	0.4	0.4	0.9	0.4	0.4	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: P879398

CATALOG NUMBER: LD4C30D010 EU4309027 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2
2.5°	1195.7	1196.1	1196.1	1196.6	1196.6	1196.6	1196.6	1196.6	1196.6	1196.6	1196.6
5°	1186.0	1186.0	1186.9	1187.8	1187.8	1187.8	1188.2	1189.1	1189.1	1189.1	1188.7
7.5°	1170.2	1171.9	1173.7	1175.4	1175.9	1176.3	1177.2	1179.0	1179.0	1179.0	1179.0
10°	1149.5	1153.4	1155.6	1158.3	1159.6	1160.5	1163.1	1163.6	1164.9	1165.3	1164.9
12.5°	1123.0	1128.3	1133.2	1137.6	1139.3	1141.1	1143.7	1146.4	1147.7	1149.0	1148.6
15°	1093.5	1099.3	1106.7	1111.6	1115.1	1117.8	1121.7	1125.2	1127.4	1128.3	1128.3
17.5°	1057.9	1064.9	1072.8	1080.8	1083.0	1087.4	1091.8	1096.6	1099.3	1099.7	1099.3
20°	1018.2	1026.2	1032.8	1040.7	1045.5	1047.7	1053.9	1060.1	1062.7	1063.1	1062.7
22.5°	971.1	978.6	987.4	995.8	999.7	1003.7	1010.3	1016.5	1020.0	1022.6	1020.0
25°	918.7	929.3	937.6	944.7	950.4	954.4	962.7	967.6	973.3	972.9	973.3
27.5°	867.2	876.0	885.2	893.6	897.1	901.5	908.1	916.0	920.9	924.0	923.5
30°	814.3	821.4	829.3	836.8	842.5	846.0	855.7	859.2	865.4	867.2	865.8
32.5°	758.4	763.2	771.2	781.3	783.5	787.0	793.2	802.0	804.2	805.1	805.5
35°	698.9	708.2	714.8	720.9	722.7	725.8	732.8	739.4	741.6	745.6	743.8
37.5°	643.9	649.2	652.2	658.4	663.7	666.3	669.9	674.3	678.7	680.4	680.0
40°	588.8	591.5	594.1	600.7	601.2	601.2	606.4	612.6	612.6	614.4	614.4
42.5°	532.5	532.9	536.4	539.9	540.8	541.7	547.0	547.9	550.5	551.8	553.6
45°	477.8	480.5	482.7	483.1	485.3	485.8	487.1	488.4	492.4	491.5	492.4
47.5°	428.1	429.4	430.7	430.7	432.0	431.6	433.8	432.5	435.1	436.0	437.3
50°	379.2	381.4	380.1	381.0	380.5	381.8	381.0	381.0	381.0	382.7	384.0
52.5°	334.3	334.7	333.4	333.8	333.8	332.9	333.8	333.4	332.9	332.9	333.4
55°	292.9	291.1	290.2	288.5	286.3	288.9	287.6	286.7	288.5	287.6	288.5
57.5°	252.8	250.6	248.8	247.9	244.9	246.6	244.9	244.0	244.0	244.0	246.2
60°	214.9	212.7	210.5	207.9	207.4	206.6	205.7	203.5	203.9	203.5	204.3
62.5°	181.9	177.5	174.4	172.2	171.8	170.4	169.1	166.9	167.4	167.4	167.8
65°	151.5	146.7	142.3	139.2	139.2	137.0	134.8	134.8	132.1	133.0	133.4
67.5°	121.1	117.1	112.7	110.5	109.2	107.5	106.1	105.3	103.9	103.9	104.8
70°	93.8	89.8	87.6	84.1	83.7	82.4	80.6	79.3	78.8	78.8	78.4
72.5°	70.9	67.4	64.7	62.5	61.2	59.9	58.1	57.7	56.8	56.8	57.7
75°	49.3	47.1	44.9	42.7	41.8	41.4	40.1	39.2	39.2	38.8	39.2
77.5°	33.0	30.8	28.6	27.7	26.9	26.0	25.5	25.1	23.8	23.8	23.8
80°	18.9	18.1	17.2	15.9	15.9	15.4	14.5	14.1	13.7	13.7	13.7
82.5°	9.7	9.2	8.4	7.9	7.9	7.9	7.5	7.5	7.0	7.0	7.0
85°	4.0	3.5	3.1	3.1	3.1	3.1	3.1	3.1	3.5	3.1	3.5
87.5°	0.4	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: P879398

CATALOG NUMBER: LD4C30D010 EU4309027 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2
2.5°	1196.6	1196.1	1196.1	1196.1	1196.1	1196.1	1195.7	1195.7	1195.3	1195.3	1195.3
5°	1189.1	1188.7	1188.2	1187.8	1187.3	1186.9	1186.5	1186.0	1184.7	1184.3	1183.4
7.5°	1178.5	1177.7	1176.3	1175.9	1175.0	1173.7	1171.9	1171.0	1169.3	1167.1	1166.2
10°	1164.4	1162.7	1161.4	1159.2	1158.7	1157.0	1152.5	1150.3	1147.3	1144.6	1141.5
12.5°	1147.3	1145.5	1142.4	1139.3	1137.6	1133.6	1129.6	1126.1	1122.2	1116.4	1112.0
15°	1126.1	1123.5	1117.3	1116.4	1113.8	1107.6	1102.3	1095.7	1089.6	1083.4	1078.1
17.5°	1097.9	1092.2	1089.1	1085.2	1082.1	1074.2	1068.4	1060.9	1052.6	1045.5	1038.0
20°	1060.9	1054.8	1049.5	1047.3	1043.3	1036.3	1029.2	1020.0	1011.6	1002.8	996.2
22.5°	1016.9	1012.9	1005.0	1002.4	997.5	990.5	982.1	973.3	965.4	955.7	946.9
25°	969.8	964.1	957.9	952.6	949.1	942.5	931.9	925.3	916.5	905.9	899.3
27.5°	919.6	913.0	904.2	900.6	897.6	888.7	879.9	871.6	864.5	855.3	849.5
30°	861.4	856.6	850.9	846.5	842.1	835.0	827.1	817.4	809.9	805.5	797.6
32.5°	802.4	798.5	791.0	788.8	783.9	778.2	772.5	765.4	757.5	750.9	744.7
35°	739.4	735.5	730.2	726.2	724.5	720.5	714.3	708.2	704.2	696.7	693.6
37.5°	676.5	675.1	669.9	665.9	664.6	659.7	656.6	652.2	646.5	644.8	641.2
40°	611.7	610.8	607.8	607.3	604.7	603.4	599.0	595.4	592.8	591.5	589.3
42.5°	552.3	551.4	548.7	549.2	546.5	545.7	545.2	542.1	539.9	537.3	537.7
45°	493.7	492.8	491.1	490.2	491.5	491.1	490.2	488.9	488.9	489.3	488.0
47.5°	437.3	438.2	436.4	437.3	437.3	436.0	436.0	437.8	438.2	439.1	440.0
50°	384.0	386.7	385.8	387.1	387.6	388.0	386.7	388.9	388.4	392.4	391.5
52.5°	335.6	336.0	337.8	338.2	338.7	339.1	341.3	343.1	343.5	345.3	348.4
55°	288.9	289.3	292.9	292.9	295.1	295.5	298.6	299.5	300.8	305.6	306.5
57.5°	244.9	247.5	249.3	250.2	251.5	253.7	255.4	259.4	261.6	264.7	267.8
60°	205.2	208.3	210.5	211.4	213.2	215.8	218.0	222.4	226.4	229.9	232.1
62.5°	168.7	171.3	173.1	176.2	176.2	178.4	183.7	186.3	190.7	193.8	197.7
65°	136.1	137.8	140.9	140.9	142.7	146.2	150.6	154.6	159.0	163.4	167.4
67.5°	106.6	107.9	109.7	111.4	112.3	116.7	120.2	126.0	129.9	133.0	137.8
70°	80.6	81.5	83.7	85.4	86.8	89.8	93.8	97.8	101.7	105.3	110.1
72.5°	57.7	59.5	61.7	63.0	63.9	66.1	70.0	74.0	77.5	81.0	83.7
75°	39.6	41.0	41.8	43.2	44.5	46.2	48.9	51.5	55.5	59.0	62.1
77.5°	24.7	26.0	27.3	27.7	28.2	29.9	31.7	34.4	37.0	39.6	41.8
80°	14.5	15.0	15.4	15.9	16.7	18.1	18.9	20.7	22.5	24.2	26.4
82.5°	7.5	7.9	8.4	8.4	8.4	8.8	10.1	11.0	11.5	12.3	13.7
85°	3.1	3.1	3.1	3.5	3.5	4.0	4.0	4.4	4.4	4.8	5.3
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: P879398

CATALOG NUMBER: LD4C30D010 EU4309027 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2	1199.2
2.5°	1194.8	1194.8	1194.8	1194.4	1194.8	1194.8	1194.8	1194.4
5°	1183.4	1182.5	1182.5	1182.1	1181.6	1181.6	1182.1	1181.2
7.5°	1164.4	1163.1	1162.2	1162.2	1161.8	1161.4	1161.4	1159.2
10°	1139.8	1137.1	1137.1	1136.3	1132.7	1132.3	1131.4	1131.4
12.5°	1108.9	1105.9	1104.1	1101.9	1099.7	1097.9	1097.5	1095.7
15°	1072.4	1068.4	1065.3	1064.5	1060.9	1058.3	1058.3	1057.4
17.5°	1032.8	1026.6	1024.4	1022.2	1017.3	1016.9	1016.0	1012.1
20°	987.8	982.1	979.0	976.8	973.7	969.3	968.5	968.9
22.5°	940.7	932.8	930.1	927.9	924.9	920.9	920.9	917.8
25°	891.8	884.8	882.1	879.5	874.7	872.9	870.7	871.1
27.5°	842.1	835.5	833.3	828.4	825.3	823.1	820.9	820.9
30°	790.1	786.6	783.0	782.6	776.4	773.8	771.6	769.8
32.5°	739.9	735.5	733.7	732.0	728.9	725.4	724.9	721.8
35°	690.6	686.2	684.0	682.2	678.7	677.3	676.0	676.9
37.5°	638.6	637.7	636.4	634.2	632.0	631.5	629.8	632.0
40°	587.5	587.1	585.3	585.7	585.7	584.9	585.7	585.7
42.5°	538.2	538.2	536.4	537.3	537.7	538.6	539.9	540.8
45°	490.2	489.7	490.2	491.1	490.2	492.4	494.1	495.5
47.5°	440.8	441.3	443.1	443.5	444.4	447.5	447.5	447.5
50°	393.7	395.9	395.0	397.7	397.2	399.0	397.2	397.2
52.5°	348.8	351.0	351.4	351.9	354.5	355.0	355.0	354.5
55°	308.7	311.8	310.5	312.7	314.0	314.9	316.2	315.3
57.5°	271.7	273.1	274.4	274.8	276.6	277.5	278.3	277.5
60°	235.2	237.8	240.0	240.5	241.3	242.2	242.7	244.0
62.5°	200.8	205.2	206.1	206.6	208.8	210.1	211.0	211.8
65°	170.4	173.5	175.7	177.0	178.8	178.8	180.1	180.1
67.5°	140.9	144.0	145.3	146.2	148.9	149.3	151.5	151.5
70°	114.1	116.3	117.1	118.5	121.1	122.9	123.8	124.6
72.5°	88.1	90.7	92.0	93.8	95.6	96.9	97.3	98.7
75°	64.3	68.3	68.7	70.5	71.8	73.5	74.4	74.0
77.5°	44.9	46.2	48.0	48.9	50.2	51.5	52.8	52.8
80°	27.7	29.5	29.9	30.4	32.1	33.0	33.9	33.9
82.5°	14.5	15.4	16.3	16.7	17.6	17.6	18.1	18.5
85°	5.7	6.2	6.2	6.2	6.6	7.0	7.0	7.0
87.5°	0.9	1.3	0.9	0.9	1.3	1.3	1.3	1.3
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)