

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: **LD4C80D010 EX4C809050 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: LD4C80D010 EX4C809050 4LBSQLWWH
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

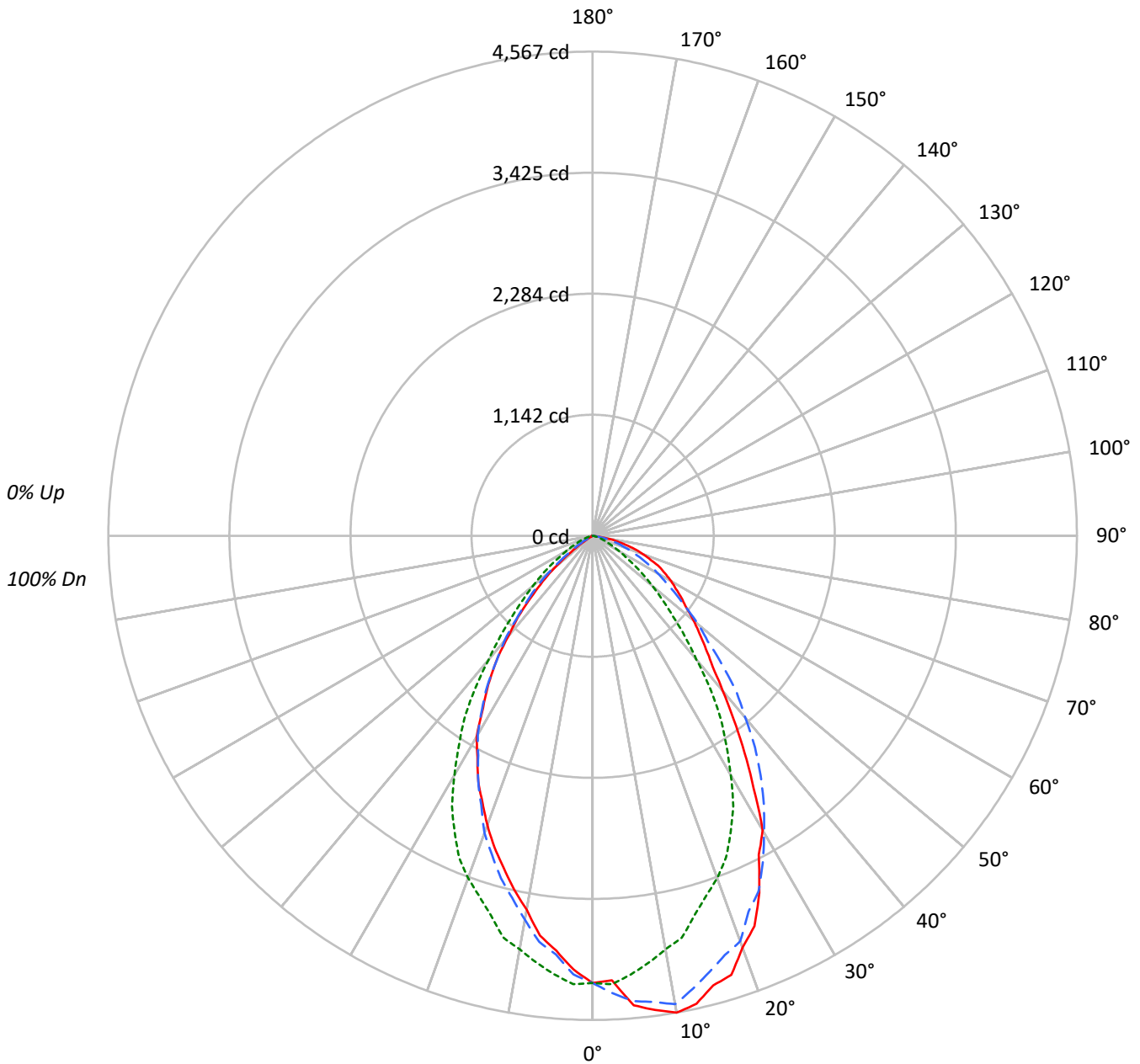
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6046.0 lumens
Efficiency: N/A
Efficacy: 67.6 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): 89.5
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									
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°	406971	406971	406971
5°	430580	402172	380621
10°	447463	387990	350818
15°	438509	370302	323832
20°	424279	352608	298084
25°	395758	327898	271908
30°	357255	290194	243432
35°	294290	248422	201953
40°	240163	191745	155431
45°	206349	145626	111798
50°	186752	110856	70612
55°	171857	79957	25536
60°	164957	54632	3898
65°	159339	36964	1187
70°	142665	25644	1467
75°	116949	13235	0
80°	73125	5612	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.2	6.5
10°-20°	1064.7	17.6
20°-30°	1421.7	23.5
30°-40°	1349.6	22.3
40°-50°	932.9	15.4
50°-60°	515.5	8.5
60°-70°	256.0	4.2
70°-80°	100.8	1.7
80°-90°	9.6	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°	2881.6	47.7
0°-40°	4231.2	70.0
0°-60°	5679.6	93.9
0°-90°	6046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6046.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4218	4218	4218	4218	4218	
5°	4446	4405	4152	3965	3930	426
15°	4390	4258	3707	3343	3242	1242
25°	3717	3702	3080	2554	2554	1695
35°	2498	2761	2109	1735	1714	1565
45°	1512	1735	1067	875	819	1179
55°	1022	961	475	243	152	920
65°	698	506	162	5	5	677
75°	314	192	36	0	0	334
85°	0	5	0	0	0	29
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°	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8
2.5°	4197.6	4313.9	4324.0	4313.9	4329.2	4324.0	4349.4	4324.0	4354.5	4309.0	4319.1
5°	4445.5	4399.9	4496.0	4445.5	4445.5	4440.5	4425.3	4420.1	4440.5	4374.8	4405.1
7.5°	4511.3	4577.1	4663.1	4556.8	4561.8	4561.8	4531.5	4521.4	4521.4	4399.9	4435.4
10°	4567.0	4526.3	4571.9	4531.5	4567.0	4561.8	4582.0	4516.2	4561.8	4491.1	4485.9
12.5°	4521.4	4506.1	4567.0	4501.2	4481.0	4485.9	4460.7	4445.5	4460.7	4379.7	4374.8
15°	4389.8	4405.1	4496.0	4425.3	4415.2	4405.1	4374.8	4324.0	4364.7	4253.3	4258.4
17.5°	4344.4	4319.1	4334.3	4273.5	4288.8	4278.7	4273.5	4228.1	4217.8	4147.1	4147.1
20°	4132.0	4187.5	4187.5	4147.1	4147.1	4142.1	4076.4	4116.8	4071.2	4051.0	4071.2
22.5°	3985.2	3990.4	3990.4	3954.9	3960.0	3939.8	3904.4	3879.0	3904.4	3879.0	3838.6
25°	3717.3	3727.4	3788.1	3722.3	3712.2	3732.4	3702.1	3686.8	3681.9	3621.2	3702.1
27.5°	3393.6	3494.6	3489.7	3464.3	3494.6	3454.2	3439.1	3444.1	3459.3	3454.2	3474.4
30°	3206.5	3221.6	3236.8	3216.6	3221.6	3206.5	3206.5	3211.5	3251.9	3236.8	3231.7
32.5°	2827.1	2877.6	2918.2	2918.2	2923.2	2938.4	2933.3	3039.5	3064.8	3014.3	3004.2
35°	2498.4	2533.8	2569.1	2574.2	2640.0	2645.0	2650.1	2680.5	2751.2	2766.4	2761.3
37.5°	2184.9	2220.2	2230.3	2275.8	2311.3	2346.6	2387.2	2427.6	2488.3	2538.8	2513.6
40°	1906.7	1921.8	1947.1	1967.3	2038.1	2038.1	2058.3	2139.3	2205.1	2245.5	2240.4
42.5°	1674.1	1679.0	1699.3	1734.7	1800.5	1785.3	1800.5	1856.2	1952.1	1957.2	2012.9
45°	1512.2	1507.1	1522.3	1527.3	1567.9	1588.1	1598.2	1638.6	1719.5	1729.6	1734.7
47.5°	1365.6	1360.4	1385.8	1395.9	1411.0	1431.2	1431.2	1436.3	1466.6	1492.0	1471.8
50°	1244.1	1244.1	1244.1	1254.2	1279.6	1274.4	1279.6	1299.8	1314.9	1304.8	1299.8
52.5°	1112.6	1132.8	1148.0	1153.2	1158.1	1158.1	1163.3	1153.2	1148.0	1132.8	1102.5
55°	1021.6	1041.8	1041.8	1041.8	1041.8	1062.0	1036.9	1041.8	1041.8	1001.4	961.0
57.5°	930.7	950.9	965.9	945.7	965.9	945.7	935.6	930.7	920.4	879.9	819.3
60°	854.8	864.9	859.7	854.8	864.9	849.6	839.5	819.3	809.2	753.5	713.1
62.5°	768.8	773.7	778.9	768.8	758.7	753.5	733.3	703.0	682.8	637.2	601.8
65°	697.9	682.8	677.6	672.7	662.6	647.3	632.3	596.8	581.5	541.1	505.7
67.5°	591.6	586.7	596.8	581.5	556.4	556.4	541.1	510.8	475.3	450.2	414.7
70°	505.7	500.7	490.6	475.3	470.4	450.2	450.2	414.7	404.6	359.0	328.7
72.5°	414.7	414.7	399.5	384.4	369.1	359.0	354.1	328.7	313.7	288.3	262.9
75°	313.7	313.7	308.5	293.2	283.1	273.0	268.1	247.9	232.6	207.5	192.2
77.5°	222.5	222.5	202.3	192.2	197.2	187.0	176.9	172.0	166.8	151.8	131.6
80°	131.6	126.4	111.4	116.3	111.4	111.4	106.2	101.1	90.9	80.8	70.7
82.5°	35.5	40.4	40.4	40.4	45.6	35.5	35.5	35.5	40.4	40.4	25.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	5.2	5.2
87.5°	5.2	10.1	20.2	20.2	20.2	20.2	20.2	15.3	15.3	15.3	10.1
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°	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8
2.5°	4268.6	4263.4	4268.6	4233.1	4313.9	4253.3	4243.2	4233.1	4268.6	4233.1	4182.6
5°	4359.5	4309.0	4293.7	4278.7	4324.0	4253.3	4238.2	4243.2	4217.8	4152.2	4157.2
7.5°	4389.8	4344.4	4298.9	4202.8	4243.2	4228.1	4187.5	4157.2	4116.8	4061.1	4051.0
10°	4399.9	4349.4	4283.6	4253.3	4192.7	4172.5	4157.2	4106.7	4056.1	3960.0	3934.7
12.5°	4369.6	4309.0	4228.1	4202.8	4157.2	4091.4	4056.1	4005.4	3960.0	3884.2	3828.5
15°	4238.2	4187.5	4162.3	4076.4	4056.1	4015.5	3944.8	3874.1	3808.3	3707.0	3676.7
17.5°	4086.5	4066.3	4040.9	3975.1	3970.2	3929.7	3863.9	3803.1	3717.3	3560.4	3509.9
20°	3929.7	3929.7	3848.7	3823.5	3874.1	3793.0	3742.5	3686.8	3509.9	3434.0	3343.0
22.5°	3813.4	3757.7	3712.2	3671.8	3676.7	3626.2	3555.4	3444.1	3378.3	3287.4	3181.2
25°	3585.8	3606.0	3504.9	3489.7	3504.9	3388.4	3353.1	3262.0	3165.9	3079.9	2999.1
27.5°	3444.1	3388.4	3322.8	3267.1	3267.1	3221.6	3120.5	3100.3	2953.5	2872.6	2771.4
30°	3231.7	3191.3	3135.6	3054.7	3044.6	3009.2	2928.3	2877.6	2726.0	2604.6	2548.9
32.5°	2963.6	2948.5	2903.0	2812.0	2781.7	2741.1	2640.0	2554.0	2483.3	2346.6	2281.0
35°	2771.4	2715.9	2619.8	2543.9	2518.6	2447.8	2366.8	2306.2	2230.3	2109.0	2023.0
37.5°	2483.3	2427.6	2336.5	2245.5	2245.5	2174.8	2063.4	2002.8	1896.6	1825.7	1754.9
40°	2230.3	2159.5	2068.6	1962.4	1947.1	1845.9	1800.5	1699.3	1633.5	1522.3	1512.2
42.5°	1947.1	1881.3	1800.5	1719.5	1658.8	1608.3	1492.0	1416.1	1345.4	1289.7	1274.4
45°	1689.2	1603.2	1532.4	1431.2	1370.5	1309.9	1234.0	1183.5	1127.8	1067.2	1031.7
47.5°	1466.6	1395.9	1294.7	1203.7	1143.1	1112.6	1026.6	971.1	925.5	885.1	859.7
50°	1239.2	1153.2	1097.5	996.3	986.1	915.4	844.7	799.1	773.7	738.5	703.0
52.5°	1067.2	986.1	910.3	834.6	794.0	768.8	703.0	657.4	622.2	596.8	576.6
55°	900.2	829.4	768.8	692.9	667.5	632.3	556.4	546.3	510.8	475.3	450.2
57.5°	773.7	708.0	637.2	586.7	541.1	516.0	455.1	414.7	394.5	364.2	338.8
60°	657.4	586.7	531.0	470.4	450.2	414.7	369.1	333.9	308.5	283.1	258.0
62.5°	551.2	490.6	430.0	379.2	348.9	328.7	293.2	262.9	237.8	217.6	197.2
65°	455.1	399.5	348.9	298.4	283.1	258.0	232.6	207.5	187.0	161.9	141.7
67.5°	374.3	323.8	273.0	237.8	222.5	212.4	182.1	156.7	141.7	126.4	106.2
70°	293.2	258.0	217.6	187.0	172.0	156.7	136.5	121.5	101.1	90.9	75.9
72.5°	227.7	197.2	161.9	136.5	126.4	116.3	96.1	80.8	70.7	60.6	50.5
75°	161.9	136.5	116.3	90.9	86.0	80.8	65.8	55.7	45.6	35.5	30.3
77.5°	111.4	90.9	70.7	60.6	55.7	45.6	40.4	30.3	25.4	20.2	15.3
80°	60.6	45.6	35.5	30.3	25.4	20.2	20.2	15.3	10.1	10.1	5.2
82.5°	20.2	15.3	10.1	5.2	5.2	5.2	5.2	5.2	5.2	0.0	5.2
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°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	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°	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8
2.5°	4212.9	4157.2	4172.5	4172.5	4162.3	4162.3	4152.2	4137.0	4142.1	4111.6	4046.0
5°	4167.3	4096.6	4086.5	4096.6	4056.1	4046.0	4025.8	4056.1	3965.0	4000.5	3960.0
7.5°	4035.9	3970.2	3954.9	3990.4	3939.8	3909.3	3904.4	3944.8	3863.9	3823.5	3778.0
10°	3889.1	3863.9	3818.4	3793.0	3778.0	3782.9	3742.5	3692.0	3676.7	3666.6	3626.2
12.5°	3757.7	3702.1	3661.6	3631.3	3621.2	3621.2	3555.4	3545.3	3499.8	3489.7	3429.0
15°	3600.8	3535.2	3509.9	3469.4	3434.0	3454.2	3378.3	3358.1	3343.0	3277.3	3287.4
17.5°	3464.3	3393.6	3332.9	3307.6	3277.3	3246.9	3176.0	3191.3	3155.8	3155.8	3064.8
20°	3287.4	3211.5	3165.9	3115.4	3115.4	3075.0	3024.4	3029.4	2983.8	2938.4	2857.4
22.5°	3100.3	3019.3	2963.6	2943.4	2892.9	2882.8	2822.1	2806.9	2746.2	2751.2	2680.5
25°	2903.0	2822.1	2746.2	2751.2	2705.8	2685.6	2650.1	2579.4	2554.0	2523.7	2503.5
27.5°	2670.3	2614.7	2548.9	2543.9	2457.9	2462.9	2417.5	2397.3	2336.5	2351.7	2306.2
30°	2457.9	2377.1	2316.3	2301.2	2265.7	2255.6	2184.9	2154.4	2164.7	2124.1	2098.9
32.5°	2240.4	2119.1	2093.8	2063.4	2043.2	2017.9	1967.3	1987.6	1942.0	1952.1	1911.7
35°	1952.1	1901.6	1835.8	1835.8	1815.6	1795.4	1760.1	1780.3	1734.7	1714.5	1674.1
37.5°	1709.4	1664.0	1598.2	1618.4	1582.9	1552.6	1522.3	1527.3	1486.9	1481.9	1441.3
40°	1446.4	1421.1	1375.7	1375.7	1350.3	1350.3	1335.1	1320.0	1294.7	1264.3	1218.8
42.5°	1198.6	1178.3	1158.1	1163.3	1127.8	1158.1	1117.7	1143.1	1062.0	1057.1	1026.6
45°	1016.5	971.1	976.0	955.8	935.6	945.7	910.3	920.4	875.0	864.9	834.6
47.5°	824.5	809.2	778.9	768.8	768.8	753.5	738.5	733.3	713.1	687.7	647.3
50°	677.6	622.2	611.9	596.8	586.7	586.7	566.5	536.2	541.1	516.0	475.3
52.5°	531.0	485.4	465.2	460.3	440.1	430.0	404.6	384.4	369.1	359.0	333.9
55°	409.6	369.1	344.0	344.0	313.7	313.7	278.2	262.9	242.7	222.5	207.5
57.5°	308.5	288.3	262.9	242.7	232.6	207.5	187.0	161.9	146.6	116.3	96.1
60°	232.6	212.4	187.0	172.0	161.9	136.5	111.4	90.9	55.7	45.6	40.4
62.5°	172.0	151.8	126.4	116.3	106.2	86.0	60.6	30.3	15.3	15.3	15.3
65°	126.4	101.1	80.8	70.7	60.6	45.6	20.2	10.1	5.2	5.2	5.2
67.5°	86.0	65.8	45.6	40.4	30.3	15.3	5.2	5.2	5.2	5.2	5.2
70°	55.7	40.4	20.2	15.3	10.1	5.2	5.2	5.2	5.2	5.2	5.2
72.5°	35.5	20.2	10.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.2	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	5.2	5.2	5.2
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: LD4C80D010 EX4C809050 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8
2.5°	4116.8	4081.3	4101.5	4056.1	4076.4	4111.6	4086.5	4096.6
5°	3975.1	3954.9	3929.7	3863.9	3914.5	3954.9	3934.7	3929.7
7.5°	3823.5	3752.6	3788.1	3767.8	3757.7	3798.2	3752.6	3803.1
10°	3666.6	3616.1	3611.1	3575.7	3575.7	3606.0	3611.1	3580.6
12.5°	3434.0	3408.8	3408.8	3403.7	3398.5	3429.0	3434.0	3418.9
15°	3267.1	3257.0	3231.7	3226.7	3196.4	3241.8	3246.9	3241.8
17.5°	3064.8	3069.8	3044.6	3044.6	3064.8	3079.9	3039.5	3079.9
20°	2928.3	2903.0	2892.9	2847.3	2872.6	2898.0	2898.0	2903.0
22.5°	2731.0	2690.6	2705.8	2680.5	2665.2	2700.7	2700.7	2715.9
25°	2508.5	2508.5	2518.6	2503.5	2513.6	2533.8	2518.6	2554.0
27.5°	2296.1	2316.3	2316.3	2296.1	2306.2	2366.8	2392.2	2351.7
30°	2098.9	2103.9	2119.1	2109.0	2139.3	2159.5	2154.4	2184.9
32.5°	1876.4	1901.6	1911.7	1896.6	1906.7	1952.1	1926.9	1921.8
35°	1704.4	1658.8	1653.9	1658.8	1679.0	1689.2	1679.0	1714.5
37.5°	1456.5	1441.3	1421.1	1426.2	1441.3	1461.7	1471.8	1497.0
40°	1218.8	1198.6	1198.6	1193.6	1178.3	1234.0	1234.0	1234.0
42.5°	1011.5	1006.4	981.2	981.2	1001.4	1016.5	1006.4	1041.8
45°	829.4	809.2	794.0	794.0	809.2	809.2	824.5	819.3
47.5°	652.5	632.3	637.2	622.2	637.2	657.4	632.3	637.2
50°	490.6	490.6	480.5	490.6	485.4	490.6	480.5	470.4
52.5°	333.9	379.2	384.4	364.2	318.6	278.2	252.8	273.0
55°	192.2	172.0	172.0	166.8	156.7	151.8	136.5	151.8
57.5°	96.1	86.0	86.0	86.0	80.8	75.9	65.8	65.8
60°	40.4	35.5	35.5	30.3	25.4	20.2	15.3	20.2
62.5°	15.3	10.1	10.1	10.1	10.1	10.1	10.1	10.1
65°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
67.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
70°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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)