

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: **LD4C90D010 EX4C909035 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: LD4C90D010 EX4C909035 4LBSQLWWH
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

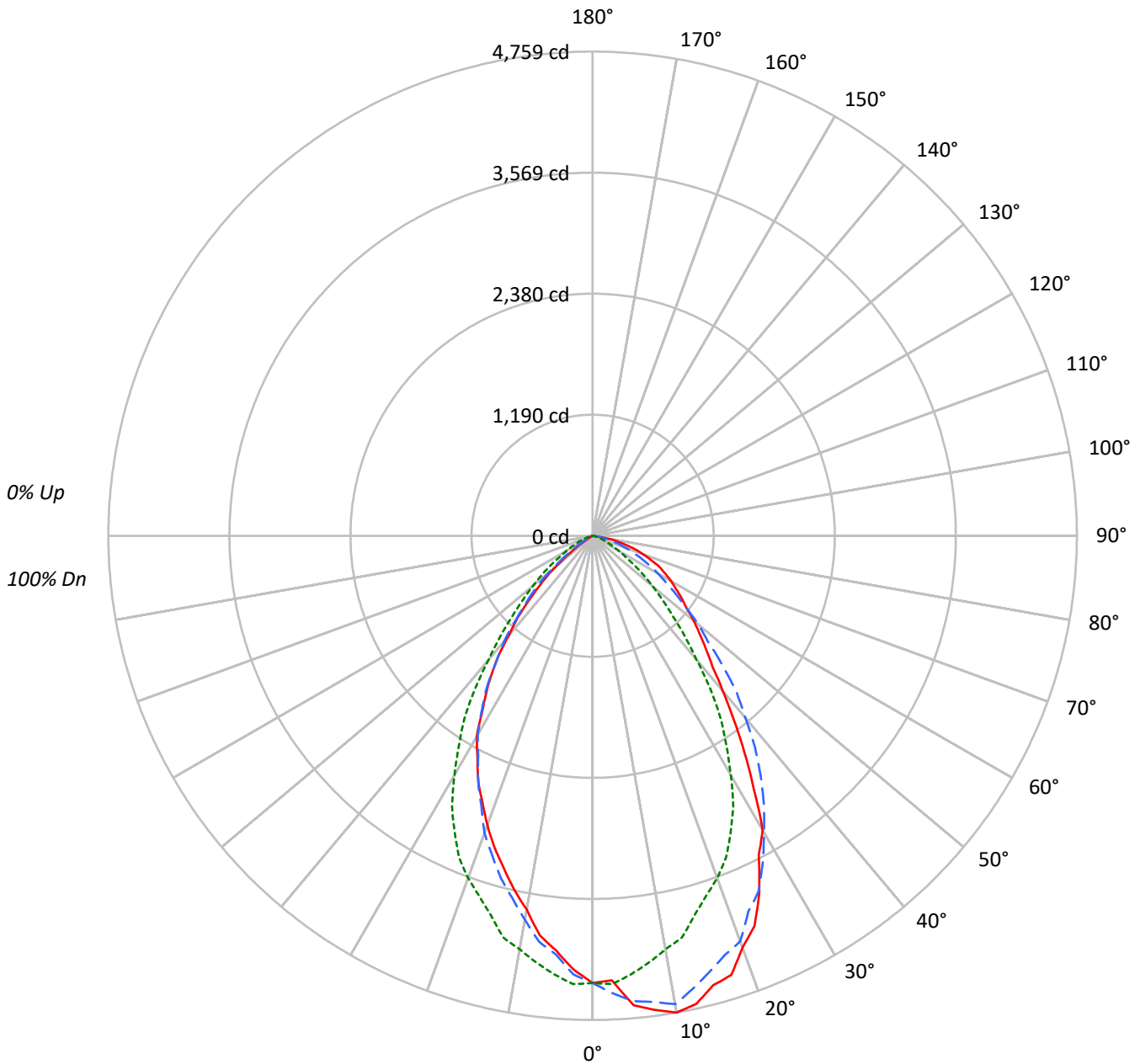
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6300.0 lumens
Efficiency: N/A
Efficacy: 64.9 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): 97.1
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

TEST NUMBER: P#
CATALOG NUMBER: LD4C90D010 EX4C909035 4LBSQLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909035 4LBSQLWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	424069	424069	424069
5°	448673	419073	396612
10°	466255	404294	365554
15°	456929	385865	337437
20°	442105	367414	310601
25°	412387	341674	283332
30°	372262	302382	253660
35°	306646	258858	210434
40°	250252	199806	161968
45°	215014	151739	116492
50°	194603	115510	73569
55°	179074	83321	26613
60°	171885	56928	4072
65°	166029	38516	1233
70°	148646	26744	1523
75°	121832	13794	0
80°	76181	5834	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909035 4LBSQLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.8	6.5
10°-20°	1109.4	17.6
20°-30°	1481.4	23.5
30°-40°	1406.3	22.3
40°-50°	972.1	15.4
50°-60°	537.1	8.5
60°-70°	266.7	4.2
70°-80°	105.1	1.7
80°-90°	10.0	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°	3002.7	47.7
0°-40°	4409.0	70.0
0°-60°	5918.2	93.9
0°-90°	6300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6300.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4395	4395	4395	4395	4395	
5°	4632	4590	4327	4132	4095	443
15°	4574	4437	3863	3484	3378	1294
25°	3874	3858	3209	2661	2661	1766
35°	2603	2877	2198	1808	1786	1631
45°	1576	1808	1112	912	854	1229
55°	1064	1001	495	253	158	958
65°	727	527	169	5	5	706
75°	327	200	37	0	0	348
85°	0	5	0	0	0	30
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909035 4LBSQLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0
2.5°	4374.0	4495.2	4505.7	4495.2	4511.1	4505.7	4532.1	4505.7	4537.5	4490.0	4500.5
5°	4632.3	4584.8	4684.9	4632.3	4632.3	4627.1	4611.2	4605.8	4627.1	4558.5	4590.1
7.5°	4700.8	4769.3	4859.0	4748.3	4753.4	4753.4	4721.9	4711.3	4711.3	4584.8	4621.7
10°	4758.8	4716.5	4764.0	4721.9	4758.8	4753.4	4774.5	4706.0	4753.4	4679.7	4674.4
12.5°	4711.3	4695.4	4758.8	4690.3	4669.2	4674.4	4648.2	4632.3	4648.2	4563.7	4558.5
15°	4574.2	4590.1	4684.9	4611.2	4600.7	4590.1	4558.5	4505.7	4548.0	4432.0	4437.3
17.5°	4527.0	4500.5	4516.4	4453.0	4468.9	4458.4	4453.0	4405.8	4395.0	4321.3	4321.3
20°	4305.6	4363.4	4363.4	4321.3	4321.3	4316.2	4247.6	4289.7	4242.2	4221.2	4242.2
22.5°	4152.6	4158.0	4158.0	4121.0	4126.4	4105.4	4068.4	4042.0	4068.4	4042.0	3999.8
25°	3873.5	3884.0	3947.2	3878.7	3868.1	3889.2	3857.6	3841.7	3836.5	3773.4	3857.6
27.5°	3536.1	3641.4	3636.3	3609.8	3641.4	3599.3	3583.6	3588.8	3604.7	3599.3	3620.4
30°	3341.2	3356.9	3372.8	3351.8	3356.9	3341.2	3341.2	3346.4	3388.5	3372.8	3367.4
32.5°	2945.8	2998.5	3040.8	3040.8	3046.0	3061.9	3056.5	3167.2	3193.6	3141.0	3130.4
35°	2603.3	2640.3	2677.0	2682.4	2750.9	2756.1	2761.5	2793.1	2866.8	2882.7	2877.3
37.5°	2276.7	2313.4	2324.0	2371.5	2408.4	2445.2	2487.5	2529.6	2592.8	2645.4	2619.2
40°	1986.8	2002.5	2028.9	2050.0	2123.7	2123.7	2144.8	2229.2	2297.8	2339.9	2334.5
42.5°	1744.4	1749.6	1770.6	1807.6	1876.1	1860.3	1876.1	1934.2	2034.1	2039.5	2097.5
45°	1575.7	1570.4	1586.3	1591.4	1633.8	1654.8	1665.3	1707.5	1791.7	1802.2	1807.6
47.5°	1423.0	1417.6	1444.0	1454.5	1470.2	1491.3	1491.3	1496.7	1528.3	1554.7	1533.6
50°	1296.4	1296.4	1296.4	1306.9	1333.4	1328.0	1333.4	1354.4	1370.1	1359.6	1354.4
52.5°	1159.3	1180.4	1196.3	1201.6	1206.8	1206.8	1212.2	1201.6	1196.3	1180.4	1148.8
55°	1064.5	1085.6	1085.6	1085.6	1085.6	1106.7	1080.4	1085.6	1085.6	1043.5	1001.4
57.5°	969.8	990.8	1006.5	985.5	1006.5	985.5	974.9	969.8	959.0	916.9	853.7
60°	890.7	901.2	895.9	890.7	901.2	885.3	874.8	853.7	843.2	785.2	743.1
62.5°	801.1	806.2	811.6	801.1	790.6	785.2	764.1	732.5	711.5	664.0	627.0
65°	727.2	711.5	706.1	700.9	690.4	674.5	658.8	621.9	606.0	563.9	526.9
67.5°	616.5	611.3	621.9	606.0	579.8	579.8	563.9	532.3	495.3	469.1	432.1
70°	526.9	521.7	511.2	495.3	490.1	469.1	469.1	432.1	421.6	374.1	342.5
72.5°	432.1	432.1	416.2	400.5	384.6	374.1	369.0	342.5	326.8	300.4	274.0
75°	326.8	326.8	321.5	305.6	295.0	284.5	279.3	258.3	242.4	216.2	200.3
77.5°	231.9	231.9	210.8	200.3	205.4	194.9	184.4	179.2	173.8	158.2	137.1
80°	137.1	131.7	116.0	121.2	116.0	116.0	110.7	105.3	94.8	84.2	73.7
82.5°	37.0	42.1	42.1	42.1	47.5	37.0	37.0	37.0	42.1	42.1	26.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4	5.4
87.5°	5.4	10.5	21.1	21.1	21.1	21.1	21.1	15.9	15.9	15.9	10.5
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: LD4C90D010 EX4C909035 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0
2.5°	4447.9	4442.5	4447.9	4410.9	4495.2	4432.0	4421.5	4410.9	4447.9	4410.9	4358.3
5°	4542.6	4490.0	4474.1	4458.4	4505.7	4432.0	4416.3	4421.5	4395.0	4326.7	4331.8
7.5°	4574.2	4527.0	4479.5	4379.3	4421.5	4405.8	4363.4	4331.8	4289.7	4231.7	4221.2
10°	4584.8	4532.1	4463.6	4432.0	4368.8	4347.7	4331.8	4279.2	4226.5	4126.4	4100.0
12.5°	4553.2	4490.0	4405.8	4379.3	4331.8	4263.3	4226.5	4173.7	4126.4	4047.3	3989.3
15°	4416.3	4363.4	4337.2	4247.6	4226.5	4184.2	4110.5	4036.8	3968.3	3862.8	3831.2
17.5°	4258.1	4237.1	4210.7	4142.1	4136.9	4094.8	4026.3	3962.9	3873.5	3710.0	3657.3
20°	4094.8	4094.8	4010.4	3984.2	4036.8	3952.4	3899.7	3841.7	3657.3	3578.2	3483.5
22.5°	3973.6	3915.6	3868.1	3826.0	3831.2	3778.5	3704.8	3588.8	3520.2	3425.5	3314.8
25°	3736.4	3757.5	3652.2	3636.3	3652.2	3530.8	3494.0	3399.0	3298.9	3209.3	3125.1
27.5°	3588.8	3530.8	3462.4	3404.4	3404.4	3356.9	3251.6	3230.6	3077.6	2993.3	2887.8
30°	3367.4	3325.3	3267.3	3183.1	3172.5	3135.6	3051.3	2998.5	2840.5	2714.0	2656.0
32.5°	3088.1	3072.4	3024.9	2930.2	2898.6	2856.2	2750.9	2661.3	2587.6	2445.2	2376.8
35°	2887.8	2830.0	2729.9	2650.8	2624.4	2550.7	2466.2	2403.0	2324.0	2197.6	2108.0
37.5°	2587.6	2529.6	2434.6	2339.9	2339.9	2266.2	2150.1	2086.9	1976.3	1902.4	1828.7
40°	2324.0	2250.3	2155.5	2044.8	2028.9	1923.4	1876.1	1770.6	1702.1	1586.3	1575.7
42.5°	2028.9	1960.4	1876.1	1791.7	1728.5	1675.9	1554.7	1475.6	1401.9	1343.9	1328.0
45°	1760.1	1670.5	1596.8	1491.3	1428.1	1364.9	1285.9	1233.2	1175.2	1112.0	1075.1
47.5°	1528.3	1454.5	1349.0	1254.3	1191.1	1159.3	1069.7	1011.9	964.4	922.3	895.9
50°	1291.2	1201.6	1143.6	1038.1	1027.6	953.9	880.2	832.7	806.2	769.5	732.5
52.5°	1112.0	1027.6	948.5	869.6	827.3	801.1	732.5	685.1	648.3	621.9	600.8
55°	938.0	864.3	801.1	722.0	695.6	658.8	579.8	569.2	532.3	495.3	469.1
57.5°	806.2	737.7	664.0	611.3	563.9	537.6	474.3	432.1	411.1	379.5	353.1
60°	685.1	611.3	553.3	490.1	469.1	432.1	384.6	347.9	321.5	295.0	268.8
62.5°	574.4	511.2	448.0	395.2	363.6	342.5	305.6	274.0	247.8	226.7	205.4
65°	474.3	416.2	363.6	310.9	295.0	268.8	242.4	216.2	194.9	168.7	147.6
67.5°	390.0	337.4	284.5	247.8	231.9	221.3	189.7	163.3	147.6	131.7	110.7
70°	305.6	268.8	226.7	194.9	179.2	163.3	142.3	126.6	105.3	94.8	79.1
72.5°	237.2	205.4	168.7	142.3	131.7	121.2	100.1	84.2	73.7	63.2	52.6
75°	168.7	142.3	121.2	94.8	89.6	84.2	68.5	58.0	47.5	37.0	31.6
77.5°	116.0	94.8	73.7	63.2	58.0	47.5	42.1	31.6	26.4	21.1	15.9
80°	63.2	47.5	37.0	31.6	26.4	21.1	21.1	15.9	10.5	10.5	5.4
82.5°	21.1	15.9	10.5	5.4	5.4	5.4	5.4	5.4	5.4	0.0	5.4
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°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	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



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909035 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0
2.5°	4389.9	4331.8	4347.7	4347.7	4337.2	4337.2	4326.7	4310.8	4316.2	4284.4	4216.0
5°	4342.4	4268.7	4258.1	4268.7	4226.5	4216.0	4195.0	4226.5	4131.6	4168.5	4126.4
7.5°	4205.5	4136.9	4121.0	4158.0	4105.4	4073.6	4068.4	4110.5	4026.3	3984.2	3936.7
10°	4052.5	4026.3	3978.8	3952.4	3936.7	3941.8	3899.7	3847.1	3831.2	3820.6	3778.5
12.5°	3915.6	3857.6	3815.5	3783.9	3773.4	3773.4	3704.8	3694.3	3646.8	3636.3	3573.1
15°	3752.1	3683.8	3657.3	3615.2	3578.2	3599.3	3520.2	3499.2	3483.5	3414.9	3425.5
17.5°	3609.8	3536.1	3473.0	3446.5	3414.9	3383.3	3309.4	3325.3	3288.4	3288.4	3193.6
20°	3425.5	3346.4	3298.9	3246.3	3246.3	3204.1	3151.5	3156.6	3109.2	3061.9	2977.4
22.5°	3230.6	3146.1	3088.1	3067.0	3014.4	3003.9	2940.7	2924.8	2861.6	2866.8	2793.1
25°	3024.9	2940.7	2861.6	2866.8	2819.5	2798.4	2761.5	2687.8	2661.3	2629.7	2608.7
27.5°	2782.5	2724.5	2656.0	2650.8	2561.2	2566.4	2519.1	2498.0	2434.6	2450.5	2403.0
30°	2561.2	2477.0	2413.6	2397.9	2360.9	2350.4	2276.7	2244.9	2255.6	2213.3	2187.1
32.5°	2334.5	2208.1	2181.7	2150.1	2129.1	2102.6	2050.0	2071.1	2023.6	2034.1	1992.0
35°	2034.1	1981.4	1912.9	1912.9	1891.8	1870.8	1834.0	1855.1	1807.6	1786.5	1744.4
37.5°	1781.2	1733.9	1665.3	1686.4	1649.5	1617.9	1586.3	1591.4	1549.3	1544.2	1501.8
40°	1507.2	1480.8	1433.5	1433.5	1407.1	1407.1	1391.2	1375.5	1349.0	1317.5	1270.0
42.5°	1248.9	1227.8	1206.8	1212.2	1175.2	1206.8	1164.7	1191.1	1106.7	1101.5	1069.7
45°	1059.2	1011.9	1017.0	996.0	974.9	985.5	948.5	959.0	911.8	901.2	869.6
47.5°	859.1	843.2	811.6	801.1	801.1	785.2	769.5	764.1	743.1	716.6	674.5
50°	706.1	648.3	637.6	621.9	611.3	611.3	590.3	558.7	563.9	537.6	495.3
52.5°	553.3	505.8	484.8	479.6	458.6	448.0	421.6	400.5	384.6	374.1	347.9
55°	426.8	384.6	358.4	358.4	326.8	326.8	289.9	274.0	252.9	231.9	216.2
57.5°	321.5	300.4	274.0	252.9	242.4	216.2	194.9	168.7	152.8	121.2	100.1
60°	242.4	221.3	194.9	179.2	168.7	142.3	116.0	94.8	58.0	47.5	42.1
62.5°	179.2	158.2	131.7	121.2	110.7	89.6	63.2	31.6	15.9	15.9	15.9
65°	131.7	105.3	84.2	73.7	63.2	47.5	21.1	10.5	5.4	5.4	5.4
67.5°	89.6	68.5	47.5	42.1	31.6	15.9	5.4	5.4	5.4	5.4	5.4
70°	58.0	42.1	21.1	15.9	10.5	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	37.0	21.1	10.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.1	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.4	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	5.4	5.4	5.4
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: P#

CATALOG NUMBER: LD4C90D010 EX4C909035 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0
2.5°	4289.7	4252.8	4273.8	4226.5	4247.6	4284.4	4258.1	4268.7
5°	4142.1	4121.0	4094.8	4026.3	4078.9	4121.0	4100.0	4094.8
7.5°	3984.2	3910.2	3947.2	3926.1	3915.6	3957.7	3910.2	3962.9
10°	3820.6	3768.0	3762.8	3725.9	3725.9	3757.5	3762.8	3731.0
12.5°	3578.2	3552.0	3552.0	3546.7	3541.3	3573.1	3578.2	3562.6
15°	3404.4	3393.9	3367.4	3362.3	3330.7	3378.0	3383.3	3378.0
17.5°	3193.6	3198.8	3172.5	3172.5	3193.6	3209.3	3167.2	3209.3
20°	3051.3	3024.9	3014.4	2966.9	2993.3	3019.8	3019.8	3024.9
22.5°	2845.7	2803.6	2819.5	2793.1	2777.2	2814.1	2814.1	2830.0
25°	2613.8	2613.8	2624.4	2608.7	2619.2	2640.3	2624.4	2661.3
27.5°	2392.5	2413.6	2413.6	2392.5	2403.0	2466.2	2492.7	2450.5
30°	2187.1	2192.2	2208.1	2197.6	2229.2	2250.3	2244.9	2276.7
32.5°	1955.2	1981.4	1992.0	1976.3	1986.8	2034.1	2007.9	2002.5
35°	1776.0	1728.5	1723.4	1728.5	1749.6	1760.1	1749.6	1786.5
37.5°	1517.7	1501.8	1480.8	1486.1	1501.8	1523.1	1533.6	1559.8
40°	1270.0	1248.9	1248.9	1243.7	1227.8	1285.9	1285.9	1285.9
42.5°	1054.0	1048.6	1022.4	1022.4	1043.5	1059.2	1048.6	1085.6
45°	864.3	843.2	827.3	827.3	843.2	843.2	859.1	853.7
47.5°	679.9	658.8	664.0	648.3	664.0	685.1	658.8	664.0
50°	511.2	511.2	500.7	511.2	505.8	511.2	500.7	490.1
52.5°	347.9	395.2	400.5	379.5	332.0	289.9	263.4	284.5
55°	200.3	179.2	179.2	173.8	163.3	158.2	142.3	158.2
57.5°	100.1	89.6	89.6	89.6	84.2	79.1	68.5	68.5
60°	42.1	37.0	37.0	31.6	26.4	21.1	15.9	21.1
62.5°	15.9	10.5	10.5	10.5	10.5	10.5	10.5	10.5
65°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
67.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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)