

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 EX4C909050 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 EX4C909050 4LBSQLWWH
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

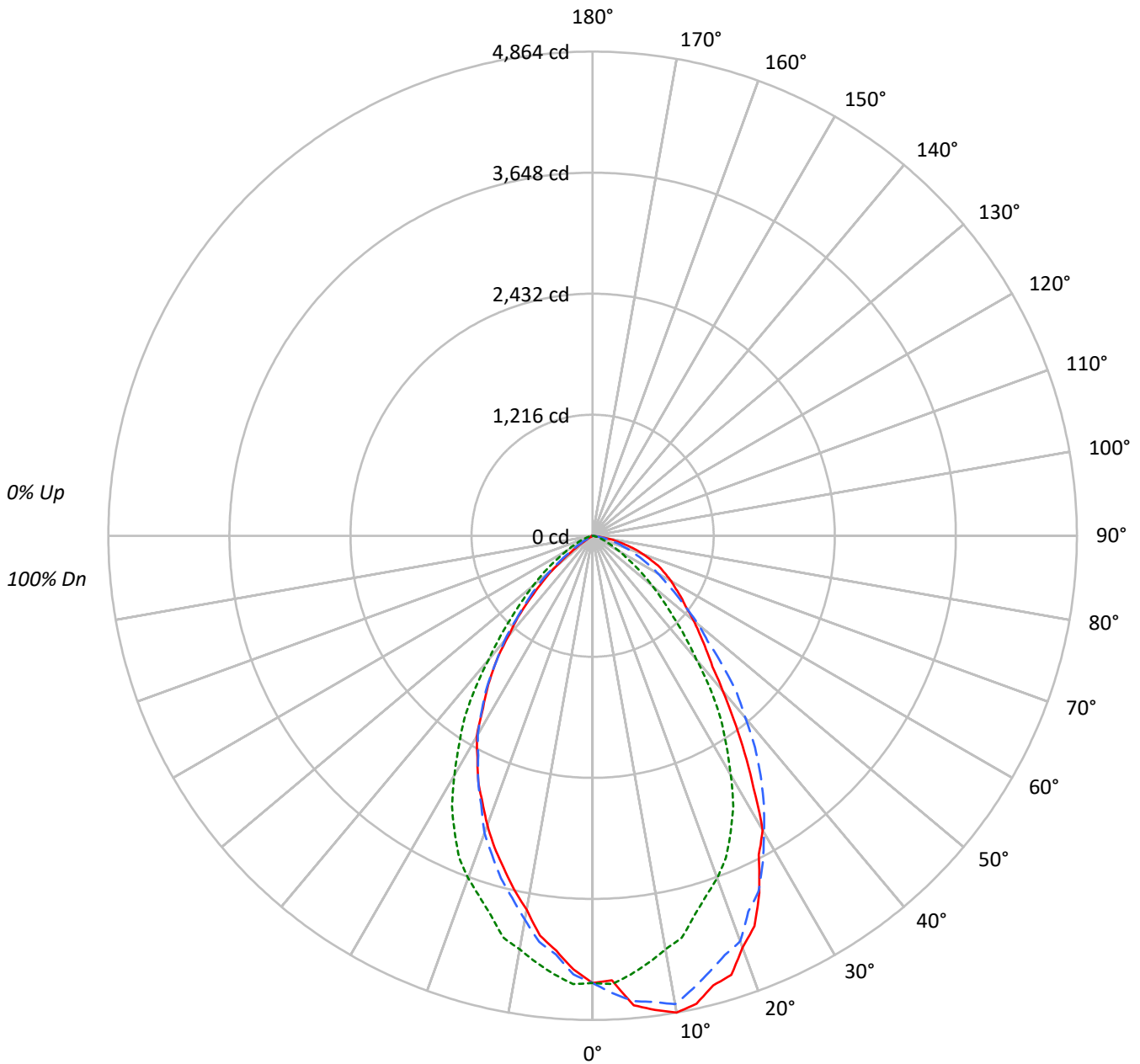
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6439.0 lumens
Efficiency: N/A
Efficacy: 66.3 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

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Luminous Intensity Polar Plot





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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°	433428	433428	433428
5°	458572	428313	405368
10°	476542	413220	373627
15°	467018	394376	344879
20°	451859	375526	317460
25°	421490	349212	289592
30°	380474	309056	259253
35°	313419	264571	215087
40°	255782	204215	165533
45°	219762	155096	119071
50°	198896	118062	75205
55°	183027	85155	27185
60°	175668	58183	4149
65°	169682	39361	1256
70°	151919	27337	1552
75°	124517	14092	0
80°	77848	6001	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.9	6.5
10°-20°	1133.9	17.6
20°-30°	1514.1	23.5
30°-40°	1437.3	22.3
40°-50°	993.5	15.4
50°-60°	549.0	8.5
60°-70°	272.6	4.2
70°-80°	107.4	1.7
80°-90°	10.2	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°	3068.9	47.7
0°-40°	4506.3	70.0
0°-60°	6048.8	93.9
0°-90°	6439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6439.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4492	4492	4492	4492	4492	
5°	4734	4691	4422	4223	4185	453
15°	4675	4535	3948	3560	3452	1323
25°	3959	3943	3280	2720	2720	1805
35°	2661	2941	2246	1848	1826	1667
45°	1610	1848	1137	932	873	1256
55°	1088	1023	506	258	162	979
65°	743	538	172	6	6	721
75°	334	205	38	0	0	356
85°	0	6	0	0	0	31
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°	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0
2.5°	4470.5	4594.3	4605.1	4594.3	4610.6	4605.1	4632.1	4605.1	4637.6	4589.1	4599.8
5°	4734.5	4685.9	4788.3	4734.5	4734.5	4729.2	4712.9	4707.4	4729.2	4659.1	4691.4
7.5°	4804.5	4874.6	4966.2	4853.0	4858.3	4858.3	4826.0	4815.3	4815.3	4685.9	4723.7
10°	4863.8	4820.6	4869.1	4826.0	4863.8	4858.3	4879.8	4809.8	4858.3	4783.0	4777.5
12.5°	4815.3	4799.0	4863.8	4793.8	4772.2	4777.5	4750.7	4734.5	4750.7	4664.4	4659.1
15°	4675.2	4691.4	4788.3	4712.9	4702.2	4691.4	4659.1	4605.1	4648.4	4529.8	4535.3
17.5°	4626.8	4599.8	4616.1	4551.3	4567.5	4556.8	4551.3	4503.0	4492.0	4416.7	4416.7
20°	4400.6	4459.7	4459.7	4416.7	4416.7	4411.4	4341.3	4384.4	4335.8	4314.3	4335.8
22.5°	4244.3	4249.7	4249.7	4212.0	4217.5	4195.9	4158.2	4131.1	4158.2	4131.1	4088.1
25°	3959.0	3969.7	4034.3	3964.2	3953.5	3975.0	3942.7	3926.5	3921.2	3856.6	3942.7
27.5°	3614.1	3721.8	3716.5	3689.5	3721.8	3678.7	3662.7	3668.0	3684.2	3678.7	3700.2
30°	3414.9	3431.0	3447.2	3425.7	3431.0	3414.9	3414.9	3420.2	3463.3	3447.2	3441.7
32.5°	3010.8	3064.7	3107.9	3107.9	3113.2	3129.4	3123.9	3237.1	3264.1	3210.3	3199.5
35°	2660.8	2698.5	2736.1	2741.6	2811.6	2816.9	2822.4	2854.7	2930.0	2946.3	2940.8
37.5°	2326.9	2364.5	2375.2	2423.8	2461.6	2499.1	2542.4	2585.4	2650.0	2703.8	2677.0
40°	2030.7	2046.7	2073.7	2095.2	2170.6	2170.6	2192.1	2278.4	2348.4	2391.5	2386.0
42.5°	1782.9	1788.2	1809.7	1847.5	1917.5	1901.3	1917.5	1976.8	2079.0	2084.5	2143.8
45°	1610.5	1605.0	1621.3	1626.5	1669.8	1691.3	1702.1	1745.1	1831.2	1842.0	1847.5
47.5°	1454.4	1448.9	1475.9	1486.6	1502.7	1524.2	1524.2	1529.7	1562.0	1589.0	1567.5
50°	1325.0	1325.0	1325.0	1335.8	1362.8	1357.3	1362.8	1384.3	1400.3	1389.6	1384.3
52.5°	1184.9	1206.4	1222.7	1228.1	1233.4	1233.4	1238.9	1228.1	1222.7	1206.4	1174.1
55°	1088.0	1109.5	1109.5	1109.5	1109.5	1131.1	1104.3	1109.5	1109.5	1066.5	1023.4
57.5°	991.2	1012.7	1028.7	1007.2	1028.7	1007.2	996.4	991.2	980.2	937.1	872.6
60°	910.3	921.1	915.6	910.3	921.1	904.9	894.1	872.6	861.8	802.5	759.5
62.5°	818.8	824.0	829.5	818.8	808.0	802.5	781.0	748.7	727.2	678.6	640.9
65°	743.2	727.2	721.7	716.4	705.7	689.4	673.4	635.6	619.3	576.3	538.5
67.5°	630.1	624.8	635.6	619.3	592.5	592.5	576.3	544.0	506.2	479.4	441.7
70°	538.5	533.2	522.5	506.2	501.0	479.4	479.4	441.7	430.9	382.4	350.1
72.5°	441.7	441.7	425.4	409.4	393.1	382.4	377.1	350.1	334.0	307.0	280.0
75°	334.0	334.0	328.6	312.3	301.5	290.8	285.5	264.0	247.7	220.9	204.7
77.5°	237.0	237.0	215.5	204.7	210.0	199.2	188.4	183.2	177.7	161.6	140.1
80°	140.1	134.6	118.6	123.9	118.6	118.6	113.1	107.6	96.9	86.1	75.3
82.5°	37.8	43.0	43.0	43.0	48.5	37.8	37.8	37.8	43.0	43.0	27.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5	5.5
87.5°	5.5	10.8	21.5	21.5	21.5	21.5	21.5	16.2	16.2	16.2	10.8
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°	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0
2.5°	4546.0	4540.5	4546.0	4508.2	4594.3	4529.8	4519.0	4508.2	4546.0	4508.2	4454.4
5°	4642.9	4589.1	4572.8	4556.8	4605.1	4529.8	4513.7	4519.0	4492.0	4422.1	4427.4
7.5°	4675.2	4626.8	4578.3	4476.0	4519.0	4503.0	4459.7	4427.4	4384.4	4325.1	4314.3
10°	4685.9	4632.1	4562.1	4529.8	4465.2	4443.7	4427.4	4373.6	4319.8	4217.5	4190.4
12.5°	4653.6	4589.1	4503.0	4476.0	4427.4	4357.4	4319.8	4265.8	4217.5	4136.6	4077.3
15°	4513.7	4459.7	4432.9	4341.3	4319.8	4276.5	4201.2	4125.9	4055.8	3948.0	3915.7
17.5°	4352.1	4330.6	4303.6	4233.5	4228.2	4185.2	4115.1	4050.3	3959.0	3791.8	3738.0
20°	4185.2	4185.2	4098.9	4072.1	4125.9	4039.6	3985.8	3926.5	3738.0	3657.2	3560.3
22.5°	4061.3	4002.0	3953.5	3910.4	3915.7	3861.9	3786.6	3668.0	3597.9	3501.0	3387.9
25°	3818.8	3840.4	3732.7	3716.5	3732.7	3608.7	3571.1	3474.0	3371.7	3280.1	3194.0
27.5°	3668.0	3608.7	3538.8	3479.5	3479.5	3431.0	3323.4	3301.8	3145.5	3059.4	2951.5
30°	3441.7	3398.7	3339.4	3253.3	3242.5	3204.8	3118.7	3064.7	2903.2	2773.9	2714.6
32.5°	3156.2	3140.2	3091.7	2994.8	2962.5	2919.3	2811.6	2720.1	2644.7	2499.1	2429.3
35°	2951.5	2892.5	2790.1	2709.3	2682.3	2606.9	2520.6	2456.1	2375.2	2246.1	2154.5
37.5°	2644.7	2585.4	2488.4	2391.5	2391.5	2316.2	2197.6	2133.0	2019.9	1944.3	1869.0
40°	2375.2	2299.9	2203.1	2089.9	2073.7	1965.9	1917.5	1809.7	1739.7	1621.3	1610.5
42.5°	2073.7	2003.6	1917.5	1831.2	1766.7	1712.9	1589.0	1508.2	1432.8	1373.5	1357.3
45°	1798.9	1707.4	1632.0	1524.2	1459.6	1395.1	1314.2	1260.4	1201.1	1136.6	1098.8
47.5°	1562.0	1486.6	1378.8	1281.9	1217.4	1184.9	1093.3	1034.2	985.7	942.6	915.6
50°	1319.7	1228.1	1168.8	1061.0	1050.2	974.9	899.6	851.0	824.0	786.5	748.7
52.5°	1136.6	1050.2	969.4	888.8	845.6	818.8	748.7	700.2	662.6	635.6	614.1
55°	958.7	883.3	818.8	737.9	710.9	673.4	592.5	581.8	544.0	506.2	479.4
57.5°	824.0	754.0	678.6	624.8	576.3	549.5	484.7	441.7	420.1	387.9	360.8
60°	700.2	624.8	565.5	501.0	479.4	441.7	393.1	355.6	328.6	301.5	274.7
62.5°	587.1	522.5	457.9	403.9	371.6	350.1	312.3	280.0	253.2	231.7	210.0
65°	484.7	425.4	371.6	317.8	301.5	274.7	247.7	220.9	199.2	172.4	150.9
67.5°	398.6	344.8	290.8	253.2	237.0	226.2	193.9	166.9	150.9	134.6	113.1
70°	312.3	274.7	231.7	199.2	183.2	166.9	145.4	129.4	107.6	96.9	80.8
72.5°	242.5	210.0	172.4	145.4	134.6	123.9	102.3	86.1	75.3	64.6	53.8
75°	172.4	145.4	123.9	96.9	91.6	86.1	70.1	59.3	48.5	37.8	32.3
77.5°	118.6	96.9	75.3	64.6	59.3	48.5	43.0	32.3	27.0	21.5	16.2
80°	64.6	48.5	37.8	32.3	27.0	21.5	21.5	16.2	10.8	10.8	5.5
82.5°	21.5	16.2	10.8	5.5	5.5	5.5	5.5	5.5	5.5	0.0	5.5
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°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	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°	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0
2.5°	4486.7	4427.4	4443.7	4443.7	4432.9	4432.9	4422.1	4405.9	4411.4	4378.9	4309.0
5°	4438.2	4362.8	4352.1	4362.8	4319.8	4309.0	4287.5	4319.8	4222.7	4260.5	4217.5
7.5°	4298.3	4228.2	4212.0	4249.7	4195.9	4163.4	4158.2	4201.2	4115.1	4072.1	4023.5
10°	4141.9	4115.1	4066.6	4039.6	4023.5	4028.8	3985.8	3931.9	3915.7	3904.9	3861.9
12.5°	4002.0	3942.7	3899.7	3867.4	3856.6	3856.6	3786.6	3775.8	3727.3	3716.5	3651.9
15°	3834.9	3765.0	3738.0	3695.0	3657.2	3678.7	3597.9	3576.4	3560.3	3490.3	3501.0
17.5°	3689.5	3614.1	3549.6	3522.6	3490.3	3458.0	3382.4	3398.7	3360.9	3360.9	3264.1
20°	3501.0	3420.2	3371.7	3317.9	3317.9	3274.8	3221.0	3226.3	3177.8	3129.4	3043.1
22.5°	3301.8	3215.5	3156.2	3134.7	3080.9	3070.1	3005.6	2989.3	2924.7	2930.0	2854.7
25°	3091.7	3005.6	2924.7	2930.0	2881.7	2860.2	2822.4	2747.1	2720.1	2687.8	2666.2
27.5°	2843.9	2784.6	2714.6	2709.3	2617.7	2623.0	2574.7	2553.1	2488.4	2504.6	2456.1
30°	2617.7	2531.6	2466.8	2450.8	2413.0	2402.3	2326.9	2294.4	2305.4	2262.1	2235.3
32.5°	2386.0	2256.9	2229.9	2197.6	2176.0	2149.0	2095.2	2116.7	2068.2	2079.0	2035.9
35°	2079.0	2025.2	1955.1	1955.1	1933.6	1912.1	1874.5	1896.0	1847.5	1826.0	1782.9
37.5°	1820.5	1772.2	1702.1	1723.6	1685.8	1653.6	1621.3	1626.5	1583.5	1578.2	1535.0
40°	1540.4	1513.4	1465.1	1465.1	1438.1	1438.1	1421.9	1405.8	1378.8	1346.5	1298.0
42.5°	1276.5	1254.9	1233.4	1238.9	1201.1	1233.4	1190.4	1217.4	1131.1	1125.8	1093.3
45°	1082.5	1034.2	1039.5	1018.0	996.4	1007.2	969.4	980.2	931.9	921.1	888.8
47.5°	878.1	861.8	829.5	818.8	818.8	802.5	786.5	781.0	759.5	732.5	689.4
50°	721.7	662.6	651.6	635.6	624.8	624.8	603.3	571.0	576.3	549.5	506.2
52.5°	565.5	517.0	495.5	490.2	468.7	457.9	430.9	409.4	393.1	382.4	355.6
55°	436.2	393.1	366.3	366.3	334.0	334.0	296.3	280.0	258.5	237.0	220.9
57.5°	328.6	307.0	280.0	258.5	247.7	220.9	199.2	172.4	156.2	123.9	102.3
60°	247.7	226.2	199.2	183.2	172.4	145.4	118.6	96.9	59.3	48.5	43.0
62.5°	183.2	161.6	134.6	123.9	113.1	91.6	64.6	32.3	16.2	16.2	16.2
65°	134.6	107.6	86.1	75.3	64.6	48.5	21.5	10.8	5.5	5.5	5.5
67.5°	91.6	70.1	48.5	43.0	32.3	16.2	5.5	5.5	5.5	5.5	5.5
70°	59.3	43.0	21.5	16.2	10.8	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	37.8	21.5	10.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.5	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.5	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	5.5	5.5	5.5
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 EX4C909050 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0	4492.0
2.5°	4384.4	4346.6	4368.1	4319.8	4341.3	4378.9	4352.1	4362.8
5°	4233.5	4212.0	4185.2	4115.1	4168.9	4212.0	4190.4	4185.2
7.5°	4072.1	3996.5	4034.3	4012.8	4002.0	4045.1	3996.5	4050.3
10°	3904.9	3851.1	3845.8	3808.1	3808.1	3840.4	3845.8	3813.4
12.5°	3657.2	3630.4	3630.4	3624.9	3619.4	3651.9	3657.2	3641.2
15°	3479.5	3468.8	3441.7	3436.5	3404.2	3452.5	3458.0	3452.5
17.5°	3264.1	3269.3	3242.5	3242.5	3264.1	3280.1	3237.1	3280.1
20°	3118.7	3091.7	3080.9	3032.4	3059.4	3086.4	3086.4	3091.7
22.5°	2908.5	2865.4	2881.7	2854.7	2838.4	2876.2	2876.2	2892.5
25°	2671.5	2671.5	2682.3	2666.2	2677.0	2698.5	2682.3	2720.1
27.5°	2445.3	2466.8	2466.8	2445.3	2456.1	2520.6	2547.7	2504.6
30°	2235.3	2240.6	2256.9	2246.1	2278.4	2299.9	2294.4	2326.9
32.5°	1998.4	2025.2	2035.9	2019.9	2030.7	2079.0	2052.2	2046.7
35°	1815.2	1766.7	1761.4	1766.7	1788.2	1798.9	1788.2	1826.0
37.5°	1551.2	1535.0	1513.4	1518.9	1535.0	1556.7	1567.5	1594.3
40°	1298.0	1276.5	1276.5	1271.2	1254.9	1314.2	1314.2	1314.2
42.5°	1077.3	1071.8	1045.0	1045.0	1066.5	1082.5	1071.8	1109.5
45°	883.3	861.8	845.6	845.6	861.8	861.8	878.1	872.6
47.5°	694.9	673.4	678.6	662.6	678.6	700.2	673.4	678.6
50°	522.5	522.5	511.7	522.5	517.0	522.5	511.7	501.0
52.5°	355.6	403.9	409.4	387.9	339.3	296.3	269.3	290.8
55°	204.7	183.2	183.2	177.7	166.9	161.6	145.4	161.6
57.5°	102.3	91.6	91.6	91.6	86.1	80.8	70.1	70.1
60°	43.0	37.8	37.8	32.3	27.0	21.5	16.2	21.5
62.5°	16.2	10.8	10.8	10.8	10.8	10.8	10.8	10.8
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
67.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
70°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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)