

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: P249782

Luminaire Tested: **LD8B175D010 ER8B175930 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175930 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16016.9 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

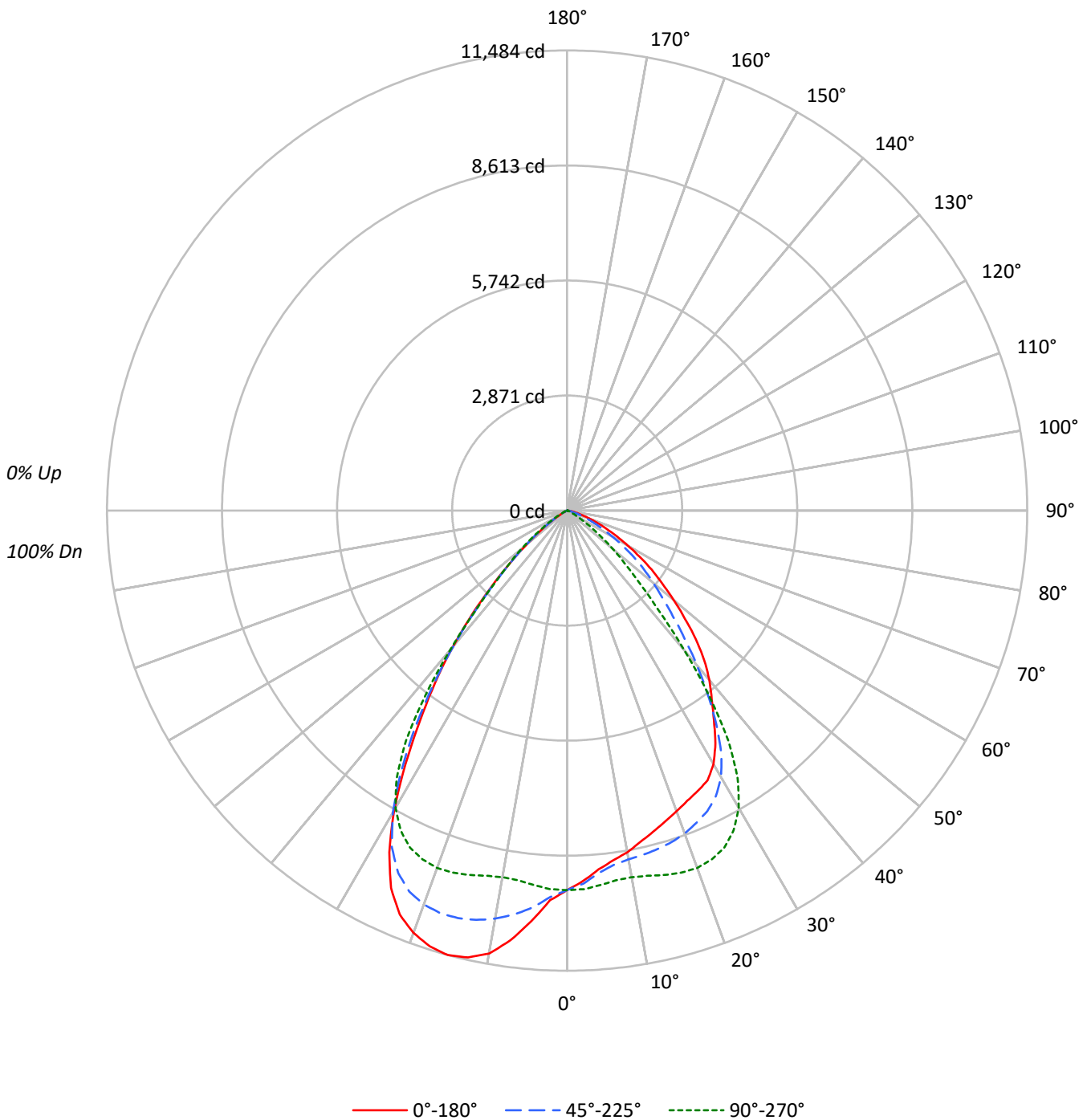
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.5	5.7
10°-20°	2724.9	17.0
20°-30°	4172.9	26.1
30°-40°	4090.9	25.5
40°-50°	2463.5	15.4
50°-60°	1133.9	7.1
60°-70°	398.3	2.5
70°-80°	104.2	0.7
80°-90°	17.8	0.1
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°	7808.3	48.8
0°-40°	11899.2	74.3
0°-60°	15496.6	96.8
0°-90°	16016.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16016.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9471	9471	9471	9471	9471	
5°	8988	9073	9382	9944	10285	849
15°	8298	8745	9413	10529	11484	2344
25°	7718	8276	9281	9980	10396	3555
35°	6386	6475	7010	6607	6395	4000
45°	4536	3735	2532	2549	2616	3478
55°	2576	2040	726	571	549	2298
65°	1093	757	115	58	62	1114
75°	283	164	9	0	0	343
85°	44	22	4	0	0	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8
2.5°	9249.5	9258.3	9258.3	9258.3	9276.1	9280.6	9276.1	9280.6	9289.4	9320.3	9333.7
5°	8988.4	8975.2	8984.0	8979.5	9001.7	9015.1	9006.1	9019.5	9050.4	9072.6	9094.7
7.5°	8802.7	8802.7	8802.7	8811.4	8824.6	8851.3	8846.9	8855.7	8886.6	8917.6	8948.5
10°	8656.6	8652.2	8652.2	8674.2	8691.9	8722.8	8731.8	8758.4	8798.1	8838.0	8873.3
12.5°	8466.1	8470.7	8492.8	8515.0	8554.7	8603.3	8629.9	8665.4	8727.4	8793.7	8833.6
15°	8298.1	8302.5	8320.3	8364.3	8413.2	8470.7	8528.1	8585.6	8661.0	8745.0	8815.9
17.5°	8134.3	8138.7	8151.9	8200.8	8262.7	8337.9	8404.2	8479.5	8576.9	8674.2	8762.7
20°	7983.8	7979.4	8001.5	8045.8	8125.6	8196.2	8262.7	8351.2	8457.4	8576.9	8678.6
22.5°	7837.7	7837.7	7859.9	7904.2	7975.0	8045.8	8116.6	8209.5	8315.7	8430.8	8550.3
25°	7718.2	7713.8	7744.8	7767.1	7820.1	7890.9	7966.2	8041.4	8147.5	8276.0	8390.9
27.5°	7590.0	7585.6	7590.0	7616.5	7665.2	7718.2	7775.8	7842.3	7930.9	8037.0	8147.5
30°	7306.7	7311.0	7311.0	7333.4	7359.9	7417.3	7448.3	7514.7	7594.3	7682.9	7780.3
32.5°	6886.3	6890.7	6890.7	6899.5	6921.6	6948.2	6974.9	7023.4	7085.4	7160.6	7249.2
35°	6386.2	6386.2	6381.7	6386.2	6399.6	6399.6	6421.5	6399.6	6430.5	6474.8	6541.0
37.5°	5925.9	5917.0	5908.2	5899.4	5886.0	5864.0	5833.0	5779.9	5766.5	5748.8	5753.2
40°	5518.8	5514.4	5487.9	5465.5	5421.4	5368.4	5293.1	5200.2	5125.0	5036.4	4961.2
42.5°	5067.4	5062.9	5040.8	5000.9	4952.2	4872.7	4753.2	4629.3	4478.8	4346.0	4208.9
45°	4536.2	4549.5	4518.5	4474.2	4416.7	4341.5	4208.9	4058.2	3907.7	3735.3	3562.5
47.5°	3983.0	3978.7	3956.6	3930.0	3881.4	3806.1	3717.6	3553.8	3394.4	3235.2	3058.1
50°	3469.6	3452.0	3443.0	3416.6	3385.6	3323.8	3230.6	3097.9	2956.3	2805.9	2642.1
52.5°	2982.9	2982.9	2960.7	2943.0	2916.4	2867.7	2788.2	2682.0	2562.5	2420.8	2248.3
55°	2575.7	2566.9	2544.8	2522.6	2496.0	2465.0	2394.3	2305.8	2177.4	2040.2	1889.8
57.5°	2142.0	2137.5	2128.8	2102.1	2088.9	2057.9	1978.2	1889.8	1779.1	1659.6	1535.7
60°	1752.6	1734.9	1717.0	1699.4	1677.4	1646.4	1593.2	1517.9	1425.0	1318.9	1195.0
62.5°	1403.0	1429.4	1376.4	1376.4	1332.2	1305.5	1256.9	1212.7	1115.2	1017.9	911.7
65°	1093.2	1093.2	1070.9	1053.3	1026.6	995.7	947.0	902.7	831.9	756.7	681.5
67.5°	836.5	831.9	809.9	792.2	770.0	752.3	717.0	663.7	610.8	548.8	486.7
70°	615.2	610.8	606.2	575.3	557.6	535.5	508.9	473.6	433.7	389.4	331.9
72.5°	442.5	442.5	429.3	416.0	398.4	380.6	354.1	331.9	296.5	265.6	225.7
75°	283.3	278.9	278.9	256.7	256.7	230.0	212.4	199.1	181.4	163.8	128.5
77.5°	203.7	199.1	194.7	185.7	177.0	168.2	154.8	137.2	123.9	106.2	92.9
80°	137.2	128.5	123.9	123.9	110.5	106.2	110.5	84.2	79.6	66.3	57.5
82.5°	84.2	84.2	79.6	79.6	75.2	70.8	57.5	57.5	53.1	48.7	39.9
85°	44.3	57.5	39.9	44.3	39.9	44.3	39.9	30.9	26.6	22.1	22.1
87.5°	26.6	17.7	17.7	26.6	22.1	17.7	17.7	17.7	13.3	9.0	9.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8
2.5°	9324.9	9355.9	9351.3	9391.2	9404.5	9435.5	9435.5	9457.5	9470.8	9501.7	9528.4
5°	9103.5	9152.2	9165.5	9214.2	9254.0	9302.6	9333.7	9382.2	9426.5	9493.0	9555.0
7.5°	8966.4	9006.1	9032.7	9090.3	9134.6	9187.5	9240.7	9307.0	9369.0	9448.8	9537.2
10°	8900.0	8953.1	8992.8	9050.4	9103.5	9161.1	9214.2	9289.4	9360.2	9462.0	9559.3
12.5°	8882.2	8944.1	8992.8	9072.6	9125.6	9187.5	9249.5	9333.7	9408.9	9515.0	9625.8
15°	8882.2	8966.4	9032.7	9121.2	9183.1	9262.7	9329.3	9413.3	9497.3	9608.0	9714.1
17.5°	8864.5	8966.4	9050.4	9152.2	9231.8	9311.6	9395.5	9475.4	9563.7	9670.1	9789.4
20°	8793.7	8922.2	9023.8	9143.3	9227.4	9316.0	9400.1	9488.5	9581.5	9692.2	9794.0
22.5°	8669.8	8820.3	8935.4	9063.6	9161.1	9249.5	9333.7	9422.1	9524.0	9630.2	9736.3
25°	8506.0	8647.6	8771.7	8904.3	9001.7	9099.0	9178.7	9280.6	9373.5	9475.4	9559.3
27.5°	8258.2	8408.6	8528.1	8665.4	8753.8	8846.9	8913.2	8997.4	9085.9	9169.9	9236.4
30°	7886.6	8023.7	8147.5	8271.4	8360.0	8426.4	8497.2	8563.7	8621.2	8678.6	8736.2
32.5°	7342.1	7466.1	7585.6	7700.6	7771.4	7829.0	7882.0	7921.9	7952.8	7983.8	7988.1
35°	6594.3	6696.0	6771.2	6873.0	6939.4	6992.5	6992.5	7010.2	7005.8	6992.5	6979.2
37.5°	5757.8	5797.5	5828.4	5868.3	5872.7	5872.7	5846.4	5824.0	5788.7	5779.9	5753.2
40°	4886.0	4832.7	4792.8	4739.8	4708.9	4642.4	4585.0	4545.1	4487.6	4478.8	4469.9
42.5°	4058.2	3934.4	3823.7	3730.9	3624.6	3531.6	3447.6	3385.6	3341.4	3336.9	3341.4
45°	3385.6	3243.9	3080.2	2951.9	2832.4	2717.3	2606.8	2531.6	2491.6	2482.7	2491.6
47.5°	2876.7	2712.9	2553.5	2407.5	2279.2	2150.8	2040.2	1938.4	1889.8	1876.4	1872.1
50°	2473.9	2305.8	2137.5	1987.0	1845.5	1717.0	1579.9	1482.6	1420.6	1398.4	1380.7
52.5°	2080.1	1929.7	1756.9	1602.1	1460.4	1309.9	1168.4	1057.7	995.7	969.3	951.4
55°	1734.9	1584.4	1425.0	1274.6	1124.1	973.7	831.9	725.7	659.4	628.4	606.2
57.5°	1385.1	1243.6	1106.4	956.0	831.9	686.1	544.2	451.4	393.8	358.5	340.8
60°	1070.9	960.4	840.9	717.0	597.5	478.0	362.9	274.3	230.0	203.7	181.4
62.5°	809.9	717.0	637.2	531.0	438.1	336.3	248.0	177.0	137.2	115.1	106.2
65°	584.2	513.3	442.5	376.2	309.8	234.6	168.2	115.1	79.6	66.3	61.9
67.5°	416.0	358.5	305.2	261.1	212.4	168.2	119.5	79.6	61.9	53.1	48.7
70°	292.0	248.0	212.4	172.6	141.6	110.5	92.9	57.5	35.3	39.9	30.9
72.5°	194.7	163.8	146.1	119.5	97.3	79.6	57.5	39.9	39.9	30.9	26.6
75°	106.2	97.3	75.2	57.5	48.7	44.3	17.7	9.0	4.4	13.3	4.4
77.5°	75.2	66.3	57.5	48.7	39.9	30.9	17.7	17.7	13.3	17.7	9.0
80°	48.7	39.9	35.3	35.3	22.1	13.3	9.0	9.0	13.3	4.4	4.4
82.5°	30.9	26.6	22.1	22.1	22.1	13.3	13.3	13.3	13.3	9.0	9.0
85°	17.7	13.3	9.0	9.0	4.4	9.0	0.0	4.4	4.4	0.0	0.0
87.5°	9.0	4.4	4.4	4.4	4.4	0.0	0.0	4.4	0.0	4.4	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8	9470.8
2.5°	9546.0	9563.7	9585.9	9603.6	9643.5	9652.3	9670.1	9687.8	9701.0	9714.1	9718.7
5°	9608.0	9674.5	9736.3	9802.7	9886.9	9944.4	10010.8	10068.3	10125.9	10174.5	10209.8
7.5°	9625.8	9727.5	9820.5	9935.5	10059.4	10165.8	10276.3	10386.8	10502.0	10590.5	10665.8
10°	9661.1	9785.0	9904.5	10041.7	10201.1	10342.6	10479.8	10625.8	10772.0	10895.9	11006.7
12.5°	9723.1	9860.2	9988.7	10139.1	10302.9	10462.1	10612.6	10776.4	10931.3	11068.5	11192.4
15°	9824.9	9953.1	10077.2	10218.7	10382.5	10528.7	10679.1	10838.3	10993.3	11134.9	11250.0
17.5°	9891.3	10010.8	10134.6	10263.0	10400.2	10533.0	10674.5	10816.2	10957.8	11086.2	11192.4
20°	9891.3	10006.4	10099.2	10214.3	10342.6	10457.7	10572.8	10696.7	10820.6	10926.8	11028.6
22.5°	9811.7	9922.2	9993.0	10081.6	10192.1	10289.7	10351.5	10488.7	10581.6	10674.5	10749.7
25°	9625.8	9705.4	9763.0	9824.9	9913.5	9979.7	10033.0	10112.5	10205.5	10241.0	10294.0
27.5°	9289.4	9346.9	9377.8	9391.2	9435.5	9470.8	9479.7	9515.0	9555.0	9563.7	9585.9
30°	8758.4	8762.7	8749.4	8745.0	8722.8	8696.4	8691.9	8687.5	8669.8	8652.2	8656.6
32.5°	7957.2	7935.2	7882.0	7824.6	7767.1	7705.1	7669.5	7625.3	7598.7	7572.4	7541.3
35°	6921.6	6868.6	6793.4	6722.5	6656.2	6607.4	6527.8	6501.2	6474.8	6439.2	6430.5
37.5°	5704.5	5673.6	5602.8	5549.7	5514.4	5492.2	5452.3	5425.9	5425.9	5412.6	5403.7
40°	4447.7	4438.9	4412.4	4425.6	4408.0	4416.7	4412.4	4403.4	4425.6	4425.6	4434.6
42.5°	3336.9	3341.4	3354.7	3363.4	3390.0	3394.4	3416.6	3416.6	3429.9	3443.0	3452.0
45°	2482.7	2500.5	2500.5	2518.2	2544.8	2549.2	2557.9	2562.5	2571.2	2593.4	2602.2
47.5°	1863.1	1867.5	1867.5	1872.1	1880.8	1889.8	1885.4	1889.8	1903.0	1894.2	1903.0
50°	1376.4	1380.7	1367.5	1354.2	1367.5	1367.5	1363.1	1349.8	1363.1	1345.4	1354.2
52.5°	938.3	933.8	920.5	925.0	916.1	911.7	911.7	902.7	902.7	902.7	885.1
55°	593.1	593.1	584.2	584.2	579.8	570.9	566.6	562.0	557.6	553.2	553.2
57.5°	331.9	336.3	323.2	318.6	323.2	318.6	309.8	309.8	309.8	296.5	305.2
60°	181.4	177.0	172.6	168.2	163.8	168.2	168.2	159.4	159.4	159.4	163.8
62.5°	97.3	97.3	92.9	92.9	88.6	88.6	97.3	84.2	88.6	84.2	88.6
65°	53.1	66.3	48.7	48.7	61.9	57.5	53.1	53.1	57.5	48.7	53.1
67.5°	57.5	39.9	35.3	39.9	35.3	35.3	35.3	44.3	39.9	30.9	39.9
70°	26.6	30.9	30.9	22.1	35.3	17.7	30.9	17.7	26.6	22.1	26.6
72.5°	26.6	26.6	26.6	17.7	26.6	17.7	22.1	22.1	17.7	17.7	26.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.0	9.0	4.4	4.4	4.4	4.4	9.0	9.0	9.0	0.0	4.4
80°	9.0	9.0	0.0	4.4	0.0	0.0	4.4	0.0	4.4	0.0	9.0
82.5°	4.4	9.0	4.4	4.4	9.0	9.0	9.0	4.4	4.4	4.4	4.4
85°	0.0	4.4	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	4.4
87.5°	0.0	4.4	0.0	0.0	0.0	0.0	4.4	4.4	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: P249782

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9470.8	9470.8	9470.8	9470.8
2.5°	9723.1	9727.5	9736.3	9732.0
5°	10236.4	10271.9	10289.7	10285.3
7.5°	10718.8	10780.9	10816.2	10816.2
10°	11090.6	11161.5	11214.5	11223.3
12.5°	11289.7	11369.5	11440.4	11422.4
15°	11347.2	11427.0	11497.8	11484.4
17.5°	11281.0	11360.6	11413.7	11404.8
20°	11099.5	11165.8	11219.0	11214.5
22.5°	10816.2	10873.8	10918.1	10913.5
25°	10338.2	10378.1	10413.5	10395.8
27.5°	9603.6	9616.8	9638.9	9612.5
30°	8625.5	8634.3	8643.2	8638.9
32.5°	7528.1	7523.5	7514.7	7505.8
35°	6417.2	6417.2	6421.5	6395.0
37.5°	5408.0	5403.7	5417.0	5403.7
40°	4443.3	4438.9	4456.6	4434.6
42.5°	3465.2	3478.6	3482.9	3482.9
45°	2606.8	2611.1	2615.5	2615.5
47.5°	1903.0	1907.4	1929.7	1903.0
50°	1345.4	1349.8	1354.2	1345.4
52.5°	889.5	894.0	889.5	876.2
55°	544.2	548.8	548.8	548.8
57.5°	292.0	296.5	296.5	292.0
60°	159.4	154.8	159.4	150.4
62.5°	84.2	92.9	88.6	79.6
65°	53.1	53.1	53.1	61.9
67.5°	44.3	35.3	39.9	30.9
70°	26.6	30.9	30.9	22.1
72.5°	22.1	22.1	22.1	26.6
75°	0.0	0.0	0.0	0.0
77.5°	9.0	9.0	9.0	4.4
80°	4.4	0.0	4.4	0.0
82.5°	4.4	4.4	9.0	4.4
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)