

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 EX4C1009050 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 EX4C1009050 4LBSQLWWLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

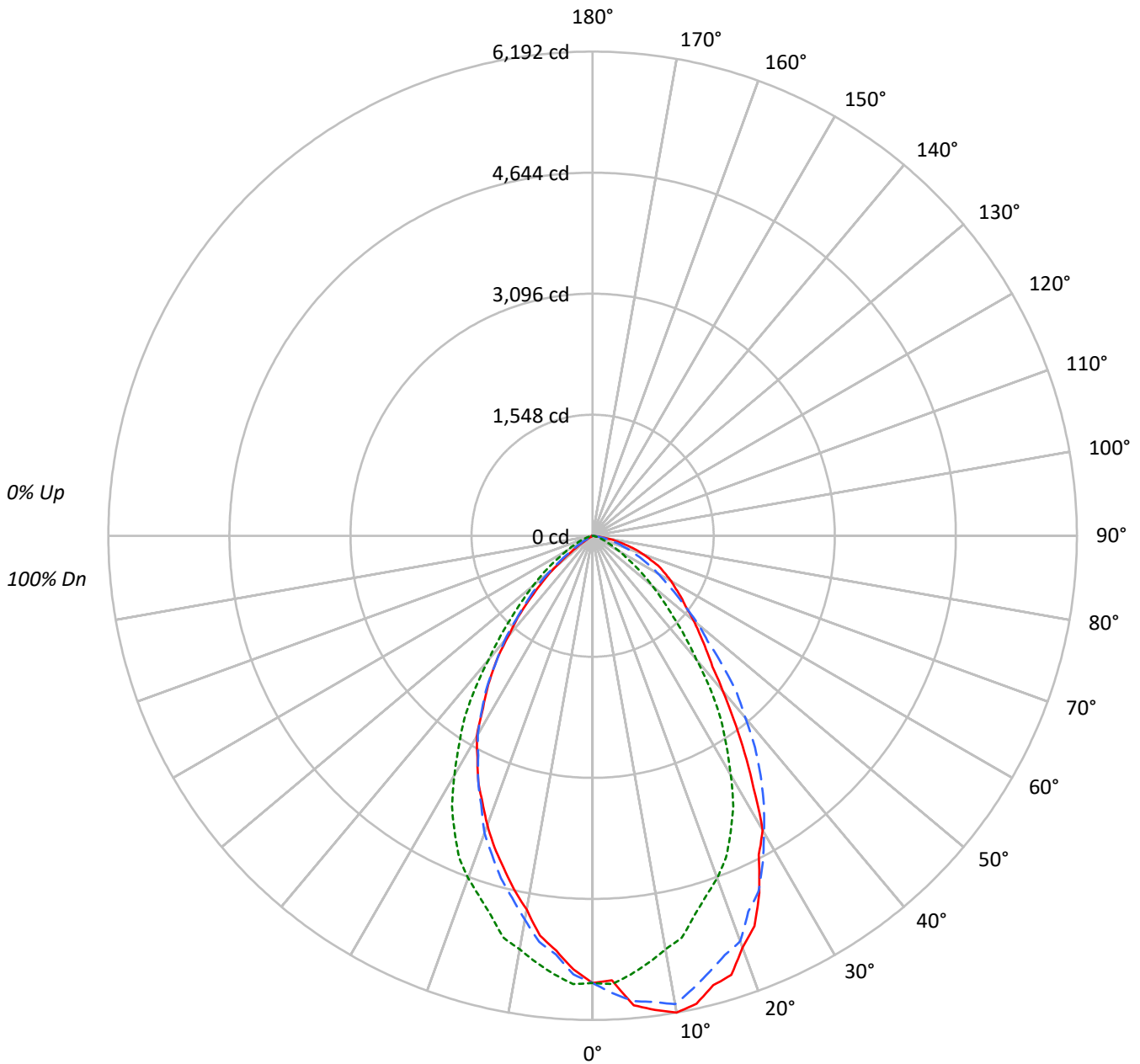
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8197.0 lumens
Efficiency: N/A
Efficacy: 71.7 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 (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

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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°	551762	551762	551762
5°	583770	545259	516037
10°	606647	526031	475631
15°	594521	502050	439038
20°	575231	478053	404133
25°	536556	444550	368652
30°	484358	393431	330036
35°	398982	336800	273806
40°	325612	259963	210739
45°	279762	197438	151575
50°	253206	150290	95725
55°	233006	108420	34620
60°	223642	74084	5288
65°	216006	50115	1598
70°	193418	34785	1975
75°	158516	17932	0
80°	99129	7613	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.8	6.5
10°-20°	1443.5	17.6
20°-30°	1927.5	23.5
30°-40°	1829.8	22.3
40°-50°	1264.8	15.4
50°-60°	698.9	8.5
60°-70°	347.0	4.2
70°-80°	136.7	1.7
80°-90°	13.0	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°	3906.8	47.7
0°-40°	5736.6	70.0
0°-60°	7700.2	93.9
0°-90°	8197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8197.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5718	5718	5718	5718	5718	
5°	6027	5972	5630	5376	5328	577
15°	5952	5774	5026	4532	4395	1684
25°	5040	5019	4176	3463	3463	2298
35°	3387	3744	2859	2352	2324	2122
45°	2050	2352	1447	1186	1111	1599
55°	1385	1303	644	329	206	1247
65°	946	686	220	7	7	918
75°	425	261	48	0	0	453
85°	0	7	0	0	0	39
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°	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4
2.5°	5691.0	5848.7	5862.4	5848.7	5869.4	5862.4	5896.8	5862.4	5903.8	5842.0	5855.7
5°	6027.1	5965.3	6095.6	6027.1	6027.1	6020.4	5999.7	5992.7	6020.4	5931.2	5972.3
7.5°	6116.3	6205.4	6322.0	6178.0	6184.8	6184.8	6143.7	6130.0	6130.0	5965.3	6013.4
10°	6191.7	6136.7	6198.5	6143.7	6191.7	6184.8	6212.2	6123.0	6184.8	6088.9	6081.9
12.5°	6130.0	6109.3	6191.7	6102.6	6075.2	6081.9	6047.8	6027.1	6047.8	5937.9	5931.2
15°	5951.6	5972.3	6095.6	5999.7	5986.0	5972.3	5931.2	5862.4	5917.5	5766.5	5773.5
17.5°	5890.1	5855.7	5876.4	5793.9	5814.6	5800.9	5793.9	5732.4	5718.4	5622.5	5622.5
20°	5602.1	5677.3	5677.3	5622.5	5622.5	5615.8	5526.6	5581.4	5519.6	5492.2	5519.6
22.5°	5403.0	5410.0	5410.0	5361.9	5368.9	5341.5	5293.4	5259.1	5293.4	5259.1	5204.2
25°	5039.8	5053.5	5135.7	5046.6	5032.9	5060.3	5019.2	4998.5	4991.8	4909.6	5019.2
27.5°	4600.9	4737.9	4731.2	4696.8	4737.9	4683.1	4662.7	4669.4	4690.1	4683.1	4710.5
30°	4347.3	4367.7	4388.4	4361.0	4367.7	4347.3	4347.3	4354.0	4408.8	4388.4	4381.4
32.5°	3832.9	3901.4	3956.4	3956.4	3963.2	3983.8	3976.9	4120.8	4155.2	4086.7	4073.0
35°	3387.2	3435.3	3483.1	3490.1	3579.3	3586.0	3593.0	3634.1	3730.0	3750.7	3743.7
37.5°	2962.2	3010.0	3023.7	3085.5	3133.6	3181.4	3236.5	3291.3	3373.5	3442.0	3407.9
40°	2585.1	2605.5	2639.9	2667.3	2763.2	2763.2	2790.6	2900.4	2989.6	3044.4	3037.4
42.5°	2269.7	2276.4	2303.8	2351.9	2441.1	2420.4	2441.1	2516.6	2646.6	2653.6	2729.1
45°	2050.2	2043.2	2063.9	2070.6	2125.7	2153.1	2166.8	2221.6	2331.2	2344.9	2351.9
47.5°	1851.4	1844.4	1878.8	1892.5	1912.9	1940.3	1940.3	1947.3	1988.4	2022.8	1995.4
50°	1686.8	1686.8	1686.8	1700.5	1734.8	1727.9	1734.8	1762.2	1782.7	1769.0	1762.2
52.5°	1508.4	1535.8	1556.5	1563.5	1570.2	1570.2	1577.2	1563.5	1556.5	1535.8	1494.7
55°	1385.1	1412.5	1412.5	1412.5	1412.5	1439.9	1405.8	1412.5	1412.5	1357.7	1302.9
57.5°	1261.8	1289.2	1309.6	1282.2	1309.6	1282.2	1268.5	1261.8	1247.8	1193.0	1110.8
60°	1158.9	1172.6	1165.6	1158.9	1172.6	1151.9	1138.2	1110.8	1097.1	1021.6	966.8
62.5°	1042.3	1049.0	1056.0	1042.3	1028.6	1021.6	994.2	953.1	925.7	863.9	815.8
65°	946.1	925.7	918.7	912.0	898.3	877.6	857.2	809.1	788.4	733.6	685.6
67.5°	802.1	795.4	809.1	788.4	754.3	754.3	733.6	692.5	644.5	610.3	562.3
70°	685.6	678.8	665.1	644.5	637.7	610.3	610.3	562.3	548.6	486.8	445.7
72.5°	562.3	562.3	541.6	521.2	500.5	486.8	480.0	445.7	425.2	390.9	356.5
75°	425.2	425.2	418.3	397.6	383.9	370.2	363.5	336.1	315.4	281.3	260.6
77.5°	301.7	301.7	274.3	260.6	267.3	253.6	239.9	233.2	226.2	205.8	178.4
80°	178.4	171.4	151.0	157.7	151.0	151.0	144.0	137.0	123.3	109.6	95.9
82.5°	48.1	54.8	54.8	54.8	61.8	48.1	48.1	48.1	54.8	54.8	34.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	7.0	7.0
87.5°	7.0	13.7	27.4	27.4	27.4	27.4	27.4	20.7	20.7	20.7	13.7
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°	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4
2.5°	5787.2	5780.2	5787.2	5739.1	5848.7	5766.5	5752.8	5739.1	5787.2	5739.1	5670.6
5°	5910.5	5842.0	5821.3	5800.9	5862.4	5766.5	5746.1	5752.8	5718.4	5629.5	5636.2
7.5°	5951.6	5890.1	5828.3	5698.0	5752.8	5732.4	5677.3	5636.2	5581.4	5505.9	5492.2
10°	5965.3	5896.8	5807.6	5766.5	5684.3	5656.9	5636.2	5567.7	5499.2	5368.9	5334.5
12.5°	5924.2	5842.0	5732.4	5698.0	5636.2	5547.0	5499.2	5430.4	5368.9	5266.0	5190.5
15°	5746.1	5677.3	5643.2	5526.6	5499.2	5444.1	5348.2	5252.3	5163.1	5025.9	4984.8
17.5°	5540.3	5512.9	5478.5	5389.3	5382.6	5327.8	5238.6	5156.2	5039.8	4827.1	4758.6
20°	5327.8	5327.8	5217.9	5183.8	5252.3	5142.5	5074.0	4998.5	4758.6	4655.7	4532.4
22.5°	5170.1	5094.6	5032.9	4978.1	4984.8	4916.3	4820.4	4669.4	4580.2	4456.9	4312.9
25°	4861.5	4888.9	4751.9	4731.2	4751.9	4593.9	4546.1	4422.5	4292.2	4175.6	4066.0
27.5°	4669.4	4593.9	4505.0	4429.5	4429.5	4367.7	4230.7	4203.3	4004.3	3894.7	3757.4
30°	4381.4	4326.6	4251.1	4141.5	4127.8	4079.7	3970.1	3901.4	3695.9	3531.2	3455.7
32.5°	4018.0	3997.5	3935.8	3812.5	3771.4	3716.3	3579.3	3462.7	3366.8	3181.4	3092.5
35°	3757.4	3682.2	3551.9	3449.0	3414.6	3318.7	3208.8	3126.6	3023.7	2859.3	2742.8
37.5°	3366.8	3291.3	3167.7	3044.4	3044.4	2948.5	2797.6	2715.4	2571.4	2475.2	2379.3
40°	3023.7	2927.8	2804.5	2660.6	2639.9	2502.6	2441.1	2303.8	2214.6	2063.9	2050.2
42.5°	2639.9	2550.7	2441.1	2331.2	2249.0	2180.5	2022.8	1919.9	1824.0	1748.5	1727.9
45°	2290.1	2173.5	2077.6	1940.3	1858.1	1775.9	1673.1	1604.6	1529.1	1446.9	1398.8
47.5°	1988.4	1892.5	1755.3	1632.0	1549.8	1508.4	1391.8	1316.6	1254.8	1200.0	1165.6
50°	1680.0	1563.5	1488.0	1350.7	1337.0	1241.1	1145.2	1083.4	1049.0	1001.2	953.1
52.5°	1446.9	1337.0	1234.1	1131.5	1076.4	1042.3	953.1	891.3	843.5	809.1	781.7
55°	1220.4	1124.5	1042.3	939.4	905.0	857.2	754.3	740.6	692.5	644.5	610.3
57.5°	1049.0	959.8	863.9	795.4	733.6	699.5	617.1	562.3	534.9	493.7	459.4
60°	891.3	795.4	719.9	637.7	610.3	562.3	500.5	452.6	418.3	383.9	349.8
62.5°	747.3	665.1	582.9	514.2	473.1	445.7	397.6	356.5	322.4	295.0	267.3
65°	617.1	541.6	473.1	404.6	383.9	349.8	315.4	281.3	253.6	219.5	192.1
67.5°	507.4	438.9	370.2	322.4	301.7	288.0	246.9	212.5	192.1	171.4	144.0
70°	397.6	349.8	295.0	253.6	233.2	212.5	185.1	164.7	137.0	123.3	102.9
72.5°	308.7	267.3	219.5	185.1	171.4	157.7	130.3	109.6	95.9	82.2	68.5
75°	219.5	185.1	157.7	123.3	116.6	109.6	89.2	75.5	61.8	48.1	41.1
77.5°	151.0	123.3	95.9	82.2	75.5	61.8	54.8	41.1	34.4	27.4	20.7
80°	82.2	61.8	48.1	41.1	34.4	27.4	27.4	20.7	13.7	13.7	7.0
82.5°	27.4	20.7	13.7	7.0	7.0	7.0	7.0	7.0	7.0	0.0	7.0
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°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4
2.5°	5711.7	5636.2	5656.9	5656.9	5643.2	5643.2	5629.5	5608.8	5615.8	5574.4	5485.5
5°	5649.9	5554.0	5540.3	5554.0	5499.2	5485.5	5458.1	5499.2	5375.6	5423.7	5368.9
7.5°	5471.8	5382.6	5361.9	5410.0	5341.5	5300.2	5293.4	5348.2	5238.6	5183.8	5122.0
10°	5272.8	5238.6	5176.8	5142.5	5122.0	5128.8	5074.0	5005.5	4984.8	4971.1	4916.3
12.5°	5094.6	5019.2	4964.4	4923.3	4909.6	4909.6	4820.4	4806.7	4744.9	4731.2	4649.0
15°	4881.9	4793.0	4758.6	4703.8	4655.7	4683.1	4580.2	4552.8	4532.4	4443.2	4456.9
17.5°	4696.8	4600.9	4518.7	4484.3	4443.2	4402.1	4305.9	4326.6	4278.5	4278.5	4155.2
20°	4456.9	4354.0	4292.2	4223.7	4223.7	4168.9	4100.4	4107.1	4045.4	3983.8	3874.0
22.5°	4203.3	4093.4	4018.0	3990.6	3922.1	3908.4	3826.2	3805.5	3723.3	3730.0	3634.1
25°	3935.8	3826.2	3723.3	3730.0	3668.5	3641.1	3593.0	3497.1	3462.7	3421.6	3394.2
27.5°	3620.4	3544.9	3455.7	3449.0	3332.4	3339.1	3277.6	3250.2	3167.7	3188.4	3126.6
30°	3332.4	3222.8	3140.3	3119.9	3071.8	3058.1	2962.2	2920.9	2934.8	2879.8	2845.6
32.5°	3037.4	2873.0	2838.7	2797.6	2770.2	2735.8	2667.3	2694.7	2632.9	2646.6	2591.8
35°	2646.6	2578.1	2488.9	2488.9	2461.5	2434.1	2386.3	2413.7	2351.9	2324.5	2269.7
37.5°	2317.5	2256.0	2166.8	2194.2	2146.1	2105.0	2063.9	2070.6	2015.8	2009.1	1954.0
40°	1961.0	1926.6	1865.1	1865.1	1830.7	1830.7	1810.1	1789.6	1755.3	1714.2	1652.4
42.5°	1625.0	1597.6	1570.2	1577.2	1529.1	1570.2	1515.4	1549.8	1439.9	1433.2	1391.8
45°	1378.1	1316.6	1323.3	1295.9	1268.5	1282.2	1234.1	1247.8	1186.3	1172.6	1131.5
47.5°	1117.8	1097.1	1056.0	1042.3	1042.3	1021.6	1001.2	994.2	966.8	932.4	877.6
50°	918.7	843.5	829.5	809.1	795.4	795.4	768.0	726.9	733.6	699.5	644.5
52.5°	719.9	658.2	630.8	624.0	596.6	582.9	548.6	521.2	500.5	486.8	452.6
55°	555.3	500.5	466.3	466.3	425.2	425.2	377.2	356.5	329.1	301.7	281.3
57.5°	418.3	390.9	356.5	329.1	315.4	281.3	253.6	219.5	198.8	157.7	130.3
60°	315.4	288.0	253.6	233.2	219.5	185.1	151.0	123.3	75.5	61.8	54.8
62.5°	233.2	205.8	171.4	157.7	144.0	116.6	82.2	41.1	20.7	20.7	20.7
65°	171.4	137.0	109.6	95.9	82.2	61.8	27.4	13.7	7.0	7.0	7.0
67.5°	116.6	89.2	61.8	54.8	41.1	20.7	7.0	7.0	7.0	7.0	7.0
70°	75.5	54.8	27.4	20.7	13.7	7.0	7.0	7.0	7.0	7.0	7.0
72.5°	48.1	27.4	13.7	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	27.4	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.7	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.0	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	7.0	7.0	7.0
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: P#

CATALOG NUMBER: LD4C100D010 EX4C1009050 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4	5718.4
2.5°	5581.4	5533.3	5560.7	5499.2	5526.6	5574.4	5540.3	5554.0
5°	5389.3	5361.9	5327.8	5238.6	5307.1	5361.9	5334.5	5327.8
7.5°	5183.8	5087.7	5135.7	5108.3	5094.6	5149.4	5087.7	5156.2
10°	4971.1	4902.6	4895.9	4847.8	4847.8	4888.9	4895.9	4854.5
12.5°	4655.7	4621.6	4621.6	4614.6	4607.6	4649.0	4655.7	4635.3
15°	4429.5	4415.8	4381.4	4374.7	4333.6	4395.1	4402.1	4395.1
17.5°	4155.2	4161.9	4127.8	4127.8	4155.2	4175.6	4120.8	4175.6
20°	3970.1	3935.8	3922.1	3860.3	3894.7	3929.0	3929.0	3935.8
22.5°	3702.6	3647.8	3668.5	3634.1	3613.4	3661.5	3661.5	3682.2
25°	3400.9	3400.9	3414.6	3394.2	3407.9	3435.3	3414.6	3462.7
27.5°	3112.9	3140.3	3140.3	3112.9	3126.6	3208.8	3243.2	3188.4
30°	2845.6	2852.4	2873.0	2859.3	2900.4	2927.8	2920.9	2962.2
32.5°	2544.0	2578.1	2591.8	2571.4	2585.1	2646.6	2612.5	2605.5
35°	2310.8	2249.0	2242.3	2249.0	2276.4	2290.1	2276.4	2324.5
37.5°	1974.7	1954.0	1926.6	1933.6	1954.0	1981.7	1995.4	2029.5
40°	1652.4	1625.0	1625.0	1618.3	1597.6	1673.1	1673.1	1673.1
42.5°	1371.4	1364.4	1330.3	1330.3	1357.7	1378.1	1364.4	1412.5
45°	1124.5	1097.1	1076.4	1076.4	1097.1	1097.1	1117.8	1110.8
47.5°	884.6	857.2	863.9	843.5	863.9	891.3	857.2	863.9
50°	665.1	665.1	651.4	665.1	658.2	665.1	651.4	637.7
52.5°	452.6	514.2	521.2	493.7	432.0	377.2	342.8	370.2
55°	260.6	233.2	233.2	226.2	212.5	205.8	185.1	205.8
57.5°	130.3	116.6	116.6	116.6	109.6	102.9	89.2	89.2
60°	54.8	48.1	48.1	41.1	34.4	27.4	20.7	27.4
62.5°	20.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
65°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
67.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
70°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
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)