

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: P857377

Luminaire Tested: **LX4C25D010 EX4C259035 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857377
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: LX4C25D010 EX4C259035 4LBLWW*
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

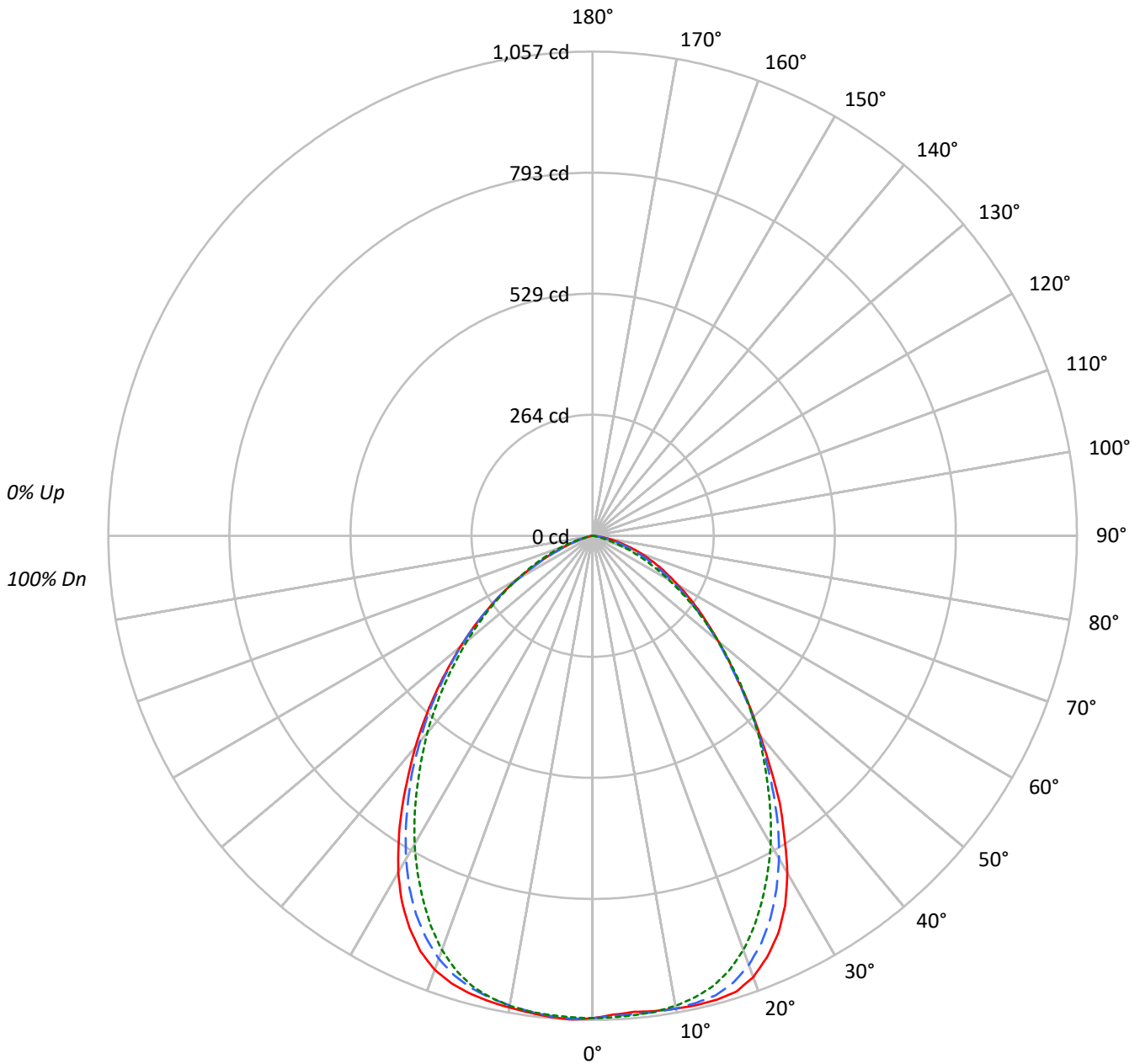
Lumens per Lamp: N/A
Luminaire Lumens: 2019.0 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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					20					
RC	80					70					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				100				
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89				
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78				78				
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68				
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60				60				
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54				54				
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48				48				
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43				43				
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39				39				
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36				36				
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33				33				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	129377	129377	129377
5°	128650	129526	130019
10°	130787	129988	130487
15°	133343	129413	131575
20°	134006	125796	131784
25°	129888	118786	128112
30°	120552	110239	120339
35°	106753	99989	108778
40°	91012	90066	96465
45°	78183	79087	84021
50°	68251	68404	72035
55°	60315	57767	59716
60°	52852	47127	46930
65°	46802	36570	32529
70°	39907	25144	19325
75°	32278	13528	8829
80°	22074	3325	2264
85°	6625	1128	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	5.0
10°-20°	289.7	14.4
20°-30°	418.6	20.7
30°-40°	432.8	21.4
40°-50°	357.6	17.7
50°-60°	246.8	12.2
60°-70°	129.2	6.4
70°-80°	40.7	2.0
80°-90°	3.5	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°	808.5	40.0
0°-40°	1241.3	61.5
0°-60°	1845.7	91.4
0°-90°	2019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2019.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1053	1053	1053	1053	1053	
5°	1043	1048	1050	1052	1054	100
15°	1048	1038	1018	1022	1034	296
25°	958	919	876	912	945	437
35°	712	688	667	702	725	442
45°	450	448	455	476	484	351
55°	282	273	270	277	279	253
65°	161	146	126	104	112	159
75°	68	53	28	19	19	73
85°	5	2	1	1	1	10
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°	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1
2.5°	1046.4	1046.8	1046.8	1047.6	1047.6	1047.6	1048.0	1048.0	1048.4	1048.8	1049.2
5°	1043.2	1043.2	1044.0	1044.4	1045.2	1045.6	1046.4	1046.8	1047.6	1048.0	1048.4
7.5°	1046.4	1046.4	1046.8	1047.2	1047.2	1047.6	1047.6	1048.0	1048.4	1048.8	1048.8
10°	1048.4	1048.4	1048.4	1048.4	1048.8	1048.8	1048.8	1048.4	1048.4	1048.4	1048.0
12.5°	1049.2	1049.2	1048.8	1048.4	1048.8	1048.4	1048.4	1047.2	1046.4	1045.6	1044.4
15°	1048.4	1048.4	1048.0	1047.6	1047.2	1046.4	1046.0	1044.0	1042.4	1040.1	1038.5
17.5°	1043.2	1042.4	1041.6	1040.8	1039.3	1038.1	1037.3	1033.7	1031.0	1027.0	1022.7
20°	1025.0	1024.2	1023.1	1021.1	1019.1	1017.5	1015.1	1010.0	1007.2	1001.3	997.0
22.5°	995.4	994.6	995.0	991.4	987.5	985.1	983.5	979.2	974.4	966.9	962.2
25°	958.2	955.8	955.8	950.3	948.3	946.7	944.8	939.6	932.5	925.8	919.4
27.5°	910.0	906.8	905.2	904.4	899.7	896.1	893.3	889.4	883.5	877.5	868.8
30°	849.8	849.4	847.5	843.9	840.4	838.8	835.6	828.9	823.3	819.0	813.5
32.5°	779.1	778.7	778.7	778.7	776.3	775.9	771.1	767.6	763.2	756.5	753.0
35°	711.8	711.4	711.8	705.9	704.3	703.1	702.7	700.4	694.4	691.3	688.1
37.5°	635.9	637.1	636.3	634.7	636.7	633.1	635.9	630.8	628.4	627.6	624.0
40°	567.5	570.6	567.5	567.9	569.9	566.3	566.3	565.5	563.9	563.1	562.3
42.5°	509.0	505.0	507.4	505.4	507.4	506.2	504.2	505.4	505.8	504.2	503.8
45°	450.0	450.8	451.6	450.4	450.4	449.2	452.4	450.4	450.4	450.8	448.1
47.5°	402.2	401.0	401.8	401.0	401.4	400.6	401.4	401.8	401.0	401.0	398.6
50°	357.1	356.3	359.1	356.7	356.7	356.3	356.7	355.9	354.7	354.7	355.5
52.5°	317.9	316.4	316.0	317.9	315.2	315.2	315.6	314.8	313.2	312.4	310.4
55°	281.6	281.2	281.6	280.0	279.2	279.2	277.2	276.4	276.0	274.1	272.9
57.5°	247.6	246.4	246.8	246.4	244.8	244.4	242.8	242.8	241.2	239.6	237.7
60°	215.1	215.1	216.3	214.7	213.5	212.8	212.0	211.2	208.4	205.6	203.3
62.5°	186.3	186.7	186.3	185.1	184.3	183.5	182.7	180.3	178.0	176.4	173.6
65°	161.0	160.6	159.4	158.6	156.6	156.6	155.0	153.8	151.1	148.7	145.9
67.5°	134.9	134.1	134.1	134.1	131.7	131.3	130.5	128.1	125.8	122.6	120.2
70°	111.1	111.9	110.7	109.5	108.4	108.0	106.8	104.4	101.6	98.5	96.5
72.5°	88.6	89.4	88.2	87.8	85.4	84.6	84.2	82.3	79.1	77.1	74.0
75°	68.0	68.4	67.6	66.8	65.3	64.9	62.9	61.3	59.3	56.2	53.4
77.5°	49.0	48.2	48.2	46.7	45.1	45.1	44.7	42.3	39.5	37.2	34.8
80°	31.2	30.8	29.7	28.9	27.7	27.3	26.9	24.9	22.9	21.4	19.8
82.5°	15.8	15.4	15.0	14.6	13.8	13.1	13.4	11.9	11.1	9.5	8.3
85°	4.7	5.1	5.1	4.7	4.4	4.4	4.4	4.0	3.2	2.8	2.4
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°	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1
2.5°	1049.5	1049.9	1050.3	1050.7	1050.7	1051.1	1051.5	1051.9	1052.3	1052.3	1052.7
5°	1048.8	1049.5	1049.5	1049.9	1049.9	1049.9	1050.3	1050.3	1050.3	1050.3	1050.7
7.5°	1049.2	1049.2	1049.2	1048.8	1048.8	1048.4	1048.4	1048.4	1047.6	1047.6	1047.6
10°	1047.2	1046.8	1046.4	1045.6	1045.2	1044.8	1044.0	1043.2	1042.4	1042.0	1041.2
12.5°	1043.2	1041.6	1040.1	1038.5	1037.7	1037.3	1035.7	1034.5	1033.3	1032.1	1031.4
15°	1035.3	1032.9	1030.2	1027.0	1026.2	1025.4	1022.7	1020.3	1018.7	1017.5	1015.5
17.5°	1019.5	1014.7	1011.6	1006.8	1004.9	1004.1	999.7	997.3	994.6	993.8	992.2
20°	991.4	987.1	981.1	976.8	974.4	972.0	968.5	965.3	962.2	962.2	960.2
22.5°	956.2	950.7	943.2	937.6	937.2	932.5	929.3	925.8	924.6	922.2	922.2
25°	911.9	907.2	898.9	894.1	891.8	890.6	885.4	880.7	878.3	876.3	877.9
27.5°	862.9	855.8	849.4	843.5	841.5	839.2	834.4	832.4	828.1	827.7	827.3
30°	806.7	799.6	793.3	790.5	786.6	784.6	781.0	778.7	777.1	777.1	776.3
32.5°	747.8	741.5	738.3	732.4	730.4	727.6	725.3	722.9	723.7	722.9	723.3
35°	684.1	682.6	676.6	673.1	673.1	672.7	668.7	667.1	666.3	666.7	668.7
37.5°	623.6	618.9	614.9	612.6	614.5	612.2	611.8	611.8	614.1	612.6	615.7
40°	559.2	558.8	557.2	558.0	558.4	555.6	556.4	556.8	558.4	561.6	561.9
42.5°	503.0	502.6	502.6	502.6	501.8	500.3	501.8	504.6	504.2	506.6	508.6
45°	448.8	448.1	449.6	448.5	450.8	451.6	450.4	451.2	453.6	455.2	458.3
47.5°	399.4	399.4	399.8	400.6	398.2	400.2	401.0	402.6	403.8	404.6	406.1
50°	353.5	353.5	352.7	352.7	352.7	353.9	352.4	354.3	354.7	357.9	359.9
52.5°	311.2	309.2	310.4	309.6	308.1	307.3	308.1	308.5	310.8	311.6	314.0
55°	270.9	270.9	267.7	266.9	268.1	267.7	267.3	267.3	268.5	269.7	271.7
57.5°	235.3	232.9	230.6	230.2	229.0	229.4	229.4	229.0	228.2	228.6	229.0
60°	201.7	200.1	196.5	196.5	196.1	195.8	193.8	193.4	191.4	191.8	190.2
62.5°	170.8	170.0	165.3	163.7	163.7	162.5	160.6	160.2	157.4	157.4	155.8
65°	143.2	140.8	138.0	135.2	135.2	133.7	132.5	128.9	126.9	125.8	123.4
67.5°	117.8	114.3	111.5	109.1	107.6	107.2	104.4	102.0	98.9	96.9	93.3
70°	93.3	90.6	87.8	85.4	83.8	82.3	79.5	75.9	73.6	70.0	67.6
72.5°	70.4	68.0	65.6	62.5	60.5	59.3	56.6	53.4	49.4	47.1	43.9
75°	50.6	47.9	44.7	41.9	40.7	39.5	36.4	34.0	31.2	28.5	25.3
77.5°	32.8	29.7	27.3	24.1	23.7	22.9	19.8	17.4	15.4	13.8	11.9
80°	17.4	15.8	13.8	11.9	11.1	9.9	8.3	7.1	5.9	4.7	4.0
82.5°	7.5	6.3	5.1	4.4	4.0	3.6	2.8	2.4	2.0	2.0	1.6
85°	2.0	1.6	1.6	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.4	0.4	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°	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1
2.5°	1053.1	1053.5	1053.9	1053.9	1054.3	1054.7	1054.7	1055.1	1055.5	1055.9	1055.9
5°	1051.1	1051.1	1051.1	1051.5	1051.5	1051.5	1051.5	1052.3	1052.3	1052.7	1053.1
7.5°	1047.2	1047.2	1047.2	1047.2	1046.8	1047.2	1046.8	1046.8	1047.6	1048.0	1048.4
10°	1040.8	1040.5	1040.5	1040.1	1040.1	1040.1	1040.5	1040.8	1041.2	1041.6	1042.8
12.5°	1031.0	1030.6	1030.6	1030.2	1030.2	1030.6	1031.0	1031.8	1033.3	1034.1	1035.7
15°	1015.1	1014.7	1015.1	1015.5	1016.3	1017.5	1018.7	1019.9	1022.3	1024.2	1026.2
17.5°	992.2	992.6	993.0	993.8	995.0	996.6	999.7	1002.9	1005.7	1008.8	1012.0
20°	960.6	962.2	962.5	965.3	966.1	969.7	973.2	978.0	982.3	986.3	990.6
22.5°	922.6	923.8	925.4	928.5	930.5	935.3	939.6	945.1	949.9	955.0	961.4
25°	879.5	879.9	884.6	884.6	889.4	893.3	898.5	904.4	911.5	918.3	922.6
27.5°	830.5	832.4	836.0	837.6	841.1	847.5	851.8	858.9	866.1	872.0	876.7
30°	779.1	780.6	786.6	787.4	790.1	795.7	801.6	808.3	813.9	820.6	824.9
32.5°	724.9	729.2	732.8	735.6	736.3	744.6	747.8	752.6	758.9	765.6	770.0
35°	672.3	674.3	679.4	681.0	683.4	688.1	694.4	698.4	701.5	705.9	711.0
37.5°	616.5	622.5	623.6	628.4	629.2	633.5	636.7	641.4	645.4	649.3	650.1
40°	564.7	566.7	571.0	572.2	573.0	579.0	582.9	584.1	586.1	589.6	594.4
42.5°	512.1	514.1	518.8	517.7	521.2	524.0	526.0	530.7	532.7	533.9	533.9
45°	460.3	461.1	464.3	465.9	467.8	469.4	473.0	475.3	476.1	479.7	480.9
47.5°	410.9	411.7	414.0	416.8	416.0	418.0	422.0	423.1	423.5	425.9	427.1
50°	362.2	364.2	367.4	366.6	369.0	370.1	373.7	374.5	374.5	374.9	375.3
52.5°	316.8	318.3	319.1	319.9	321.1	323.1	324.7	323.9	325.5	327.0	325.9
55°	271.7	272.9	274.8	275.6	275.6	276.0	275.2	278.8	277.2	276.8	277.2
57.5°	230.6	229.0	228.6	230.6	231.3	230.9	229.8	231.3	231.3	230.6	229.4
60°	190.6	189.4	189.0	189.4	187.8	186.7	187.4	186.7	184.7	183.9	184.3
62.5°	154.2	153.0	149.9	149.9	149.1	148.7	145.5	145.9	144.3	142.0	142.8
65°	120.6	117.5	115.9	115.5	112.7	110.3	109.5	106.8	104.4	104.0	104.4
67.5°	90.6	87.0	84.2	83.0	81.5	79.5	76.7	74.3	75.1	74.7	76.3
70°	62.9	60.5	57.7	55.8	56.6	54.2	52.6	52.6	53.0	53.4	54.2
72.5°	41.9	38.8	37.6	36.4	35.6	34.0	34.8	34.8	34.4	34.8	34.0
75°	23.7	22.1	21.0	20.6	19.8	19.8	19.8	19.8	19.4	19.0	19.0
77.5°	10.7	9.9	9.5	9.1	9.1	9.1	8.7	8.3	8.3	8.3	7.9
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	1.6	1.6	2.0	2.0	2.0	1.6	2.0	2.0	1.6	1.6	2.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.0	0.4	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: P857377

CATALOG NUMBER: LX4C25D010 EX4C259035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1	1053.1
2.5°	1056.3	1056.7	1056.7	1056.7	1057.1	1057.1	1057.1	1057.1
5°	1053.5	1053.9	1053.9	1053.9	1054.3	1054.3	1054.3	1054.3
7.5°	1048.8	1049.2	1049.2	1049.5	1049.5	1049.9	1049.9	1050.3
10°	1043.2	1044.0	1044.4	1044.8	1045.2	1045.6	1045.6	1046.0
12.5°	1037.3	1038.1	1038.5	1039.3	1040.1	1040.5	1040.8	1041.2
15°	1028.6	1030.2	1031.0	1031.4	1032.9	1033.7	1034.1	1034.5
17.5°	1014.7	1017.9	1019.1	1019.9	1021.5	1023.1	1024.2	1024.6
20°	995.0	998.5	1000.1	1002.1	1004.5	1006.4	1007.2	1008.0
22.5°	967.3	971.2	973.6	976.0	978.0	979.9	983.1	981.9
25°	927.7	934.5	937.2	938.4	942.8	945.1	946.7	945.1
27.5°	883.5	887.4	889.8	892.6	895.7	898.1	898.9	901.3
30°	830.1	836.8	836.4	839.2	843.1	845.5	846.3	848.3
32.5°	774.7	777.9	780.2	779.8	781.4	785.8	784.2	787.8
35°	715.8	716.2	720.1	719.7	722.9	722.9	722.9	725.3
37.5°	652.9	657.6	655.7	660.4	658.8	660.0	660.0	660.8
40°	595.6	597.1	597.1	598.7	599.9	598.7	599.5	601.5
42.5°	536.2	537.8	538.2	537.4	538.6	542.2	539.4	541.8
45°	480.9	482.1	483.6	482.5	484.4	483.3	484.4	483.6
47.5°	428.7	428.3	427.9	431.1	428.3	428.7	430.3	427.5
50°	375.3	377.7	376.1	377.3	378.1	378.1	376.9	376.9
52.5°	327.8	327.4	326.3	327.4	326.6	327.0	327.8	327.0
55°	278.8	280.4	279.6	279.2	279.6	279.6	282.0	278.8
57.5°	230.6	229.8	230.9	233.7	230.9	232.9	234.1	234.5
60°	184.7	184.7	187.1	185.9	188.2	190.2	191.8	191.0
62.5°	140.8	142.8	143.6	143.9	146.3	147.9	147.9	147.5
65°	104.4	107.2	107.2	108.8	109.5	109.5	110.3	111.9
67.5°	77.1	77.1	77.5	78.3	77.9	77.9	78.7	79.1
70°	53.8	53.0	54.2	53.8	53.8	53.4	53.8	53.8
72.5°	34.0	34.0	34.4	34.0	33.2	33.6	33.6	34.4
75°	18.2	19.0	18.2	18.2	18.6	17.8	18.2	18.6
77.5°	7.5	7.5	7.5	7.5	7.5	7.1	7.1	7.1
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.2	3.2
82.5°	1.6	2.0	1.6	2.0	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.4
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)