

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: P857399

Luminaire Tested: **LX4C25D010 EX4C259040 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C25D010 EX4C259040 4LBLWWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

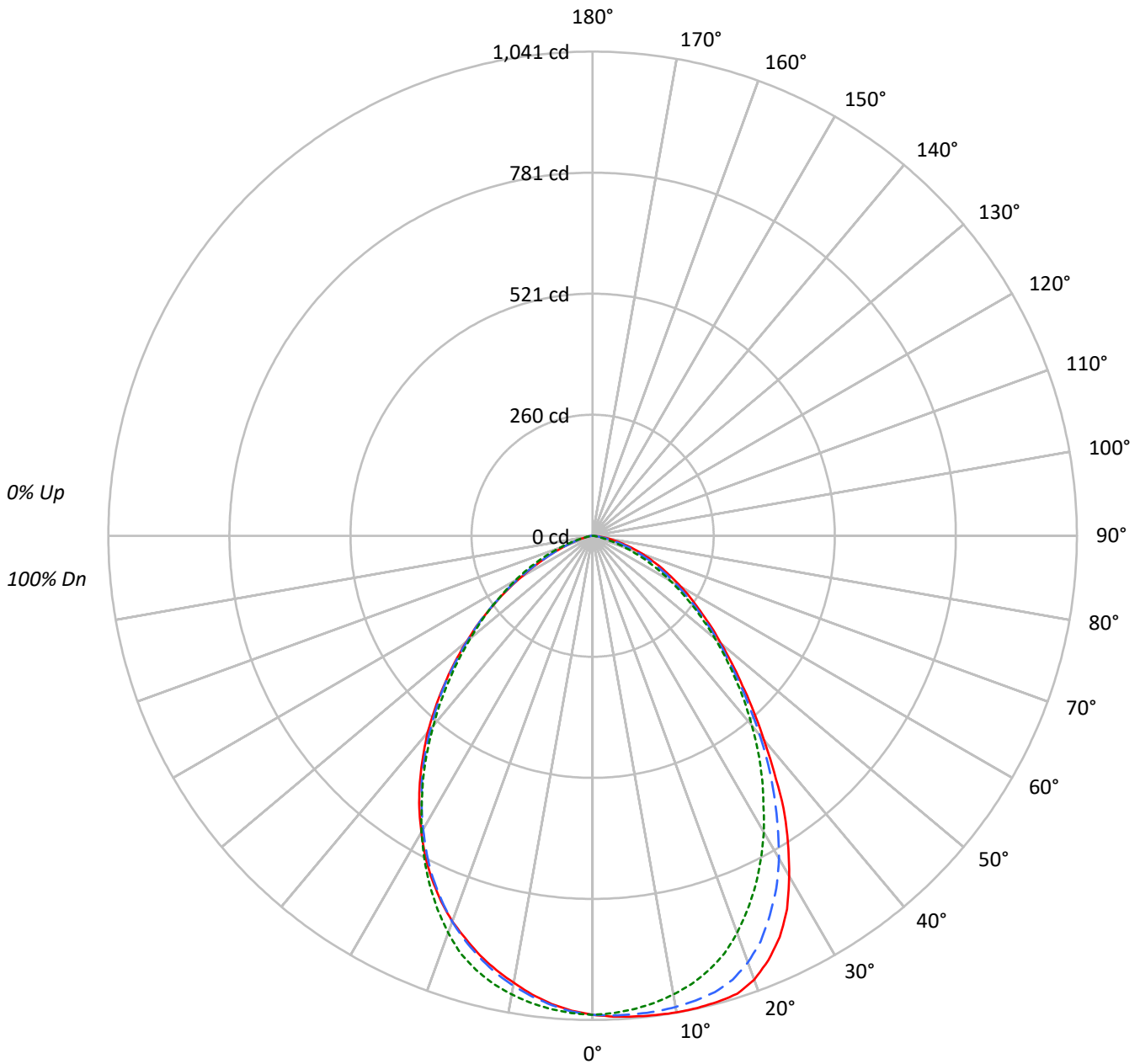
Lumens per Lamp: N/A
Luminaire Lumens: 1941.0 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P857399

CATALOG NUMBER: LX4C25D010 EX4C259040 4LBLWWH

Luminous Intensity Polar Plot





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CATALOG NUMBER: LX4C25D010 EX4C259040 4LBLWWH

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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37	35			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	126527	126527	126527
5°	127947	125987	124618
10°	129813	124923	121767
15°	131957	122939	118857
20°	132791	118749	115337
25°	128979	112333	110612
30°	119857	104408	104465
35°	107293	95175	97200
40°	91862	85319	88430
45°	79087	75230	78044
50°	68748	65499	67468
55°	60487	56332	55839
60°	53834	47004	43318
65°	47209	37645	31308
70°	40554	26617	21193
75°	32895	15427	12389
80°	23559	6721	6155
85°	8880	2819	2819



TEST NUMBER: P857399

CATALOG NUMBER: LX4C25D010 EX4C259040 4LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	5.0
10°-20°	274.8	14.2
20°-30°	392.4	20.2
30°-40°	410.4	21.1
40°-50°	343.9	17.7
50°-60°	240.7	12.4
60°-70°	131.1	6.8
70°-80°	45.5	2.3
80°-90°	5.2	0.3
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°	764.2	39.4
0°-40°	1174.6	60.5
0°-60°	1759.2	90.6
0°-90°	1941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1941.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1030	1030	1030	1030	1030	
5°	1038	1033	1022	1013	1010	99
15°	1038	1016	967	939	934	293
25°	952	901	829	812	816	435
35°	715	680	635	639	648	444
45°	455	445	433	447	449	354
55°	282	273	263	263	261	255
65°	162	148	130	109	108	162
75°	69	56	32	26	26	75
85°	6	4	2	2	2	11
90°	0	0	0	0	0	



TEST NUMBER: P857399

CATALOG NUMBER: LX4C25D010 EX4C259040 4LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9
2.5°	1034.7	1033.5	1033.9	1033.9	1033.9	1033.5	1033.9	1033.5	1033.5	1033.1	1032.3
5°	1037.5	1036.7	1036.7	1036.7	1036.3	1035.9	1035.9	1035.5	1034.7	1034.3	1032.7
7.5°	1039.4	1038.7	1038.7	1038.3	1037.9	1037.5	1037.1	1035.9	1034.7	1033.9	1031.9
10°	1040.6	1039.4	1039.4	1038.7	1037.9	1037.5	1036.7	1035.1	1033.5	1031.5	1028.8
12.5°	1039.8	1038.7	1038.3	1037.5	1035.9	1035.1	1034.3	1032.3	1029.5	1026.8	1023.2
15°	1037.5	1036.7	1035.9	1034.7	1032.7	1031.5	1030.7	1027.6	1024.0	1020.0	1015.7
17.5°	1032.7	1031.5	1029.9	1028.4	1025.6	1024.4	1022.4	1018.5	1013.3	1007.8	1001.0
20°	1015.7	1014.9	1013.3	1010.5	1006.2	1004.6	1001.8	996.7	989.9	983.2	976.1
22.5°	987.6	986.4	984.0	981.6	977.7	974.9	972.5	965.4	957.8	950.7	944.0
25°	951.5	950.3	947.2	944.0	940.0	935.3	932.9	927.3	919.8	910.7	900.8
27.5°	905.2	901.2	900.0	896.4	890.5	888.9	885.4	878.2	871.1	863.2	854.9
30°	844.9	844.9	842.6	841.0	835.4	833.9	829.9	822.4	818.4	807.3	801.0
32.5°	781.2	780.4	778.4	777.2	774.0	771.3	767.3	763.3	754.6	749.1	740.4
35°	715.4	710.7	711.5	709.1	707.1	703.9	703.5	699.2	691.2	688.1	680.2
37.5°	640.5	638.6	641.3	637.8	635.8	636.2	633.0	630.2	627.1	621.5	619.9
40°	572.8	574.4	574.0	570.8	572.4	570.4	567.3	564.5	562.9	559.3	558.1
42.5°	512.2	509.8	509.0	509.0	509.4	509.4	507.8	505.9	505.9	502.3	498.7
45°	455.2	455.2	454.4	456.7	453.2	453.2	452.0	451.6	450.0	449.2	444.9
47.5°	406.0	405.6	405.2	404.8	404.5	404.5	402.1	400.1	399.7	397.3	394.9
50°	359.7	362.1	361.3	359.3	358.5	358.9	357.3	356.1	355.7	351.8	352.2
52.5°	320.9	320.5	321.3	320.1	318.1	318.5	316.9	315.3	313.7	311.8	310.2
55°	282.4	284.4	283.6	282.4	282.0	281.3	280.1	278.1	277.7	273.3	272.9
57.5°	250.4	250.0	249.2	247.2	246.8	245.6	245.6	244.0	241.6	239.3	237.3
60°	219.1	219.1	217.9	217.5	215.9	215.5	215.1	213.5	210.7	208.8	205.6
62.5°	189.0	189.7	189.0	187.8	186.6	185.0	184.2	183.0	180.6	178.7	175.9
65°	162.4	162.0	161.6	160.0	159.6	158.1	157.7	155.3	152.9	151.3	148.2
67.5°	137.1	135.9	135.9	135.1	134.3	133.1	132.3	129.9	127.2	125.6	122.4
70°	112.9	112.1	112.1	112.1	110.1	108.9	108.5	107.4	103.4	101.8	98.6
72.5°	90.7	90.3	89.9	88.7	87.5	87.5	86.0	83.6	81.6	79.6	77.2
75°	69.3	70.1	69.3	67.7	67.3	66.6	65.4	63.4	61.4	59.0	56.3
77.5°	50.7	49.9	49.1	49.1	48.3	46.7	46.3	44.8	42.4	40.8	38.0
80°	33.3	32.9	32.1	31.3	30.9	30.5	30.1	28.5	26.1	25.0	22.6
82.5°	18.2	17.8	17.8	17.4	16.2	16.2	15.8	14.3	13.1	12.3	11.1
85°	6.3	6.3	6.3	5.9	5.9	5.9	5.5	5.1	4.8	4.4	3.6
87.5°	0.8	0.4	0.8	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4
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: P857399

CATALOG NUMBER: LX4C25D010 EX4C259040 4LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9
2.5°	1031.5	1030.7	1030.3	1029.9	1029.5	1029.1	1028.8	1028.0	1027.6	1027.2	1026.4
5°	1031.5	1029.9	1029.1	1028.0	1027.2	1026.4	1025.2	1024.0	1022.8	1021.6	1020.4
7.5°	1029.9	1027.6	1026.0	1023.6	1022.8	1021.6	1019.2	1017.7	1015.7	1013.3	1010.5
10°	1026.0	1023.2	1020.0	1016.9	1015.7	1013.7	1010.5	1007.8	1004.6	1001.4	998.6
12.5°	1019.6	1015.3	1011.3	1007.0	1004.6	1002.6	998.3	994.3	990.3	986.8	982.0
15°	1010.1	1005.0	999.8	993.9	991.1	988.7	982.4	977.7	971.3	966.6	961.8
17.5°	994.7	986.8	980.4	972.9	968.9	966.2	960.6	953.1	947.2	942.0	936.5
20°	968.1	960.6	951.9	943.6	939.2	935.7	927.7	919.8	913.9	908.3	902.4
22.5°	933.3	923.8	917.4	907.1	903.6	899.2	889.7	882.6	875.8	870.3	864.8
25°	890.9	882.6	873.9	864.4	860.0	854.9	846.9	839.4	835.0	828.7	822.0
27.5°	842.2	835.4	824.7	816.4	812.1	808.1	800.6	793.8	787.5	783.2	776.8
30°	790.7	782.8	773.2	764.5	762.2	757.4	750.7	745.5	738.8	736.0	733.2
32.5°	734.0	724.9	717.8	712.2	707.5	703.5	700.0	691.6	690.5	683.3	682.5
35°	672.2	668.3	661.5	656.8	652.8	650.1	644.1	640.1	635.8	634.6	631.8
37.5°	614.0	609.3	602.9	598.6	595.8	595.4	591.0	588.7	585.5	583.9	580.7
40°	553.0	551.0	545.5	544.7	540.3	539.9	537.6	534.8	532.0	532.0	532.4
42.5°	496.7	494.4	492.0	489.2	486.8	486.8	485.7	484.9	484.1	482.9	484.9
45°	444.1	440.9	439.3	436.5	437.7	435.3	434.6	434.6	433.4	433.0	435.7
47.5°	394.9	391.4	389.8	389.0	389.0	389.4	385.8	387.0	386.6	387.4	388.6
50°	350.2	347.0	344.6	344.6	345.0	343.4	341.9	343.0	341.9	342.7	345.4
52.5°	308.6	305.4	304.2	304.2	301.9	301.5	302.2	300.7	301.1	301.5	303.0
55°	270.2	268.2	266.2	264.2	264.6	263.8	262.2	261.8	262.6	263.0	265.0
57.5°	235.7	232.9	230.2	229.4	228.6	228.6	226.6	226.2	227.0	225.0	225.0
60°	202.8	201.2	197.7	196.5	196.5	194.5	192.9	193.7	191.7	191.3	191.7
62.5°	172.3	171.1	168.8	166.4	165.6	164.8	162.8	162.0	161.2	159.6	157.3
65°	145.8	143.0	140.2	138.6	137.5	135.5	134.3	132.7	130.3	129.5	127.2
67.5°	119.2	116.5	113.7	112.5	111.3	110.1	108.1	106.2	103.4	100.2	97.4
70°	95.9	92.3	90.7	87.5	86.8	85.2	82.4	80.4	77.6	74.1	71.3
72.5°	73.3	70.9	68.5	65.8	63.8	62.6	60.2	57.0	53.9	51.9	49.1
75°	52.7	51.5	48.3	45.2	44.4	42.8	40.0	38.0	35.7	32.5	30.1
77.5°	35.7	33.3	31.3	28.5	27.7	26.1	24.6	22.6	21.0	19.0	17.4
80°	21.0	19.0	17.8	15.8	15.1	14.3	13.1	11.5	10.3	9.5	9.1
82.5°	10.3	8.7	8.3	7.1	6.7	6.3	5.5	5.1	4.4	4.4	4.4
85°	3.6	2.8	2.8	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.4
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: P857399

CATALOG NUMBER: LX4C25D010 EX4C259040 4LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9
2.5°	1026.0	1025.6	1025.2	1024.8	1024.8	1024.4	1024.4	1024.0	1024.0	1023.6	1023.6
5°	1018.9	1017.7	1016.9	1016.1	1016.1	1014.9	1014.1	1013.3	1012.9	1012.9	1012.1
7.5°	1008.9	1007.4	1005.8	1004.6	1004.2	1002.2	1000.6	1000.6	999.0	998.3	997.5
10°	995.9	993.1	990.7	989.5	988.0	986.8	984.8	983.6	982.4	980.4	980.0
12.5°	978.0	976.1	972.5	970.9	970.1	967.7	964.6	963.0	962.6	961.0	959.8
15°	957.8	953.5	950.3	948.3	948.3	944.4	942.8	940.4	938.8	937.6	937.2
17.5°	931.7	927.3	924.2	921.4	920.6	917.4	915.1	914.3	912.3	913.1	911.1
20°	898.0	894.5	892.1	888.5	888.5	886.5	885.8	883.8	883.0	882.2	883.0
22.5°	862.0	857.6	853.7	853.3	853.3	850.5	850.1	849.7	848.1	849.3	848.9
25°	819.6	816.4	814.1	813.7	813.7	812.1	810.5	811.3	812.5	812.1	813.3
27.5°	775.6	772.5	771.7	771.3	770.5	770.1	770.9	770.9	772.1	773.6	775.2
30°	728.1	727.3	726.1	725.7	724.9	726.9	727.7	728.9	728.5	730.9	732.4
32.5°	680.6	679.0	678.6	679.4	680.6	680.2	682.5	683.3	684.1	686.9	688.1
35°	632.6	632.2	631.4	631.4	631.8	635.0	635.0	637.8	639.4	640.1	643.3
37.5°	581.1	582.7	583.5	584.7	585.1	586.3	587.1	589.8	591.4	593.0	594.6
40°	534.0	533.2	536.8	534.4	535.2	538.7	540.3	539.9	542.3	544.7	546.3
42.5°	483.7	484.9	485.7	486.4	488.4	488.8	490.8	493.6	494.4	497.1	497.9
45°	435.0	435.3	436.9	438.5	439.7	442.9	443.7	444.9	447.2	447.2	448.4
47.5°	389.0	390.6	390.6	393.0	394.9	394.5	397.3	398.1	397.7	399.7	400.5
50°	345.0	347.4	347.0	348.6	349.4	349.8	352.2	353.0	351.4	353.3	353.7
52.5°	303.0	304.2	305.8	306.2	305.4	307.4	306.6	308.2	307.8	309.4	307.8
55°	264.6	264.2	264.2	265.0	264.2	265.0	265.8	264.2	263.0	264.6	264.2
57.5°	226.2	226.2	225.4	226.6	225.4	224.2	223.8	222.6	221.4	221.4	221.0
60°	190.1	189.4	187.8	187.4	187.4	185.4	184.6	183.0	183.0	181.4	179.8
62.5°	156.5	154.5	153.3	153.3	152.5	150.5	147.0	144.6	143.8	141.4	141.0
65°	124.8	122.8	121.6	119.2	117.3	116.5	112.9	110.1	108.9	106.6	107.0
67.5°	95.9	92.7	89.1	87.5	86.4	83.6	82.4	80.4	79.2	79.2	79.2
70°	68.9	66.2	62.6	61.4	60.6	58.2	57.0	56.6	57.8	57.4	57.8
72.5°	46.3	43.6	42.0	41.2	40.4	39.2	40.0	40.4	39.6	40.0	40.4
75°	28.1	27.3	26.1	25.7	25.7	26.1	25.7	25.7	26.1	26.1	26.5
77.5°	16.2	15.4	15.4	15.1	15.8	15.4	15.4	15.4	15.8	15.8	15.8
80°	8.7	8.7	8.7	8.7	9.1	8.7	9.1	9.1	9.1	9.1	9.1
82.5°	4.4	4.4	4.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.4
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
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: P857399

CATALOG NUMBER: LX4C25D010 EX4C259040 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9	1029.9
2.5°	1022.8	1022.8	1022.8	1022.0	1022.4	1022.4	1022.0	1022.0
5°	1011.7	1011.3	1010.5	1010.5	1009.7	1010.5	1010.1	1010.5
7.5°	996.7	996.7	995.5	995.5	995.1	994.7	994.3	994.7
10°	978.8	978.8	978.0	977.7	978.0	976.5	976.5	976.1
12.5°	959.0	958.2	957.4	957.8	957.4	956.3	955.9	956.3
15°	936.1	934.9	935.3	934.1	934.1	933.7	934.5	934.5
17.5°	910.7	909.9	909.1	909.5	908.7	909.1	908.7	908.3
20°	882.6	882.2	882.2	880.6	881.0	880.6	881.0	882.2
22.5°	850.1	849.7	850.1	848.9	849.7	849.7	850.9	850.9
25°	814.4	814.1	814.8	815.2	815.6	816.8	815.6	816.0
27.5°	774.8	776.0	777.2	777.6	779.2	778.0	777.2	778.4
30°	734.8	734.8	734.4	736.0	737.2	738.4	736.4	736.4
32.5°	688.9	690.9	690.9	691.2	692.4	692.4	692.4	694.0
35°	644.9	646.1	646.5	644.9	645.7	645.3	648.1	648.1
37.5°	595.8	595.8	596.2	599.0	599.0	597.8	598.6	598.6
40°	549.0	549.4	547.8	548.6	550.6	549.8	550.6	551.4
42.5°	497.9	500.7	499.1	499.9	499.5	499.9	500.3	500.3
45°	449.2	450.0	450.0	450.4	451.2	452.0	449.6	449.2
47.5°	401.7	402.1	403.3	401.3	403.7	401.3	403.7	400.9
50°	353.7	355.3	354.1	354.9	353.7	353.7	353.3	353.0
52.5°	308.2	307.8	307.8	307.4	307.4	308.2	307.4	308.6
55°	262.6	263.0	262.2	261.8	261.4	262.6	261.4	260.7
57.5°	219.5	220.2	218.7	219.5	216.7	217.9	218.3	218.7
60°	179.4	178.3	178.3	176.7	176.7	177.9	176.3	176.3
62.5°	139.0	139.8	138.6	140.2	140.2	141.8	141.0	141.8
65°	106.6	107.0	107.4	107.4	107.4	109.7	108.9	107.7
67.5°	80.4	80.8	81.2	80.8	82.0	81.2	81.2	81.6
70°	58.2	58.6	59.0	59.0	58.6	59.0	59.0	59.0
72.5°	40.4	40.8	40.4	40.8	41.2	40.8	40.8	41.2
75°	26.5	26.5	26.1	26.1	26.1	26.1	26.5	26.1
77.5°	15.4	15.8	15.4	15.8	15.8	15.8	15.8	15.8
80°	9.1	9.1	9.1	8.7	9.1	9.1	9.1	8.7
82.5°	4.8	4.8	4.4	4.4	4.8	4.8	4.8	4.8
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)