

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 EX4C1009030 4LBSQLWWH**

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 EX4C1009030 4LBSQLWWH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

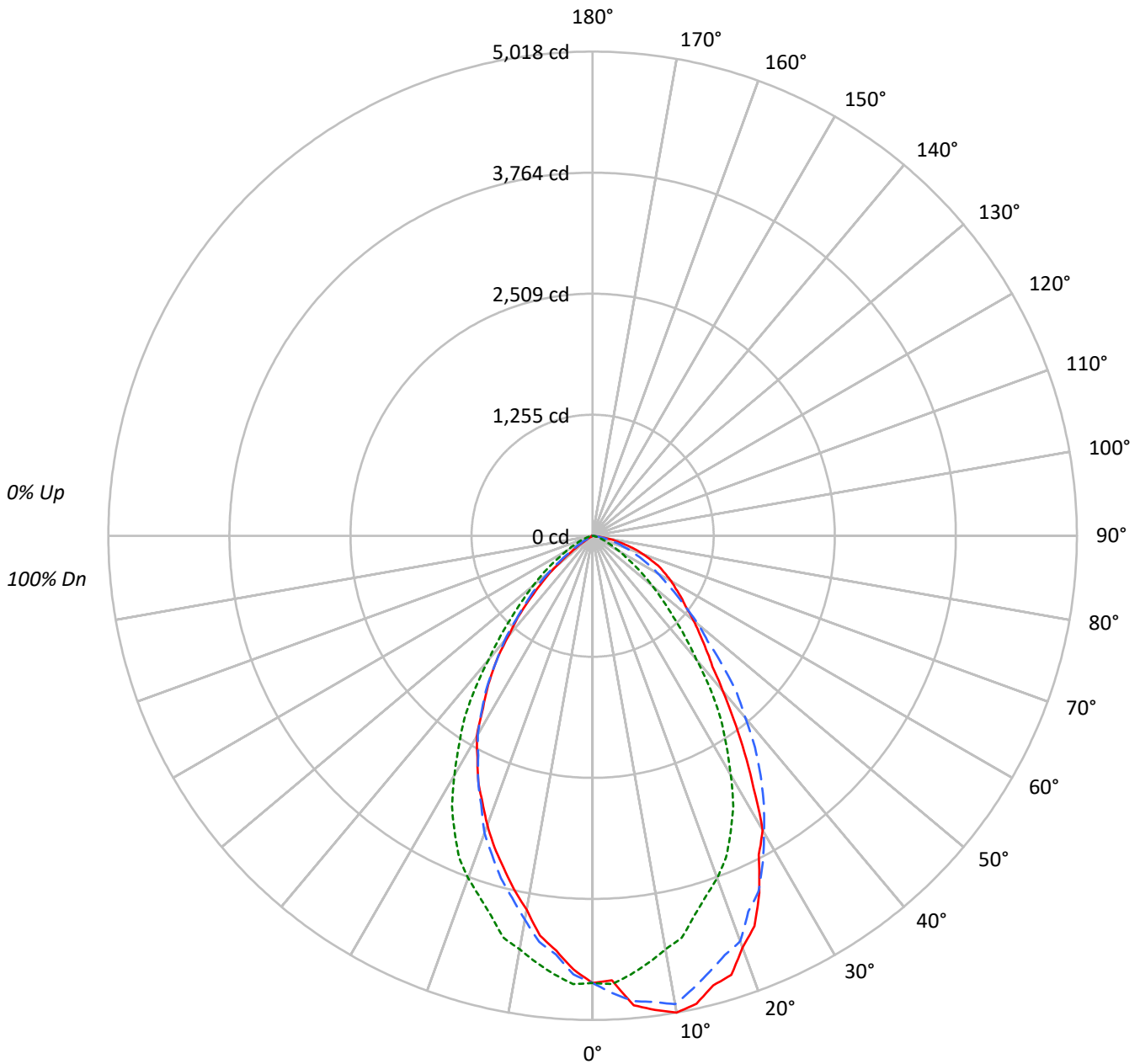
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6643.0 lumens
Efficiency: N/A
Efficacy: 58.1 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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41			
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	447158	447158	447158
5°	473100	441883	418211
10°	491641	426309	385463
15°	481812	406873	355808
20°	466173	387427	327512
25°	434840	360273	298758
30°	392529	318839	267465
35°	323349	272958	221895
40°	263881	210676	170786
45°	226721	160008	122838
50°	205200	121799	77577
55°	188831	87863	28060
60°	181245	60035	4284
65°	175070	40617	1301
70°	156743	28183	1608
75°	128468	14539	0
80°	80348	6168	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.2	6.5
10°-20°	1169.8	17.6
20°-30°	1562.1	23.5
30°-40°	1482.9	22.3
40°-50°	1025.0	15.4
50°-60°	566.4	8.5
60°-70°	281.3	4.2
70°-80°	110.8	1.7
80°-90°	10.6	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°	3166.1	47.7
0°-40°	4649.0	70.0
0°-60°	6240.4	93.9
0°-90°	6643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6643.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4634	4634	4634	4634	4634	
5°	4884	4840	4562	4356	4318	468
15°	4823	4679	4073	3673	3562	1364
25°	4084	4068	3384	2806	2806	1862
35°	2745	3034	2317	1906	1884	1720
45°	1662	1906	1173	961	900	1296
55°	1122	1056	522	267	167	1010
65°	767	556	178	6	6	744
75°	345	211	39	0	0	367
85°	0	6	0	0	0	32
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°	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3
2.5°	4612.1	4739.9	4751.0	4739.9	4756.7	4751.0	4778.9	4751.0	4784.5	4734.5	4745.6
5°	4884.5	4834.4	4940.0	4884.5	4884.5	4879.0	4862.2	4856.6	4879.0	4806.7	4840.0
7.5°	4956.7	5029.0	5123.5	5006.8	5012.2	5012.2	4978.9	4967.8	4967.8	4834.4	4873.4
10°	5017.9	4973.3	5023.3	4978.9	5017.9	5012.2	5034.5	4962.2	5012.2	4934.5	4928.9
12.5°	4967.8	4951.1	5017.9	4945.6	4923.4	4928.9	4901.2	4884.5	4901.2	4812.2	4806.7
15°	4823.3	4840.0	4940.0	4862.2	4851.1	4840.0	4806.7	4751.0	4795.6	4673.3	4678.9
17.5°	4773.4	4745.6	4762.3	4695.5	4712.2	4701.1	4695.5	4645.6	4634.3	4556.6	4556.6
20°	4540.0	4601.0	4601.0	4556.6	4556.6	4551.1	4478.9	4523.3	4473.2	4451.0	4473.2
22.5°	4378.7	4384.4	4384.4	4345.4	4351.1	4328.9	4289.9	4262.0	4289.9	4262.0	4217.6
25°	4084.4	4095.5	4162.1	4089.8	4078.7	4100.9	4067.6	4050.9	4045.4	3978.8	4067.6
27.5°	3728.7	3839.7	3834.2	3806.4	3839.7	3795.3	3778.7	3784.2	3800.9	3795.3	3817.5
30°	3523.1	3539.7	3556.4	3534.2	3539.7	3523.1	3523.1	3528.6	3573.0	3556.4	3550.8
32.5°	3106.2	3161.7	3206.4	3206.4	3211.8	3228.6	3222.9	3339.6	3367.5	3312.0	3300.9
35°	2745.1	2784.0	2822.8	2828.4	2900.7	2906.2	2911.8	2945.1	3022.8	3039.6	3034.0
37.5°	2400.6	2439.4	2450.5	2500.6	2539.5	2578.3	2622.9	2667.3	2734.0	2789.5	2761.8
40°	2095.0	2111.5	2139.4	2161.6	2239.3	2239.3	2261.5	2350.6	2422.9	2467.3	2461.6
42.5°	1839.4	1844.8	1867.0	1906.0	1978.3	1961.5	1978.3	2039.5	2144.8	2150.5	2211.7
45°	1661.5	1655.9	1672.6	1678.1	1722.7	1744.9	1756.0	1800.4	1889.3	1900.4	1906.0
47.5°	1500.4	1494.8	1522.6	1533.7	1550.3	1572.5	1572.5	1578.2	1611.5	1639.3	1617.1
50°	1367.0	1367.0	1367.0	1378.1	1405.9	1400.3	1405.9	1428.2	1444.7	1433.6	1428.2
52.5°	1222.4	1244.6	1261.4	1267.0	1272.5	1272.5	1278.2	1267.0	1261.4	1244.6	1211.3
55°	1122.5	1144.7	1144.7	1144.7	1144.7	1166.9	1139.3	1144.7	1144.7	1100.3	1055.9
57.5°	1022.6	1044.8	1061.3	1039.1	1061.3	1039.1	1028.0	1022.6	1011.2	966.8	900.2
60°	939.2	950.3	944.6	939.2	950.3	933.5	922.4	900.2	889.1	827.9	783.5
62.5°	844.7	850.1	855.8	844.7	833.6	827.9	805.7	772.4	750.2	700.1	661.2
65°	766.8	750.2	744.6	739.1	728.0	711.2	694.7	655.7	639.0	594.6	555.6
67.5°	650.1	644.6	655.7	639.0	611.3	611.3	594.6	561.2	522.3	494.6	455.7
70°	555.6	550.1	539.0	522.3	516.8	494.6	494.6	455.7	444.6	394.5	361.2
72.5°	455.7	455.7	438.9	422.3	405.6	394.5	389.0	361.2	344.6	316.8	288.9
75°	344.6	344.6	339.0	322.2	311.1	300.0	294.6	272.4	255.6	227.9	211.2
77.5°	244.5	244.5	222.3	211.2	216.6	205.5	194.4	189.0	183.3	166.8	144.6
80°	144.6	138.9	122.4	127.8	122.4	122.4	116.7	111.0	99.9	88.8	77.7
82.5°	39.0	44.4	44.4	44.4	50.1	39.0	39.0	39.0	44.4	44.4	27.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7
87.5°	5.7	11.1	22.2	22.2	22.2	22.2	22.2	16.8	16.8	16.8	11.1
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°	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3
2.5°	4690.0	4684.4	4690.0	4651.1	4739.9	4673.3	4662.2	4651.1	4690.0	4651.1	4595.6
5°	4790.0	4734.5	4717.7	4701.1	4751.0	4673.3	4656.7	4662.2	4634.3	4562.2	4567.7
7.5°	4823.3	4773.4	4723.4	4617.8	4662.2	4645.6	4601.0	4567.7	4523.3	4462.1	4451.0
10°	4834.4	4778.9	4706.6	4673.3	4606.7	4584.5	4567.7	4512.2	4456.7	4351.1	4323.2
12.5°	4801.1	4734.5	4645.6	4617.8	4567.7	4495.4	4456.7	4400.9	4351.1	4267.7	4206.5
15°	4656.7	4601.0	4573.4	4478.9	4456.7	4412.0	4334.3	4256.6	4184.3	4073.1	4039.8
17.5°	4490.0	4467.8	4439.9	4367.6	4362.2	4317.8	4245.5	4178.7	4084.4	3912.0	3856.4
20°	4317.8	4317.8	4228.7	4201.1	4256.6	4167.5	4112.0	4050.9	3856.4	3773.1	3673.1
22.5°	4190.0	4128.8	4078.7	4034.3	4039.8	3984.2	3906.5	3784.2	3711.9	3612.0	3495.3
25°	3939.8	3962.0	3851.0	3834.2	3851.0	3723.0	3684.2	3584.1	3478.5	3384.0	3295.2
27.5°	3784.2	3723.0	3650.9	3589.8	3589.8	3539.7	3428.7	3406.4	3245.1	3156.3	3045.1
30°	3550.8	3506.4	3445.2	3356.4	3345.3	3306.3	3217.5	3161.7	2995.2	2861.7	2800.6
32.5°	3256.2	3239.7	3189.6	3089.7	3056.4	3011.7	2900.7	2806.2	2728.5	2578.3	2506.2
35°	3045.1	2984.1	2878.5	2795.1	2767.3	2689.5	2600.5	2533.9	2450.5	2317.3	2222.8
37.5°	2728.5	2667.3	2567.2	2467.3	2467.3	2389.5	2267.2	2200.6	2083.9	2005.9	1928.2
40°	2450.5	2372.8	2272.9	2156.2	2139.4	2028.1	1978.3	1867.0	1794.8	1672.6	1661.5
42.5°	2139.4	2067.1	1978.3	1889.3	1822.6	1767.1	1639.3	1555.9	1478.2	1417.0	1400.3
45°	1855.9	1761.5	1683.7	1572.5	1505.9	1439.3	1355.9	1300.4	1239.2	1172.6	1133.6
47.5°	1611.5	1533.7	1422.5	1322.6	1255.9	1222.4	1127.9	1067.0	1016.9	972.5	944.6
50°	1361.5	1267.0	1205.9	1094.6	1083.5	1005.8	928.1	878.0	850.1	811.4	772.4
52.5°	1172.6	1083.5	1000.1	917.0	872.3	844.7	772.4	722.3	683.6	655.7	633.5
55°	989.0	911.3	844.7	761.3	733.5	694.7	611.3	600.2	561.2	522.3	494.6
57.5°	850.1	777.9	700.1	644.6	594.6	566.9	500.1	455.7	433.5	400.1	372.3
60°	722.3	644.6	583.5	516.8	494.6	455.7	405.6	366.8	339.0	311.1	283.5
62.5°	605.7	539.0	472.4	416.7	383.4	361.2	322.2	288.9	261.2	239.0	216.6
65°	500.1	438.9	383.4	327.9	311.1	283.5	255.6	227.9	205.5	177.9	155.7
67.5°	411.2	355.7	300.0	261.2	244.5	233.4	200.1	172.2	155.7	138.9	116.7
70°	322.2	283.5	239.0	205.5	189.0	172.2	150.0	133.5	111.0	99.9	83.4
72.5°	250.1	216.6	177.9	150.0	138.9	127.8	105.6	88.8	77.7	66.6	55.5
75°	177.9	150.0	127.8	99.9	94.5	88.8	72.3	61.2	50.1	39.0	33.3
77.5°	122.4	99.9	77.7	66.6	61.2	50.1	44.4	33.3	27.9	22.2	16.8
80°	66.6	50.1	39.0	33.3	27.9	22.2	22.2	16.8	11.1	11.1	5.7
82.5°	22.2	16.8	11.1	5.7	5.7	5.7	5.7	5.7	5.7	0.0	5.7
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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	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°	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3
2.5°	4628.9	4567.7	4584.5	4584.5	4573.4	4573.4	4562.2	4545.5	4551.1	4517.6	4445.6
5°	4578.8	4501.1	4490.0	4501.1	4456.7	4445.6	4423.4	4456.7	4356.5	4395.5	4351.1
7.5°	4434.5	4362.2	4345.4	4384.4	4328.9	4295.3	4289.9	4334.3	4245.5	4201.1	4151.0
10°	4273.1	4245.5	4195.4	4167.5	4151.0	4156.4	4112.0	4056.5	4039.8	4028.7	3984.2
12.5°	4128.8	4067.6	4023.2	3989.9	3978.8	3978.8	3906.5	3895.4	3845.3	3834.2	3767.6
15°	3956.4	3884.3	3856.4	3812.0	3773.1	3795.3	3711.9	3689.7	3673.1	3600.9	3612.0
17.5°	3806.4	3728.7	3662.0	3634.2	3600.9	3567.5	3489.6	3506.4	3467.4	3467.4	3367.5
20°	3612.0	3528.6	3478.5	3423.0	3423.0	3378.6	3323.1	3328.5	3278.4	3228.6	3139.5
22.5°	3406.4	3317.4	3256.2	3234.0	3178.5	3167.4	3100.8	3084.0	3017.4	3022.8	2945.1
25°	3189.6	3100.8	3017.4	3022.8	2973.0	2950.8	2911.8	2834.1	2806.2	2772.9	2750.7
27.5°	2934.0	2872.8	2800.6	2795.1	2700.6	2706.1	2656.2	2634.0	2567.2	2584.0	2533.9
30°	2700.6	2611.8	2545.0	2528.4	2489.5	2478.4	2400.6	2367.1	2378.4	2333.8	2306.2
32.5°	2461.6	2328.4	2300.5	2267.2	2245.0	2217.1	2161.6	2183.8	2133.7	2144.8	2100.4
35°	2144.8	2089.3	2017.0	2017.0	1994.8	1972.6	1933.9	1956.1	1906.0	1883.8	1839.4
37.5°	1878.2	1828.3	1756.0	1778.2	1739.3	1705.9	1672.6	1678.1	1633.7	1628.2	1583.6
40°	1589.3	1561.4	1511.5	1511.5	1483.7	1483.7	1466.9	1450.4	1422.5	1389.2	1339.1
42.5°	1316.9	1294.7	1272.5	1278.2	1239.2	1272.5	1228.1	1255.9	1166.9	1161.5	1127.9
45°	1116.8	1067.0	1072.4	1050.2	1028.0	1039.1	1000.1	1011.2	961.4	950.3	917.0
47.5°	905.9	889.1	855.8	844.7	844.7	827.9	811.4	805.7	783.5	755.7	711.2
50°	744.6	683.6	672.3	655.7	644.6	644.6	622.4	589.1	594.6	566.9	522.3
52.5°	583.5	533.4	511.2	505.7	483.5	472.4	444.6	422.3	405.6	394.5	366.8
55°	450.0	405.6	377.9	377.9	344.6	344.6	305.7	288.9	266.7	244.5	227.9
57.5°	339.0	316.8	288.9	266.7	255.6	227.9	205.5	177.9	161.1	127.8	105.6
60°	255.6	233.4	205.5	189.0	177.9	150.0	122.4	99.9	61.2	50.1	44.4
62.5°	189.0	166.8	138.9	127.8	116.7	94.5	66.6	33.3	16.8	16.8	16.8
65°	138.9	111.0	88.8	77.7	66.6	50.1	22.2	11.1	5.7	5.7	5.7
67.5°	94.5	72.3	50.1	44.4	33.3	16.8	5.7	5.7	5.7	5.7	5.7
70°	61.2	44.4	22.2	16.8	11.1	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	39.0	22.2	11.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.2	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.7	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	5.7	5.7	5.7
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 EX4C1009030 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3	4634.3
2.5°	4523.3	4484.3	4506.5	4456.7	4478.9	4517.6	4490.0	4501.1
5°	4367.6	4345.4	4317.8	4245.5	4301.0	4345.4	4323.2	4317.8
7.5°	4201.1	4123.1	4162.1	4139.9	4128.8	4173.2	4123.1	4178.7
10°	4028.7	3973.1	3967.7	3928.7	3928.7	3962.0	3967.7	3934.2
12.5°	3773.1	3745.4	3745.4	3739.8	3734.1	3767.6	3773.1	3756.5
15°	3589.8	3578.7	3550.8	3545.3	3512.0	3561.9	3567.5	3561.9
17.5°	3367.5	3372.9	3345.3	3345.3	3367.5	3384.0	3339.6	3384.0
20°	3217.5	3189.6	3178.5	3128.4	3156.3	3184.2	3184.2	3189.6
22.5°	3000.6	2956.2	2973.0	2945.1	2928.4	2967.3	2967.3	2984.1
25°	2756.2	2756.2	2767.3	2750.7	2761.8	2784.0	2767.3	2806.2
27.5°	2522.8	2545.0	2545.0	2522.8	2533.9	2600.5	2628.4	2584.0
30°	2306.2	2311.6	2328.4	2317.3	2350.6	2372.8	2367.1	2400.6
32.5°	2061.7	2089.3	2100.4	2083.9	2095.0	2144.8	2117.2	2111.5
35°	1872.7	1822.6	1817.2	1822.6	1844.8	1855.9	1844.8	1883.8
37.5°	1600.4	1583.6	1561.4	1567.0	1583.6	1606.0	1617.1	1644.8
40°	1339.1	1316.9	1316.9	1311.5	1294.7	1355.9	1355.9	1355.9
42.5°	1111.4	1105.7	1078.1	1078.1	1100.3	1116.8	1105.7	1144.7
45°	911.3	889.1	872.3	872.3	889.1	889.1	905.9	900.2
47.5°	716.9	694.7	700.1	683.6	700.1	722.3	694.7	700.1
50°	539.0	539.0	527.9	539.0	533.4	539.0	527.9	516.8
52.5°	366.8	416.7	422.3	400.1	350.1	305.7	277.8	300.0
55°	211.2	189.0	189.0	183.3	172.2	166.8	150.0	166.8
57.5°	105.6	94.5	94.5	94.5	88.8	83.4	72.3	72.3
60°	44.4	39.0	39.0	33.3	27.9	22.2	16.8	22.2
62.5°	16.8	11.1	11.1	11.1	11.1	11.1	11.1	11.1
65°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
67.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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)