

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: P#

Luminaire Tested: **LD4C100D010 EX4C1009040 4LBSQLWWLI**

Issue Date: 2/18/2022

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: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C100D010 EX4C1009040 4LBSQLWWLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

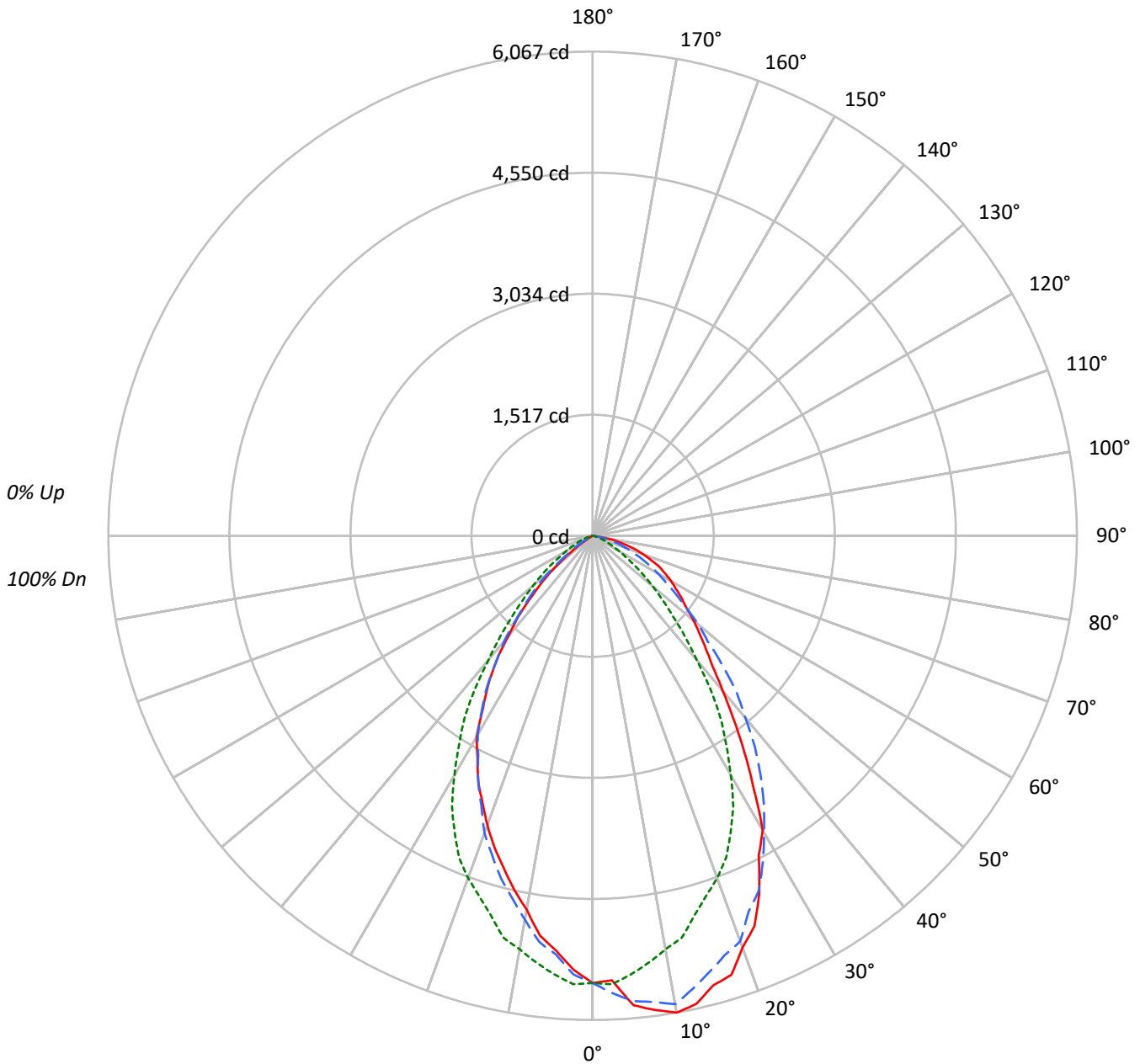
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8032.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53			53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	540656	540656	540656
5°	572021	534285	505654
10°	594439	515439	466059
15°	582554	491941	430208
20°	563649	468432	395991
25°	525760	435607	361231
30°	474609	385510	323395
35°	390949	330027	268293
40°	319050	254736	206494
45°	274126	193454	148519
50°	248102	147258	93804
55°	228313	106233	33914
60°	219146	72598	5172
65°	211668	49110	1553
70°	189525	34079	1918
75°	155348	17559	0
80°	97129	7446	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.0	6.5
10°-20°	1414.4	17.6
20°-30°	1888.7	23.5
30°-40°	1792.9	22.3
40°-50°	1239.3	15.4
50°-60°	684.8	8.5
60°-70°	340.0	4.2
70°-80°	134.0	1.7
80°-90°	12.7	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°	3828.1	47.7
0°-40°	5621.1	70.0
0°-60°	7545.2	93.9
0°-90°	8032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8032.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5603	5603	5603	5603	5603	
5°	5906	5852	5516	5267	5221	565
15°	5832	5657	4925	4441	4307	1650
25°	4938	4918	4092	3393	3393	2251
35°	3319	3668	2802	2304	2278	2079
45°	2009	2304	1418	1162	1088	1567
55°	1357	1277	632	322	202	1222
65°	927	672	215	7	7	900
75°	417	255	47	0	0	444
85°	0	7	0	0	0	38
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°	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3
2.5°	5576.5	5731.0	5744.4	5731.0	5751.2	5744.4	5778.1	5744.4	5784.9	5724.4	5737.8
5°	5905.8	5845.2	5972.9	5905.8	5905.8	5899.2	5878.9	5872.1	5899.2	5811.8	5852.1
7.5°	5993.1	6080.5	6194.8	6053.7	6060.3	6060.3	6020.0	6006.6	6006.6	5845.2	5892.3
10°	6067.1	6013.2	6073.7	6020.0	6067.1	6060.3	6087.1	5999.7	6060.3	5966.3	5959.5
12.5°	6006.6	5986.3	6067.1	5979.7	5952.9	5959.5	5926.0	5905.8	5926.0	5818.4	5811.8
15°	5831.8	5852.1	5972.9	5878.9	5865.5	5852.1	5811.8	5744.4	5798.4	5650.4	5657.3
17.5°	5771.5	5737.8	5758.1	5677.3	5697.5	5684.1	5677.3	5617.0	5603.3	5509.3	5509.3
20°	5489.3	5563.0	5563.0	5509.3	5509.3	5502.8	5415.4	5469.1	5408.5	5381.7	5408.5
22.5°	5294.3	5301.1	5301.1	5254.0	5260.8	5234.0	5186.9	5153.2	5186.9	5153.2	5099.5
25°	4938.4	4951.8	5032.4	4945.0	4931.6	4958.4	4918.1	4897.9	4891.3	4810.7	4918.1
27.5°	4508.3	4642.5	4635.9	4602.3	4642.5	4588.8	4568.8	4575.4	4595.7	4588.8	4615.7
30°	4259.8	4279.8	4300.1	4273.2	4279.8	4259.8	4259.8	4266.4	4320.1	4300.1	4293.2
32.5°	3755.7	3822.8	3876.8	3876.8	3883.4	3903.7	3896.8	4037.9	4071.6	4004.5	3991.0
35°	3319.0	3366.1	3413.0	3419.8	3507.2	3513.8	3520.7	3560.9	3654.9	3675.2	3668.3
37.5°	2902.6	2949.5	2962.9	3023.4	3070.5	3117.4	3171.4	3225.1	3305.6	3372.7	3339.3
40°	2533.0	2553.0	2586.7	2613.6	2707.5	2707.5	2734.4	2842.1	2929.5	2983.1	2976.3
42.5°	2224.0	2230.6	2257.4	2304.5	2391.9	2371.7	2391.9	2465.9	2593.3	2600.2	2674.1
45°	2008.9	2002.1	2022.4	2029.0	2082.9	2109.8	2123.2	2176.9	2284.3	2297.7	2304.5
47.5°	1814.2	1807.3	1841.0	1854.4	1874.4	1901.3	1901.3	1908.1	1948.4	1982.1	1955.2
50°	1652.8	1652.8	1652.8	1666.2	1699.9	1693.1	1699.9	1726.8	1746.8	1733.3	1726.8
52.5°	1478.0	1504.9	1525.1	1532.0	1538.6	1538.6	1545.4	1532.0	1525.1	1504.9	1464.6
55°	1357.2	1384.0	1384.0	1384.0	1384.0	1410.9	1377.5	1384.0	1384.0	1330.3	1276.6
57.5°	1236.4	1263.2	1283.2	1256.4	1283.2	1256.4	1243.0	1236.4	1222.7	1169.0	1088.4
60°	1135.6	1149.0	1142.1	1135.6	1149.0	1128.7	1115.3	1088.4	1075.0	1001.1	947.4
62.5°	1021.3	1027.9	1034.7	1021.3	1007.9	1001.1	974.2	933.9	907.1	846.5	799.4
65°	927.1	907.1	900.2	893.7	880.2	860.0	840.0	792.8	772.6	718.9	671.8
67.5°	786.0	779.4	792.8	772.6	739.1	739.1	718.9	678.6	631.5	598.1	550.9
70°	671.8	665.2	651.7	631.5	624.9	598.1	598.1	550.9	537.5	477.0	436.7
72.5°	550.9	550.9	530.7	510.7	490.4	477.0	470.4	436.7	416.7	383.0	349.3
75°	416.7	416.7	409.8	389.6	376.2	362.7	356.1	329.3	309.0	275.6	255.3
77.5°	295.6	295.6	268.8	255.3	261.9	248.5	235.1	228.5	221.6	201.6	174.8
80°	174.8	167.9	147.9	154.5	147.9	147.9	141.1	134.2	120.8	107.4	94.0
82.5°	47.1	53.7	53.7	53.7	60.5	47.1	47.1	47.1	53.7	53.7	33.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.8	6.8
87.5°	6.8	13.4	26.8	26.8	26.8	26.8	26.8	20.3	20.3	20.3	13.4
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°	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3
2.5°	5670.7	5663.8	5670.7	5623.6	5731.0	5650.4	5637.0	5623.6	5670.7	5623.6	5556.5
5°	5791.5	5724.4	5704.1	5684.1	5744.4	5650.4	5630.4	5637.0	5603.3	5516.2	5522.8
7.5°	5831.8	5771.5	5711.0	5583.3	5637.0	5617.0	5563.0	5522.8	5469.1	5395.1	5381.7
10°	5845.2	5778.1	5690.7	5650.4	5569.9	5543.0	5522.8	5455.6	5388.5	5260.8	5227.2
12.5°	5804.9	5724.4	5617.0	5583.3	5522.8	5435.4	5388.5	5321.1	5260.8	5160.0	5086.1
15°	5630.4	5563.0	5529.6	5415.4	5388.5	5334.6	5240.6	5146.6	5059.2	4924.7	4884.4
17.5°	5428.8	5401.9	5368.2	5280.9	5274.3	5220.6	5133.2	5052.4	4938.4	4729.9	4662.8
20°	5220.6	5220.6	5112.9	5079.5	5146.6	5038.9	4971.8	4897.9	4662.8	4562.0	4441.2
22.5°	5066.1	4992.1	4931.6	4877.9	4884.4	4817.3	4723.3	4575.4	4488.0	4367.2	4226.1
25°	4763.6	4790.5	4656.2	4635.9	4656.2	4501.4	4454.6	4333.5	4205.8	4091.6	3984.2
27.5°	4575.4	4501.4	4414.3	4340.3	4340.3	4279.8	4145.6	4118.7	3923.7	3816.3	3681.8
30°	4293.2	4239.5	4165.6	4058.2	4044.7	3997.6	3890.2	3822.8	3621.5	3460.1	3386.1
32.5°	3937.1	3917.1	3856.5	3735.7	3695.4	3641.5	3507.2	3393.0	3299.0	3117.4	3030.3
35°	3681.8	3608.0	3480.4	3379.6	3345.9	3251.9	3144.2	3063.7	2962.9	2801.8	2687.5
37.5°	3299.0	3225.1	3104.0	2983.1	2983.1	2889.2	2741.2	2660.7	2519.6	2425.4	2331.4
40°	2962.9	2868.9	2748.1	2607.0	2586.7	2452.2	2391.9	2257.4	2170.0	2022.4	2008.9
42.5°	2586.7	2499.3	2391.9	2284.3	2203.7	2136.6	1982.1	1881.3	1787.3	1713.3	1693.1
45°	2244.0	2129.8	2035.8	1901.3	1820.7	1740.2	1639.4	1572.3	1498.3	1417.7	1370.6
47.5°	1948.4	1854.4	1719.9	1599.1	1518.6	1478.0	1363.8	1290.1	1229.5	1175.8	1142.1
50°	1646.2	1532.0	1458.0	1323.5	1310.1	1216.1	1122.1	1061.6	1027.9	981.0	933.9
52.5°	1417.7	1310.1	1209.3	1108.7	1054.7	1021.3	933.9	873.4	826.5	792.8	766.0
55°	1195.8	1101.9	1021.3	920.5	886.8	840.0	739.1	725.7	678.6	631.5	598.1
57.5°	1027.9	940.5	846.5	779.4	718.9	685.4	604.6	550.9	524.1	483.8	450.1
60°	873.4	779.4	705.4	624.9	598.1	550.9	490.4	443.5	409.8	376.2	342.7
62.5°	732.3	651.7	571.2	503.8	463.5	436.7	389.6	349.3	315.9	289.0	261.9
65°	604.6	530.7	463.5	396.4	376.2	342.7	309.0	275.6	248.5	215.1	188.2
67.5°	497.2	430.1	362.7	315.9	295.6	282.2	241.9	208.2	188.2	167.9	141.1
70°	389.6	342.7	289.0	248.5	228.5	208.2	181.4	161.4	134.2	120.8	100.8
72.5°	302.4	261.9	215.1	181.4	167.9	154.5	127.7	107.4	94.0	80.5	67.1
75°	215.1	181.4	154.5	120.8	114.2	107.4	87.4	74.0	60.5	47.1	40.3
77.5°	147.9	120.8	94.0	80.5	74.0	60.5	53.7	40.3	33.7	26.8	20.3
80°	80.5	60.5	47.1	40.3	33.7	26.8	26.8	20.3	13.4	13.4	6.8
82.5°	26.8	20.3	13.4	6.8	6.8	6.8	6.8	6.8	6.8	0.0	6.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3
2.5°	5596.7	5522.8	5543.0	5543.0	5529.6	5529.6	5516.2	5495.9	5502.8	5462.2	5375.1
5°	5536.2	5442.2	5428.8	5442.2	5388.5	5375.1	5348.2	5388.5	5267.4	5314.5	5260.8
7.5°	5361.7	5274.3	5254.0	5301.1	5234.0	5193.5	5186.9	5240.6	5133.2	5079.5	5018.9
10°	5166.6	5133.2	5072.6	5038.9	5018.9	5025.5	4971.8	4904.7	4884.4	4871.0	4817.3
12.5°	4992.1	4918.1	4864.4	4824.2	4810.7	4810.7	4723.3	4709.9	4649.4	4635.9	4555.4
15°	4783.6	4696.5	4662.8	4609.1	4562.0	4588.8	4488.0	4461.2	4441.2	4353.8	4367.2
17.5°	4602.3	4508.3	4427.7	4394.0	4353.8	4313.5	4219.3	4239.5	4192.4	4192.4	4071.6
20°	4367.2	4266.4	4205.8	4138.7	4138.7	4085.0	4017.9	4024.5	3963.9	3903.7	3796.0
22.5°	4118.7	4011.0	3937.1	3910.2	3843.1	3829.7	3749.1	3728.9	3648.3	3654.9	3560.9
25°	3856.5	3749.1	3648.3	3654.9	3594.6	3567.8	3520.7	3426.7	3393.0	3352.7	3325.9
27.5°	3547.5	3473.5	3386.1	3379.6	3265.3	3271.9	3211.6	3184.8	3104.0	3124.2	3063.7
30°	3265.3	3157.9	3077.1	3057.1	3010.0	2996.6	2902.6	2862.1	2875.8	2821.8	2788.4
32.5°	2976.3	2815.2	2781.5	2741.2	2714.4	2680.7	2613.6	2640.4	2579.9	2593.3	2539.6
35°	2593.3	2526.2	2438.8	2438.8	2411.9	2385.1	2338.2	2365.1	2304.5	2277.7	2224.0
37.5°	2270.9	2210.6	2123.2	2150.0	2102.9	2062.6	2022.4	2029.0	1975.3	1968.7	1914.7
40°	1921.6	1887.9	1827.6	1827.6	1793.9	1793.9	1773.6	1753.6	1719.9	1679.6	1619.1
42.5°	1592.3	1565.4	1538.6	1545.4	1498.3	1538.6	1484.9	1518.6	1410.9	1404.3	1363.8
45°	1350.4	1290.1	1296.7	1269.8	1243.0	1256.4	1209.3	1222.7	1162.4	1149.0	1108.7
47.5°	1095.3	1075.0	1034.7	1021.3	1021.3	1001.1	981.0	974.2	947.4	913.7	860.0
50°	900.2	826.5	812.8	792.8	779.4	779.4	752.6	712.3	718.9	685.4	631.5
52.5°	705.4	644.9	618.1	611.5	584.6	571.2	537.5	510.7	490.4	477.0	443.5
55°	544.1	490.4	457.0	457.0	416.7	416.7	369.6	349.3	322.5	295.6	275.6
57.5°	409.8	383.0	349.3	322.5	309.0	275.6	248.5	215.1	194.8	154.5	127.7
60°	309.0	282.2	248.5	228.5	215.1	181.4	147.9	120.8	74.0	60.5	53.7
62.5°	228.5	201.6	167.9	154.5	141.1	114.2	80.5	40.3	20.3	20.3	20.3
65°	167.9	134.2	107.4	94.0	80.5	60.5	26.8	13.4	6.8	6.8	6.8
67.5°	114.2	87.4	60.5	53.7	40.3	20.3	6.8	6.8	6.8	6.8	6.8
70°	74.0	53.7	26.8	20.3	13.4	6.8	6.8	6.8	6.8	6.8	6.8
72.5°	47.1	26.8	13.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.8	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.8	6.8
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: P#

CATALOG NUMBER: LD4C100D010 EX4C1009040 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3	5603.3
2.5°	5469.1	5421.9	5448.8	5388.5	5415.4	5462.2	5428.8	5442.2
5°	5280.9	5254.0	5220.6	5133.2	5200.3	5254.0	5227.2	5220.6
7.5°	5079.5	4985.3	5032.4	5005.5	4992.1	5045.8	4985.3	5052.4
10°	4871.0	4803.9	4797.3	4750.2	4750.2	4790.5	4797.3	4756.8
12.5°	4562.0	4528.6	4528.6	4521.7	4514.9	4555.4	4562.0	4542.0
15°	4340.3	4326.9	4293.2	4286.6	4246.4	4306.7	4313.5	4306.7
17.5°	4071.6	4078.2	4044.7	4044.7	4071.6	4091.6	4037.9	4091.6
20°	3890.2	3856.5	3843.1	3782.6	3816.3	3850.0	3850.0	3856.5
22.5°	3628.1	3574.4	3594.6	3560.9	3540.7	3587.8	3587.8	3608.0
25°	3332.5	3332.5	3345.9	3325.9	3339.3	3366.1	3345.9	3393.0
27.5°	3050.3	3077.1	3077.1	3050.3	3063.7	3144.2	3177.9	3124.2
30°	2788.4	2794.9	2815.2	2801.8	2842.1	2868.9	2862.1	2902.6
32.5°	2492.8	2526.2	2539.6	2519.6	2533.0	2593.3	2559.9	2553.0
35°	2264.3	2203.7	2197.2	2203.7	2230.6	2244.0	2230.6	2277.7
37.5°	1935.0	1914.7	1887.9	1894.7	1914.7	1941.8	1955.2	1988.7
40°	1619.1	1592.3	1592.3	1585.7	1565.4	1639.4	1639.4	1639.4
42.5°	1343.8	1336.9	1303.5	1303.5	1330.3	1350.4	1336.9	1384.0
45°	1101.9	1075.0	1054.7	1054.7	1075.0	1075.0	1095.3	1088.4
47.5°	866.8	840.0	846.5	826.5	846.5	873.4	840.0	846.5
50°	651.7	651.7	638.3	651.7	644.9	651.7	638.3	624.9
52.5°	443.5	503.8	510.7	483.8	423.3	369.6	335.9	362.7
55°	255.3	228.5	228.5	221.6	208.2	201.6	181.4	201.6
57.5°	127.7	114.2	114.2	114.2	107.4	100.8	87.4	87.4
60°	53.7	47.1	47.1	40.3	33.7	26.8	20.3	26.8
62.5°	20.3	13.4	13.4	13.4	13.4	13.4	13.4	13.4
65°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
67.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
70°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





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













(END OF REPORT)