

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 4LBSQLWWLI**

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

Luminaire Equipment: Sample No.   Condition   Description

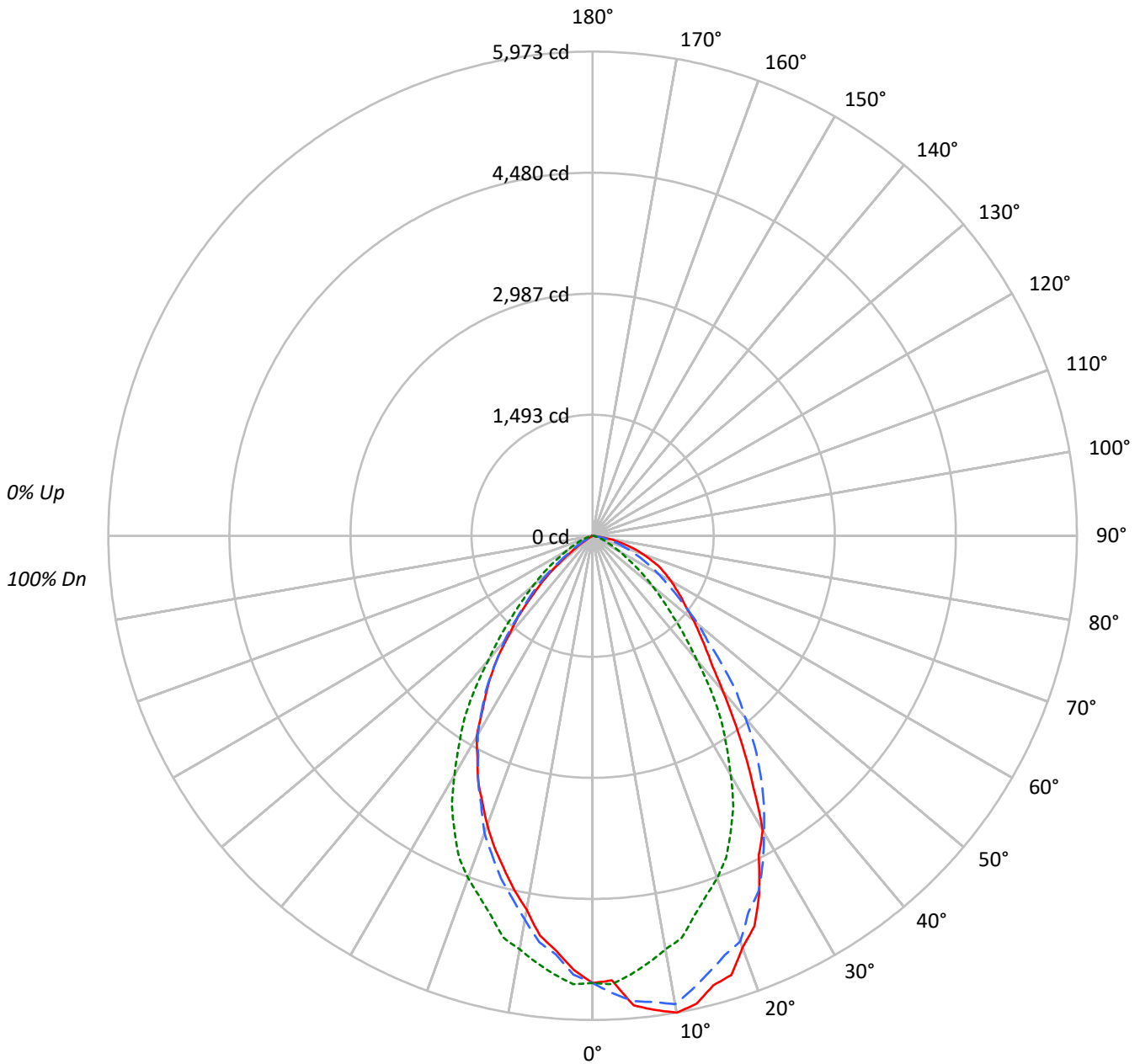
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7908.0 lumens  
Efficiency: N/A  
Efficacy: 69.1 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 (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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### 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°	532310	532310	532310
5°	563187	526033	497847
10°	585258	507484	458858
15°	573564	484350	423565
20°	554952	461203	389881
25°	517648	428878	355653
30°	467278	379560	318404
35°	384918	324927	264147
40°	314125	250794	203308
45°	269896	190479	146226
50°	244274	144991	92363
55°	224780	104584	33392
60°	215749	71460	5095
65°	208403	48334	1530
70°	186591	33572	1890
75°	152962	17298	0
80°	95629	7335	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.9	6.5
10°-20°	1392.6	17.6
20°-30°	1859.6	23.5
30°-40°	1765.3	22.3
40°-50°	1220.2	15.4
50°-60°	674.2	8.5
60°-70°	334.8	4.2
70°-80°	131.9	1.7
80°-90°	12.6	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°	3769.0	47.7
0°-40°	5534.3	70.0
0°-60°	7428.7	93.9
0°-90°	7908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7908.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5517	5517	5517	5517	5517	
5°	5815	5762	5431	5186	5140	557
15°	5742	5570	4849	4373	4240	1624
25°	4862	4842	4028	3341	3341	2217
35°	3268	3612	2758	2269	2242	2047
45°	1978	2269	1396	1144	1072	1543
55°	1336	1257	622	318	198	1203
65°	913	661	212	7	7	886
75°	410	251	46	0	0	437
85°	0	7	0	0	0	38
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°	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8
2.5°	5490.4	5642.5	5655.7	5642.5	5662.5	5655.7	5688.9	5655.7	5695.6	5636.0	5649.2
5°	5814.6	5755.0	5880.7	5814.6	5814.6	5808.1	5788.1	5781.4	5808.1	5722.1	5761.7
7.5°	5900.6	5986.7	6099.1	5960.2	5966.7	5966.7	5927.1	5913.8	5913.8	5755.0	5801.4
10°	5973.4	5920.3	5979.9	5927.1	5973.4	5966.7	5993.1	5907.1	5966.7	5874.2	5867.4
12.5°	5913.8	5893.9	5973.4	5887.4	5861.0	5867.4	5834.5	5814.6	5834.5	5728.5	5722.1
15°	5741.8	5761.7	5880.7	5788.1	5774.9	5761.7	5722.1	5655.7	5708.8	5563.2	5569.9
17.5°	5682.4	5649.2	5669.2	5589.6	5609.6	5596.4	5589.6	5530.3	5516.8	5424.3	5424.3
20°	5404.6	5477.1	5477.1	5424.3	5424.3	5417.8	5331.8	5384.6	5325.0	5298.6	5325.0
22.5°	5212.5	5219.3	5219.3	5172.9	5179.6	5153.2	5106.8	5073.6	5106.8	5073.6	5020.8
25°	4862.2	4875.4	4954.7	4868.6	4855.4	4881.9	4842.2	4822.2	4815.8	4736.5	4842.2
27.5°	4438.7	4570.9	4564.4	4531.2	4570.9	4518.0	4498.3	4504.8	4524.7	4518.0	4544.4
30°	4194.0	4213.7	4233.7	4207.3	4213.7	4194.0	4194.0	4200.5	4253.4	4233.7	4226.9
32.5°	3697.7	3763.8	3817.0	3817.0	3823.4	3843.4	3836.6	3975.6	4008.7	3942.6	3929.4
35°	3267.8	3314.2	3360.3	3367.0	3453.1	3459.6	3466.3	3506.0	3598.5	3618.4	3611.7
37.5°	2857.8	2903.9	2917.1	2976.7	3023.1	3069.3	3122.4	3175.3	3254.6	3320.7	3287.7
40°	2493.9	2513.6	2546.8	2573.2	2665.8	2665.8	2692.2	2798.2	2884.2	2937.1	2930.4
42.5°	2189.7	2196.1	2222.6	2269.0	2355.0	2335.1	2355.0	2427.8	2553.3	2560.0	2632.8
45°	1977.9	1971.2	1991.1	1997.6	2050.8	2077.2	2090.4	2143.3	2249.0	2262.2	2269.0
47.5°	1786.2	1779.4	1812.6	1825.8	1845.5	1871.9	1871.9	1878.7	1918.3	1951.5	1925.1
50°	1627.3	1627.3	1627.3	1640.5	1673.7	1666.9	1673.7	1700.1	1719.8	1706.6	1700.1
52.5°	1455.2	1481.6	1501.6	1508.3	1514.8	1514.8	1521.5	1508.3	1501.6	1481.6	1442.0
55°	1336.2	1362.7	1362.7	1362.7	1362.7	1389.1	1356.2	1362.7	1362.7	1309.8	1256.9
57.5°	1217.3	1243.7	1263.4	1237.0	1263.4	1237.0	1223.8	1217.3	1203.8	1150.9	1071.6
60°	1118.0	1131.2	1124.5	1118.0	1131.2	1111.3	1098.1	1071.6	1058.4	985.6	932.7
62.5°	1005.6	1012.0	1018.8	1005.6	992.3	985.6	959.2	919.5	893.1	833.5	787.1
65°	912.8	893.1	886.3	879.9	866.6	846.7	827.0	780.6	760.6	707.8	661.4
67.5°	773.9	767.4	780.6	760.6	727.7	727.7	707.8	668.1	621.7	588.8	542.4
70°	661.4	654.9	641.7	621.7	615.3	588.8	588.8	542.4	529.2	469.6	430.0
72.5°	542.4	542.4	522.5	502.8	482.8	469.6	463.1	430.0	410.3	377.1	343.9
75°	410.3	410.3	403.5	383.6	370.3	357.1	350.6	324.2	304.3	271.3	251.4
77.5°	291.0	291.0	264.6	251.4	257.9	244.6	231.4	225.0	218.2	198.5	172.1
80°	172.1	165.3	145.6	152.1	145.6	145.6	138.9	132.2	119.0	105.7	92.5
82.5°	46.4	52.9	52.9	52.9	59.6	46.4	46.4	46.4	52.9	52.9	33.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7	6.7
87.5°	6.7	13.2	26.4	26.4	26.4	26.4	26.4	20.0	20.0	20.0	13.2
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°	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8
2.5°	5583.1	5576.4	5583.1	5536.8	5642.5	5563.2	5550.0	5536.8	5583.1	5536.8	5470.7
5°	5702.1	5636.0	5616.1	5596.4	5655.7	5563.2	5543.5	5550.0	5516.8	5431.0	5437.5
7.5°	5741.8	5682.4	5622.8	5497.1	5550.0	5530.3	5477.1	5437.5	5384.6	5311.8	5298.6
10°	5755.0	5688.9	5602.8	5563.2	5483.9	5457.5	5437.5	5371.4	5305.3	5179.6	5146.5
12.5°	5715.3	5636.0	5530.3	5497.1	5437.5	5351.5	5305.3	5239.0	5179.6	5080.4	5007.5
15°	5543.5	5477.1	5444.2	5331.8	5305.3	5252.2	5159.7	5067.2	4981.1	4848.7	4809.0
17.5°	5345.0	5318.5	5285.4	5199.3	5192.8	5140.0	5053.9	4974.4	4862.2	4656.9	4590.8
20°	5140.0	5140.0	5034.0	5001.1	5067.2	4961.2	4895.1	4822.2	4590.8	4491.6	4372.6
22.5°	4987.9	4915.0	4855.4	4802.5	4809.0	4742.9	4650.4	4504.8	4418.7	4299.8	4160.9
25°	4690.1	4716.5	4584.3	4564.4	4584.3	4431.9	4385.8	4266.6	4140.9	4028.4	3922.7
27.5°	4504.8	4431.9	4346.2	4273.3	4273.3	4213.7	4081.6	4055.1	3863.1	3757.3	3624.9
30°	4226.9	4174.1	4101.3	3995.5	3982.3	3935.9	3830.2	3763.8	3565.6	3406.7	3333.9
32.5°	3876.3	3856.6	3797.0	3678.0	3638.4	3585.3	3453.1	3340.6	3248.1	3069.3	2983.5
35°	3624.9	3552.3	3426.7	3327.4	3294.2	3201.7	3095.7	3016.4	2917.1	2758.5	2646.1
37.5°	3248.1	3175.3	3056.0	2937.1	2937.1	2844.6	2698.9	2619.6	2480.7	2387.9	2295.4
40°	2917.1	2824.6	2705.7	2566.7	2546.8	2414.4	2355.0	2222.6	2136.5	1991.1	1977.9
42.5°	2546.8	2460.8	2355.0	2249.0	2169.7	2103.6	1951.5	1852.2	1759.7	1686.9	1666.9
45°	2209.4	2096.9	2004.4	1871.9	1792.6	1713.3	1614.1	1548.0	1475.2	1395.9	1349.5
47.5°	1918.3	1825.8	1693.4	1574.4	1495.1	1455.2	1342.7	1270.2	1210.6	1157.7	1124.5
50°	1620.8	1508.3	1435.5	1303.1	1289.9	1197.3	1104.8	1045.2	1012.0	965.9	919.5
52.5°	1395.9	1289.9	1190.6	1091.6	1038.5	1005.6	919.5	859.9	813.8	780.6	754.2
55°	1177.4	1084.9	1005.6	906.3	873.1	827.0	727.7	714.5	668.1	621.7	588.8
57.5°	1012.0	926.0	833.5	767.4	707.8	674.9	595.3	542.4	516.0	476.3	443.2
60°	859.9	767.4	694.6	615.3	588.8	542.4	482.8	436.7	403.5	370.3	337.4
62.5°	721.0	641.7	562.4	496.0	456.4	430.0	383.6	343.9	311.0	284.6	257.9
65°	595.3	522.5	456.4	390.3	370.3	337.4	304.3	271.3	244.6	211.7	185.3
67.5°	489.6	423.5	357.1	311.0	291.0	277.8	238.2	205.0	185.3	165.3	138.9
70°	383.6	337.4	284.6	244.6	225.0	205.0	178.6	158.9	132.2	119.0	99.3
72.5°	297.8	257.9	211.7	178.6	165.3	152.1	125.7	105.7	92.5	79.3	66.1
75°	211.7	178.6	152.1	119.0	112.5	105.7	86.0	72.8	59.6	46.4	39.7
77.5°	145.6	119.0	92.5	79.3	72.8	59.6	52.9	39.7	33.2	26.4	20.0
80°	79.3	59.6	46.4	39.7	33.2	26.4	26.4	20.0	13.2	13.2	6.7
82.5°	26.4	20.0	13.2	6.7	6.7	6.7	6.7	6.7	6.7	0.0	6.7
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°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	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°	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8
2.5°	5510.3	5437.5	5457.5	5457.5	5444.2	5444.2	5431.0	5411.1	5417.8	5377.9	5292.1
5°	5450.7	5358.2	5345.0	5358.2	5305.3	5292.1	5265.7	5305.3	5186.1	5232.5	5179.6
7.5°	5278.9	5192.8	5172.9	5219.3	5153.2	5113.3	5106.8	5159.7	5053.9	5001.1	4941.5
10°	5086.9	5053.9	4994.3	4961.2	4941.5	4947.9	4895.1	4829.0	4809.0	4795.8	4742.9
12.5°	4915.0	4842.2	4789.3	4749.7	4736.5	4736.5	4650.4	4637.2	4577.6	4564.4	4485.1
15°	4709.8	4624.0	4590.8	4537.9	4491.6	4518.0	4418.7	4392.3	4372.6	4286.6	4299.8
17.5°	4531.2	4438.7	4359.4	4326.2	4286.6	4246.9	4154.1	4174.1	4127.7	4127.7	4008.7
20°	4299.8	4200.5	4140.9	4074.8	4074.8	4021.9	3955.9	3962.3	3902.7	3843.4	3737.4
22.5°	4055.1	3949.1	3876.3	3849.9	3783.8	3770.6	3691.3	3671.3	3592.0	3598.5	3506.0
25°	3797.0	3691.3	3592.0	3598.5	3539.1	3512.7	3466.3	3373.8	3340.6	3301.0	3274.5
27.5°	3492.7	3419.9	3333.9	3327.4	3214.9	3221.4	3162.0	3135.6	3056.0	3076.0	3016.4
30°	3214.9	3109.2	3029.6	3009.9	2963.5	2950.3	2857.8	2817.9	2831.4	2778.2	2745.3
32.5°	2930.4	2771.7	2738.6	2698.9	2672.5	2639.3	2573.2	2599.7	2540.1	2553.3	2500.4
35°	2553.3	2487.2	2401.1	2401.1	2374.7	2348.3	2302.1	2328.6	2269.0	2242.5	2189.7
37.5°	2235.8	2176.5	2090.4	2116.8	2070.5	2030.8	1991.1	1997.6	1944.8	1938.3	1885.2
40°	1891.9	1858.7	1799.4	1799.4	1766.2	1766.2	1746.2	1726.5	1693.4	1653.7	1594.1
42.5°	1567.7	1541.2	1514.8	1521.5	1475.2	1514.8	1461.9	1495.1	1389.1	1382.6	1342.7
45°	1329.5	1270.2	1276.6	1250.2	1223.8	1237.0	1190.6	1203.8	1144.5	1131.2	1091.6
47.5°	1078.4	1058.4	1018.8	1005.6	1005.6	985.6	965.9	959.2	932.7	899.6	846.7
50°	886.3	813.8	800.3	780.6	767.4	767.4	740.9	701.3	707.8	674.9	621.7
52.5°	694.6	634.9	608.5	602.0	575.6	562.4	529.2	502.8	482.8	469.6	436.7
55°	535.7	482.8	449.9	449.9	410.3	410.3	363.9	343.9	317.5	291.0	271.3
57.5°	403.5	377.1	343.9	317.5	304.3	271.3	244.6	211.7	191.8	152.1	125.7
60°	304.3	277.8	244.6	225.0	211.7	178.6	145.6	119.0	72.8	59.6	52.9
62.5°	225.0	198.5	165.3	152.1	138.9	112.5	79.3	39.7	20.0	20.0	20.0
65°	165.3	132.2	105.7	92.5	79.3	59.6	26.4	13.2	6.7	6.7	6.7
67.5°	112.5	86.0	59.6	52.9	39.7	20.0	6.7	6.7	6.7	6.7	6.7
70°	72.8	52.9	26.4	20.0	13.2	6.7	6.7	6.7	6.7	6.7	6.7
72.5°	46.4	26.4	13.2	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.4	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.2	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.7	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	6.7	6.7	6.7
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 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8	5516.8
2.5°	5384.6	5338.2	5364.7	5305.3	5331.8	5377.9	5345.0	5358.2
5°	5199.3	5172.9	5140.0	5053.9	5120.0	5172.9	5146.5	5140.0
7.5°	5001.1	4908.3	4954.7	4928.2	4915.0	4967.9	4908.3	4974.4
10°	4795.8	4729.7	4723.2	4676.9	4676.9	4716.5	4723.2	4683.3
12.5°	4491.6	4458.6	4458.6	4451.9	4445.2	4485.1	4491.6	4471.9
15°	4273.3	4260.1	4226.9	4220.5	4180.8	4240.2	4246.9	4240.2
17.5°	4008.7	4015.2	3982.3	3982.3	4008.7	4028.4	3975.6	4028.4
20°	3830.2	3797.0	3783.8	3724.2	3757.3	3790.5	3790.5	3797.0
22.5°	3572.0	3519.2	3539.1	3506.0	3486.0	3532.4	3532.4	3552.3
25°	3281.0	3281.0	3294.2	3274.5	3287.7	3314.2	3294.2	3340.6
27.5°	3003.2	3029.6	3029.6	3003.2	3016.4	3095.7	3128.9	3076.0
30°	2745.3	2751.8	2771.7	2758.5	2798.2	2824.6	2817.9	2857.8
32.5°	2454.3	2487.2	2500.4	2480.7	2493.9	2553.3	2520.4	2513.6
35°	2229.3	2169.7	2163.2	2169.7	2196.1	2209.4	2196.1	2242.5
37.5°	1905.1	1885.2	1858.7	1865.5	1885.2	1911.8	1925.1	1958.0
40°	1594.1	1567.7	1567.7	1561.2	1541.2	1614.1	1614.1	1614.1
42.5°	1323.0	1316.3	1283.4	1283.4	1309.8	1329.5	1316.3	1362.7
45°	1084.9	1058.4	1038.5	1038.5	1058.4	1058.4	1078.4	1071.6
47.5°	853.4	827.0	833.5	813.8	833.5	859.9	827.0	833.5
50°	641.7	641.7	628.5	641.7	634.9	641.7	628.5	615.3
52.5°	436.7	496.0	502.8	476.3	416.7	363.9	330.7	357.1
55°	251.4	225.0	225.0	218.2	205.0	198.5	178.6	198.5
57.5°	125.7	112.5	112.5	112.5	105.7	99.3	86.0	86.0
60°	52.9	46.4	46.4	39.7	33.2	26.4	20.0	26.4
62.5°	20.0	13.2	13.2	13.2	13.2	13.2	13.2	13.2
65°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
67.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
70°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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)