

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 EX4C809030 4LBSQLWWLI**

Issue Date: 2/18/2022



**Test Information**

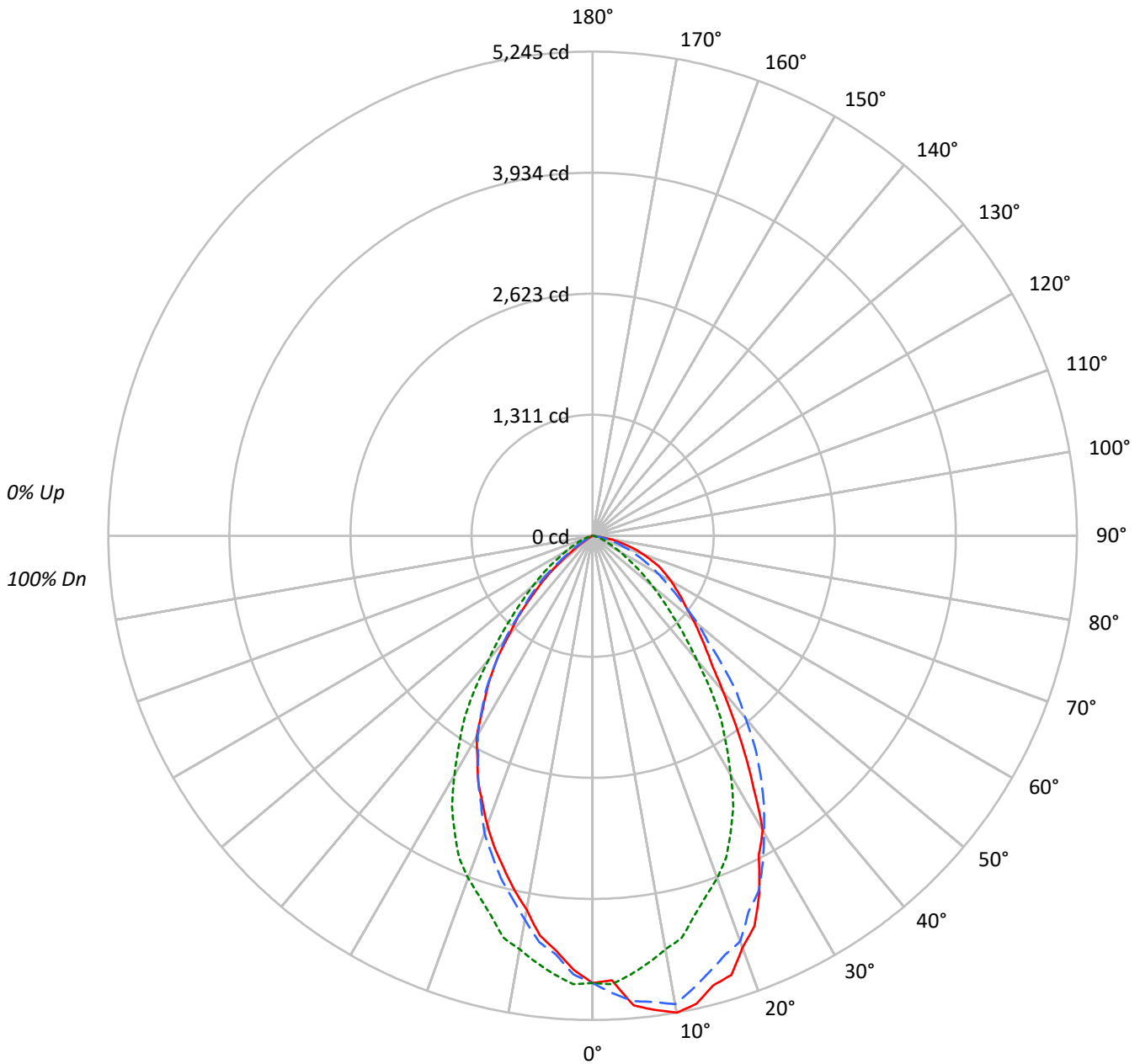
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C80D010 EX4C809030 4LBSQLWWLI  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6944.0 lumens  
Efficiency: N/A  
Efficacy: 77.6 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<sub>in</sub>): 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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CATALOG NUMBER: LD4C80D010 EX4C809030 4LBSQLWWLI

### 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°	467421	467421	467421
5°	494535	461913	437156
10°	513921	445621	402922
15°	503639	425303	371930
20°	487305	404975	342350
25°	454547	376605	312301
30°	410322	333289	279587
35°	337990	285326	231954
40°	275834	220224	178519
45°	236997	167254	128405
50°	214492	127323	81104
55°	197393	91833	29321
60°	189446	62756	4477
65°	182992	42443	1347
70°	163852	29481	1664
75°	134284	15173	0
80°	83960	6446	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.9	6.5
10°-20°	1222.8	17.6
20°-30°	1632.9	23.5
30°-40°	1550.1	22.3
40°-50°	1071.5	15.4
50°-60°	592.0	8.5
60°-70°	294.0	4.2
70°-80°	115.8	1.7
80°-90°	11.0	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°	3309.6	47.7
0°-40°	4859.7	70.0
0°-60°	6523.2	93.9
0°-90°	6944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6944.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4844	4844	4844	4844	4844	
5°	5106	5059	4769	4554	4513	489
15°	5042	4891	4258	3840	3723	1426
25°	4270	4252	3537	2933	2933	1946
35°	2869	3171	2422	1992	1969	1798
45°	1737	1992	1226	1005	941	1355
55°	1173	1104	546	279	174	1056
65°	802	581	186	6	6	778
75°	360	221	41	0	0	384
85°	0	6	0	0	0	33
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809030 4LBSQLWWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3
2.5°	4821.1	4954.7	4966.3	4954.7	4972.2	4966.3	4995.4	4966.3	5001.3	4949.0	4960.6
5°	5105.8	5053.4	5163.8	5105.8	5105.8	5100.1	5082.6	5076.6	5100.1	5024.5	5059.3
7.5°	5181.3	5256.9	5355.6	5233.7	5239.4	5239.4	5204.5	5192.9	5192.9	5053.4	5094.2
10°	5245.3	5198.6	5251.0	5204.5	5245.3	5239.4	5262.6	5187.0	5239.4	5158.1	5152.2
12.5°	5192.9	5175.4	5245.3	5169.7	5146.5	5152.2	5123.3	5105.8	5123.3	5030.2	5024.5
15°	5041.8	5059.3	5163.8	5082.6	5071.0	5059.3	5024.5	4966.3	5012.9	4885.0	4890.9
17.5°	4989.7	4960.6	4978.1	4908.2	4925.8	4914.2	4908.2	4856.1	4844.3	4763.1	4763.1
20°	4745.8	4809.5	4809.5	4763.1	4763.1	4757.4	4681.8	4728.2	4675.9	4652.7	4675.9
22.5°	4577.1	4583.0	4583.0	4542.3	4548.2	4525.0	4484.3	4455.1	4484.3	4455.1	4408.7
25°	4269.5	4281.1	4350.7	4275.1	4263.5	4286.7	4251.9	4234.4	4228.7	4159.1	4251.9
27.5°	3897.6	4013.7	4008.0	3978.8	4013.7	3967.2	3949.9	3955.6	3973.2	3967.2	3990.4
30°	3682.8	3700.1	3717.6	3694.4	3700.1	3682.8	3682.8	3688.5	3734.9	3717.6	3711.7
32.5°	3247.0	3305.0	3351.7	3351.7	3357.3	3374.9	3369.0	3490.9	3520.1	3462.0	3450.4
35°	2869.4	2910.2	2950.7	2956.6	3032.1	3037.8	3043.8	3078.6	3159.8	3177.3	3171.4
37.5°	2509.4	2549.9	2561.5	2613.9	2654.6	2695.1	2741.8	2788.2	2857.8	2915.9	2887.0
40°	2189.9	2207.2	2236.3	2259.5	2340.8	2340.8	2364.0	2457.1	2532.6	2579.1	2573.1
42.5°	1922.7	1928.4	1951.6	1992.4	2067.9	2050.4	2067.9	2131.9	2242.0	2247.9	2311.9
45°	1736.8	1730.9	1748.4	1754.1	1800.8	1824.0	1835.6	1882.0	1974.9	1986.5	1992.4
47.5°	1568.4	1562.5	1591.6	1603.2	1620.5	1643.7	1643.7	1649.7	1684.5	1713.6	1690.4
50°	1428.9	1428.9	1428.9	1440.5	1469.7	1463.7	1469.7	1492.9	1510.2	1498.6	1492.9
52.5°	1277.8	1301.0	1318.5	1324.5	1330.1	1330.1	1336.1	1324.5	1318.5	1301.0	1266.2
55°	1173.4	1196.6	1196.6	1196.6	1196.6	1219.8	1190.9	1196.6	1196.6	1150.1	1103.7
57.5°	1068.9	1092.1	1109.4	1086.2	1109.4	1086.2	1074.6	1068.9	1057.1	1010.6	941.0
60°	981.7	993.3	987.4	981.7	993.3	975.8	964.2	941.0	929.4	865.5	819.0
62.5°	883.0	888.7	894.6	883.0	871.4	865.5	842.2	807.4	784.2	731.9	691.1
65°	801.5	784.2	778.3	772.6	761.0	743.5	726.2	685.4	667.9	621.5	580.8
67.5°	679.5	673.8	685.4	667.9	639.0	639.0	621.5	586.7	545.9	517.0	476.3
70°	580.8	575.1	563.5	545.9	540.3	517.0	517.0	476.3	464.7	412.4	377.5
72.5°	476.3	476.3	458.8	441.5	424.0	412.4	406.7	377.5	360.2	331.1	302.0
75°	360.2	360.2	354.3	336.8	325.2	313.6	307.9	284.7	267.2	238.3	220.7
77.5°	255.6	255.6	232.3	220.7	226.4	214.8	203.2	197.5	191.6	174.3	151.1
80°	151.1	145.2	127.9	133.6	127.9	127.9	122.0	116.1	104.5	92.8	81.2
82.5°	40.7	46.4	46.4	46.4	52.3	40.7	40.7	40.7	46.4	46.4	29.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	5.9	5.9
87.5°	5.9	11.6	23.2	23.2	23.2	23.2	23.2	17.5	17.5	17.5	11.6
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 EX4C809030 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3
2.5°	4902.6	4896.6	4902.6	4861.8	4954.7	4885.0	4873.4	4861.8	4902.6	4861.8	4803.8
5°	5007.0	4949.0	4931.5	4914.2	4966.3	4885.0	4867.7	4873.4	4844.3	4769.0	4774.7
7.5°	5041.8	4989.7	4937.4	4827.0	4873.4	4856.1	4809.5	4774.7	4728.2	4664.3	4652.7
10°	5053.4	4995.4	4919.8	4885.0	4815.4	4792.2	4774.7	4716.6	4658.6	4548.2	4519.1
12.5°	5018.6	4949.0	4856.1	4827.0	4774.7	4699.1	4658.6	4600.3	4548.2	4461.1	4397.1
15°	4867.7	4809.5	4780.6	4681.8	4658.6	4611.9	4530.7	4449.5	4373.9	4257.6	4222.8
17.5°	4693.4	4670.2	4641.1	4565.5	4559.8	4513.4	4437.9	4368.0	4269.5	4089.2	4031.2
20°	4513.4	4513.4	4420.3	4391.4	4449.5	4356.4	4298.4	4234.4	4031.2	3944.0	3839.6
22.5°	4379.8	4315.9	4263.5	4217.1	4222.8	4164.8	4083.5	3955.6	3880.1	3775.6	3653.6
25°	4118.3	4141.6	4025.5	4008.0	4025.5	3891.7	3851.2	3746.5	3636.1	3537.4	3444.5
27.5°	3955.6	3891.7	3816.4	3752.4	3752.4	3700.1	3584.0	3560.8	3392.2	3299.3	3183.0
30°	3711.7	3665.3	3601.3	3508.5	3496.8	3456.1	3363.3	3305.0	3130.9	2991.4	2927.5
32.5°	3403.8	3386.5	3334.1	3229.7	3194.9	3148.2	3032.1	2933.4	2852.1	2695.1	2619.8
35°	3183.0	3119.3	3008.9	2921.8	2892.6	2811.4	2718.3	2648.7	2561.5	2422.3	2323.5
37.5°	2852.1	2788.2	2683.5	2579.1	2579.1	2497.8	2369.9	2300.3	2178.3	2096.8	2015.6
40°	2561.5	2480.3	2375.8	2253.9	2236.3	2120.0	2067.9	1951.6	1876.1	1748.4	1736.8
42.5°	2236.3	2160.8	2067.9	1974.9	1905.2	1847.2	1713.6	1626.4	1545.2	1481.3	1463.7
45°	1940.0	1841.3	1760.0	1643.7	1574.1	1504.5	1417.3	1359.3	1295.3	1225.7	1185.0
47.5°	1684.5	1603.2	1486.9	1382.5	1312.9	1277.8	1179.0	1115.3	1063.0	1016.6	987.4
50°	1423.2	1324.5	1260.5	1144.2	1132.6	1051.4	970.1	917.8	888.7	848.2	807.4
52.5°	1225.7	1132.6	1045.5	958.5	911.9	883.0	807.4	755.1	714.6	685.4	662.2
55°	1033.9	952.6	883.0	795.8	766.7	726.2	639.0	627.4	586.7	545.9	517.0
57.5°	888.7	813.1	731.9	673.8	621.5	592.6	522.7	476.3	453.1	418.3	389.1
60°	755.1	673.8	609.9	540.3	517.0	476.3	424.0	383.5	354.3	325.2	296.3
62.5°	633.1	563.5	493.8	435.6	400.8	377.5	336.8	302.0	273.1	249.9	226.4
65°	522.7	458.8	400.8	342.7	325.2	296.3	267.2	238.3	214.8	185.9	162.7
67.5°	429.9	371.9	313.6	273.1	255.6	244.0	209.1	180.0	162.7	145.2	122.0
70°	336.8	296.3	249.9	214.8	197.5	180.0	156.8	139.5	116.1	104.5	87.2
72.5°	261.5	226.4	185.9	156.8	145.2	133.6	110.4	92.8	81.2	69.6	58.0
75°	185.9	156.8	133.6	104.5	98.8	92.8	75.6	63.9	52.3	40.7	34.8
77.5°	127.9	104.5	81.2	69.6	63.9	52.3	46.4	34.8	29.1	23.2	17.5
80°	69.6	52.3	40.7	34.8	29.1	23.2	23.2	17.5	11.6	11.6	5.9
82.5°	23.2	17.5	11.6	5.9	5.9	5.9	5.9	5.9	5.9	0.0	5.9
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°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	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: LD4C80D010 EX4C809030 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3
2.5°	4838.6	4774.7	4792.2	4792.2	4780.6	4780.6	4769.0	4751.4	4757.4	4722.3	4647.0
5°	4786.3	4705.0	4693.4	4705.0	4658.6	4647.0	4623.8	4658.6	4553.9	4594.6	4548.2
7.5°	4635.4	4559.8	4542.3	4583.0	4525.0	4490.0	4484.3	4530.7	4437.9	4391.4	4339.1
10°	4466.8	4437.9	4385.5	4356.4	4339.1	4344.8	4298.4	4240.3	4222.8	4211.2	4164.8
12.5°	4315.9	4251.9	4205.5	4170.7	4159.1	4159.1	4083.5	4071.9	4019.6	4008.0	3938.3
15°	4135.6	4060.3	4031.2	3984.8	3944.0	3967.2	3880.1	3856.9	3839.6	3764.0	3775.6
17.5°	3978.8	3897.6	3828.0	3798.8	3764.0	3729.2	3647.7	3665.3	3624.5	3624.5	3520.1
20°	3775.6	3688.5	3636.1	3578.1	3578.1	3531.7	3473.6	3479.3	3427.0	3374.9	3281.8
22.5°	3560.8	3467.7	3403.8	3380.6	3322.5	3310.9	3241.3	3223.8	3154.1	3159.8	3078.6
25°	3334.1	3241.3	3154.1	3159.8	3107.7	3084.5	3043.8	2962.5	2933.4	2898.6	2875.4
27.5°	3067.0	3003.0	2927.5	2921.8	2823.0	2828.7	2776.6	2753.4	2683.5	2701.0	2648.7
30°	2823.0	2730.2	2660.3	2643.0	2602.3	2590.7	2509.4	2474.4	2486.2	2439.6	2410.7
32.5°	2573.1	2433.9	2404.7	2369.9	2346.7	2317.6	2259.5	2282.8	2230.4	2242.0	2195.6
35°	2242.0	2184.0	2108.4	2108.4	2085.2	2062.0	2021.5	2044.7	1992.4	1969.2	1922.7
37.5°	1963.3	1911.1	1835.6	1858.8	1818.1	1783.2	1748.4	1754.1	1707.7	1702.0	1655.3
40°	1661.3	1632.1	1580.0	1580.0	1550.9	1550.9	1533.4	1516.1	1486.9	1452.1	1399.8
42.5°	1376.6	1353.4	1330.1	1336.1	1295.3	1330.1	1283.7	1312.9	1219.8	1214.1	1179.0
45°	1167.4	1115.3	1121.0	1097.8	1074.6	1086.2	1045.5	1057.1	1005.0	993.3	958.5
47.5°	946.9	929.4	894.6	883.0	883.0	865.5	848.2	842.2	819.0	789.9	743.5
50°	778.3	714.6	702.7	685.4	673.8	673.8	650.6	615.8	621.5	592.6	545.9
52.5°	609.9	557.5	534.3	528.6	505.4	493.8	464.7	441.5	424.0	412.4	383.5
55°	470.4	424.0	395.1	395.1	360.2	360.2	319.5	302.0	278.8	255.6	238.3
57.5°	354.3	331.1	302.0	278.8	267.2	238.3	214.8	185.9	168.4	133.6	110.4
60°	267.2	244.0	214.8	197.5	185.9	156.8	127.9	104.5	63.9	52.3	46.4
62.5°	197.5	174.3	145.2	133.6	122.0	98.8	69.6	34.8	17.5	17.5	17.5
65°	145.2	116.1	92.8	81.2	69.6	52.3	23.2	11.6	5.9	5.9	5.9
67.5°	98.8	75.6	52.3	46.4	34.8	17.5	5.9	5.9	5.9	5.9	5.9
70°	63.9	46.4	23.2	17.5	11.6	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	40.7	23.2	11.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.2	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.9	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	5.9	5.9	5.9
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 EX4C809030 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3
2.5°	4728.2	4687.5	4710.7	4658.6	4681.8	4722.3	4693.4	4705.0
5°	4565.5	4542.3	4513.4	4437.9	4495.9	4542.3	4519.1	4513.4
7.5°	4391.4	4310.0	4350.7	4327.5	4315.9	4362.3	4310.0	4368.0
10°	4211.2	4153.2	4147.5	4106.7	4106.7	4141.6	4147.5	4112.4
12.5°	3944.0	3915.1	3915.1	3909.2	3903.3	3938.3	3944.0	3926.7
15°	3752.4	3740.8	3711.7	3706.0	3671.2	3723.3	3729.2	3723.3
17.5°	3520.1	3525.7	3496.8	3496.8	3520.1	3537.4	3490.9	3537.4
20°	3363.3	3334.1	3322.5	3270.2	3299.3	3328.4	3328.4	3334.1
22.5°	3136.6	3090.2	3107.7	3078.6	3061.1	3101.8	3101.8	3119.3
25°	2881.0	2881.0	2892.6	2875.4	2887.0	2910.2	2892.6	2933.4
27.5°	2637.1	2660.3	2660.3	2637.1	2648.7	2718.3	2747.5	2701.0
30°	2410.7	2416.3	2433.9	2422.3	2457.1	2480.3	2474.4	2509.4
32.5°	2155.1	2184.0	2195.6	2178.3	2189.9	2242.0	2213.1	2207.2
35°	1957.6	1905.2	1899.5	1905.2	1928.4	1940.0	1928.4	1969.2
37.5°	1672.9	1655.3	1632.1	1638.1	1655.3	1678.8	1690.4	1719.3
40°	1399.8	1376.6	1376.6	1370.9	1353.4	1417.3	1417.3	1417.3
42.5°	1161.7	1155.8	1126.9	1126.9	1150.1	1167.4	1155.8	1196.6
45°	952.6	929.4	911.9	911.9	929.4	929.4	946.9	941.0
47.5°	749.4	726.2	731.9	714.6	731.9	755.1	726.2	731.9
50°	563.5	563.5	551.9	563.5	557.5	563.5	551.9	540.3
52.5°	383.5	435.6	441.5	418.3	365.9	319.5	290.4	313.6
55°	220.7	197.5	197.5	191.6	180.0	174.3	156.8	174.3
57.5°	110.4	98.8	98.8	98.8	92.8	87.2	75.6	75.6
60°	46.4	40.7	40.7	34.8	29.1	23.2	17.5	23.2
62.5°	17.5	11.6	11.6	11.6	11.6	11.6	11.6	11.6
65°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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)