

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 EX4C809027 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: LD4C80D010 EX4C809027 4LBSQLWWLI
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

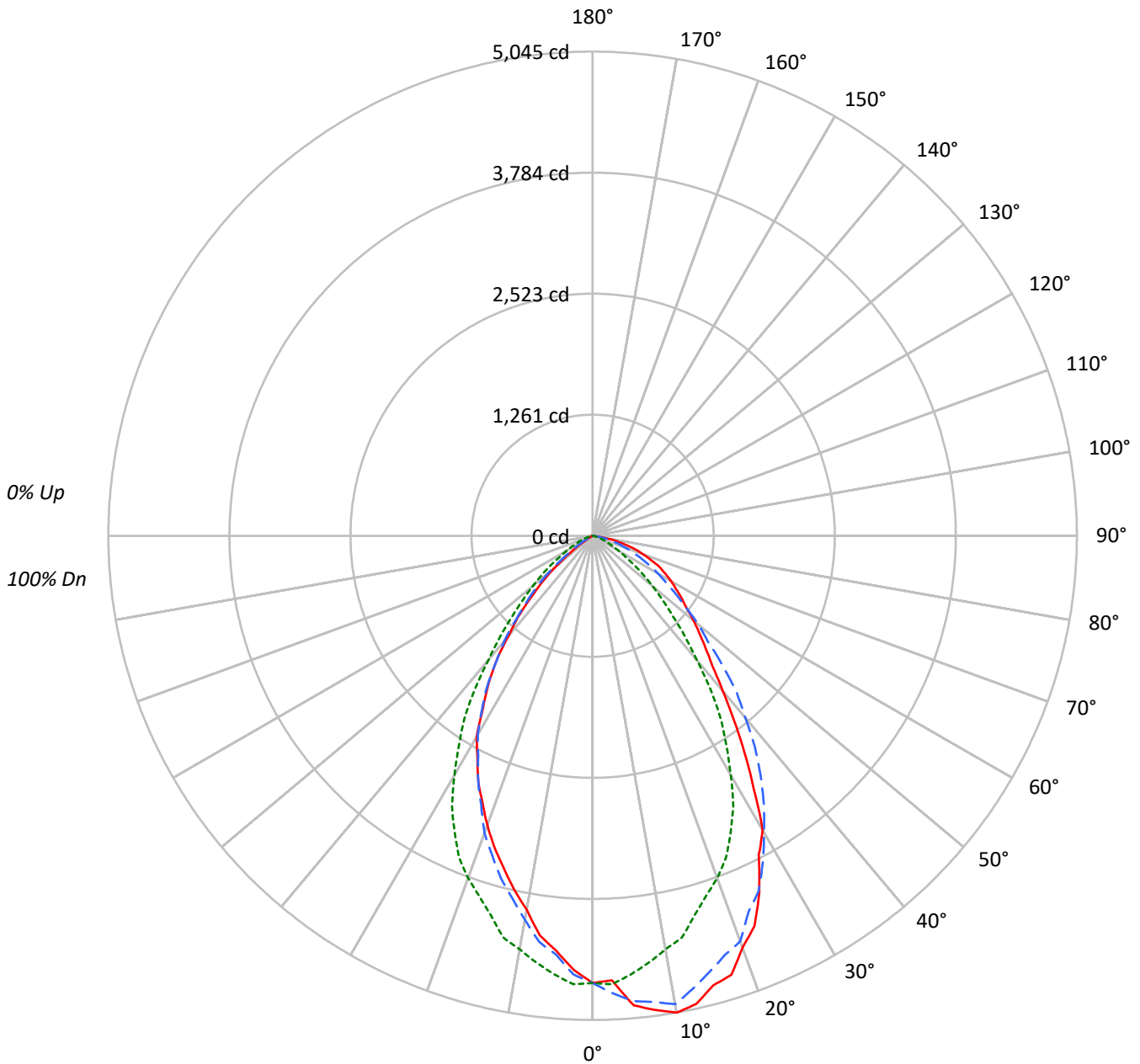
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6679.0 lumens
Efficiency: N/A
Efficacy: 74.6 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 (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

TEST NUMBER: P#
CATALOG NUMBER: LD4C80D010 EX4C809027 4LBSQLWWLI

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°	449580	449580	449580
5°	475657	444285	420478
10°	494306	428622	387550
15°	484419	409070	357736
20°	468699	389522	329289
25°	437193	362232	300377
30°	394657	320577	268924
35°	325092	274430	223097
40°	265304	211822	171705
45°	227950	160868	123506
50°	206311	122460	77997
55°	189857	88334	28211
60°	182229	60363	4303
65°	176006	40822	1301
70°	157589	28353	1608
75°	129177	14614	0
80°	80737	6223	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809027 4LBSQLWWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.6	6.5
10°-20°	1176.2	17.6
20°-30°	1570.6	23.5
30°-40°	1490.9	22.3
40°-50°	1030.6	15.4
50°-60°	569.4	8.5
60°-70°	282.8	4.2
70°-80°	111.4	1.7
80°-90°	10.6	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°	3183.3	47.7
0°-40°	4674.2	70.0
0°-60°	6274.2	93.9
0°-90°	6679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6679.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4659	4659	4659	4659	4659	
5°	4911	4866	4587	4380	4341	470
15°	4849	4704	4095	3693	3581	1372
25°	4106	4090	3402	2821	2821	1872
35°	2760	3050	2330	1916	1894	1729
45°	1670	1916	1179	967	905	1303
55°	1129	1062	525	268	168	1016
65°	771	559	179	6	6	748
75°	346	212	39	0	0	369
85°	0	6	0	0	0	32
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809027 4LBSQLWWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4
2.5°	4637.1	4765.6	4776.7	4765.6	4782.4	4776.7	4804.8	4776.7	4810.5	4760.1	4771.3
5°	4910.9	4860.6	4966.7	4910.9	4910.9	4905.5	4888.6	4882.9	4905.5	4832.8	4866.3
7.5°	4983.6	5056.3	5151.3	5033.9	5039.4	5039.4	5005.9	4994.8	4994.8	4860.6	4899.8
10°	5045.1	5000.2	5050.6	5005.9	5045.1	5039.4	5061.7	4989.1	5039.4	4961.3	4955.6
12.5°	4994.8	4977.9	5045.1	4972.4	4950.1	4955.6	4927.8	4910.9	4927.8	4838.3	4832.8
15°	4849.4	4866.3	4966.7	4888.6	4877.4	4866.3	4832.8	4776.7	4821.6	4698.6	4704.3
17.5°	4799.3	4771.3	4788.1	4720.9	4737.8	4726.6	4720.9	4670.8	4659.4	4581.3	4581.3
20°	4564.6	4625.9	4625.9	4581.3	4581.3	4575.8	4503.1	4547.8	4497.4	4475.1	4497.4
22.5°	4402.5	4408.1	4408.1	4369.0	4374.7	4352.3	4313.1	4285.1	4313.1	4285.1	4240.5
25°	4106.5	4117.7	4184.7	4112.0	4100.8	4123.2	4089.7	4072.8	4067.3	4000.4	4089.7
27.5°	3748.9	3860.5	3855.0	3827.0	3860.5	3815.8	3799.2	3804.7	3821.5	3815.8	3838.2
30°	3542.2	3558.9	3575.7	3553.4	3558.9	3542.2	3542.2	3547.7	3592.4	3575.7	3570.0
32.5°	3123.1	3178.9	3223.8	3223.8	3229.2	3246.1	3240.4	3357.7	3385.7	3329.9	3318.7
35°	2759.9	2799.1	2838.1	2843.8	2916.4	2921.9	2927.6	2961.1	3039.2	3056.1	3050.4
37.5°	2413.7	2452.6	2463.8	2514.1	2553.3	2592.3	2637.1	2681.8	2748.8	2804.6	2776.8
40°	2106.3	2123.0	2151.0	2173.3	2251.5	2251.5	2273.8	2363.3	2436.0	2480.6	2474.9
42.5°	1849.4	1854.8	1877.2	1916.3	1989.0	1972.2	1989.0	2050.5	2156.5	2162.2	2223.7
45°	1670.5	1664.8	1681.7	1687.2	1732.0	1754.4	1765.5	1810.2	1899.5	1910.7	1916.3
47.5°	1508.6	1502.9	1530.9	1542.1	1558.7	1581.0	1581.0	1586.7	1620.2	1648.2	1625.9
50°	1374.4	1374.4	1374.4	1385.5	1413.6	1407.9	1413.6	1435.9	1452.5	1441.4	1435.9
52.5°	1229.0	1251.4	1268.2	1273.9	1279.4	1279.4	1285.1	1273.9	1268.2	1251.4	1217.9
55°	1128.6	1150.9	1150.9	1150.9	1150.9	1173.2	1145.4	1150.9	1150.9	1106.2	1061.6
57.5°	1028.1	1050.4	1067.1	1044.7	1067.1	1044.7	1033.6	1028.1	1016.7	972.1	905.1
60°	944.3	955.4	949.7	944.3	955.4	938.6	927.4	905.1	893.9	832.4	787.8
62.5°	849.3	854.7	860.4	849.3	838.1	832.4	810.1	776.6	754.3	703.9	664.8
65°	770.9	754.3	748.6	743.1	732.0	715.1	698.5	659.3	642.4	597.8	558.6
67.5°	653.6	648.1	659.3	642.4	614.6	614.6	597.8	564.3	525.1	497.3	458.1
70°	558.6	553.1	542.0	525.1	519.6	497.3	497.3	458.1	447.0	396.6	363.1
72.5°	458.1	458.1	441.3	424.6	407.8	396.6	391.1	363.1	346.5	318.5	290.5
75°	346.5	346.5	340.8	324.0	312.8	301.6	296.2	273.8	257.0	229.2	212.3
77.5°	245.8	245.8	223.5	212.3	217.8	206.6	195.5	190.0	184.3	167.7	145.3
80°	145.3	139.6	123.0	128.5	123.0	123.0	117.3	111.6	100.5	89.3	78.1
82.5°	39.2	44.7	44.7	44.7	50.3	39.2	39.2	39.2	44.7	44.7	28.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7
87.5°	5.7	11.2	22.3	22.3	22.3	22.3	22.3	16.9	16.9	16.9	11.2
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 EX4C809027 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4
2.5°	4715.5	4709.8	4715.5	4676.3	4765.6	4698.6	4687.4	4676.3	4715.5	4676.3	4620.5
5°	4815.9	4760.1	4743.3	4726.6	4776.7	4698.6	4682.0	4687.4	4659.4	4587.0	4592.4
7.5°	4849.4	4799.3	4748.9	4642.8	4687.4	4670.8	4625.9	4592.4	4547.8	4486.3	4475.1
10°	4860.6	4804.8	4732.1	4698.6	4631.6	4609.3	4592.4	4536.6	4480.8	4374.7	4346.6
12.5°	4827.1	4760.1	4670.8	4642.8	4592.4	4519.8	4480.8	4424.8	4374.7	4290.8	4229.3
15°	4682.0	4625.9	4598.1	4503.1	4480.8	4435.9	4357.8	4279.7	4207.0	4095.1	4061.6
17.5°	4514.3	4492.0	4464.0	4391.3	4385.8	4341.2	4268.5	4201.3	4106.5	3933.2	3877.3
20°	4341.2	4341.2	4251.6	4223.8	4279.7	4190.1	4134.3	4072.8	3877.3	3793.5	3693.0
22.5°	4212.7	4151.2	4100.8	4056.2	4061.6	4005.8	3927.7	3804.7	3732.0	3631.5	3514.2
25°	3961.2	3983.5	3871.9	3855.0	3871.9	3743.2	3704.2	3603.5	3497.4	3402.4	3313.1
27.5°	3804.7	3743.2	3670.7	3609.2	3609.2	3558.9	3447.2	3424.9	3262.7	3173.4	3061.6
30°	3570.0	3525.4	3463.9	3374.6	3363.4	3324.2	3234.9	3178.9	3011.4	2877.3	2815.7
32.5°	3273.9	3257.2	3206.9	3106.4	3072.9	3028.1	2916.4	2821.4	2743.3	2592.3	2519.8
35°	3061.6	3000.3	2894.1	2810.3	2782.3	2704.1	2614.6	2547.6	2463.8	2329.8	2234.8
37.5°	2743.3	2681.8	2581.1	2480.6	2480.6	2402.5	2279.5	2212.5	2095.2	2016.8	1938.7
40°	2463.8	2385.6	2285.2	2167.8	2151.0	2039.1	1989.0	1877.2	1804.5	1681.7	1670.5
42.5°	2151.0	2078.3	1989.0	1899.5	1832.5	1776.7	1648.2	1564.4	1486.2	1424.7	1407.9
45°	1866.0	1771.0	1692.9	1581.0	1514.0	1447.1	1363.2	1307.4	1245.9	1178.9	1139.7
47.5°	1620.2	1542.1	1430.2	1329.7	1262.8	1229.0	1134.0	1072.8	1022.4	977.8	949.7
50°	1368.9	1273.9	1212.4	1100.6	1089.4	1011.3	933.1	882.8	854.7	815.8	776.6
52.5°	1178.9	1089.4	1005.6	921.9	877.1	849.3	776.6	726.3	687.3	659.3	637.0
55°	994.4	916.3	849.3	765.4	737.4	698.5	614.6	603.5	564.3	525.1	497.3
57.5°	854.7	782.1	703.9	648.1	597.8	570.0	502.8	458.1	435.8	402.3	374.3
60°	726.3	648.1	586.6	519.6	497.3	458.1	407.8	368.8	340.8	312.8	285.0
62.5°	608.9	542.0	475.0	418.9	385.5	363.1	324.0	290.5	262.7	240.3	217.8
65°	502.8	441.3	385.5	329.6	312.8	285.0	257.0	229.2	206.6	178.8	156.5
67.5°	413.5	357.7	301.6	262.7	245.8	234.6	201.2	173.1	156.5	139.6	117.3
70°	324.0	285.0	240.3	206.6	190.0	173.1	150.8	134.2	111.6	100.5	83.8
72.5°	251.5	217.8	178.8	150.8	139.6	128.5	106.2	89.3	78.1	67.0	55.8
75°	178.8	150.8	128.5	100.5	95.0	89.3	72.7	61.5	50.3	39.2	33.5
77.5°	123.0	100.5	78.1	67.0	61.5	50.3	44.7	33.5	28.0	22.3	16.9
80°	67.0	50.3	39.2	33.5	28.0	22.3	22.3	16.9	11.2	11.2	5.7
82.5°	22.3	16.9	11.2	5.7	5.7	5.7	5.7	5.7	5.7	0.0	5.7
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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	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



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809027 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4
2.5°	4654.0	4592.4	4609.3	4609.3	4598.1	4598.1	4587.0	4570.1	4575.8	4542.1	4469.6
5°	4603.6	4525.5	4514.3	4525.5	4480.8	4469.6	4447.3	4480.8	4380.1	4419.3	4374.7
7.5°	4458.5	4385.8	4369.0	4408.1	4352.3	4318.6	4313.1	4357.8	4268.5	4223.8	4173.5
10°	4296.3	4268.5	4218.1	4190.1	4173.5	4179.0	4134.3	4078.5	4061.6	4050.5	4005.8
12.5°	4151.2	4089.7	4045.0	4011.5	4000.4	4000.4	3927.7	3916.5	3866.2	3855.0	3788.0
15°	3977.8	3905.4	3877.3	3832.7	3793.5	3815.8	3732.0	3709.7	3693.0	3620.4	3631.5
17.5°	3827.0	3748.9	3681.9	3653.9	3620.4	3586.9	3508.5	3525.4	3486.2	3486.2	3385.7
20°	3631.5	3547.7	3497.4	3441.5	3441.5	3396.9	3341.1	3346.5	3296.2	3246.1	3156.6
22.5°	3424.9	3335.4	3273.9	3251.5	3195.7	3184.6	3117.6	3100.7	3033.8	3039.2	2961.1
25°	3206.9	3117.6	3033.8	3039.2	2989.1	2966.8	2927.6	2849.5	2821.4	2787.9	2765.6
27.5°	2949.9	2888.4	2815.7	2810.3	2715.3	2720.8	2670.6	2648.3	2581.1	2598.0	2547.6
30°	2715.3	2626.0	2558.8	2542.1	2503.0	2491.8	2413.7	2379.9	2391.3	2346.5	2318.7
32.5°	2474.9	2341.0	2313.0	2279.5	2257.2	2229.1	2173.3	2195.6	2145.3	2156.5	2111.8
35°	2156.5	2100.6	2028.0	2028.0	2005.7	1983.3	1944.4	1966.7	1916.3	1894.0	1849.4
37.5°	1888.3	1838.2	1765.5	1787.9	1748.7	1715.2	1681.7	1687.2	1642.5	1637.0	1592.2
40°	1597.9	1569.8	1519.7	1519.7	1491.7	1491.7	1474.9	1458.2	1430.2	1396.7	1346.4
42.5°	1324.0	1301.7	1279.4	1285.1	1245.9	1279.4	1234.7	1262.8	1173.2	1167.8	1134.0
45°	1122.9	1072.8	1078.2	1055.9	1033.6	1044.7	1005.6	1016.7	966.6	955.4	921.9
47.5°	910.8	893.9	860.4	849.3	849.3	832.4	815.8	810.1	787.8	759.8	715.1
50°	748.6	687.3	675.9	659.3	648.1	648.1	625.8	592.3	597.8	570.0	525.1
52.5°	586.6	536.3	513.9	508.5	486.1	475.0	447.0	424.6	407.8	396.6	368.8
55°	452.4	407.8	380.0	380.0	346.5	346.5	307.3	290.5	268.1	245.8	229.2
57.5°	340.8	318.5	290.5	268.1	257.0	229.2	206.6	178.8	162.0	128.5	106.2
60°	257.0	234.6	206.6	190.0	178.8	150.8	123.0	100.5	61.5	50.3	44.7
62.5°	190.0	167.7	139.6	128.5	117.3	95.0	67.0	33.5	16.9	16.9	16.9
65°	139.6	111.6	89.3	78.1	67.0	50.3	22.3	11.2	5.7	5.7	5.7
67.5°	95.0	72.7	50.3	44.7	33.5	16.9	5.7	5.7	5.7	5.7	5.7
70°	61.5	44.7	22.3	16.9	11.2	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	39.2	22.3	11.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.3	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.7	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	5.7	5.7	5.7
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: LD4C80D010 EX4C809027 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4	4659.4
2.5°	4547.8	4508.6	4530.9	4480.8	4503.1	4542.1	4514.3	4525.5
5°	4391.3	4369.0	4341.2	4268.5	4324.3	4369.0	4346.6	4341.2
7.5°	4223.8	4145.5	4184.7	4162.3	4151.2	4195.8	4145.5	4201.3
10°	4050.5	3994.7	3989.2	3950.0	3950.0	3983.5	3989.2	3955.5
12.5°	3793.5	3765.7	3765.7	3760.0	3754.3	3788.0	3793.5	3776.9
15°	3609.2	3598.0	3570.0	3564.6	3531.1	3581.2	3586.9	3581.2
17.5°	3385.7	3391.2	3363.4	3363.4	3385.7	3402.4	3357.7	3402.4
20°	3234.9	3206.9	3195.7	3145.4	3173.4	3201.4	3201.4	3206.9
22.5°	3016.9	2972.3	2989.1	2961.1	2944.2	2983.4	2983.4	3000.3
25°	2771.1	2771.1	2782.3	2765.6	2776.8	2799.1	2782.3	2821.4
27.5°	2536.4	2558.8	2558.8	2536.4	2547.6	2614.6	2642.6	2598.0
30°	2318.7	2324.1	2341.0	2329.8	2363.3	2385.6	2379.9	2413.7
32.5°	2072.8	2100.6	2111.8	2095.2	2106.3	2156.5	2128.7	2123.0
35°	1882.9	1832.5	1827.0	1832.5	1854.8	1866.0	1854.8	1894.0
37.5°	1609.0	1592.2	1569.8	1575.5	1592.2	1614.7	1625.9	1653.7
40°	1346.4	1324.0	1324.0	1318.6	1301.7	1363.2	1363.2	1363.2
42.5°	1117.4	1111.7	1083.9	1083.9	1106.2	1122.9	1111.7	1150.9
45°	916.3	893.9	877.1	877.1	893.9	893.9	910.8	905.1
47.5°	720.8	698.5	703.9	687.3	703.9	726.3	698.5	703.9
50°	542.0	542.0	530.8	542.0	536.3	542.0	530.8	519.6
52.5°	368.8	418.9	424.6	402.3	352.0	307.3	279.3	301.6
55°	212.3	190.0	190.0	184.3	173.1	167.7	150.8	167.7
57.5°	106.2	95.0	95.0	95.0	89.3	83.8	72.7	72.7
60°	44.7	39.2	39.2	33.5	28.0	22.3	16.9	22.3
62.5°	16.9	11.2	11.2	11.2	11.2	11.2	11.2	11.2
65°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
67.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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)