

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: **LD4C75D010 EX4C759030 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: LD4C75D010 EX4C759030 4LBSQLWWLI
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

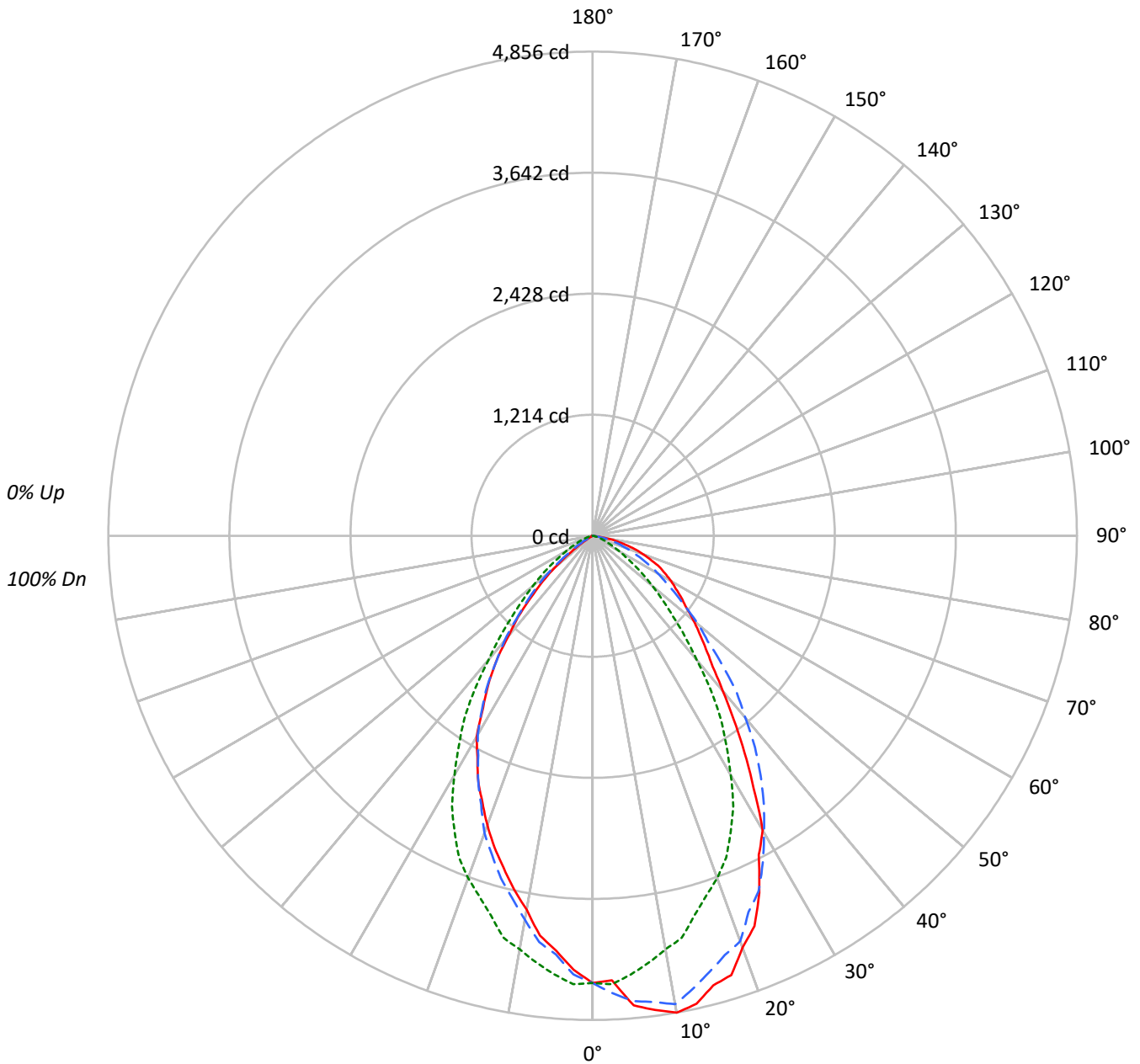
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6429.0 lumens
Efficiency: N/A
Efficacy: 78.9 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): 81.5
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				20				
RC	80				70				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			100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53			53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	432753	432753	432753
5°	457855	427655	404738
10°	475808	412573	373039
15°	466289	393767	344340
20°	451161	374941	316967
25°	420830	348669	289134
30°	379883	308577	258852
35°	312924	264159	214745
40°	255378	203900	165281
45°	219421	154850	118880
50°	198581	117881	75085
55°	182741	85037	27151
60°	175398	58106	4149
65°	169430	39293	1256
70°	151693	27280	1552
75°	124330	14055	0
80°	77736	5946	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.2	6.5
10°-20°	1132.1	17.6
20°-30°	1511.8	23.5
30°-40°	1435.1	22.3
40°-50°	992.0	15.4
50°-60°	548.1	8.5
60°-70°	272.2	4.2
70°-80°	107.2	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°	3064.1	47.7
0°-40°	4499.3	70.0
0°-60°	6039.4	93.9
0°-90°	6429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6429.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4485	4485	4485	4485	4485	
5°	4727	4684	4415	4216	4179	453
15°	4668	4528	3942	3555	3447	1320
25°	3953	3937	3275	2716	2716	1802
35°	2657	2936	2243	1845	1823	1664
45°	1608	1845	1135	930	871	1254
55°	1086	1022	506	258	161	978
65°	742	538	172	6	6	720
75°	334	204	38	0	0	355
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°	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0
2.5°	4463.5	4587.2	4597.9	4587.2	4603.4	4597.9	4624.9	4597.9	4630.4	4581.9	4592.7
5°	4727.1	4678.6	4780.8	4727.1	4727.1	4721.8	4705.6	4700.1	4721.8	4651.9	4684.1
7.5°	4797.1	4867.0	4958.4	4845.5	4850.8	4850.8	4818.5	4807.8	4807.8	4678.6	4716.4
10°	4856.3	4813.1	4861.5	4818.5	4856.3	4850.8	4872.3	4802.3	4850.8	4775.6	4770.1
12.5°	4807.8	4791.6	4856.3	4786.3	4764.8	4770.1	4743.3	4727.1	4743.3	4657.2	4651.9
15°	4667.9	4684.1	4780.8	4705.6	4694.9	4684.1	4651.9	4597.9	4641.1	4522.7	4528.2
17.5°	4619.7	4592.7	4608.9	4544.2	4560.4	4549.7	4544.2	4496.0	4485.0	4409.8	4409.8
20°	4393.8	4452.8	4452.8	4409.8	4409.8	4404.5	4334.6	4377.6	4329.1	4307.6	4329.1
22.5°	4237.7	4243.1	4243.1	4205.4	4210.9	4189.4	4151.7	4124.7	4151.7	4124.7	4081.8
25°	3952.8	3963.6	4028.0	3958.1	3947.3	3968.8	3936.6	3920.4	3915.1	3850.6	3936.6
27.5°	3608.5	3716.0	3710.7	3683.8	3716.0	3673.0	3657.0	3662.3	3678.5	3673.0	3694.5
30°	3409.6	3425.7	3441.9	3420.4	3425.7	3409.6	3409.6	3414.9	3457.9	3441.9	3436.4
32.5°	3006.2	3059.9	3103.1	3103.1	3108.4	3124.6	3119.1	3232.0	3259.0	3205.3	3194.5
35°	2656.6	2694.3	2731.8	2737.3	2807.3	2812.5	2818.0	2850.3	2925.5	2941.7	2936.2
37.5°	2323.3	2360.8	2371.6	2420.0	2457.7	2495.2	2538.4	2581.4	2645.9	2699.6	2672.8
40°	2027.5	2043.5	2070.5	2092.0	2167.2	2167.2	2188.7	2274.9	2344.8	2387.8	2382.3
42.5°	1780.1	1785.4	1806.9	1844.6	1914.6	1898.3	1914.6	1973.8	2075.7	2081.2	2140.4
45°	1608.0	1602.5	1618.8	1624.0	1667.2	1688.7	1699.4	1742.4	1828.4	1839.1	1844.6
47.5°	1452.1	1446.6	1473.6	1484.3	1500.3	1521.8	1521.8	1527.3	1559.5	1586.5	1565.0
50°	1322.9	1322.9	1322.9	1333.7	1360.7	1355.2	1360.7	1382.1	1398.2	1387.4	1382.1
52.5°	1183.0	1204.5	1220.8	1226.2	1231.5	1231.5	1237.0	1226.2	1220.8	1204.5	1172.3
55°	1086.3	1107.8	1107.8	1107.8	1107.8	1129.3	1102.6	1107.8	1107.8	1064.8	1021.9
57.5°	989.6	1011.1	1027.1	1005.6	1027.1	1005.6	994.9	989.6	978.7	935.7	871.2
60°	908.9	919.7	914.2	908.9	919.7	903.5	892.7	871.2	860.5	801.3	758.3
62.5°	817.5	822.8	828.2	817.5	806.7	801.3	779.8	747.5	726.0	677.6	639.9
65°	742.1	726.0	720.6	715.3	704.6	688.3	672.3	634.6	618.4	575.4	537.7
67.5°	629.1	623.9	634.6	618.4	591.6	591.6	575.4	543.2	505.5	478.7	441.0
70°	537.7	532.4	521.7	505.5	500.2	478.7	478.7	441.0	430.2	381.8	349.5
72.5°	441.0	441.0	424.8	408.7	392.5	381.8	376.5	349.5	333.5	306.6	279.6
75°	333.5	333.5	328.0	311.8	301.1	290.3	285.1	263.6	247.4	220.6	204.4
77.5°	236.6	236.6	215.1	204.4	209.6	198.9	188.1	182.9	177.4	161.4	139.9
80°	139.9	134.4	118.4	123.7	118.4	118.4	112.9	107.5	96.7	86.0	75.2
82.5°	37.7	43.0	43.0	43.0	48.5	37.7	37.7	37.7	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	10.7	21.5	21.5	21.5	21.5	21.5	16.2	16.2	16.2	10.7
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°	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0
2.5°	4539.0	4533.5	4539.0	4501.2	4587.2	4522.7	4512.0	4501.2	4539.0	4501.2	4447.5
5°	4635.7	4581.9	4565.7	4549.7	4597.9	4522.7	4506.7	4512.0	4485.0	4415.3	4420.5
7.5°	4667.9	4619.7	4571.2	4469.0	4512.0	4496.0	4452.8	4420.5	4377.6	4318.4	4307.6
10°	4678.6	4624.9	4555.0	4522.7	4458.3	4436.8	4420.5	4366.8	4313.1	4210.9	4183.9
12.5°	4646.4	4581.9	4496.0	4469.0	4420.5	4350.6	4313.1	4259.2	4210.9	4130.2	4071.0
15°	4506.7	4452.8	4426.0	4334.6	4313.1	4269.9	4194.7	4119.5	4049.5	3941.9	3909.6
17.5°	4345.3	4323.8	4296.9	4226.9	4221.7	4178.7	4108.7	4044.0	3952.8	3785.9	3732.2
20°	4178.7	4178.7	4092.5	4065.7	4119.5	4033.3	3979.6	3920.4	3732.2	3651.5	3554.8
22.5°	4055.0	3995.8	3947.3	3904.3	3909.6	3855.9	3780.7	3662.3	3592.3	3495.6	3382.7
25°	3812.9	3834.4	3726.9	3710.7	3726.9	3603.1	3565.6	3468.6	3366.4	3275.0	3189.0
27.5°	3662.3	3603.1	3533.3	3474.1	3474.1	3425.7	3318.2	3296.7	3140.6	3054.6	2947.0
30°	3436.4	3393.4	3334.2	3248.3	3237.5	3199.8	3113.8	3059.9	2898.7	2769.6	2710.4
32.5°	3151.3	3135.3	3086.9	2990.2	2957.9	2914.7	2807.3	2715.8	2640.6	2495.2	2425.5
35°	2947.0	2888.0	2785.8	2705.1	2678.1	2602.9	2516.7	2452.3	2371.6	2242.6	2151.2
37.5°	2640.6	2581.4	2484.5	2387.8	2387.8	2312.6	2194.2	2129.7	2016.8	1941.3	1866.1
40°	2371.6	2296.3	2199.6	2086.7	2070.5	1962.8	1914.6	1806.9	1737.0	1618.8	1608.0
42.5°	2070.5	2000.5	1914.6	1828.4	1763.9	1710.2	1586.5	1505.8	1430.6	1371.4	1355.2
45°	1796.2	1704.7	1629.5	1521.8	1457.4	1392.9	1312.2	1258.5	1199.3	1134.8	1097.1
47.5°	1559.5	1484.3	1376.7	1280.0	1215.5	1183.0	1091.6	1032.6	984.1	941.2	914.2
50°	1317.7	1226.2	1167.0	1059.4	1048.6	973.4	898.2	849.7	822.8	785.3	747.5
52.5°	1134.8	1048.6	967.9	887.4	844.2	817.5	747.5	699.1	661.6	634.6	613.1
55°	957.2	882.0	817.5	736.8	709.8	672.3	591.6	580.9	543.2	505.5	478.7
57.5°	822.8	752.8	677.6	623.9	575.4	548.6	484.0	441.0	419.5	387.3	360.3
60°	699.1	623.9	564.7	500.2	478.7	441.0	392.5	355.0	328.0	301.1	274.3
62.5°	586.1	521.7	457.2	403.3	371.0	349.5	311.8	279.6	252.8	231.3	209.6
65°	484.0	424.8	371.0	317.3	301.1	274.3	247.4	220.6	198.9	172.1	150.6
67.5°	398.0	344.3	290.3	252.8	236.6	225.9	193.6	166.7	150.6	134.4	112.9
70°	311.8	274.3	231.3	198.9	182.9	166.7	145.2	129.2	107.5	96.7	80.7
72.5°	242.1	209.6	172.1	145.2	134.4	123.7	102.2	86.0	75.2	64.5	53.7
75°	172.1	145.2	123.7	96.7	91.4	86.0	70.0	59.2	48.5	37.7	32.2
77.5°	118.4	96.7	75.2	64.5	59.2	48.5	43.0	32.2	27.0	21.5	16.2
80°	64.5	48.5	37.7	32.2	27.0	21.5	21.5	16.2	10.7	10.7	5.5
82.5°	21.5	16.2	10.7	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°	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0
2.5°	4479.8	4420.5	4436.8	4436.8	4426.0	4426.0	4415.3	4399.1	4404.5	4372.1	4302.3
5°	4431.3	4356.1	4345.3	4356.1	4313.1	4302.3	4280.9	4313.1	4216.2	4253.9	4210.9
7.5°	4291.6	4221.7	4205.4	4243.1	4189.4	4157.0	4151.7	4194.7	4108.7	4065.7	4017.3
10°	4135.5	4108.7	4060.3	4033.3	4017.3	4022.5	3979.6	3925.8	3909.6	3898.9	3855.9
12.5°	3995.8	3936.6	3893.6	3861.4	3850.6	3850.6	3780.7	3769.9	3721.5	3710.7	3646.2
15°	3828.9	3759.2	3732.2	3689.2	3651.5	3673.0	3592.3	3570.8	3554.8	3484.9	3495.6
17.5°	3683.8	3608.5	3544.1	3517.1	3484.9	3452.6	3377.2	3393.4	3355.7	3355.7	3259.0
20°	3495.6	3414.9	3366.4	3312.7	3312.7	3269.7	3216.0	3221.3	3172.8	3124.6	3038.4
22.5°	3296.7	3210.5	3151.3	3129.8	3076.1	3065.4	3000.9	2984.7	2920.2	2925.5	2850.3
25°	3086.9	3000.9	2920.2	2925.5	2877.2	2855.7	2818.0	2742.8	2715.8	2683.6	2662.1
27.5°	2839.5	2780.3	2710.4	2705.1	2613.6	2618.9	2570.7	2549.2	2484.5	2500.7	2452.3
30°	2613.6	2527.7	2463.0	2447.0	2409.3	2398.5	2323.3	2290.9	2301.8	2258.6	2231.9
32.5°	2382.3	2253.4	2226.4	2194.2	2172.7	2145.7	2092.0	2113.5	2065.0	2075.7	2032.8
35°	2075.7	2022.0	1952.1	1952.1	1930.6	1909.1	1871.6	1893.1	1844.6	1823.1	1780.1
37.5°	1817.6	1769.4	1699.4	1720.9	1683.2	1651.0	1618.8	1624.0	1581.0	1575.8	1532.6
40°	1538.1	1511.1	1462.8	1462.8	1435.9	1435.9	1419.6	1403.6	1376.7	1344.4	1296.0
42.5°	1274.5	1253.0	1231.5	1237.0	1199.3	1231.5	1188.5	1215.5	1129.3	1124.0	1091.6
45°	1080.9	1032.6	1037.9	1016.4	994.9	1005.6	967.9	978.7	930.4	919.7	887.4
47.5°	876.7	860.5	828.2	817.5	817.5	801.3	785.3	779.8	758.3	731.3	688.3
50°	720.6	661.6	650.6	634.6	623.9	623.9	602.4	570.1	575.4	548.6	505.5
52.5°	564.7	516.2	494.7	489.4	467.9	457.2	430.2	408.7	392.5	381.8	355.0
55°	435.5	392.5	365.8	365.8	333.5	333.5	295.8	279.6	258.1	236.6	220.6
57.5°	328.0	306.6	279.6	258.1	247.4	220.6	198.9	172.1	155.9	123.7	102.2
60°	247.4	225.9	198.9	182.9	172.1	145.2	118.4	96.7	59.2	48.5	43.0
62.5°	182.9	161.4	134.4	123.7	112.9	91.4	64.5	32.2	16.2	16.2	16.2
65°	134.4	107.5	86.0	75.2	64.5	48.5	21.5	10.7	5.5	5.5	5.5
67.5°	91.4	70.0	48.5	43.0	32.2	16.2	5.5	5.5	5.5	5.5	5.5
70°	59.2	43.0	21.5	16.2	10.7	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	37.7	21.5	10.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.5	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.7	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: LD4C75D010 EX4C759030 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0	4485.0
2.5°	4377.6	4339.9	4361.3	4313.1	4334.6	4372.1	4345.3	4356.1
5°	4226.9	4205.4	4178.7	4108.7	4162.4	4205.4	4183.9	4178.7
7.5°	4065.7	3990.3	4028.0	4006.5	3995.8	4038.8	3990.3	4044.0
10°	3898.9	3845.1	3839.9	3802.2	3802.2	3834.4	3839.9	3807.4
12.5°	3651.5	3624.8	3624.8	3619.3	3613.8	3646.2	3651.5	3635.5
15°	3474.1	3463.4	3436.4	3431.1	3398.9	3447.1	3452.6	3447.1
17.5°	3259.0	3264.3	3237.5	3237.5	3259.0	3275.0	3232.0	3275.0
20°	3113.8	3086.9	3076.1	3027.7	3054.6	3081.6	3081.6	3086.9
22.5°	2904.0	2861.0	2877.2	2850.3	2834.0	2871.7	2871.7	2888.0
25°	2667.4	2667.4	2678.1	2662.1	2672.8	2694.3	2678.1	2715.8
27.5°	2441.5	2463.0	2463.0	2441.5	2452.3	2516.7	2543.7	2500.7
30°	2231.9	2237.1	2253.4	2242.6	2274.9	2296.3	2290.9	2323.3
32.5°	1995.3	2022.0	2032.8	2016.8	2027.5	2075.7	2049.0	2043.5
35°	1812.4	1763.9	1758.7	1763.9	1785.4	1796.2	1785.4	1823.1
37.5°	1548.8	1532.6	1511.1	1516.6	1532.6	1554.3	1565.0	1591.8
40°	1296.0	1274.5	1274.5	1269.2	1253.0	1312.2	1312.2	1312.2
42.5°	1075.6	1070.1	1043.4	1043.4	1064.8	1080.9	1070.1	1107.8
45°	882.0	860.5	844.2	844.2	860.5	860.5	876.7	871.2
47.5°	693.8	672.3	677.6	661.6	677.6	699.1	672.3	677.6
50°	521.7	521.7	510.9	521.7	516.2	521.7	510.9	500.2
52.5°	355.0	403.3	408.7	387.3	338.8	295.8	268.8	290.3
55°	204.4	182.9	182.9	177.4	166.7	161.4	145.2	161.4
57.5°	102.2	91.4	91.4	91.4	86.0	80.7	70.0	70.0
60°	43.0	37.7	37.7	32.2	27.0	21.5	16.2	21.5
62.5°	16.2	10.7	10.7	10.7	10.7	10.7	10.7	10.7
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)