

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: P250230

Luminaire Tested: **LD8B175D010 ER8B175840 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250230
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 ER8B175840 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18581.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

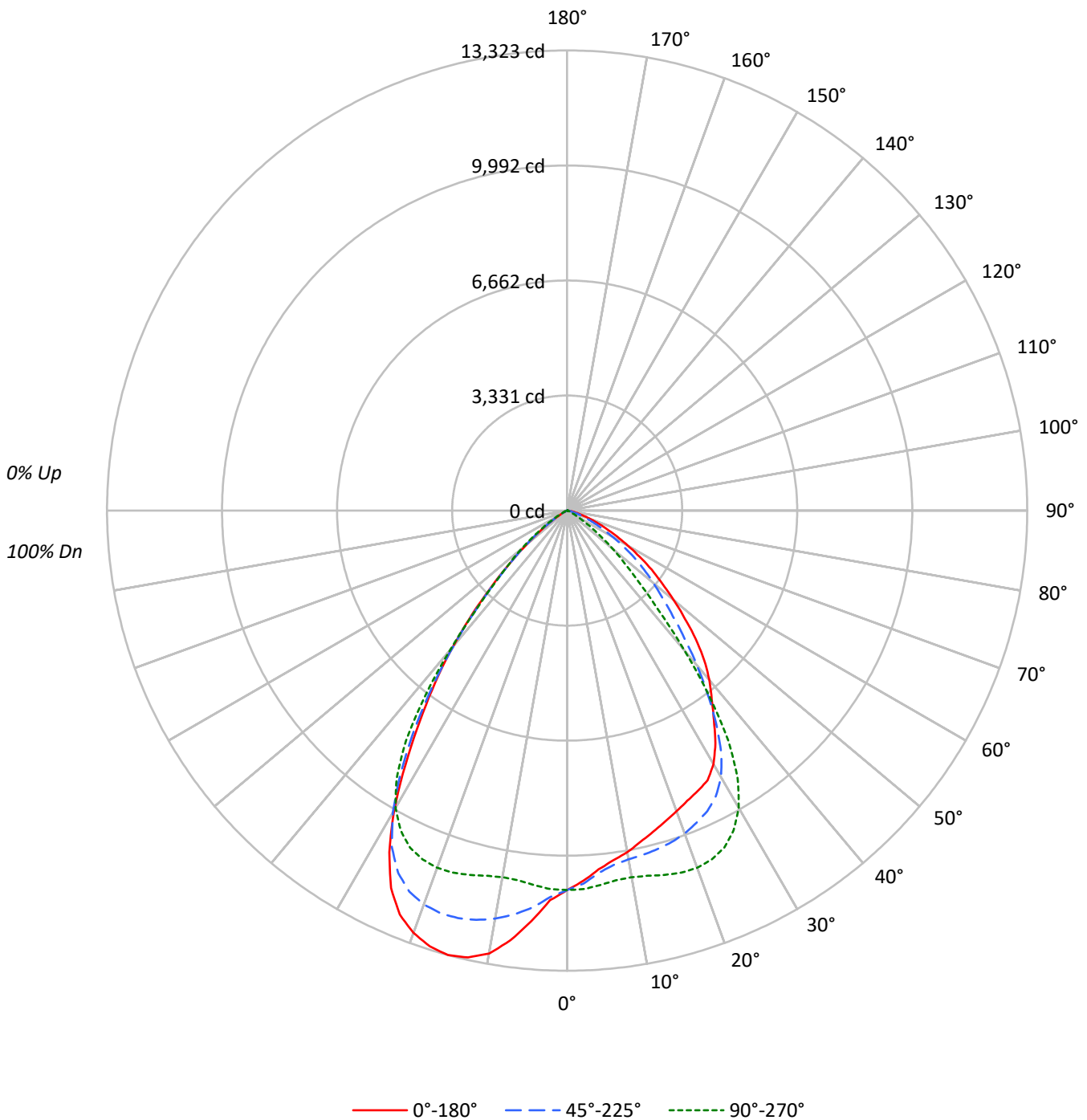
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	338799	338799	338799
5°	322771	336914	369338
10°	314448	337434	407686
15°	307317	348618	425325
20°	303932	361215	426921
25°	304645	366317	410334
30°	301817	353738	356847
35°	278891	306138	279275
40°	257718	212251	207086
45°	229489	128071	132319
50°	193095	82513	74876
55°	160645	45262	34230
60°	125393	19630	10768
65°	92534	9748	5246
70°	64338	6023	2308
75°	39150	1239	0
80°	28253	1847	0
85°	18186	1804	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1056.2	5.7
10°-20°	3161.2	17.0
20°-30°	4841.0	26.1
30°-40°	4745.8	25.5
40°-50°	2857.9	15.4
50°-60°	1315.4	7.1
60°-70°	462.1	2.5
70°-80°	120.9	0.7
80°-90°	20.6	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°	9058.4	48.8
0°-40°	13804.1	74.3
0°-60°	17977.4	96.8
0°-90°	18581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18581.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10987	10987	10987	10987	10987	
5°	10427	10525	10884	11536	11932	985
15°	9626	10145	10920	12214	13323	2720
25°	8954	9601	10766	11577	12060	4124
35°	7409	7511	8132	7665	7419	4640
45°	5262	4333	2937	2957	3034	4035
55°	2988	2367	842	662	637	2666
65°	1268	878	134	67	72	1292
75°	329	190	10	0	0	398
85°	51	26	5	0	0	71
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°	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0
2.5°	10730.2	10740.6	10740.6	10740.6	10761.1	10766.4	10761.1	10766.4	10776.5	10812.4	10827.9
5°	10427.4	10412.0	10422.3	10417.0	10442.8	10458.3	10447.9	10463.3	10499.2	10525.0	10550.6
7.5°	10211.8	10211.8	10211.8	10222.0	10237.4	10268.3	10263.2	10273.3	10309.3	10345.2	10381.1
10°	10042.4	10037.3	10037.3	10062.9	10083.4	10119.3	10129.6	10160.5	10206.6	10252.8	10293.8
12.5°	9821.5	9826.8	9852.4	9878.2	9924.2	9980.7	10011.5	10052.7	10124.6	10201.5	10247.8
15°	9626.5	9631.5	9652.3	9703.4	9760.0	9826.8	9893.4	9960.2	10047.4	10145.1	10227.3
17.5°	9436.5	9441.6	9457.0	9513.6	9585.5	9672.8	9749.7	9837.0	9950.0	10062.9	10165.6
20°	9261.9	9256.9	9282.4	9333.8	9426.4	9508.3	9585.5	9688.2	9811.4	9950.0	10067.9
22.5°	9092.5	9092.5	9118.2	9169.6	9251.8	9333.8	9416.0	9523.8	9647.0	9780.5	9919.2
25°	8953.8	8948.8	8984.7	9010.5	9072.0	9154.2	9241.4	9328.7	9451.9	9600.9	9734.3
27.5°	8805.1	8800.0	8805.1	8835.9	8892.3	8953.8	9020.6	9097.7	9200.4	9323.6	9451.9
30°	8476.4	8481.5	8481.5	8507.3	8538.2	8604.7	8640.6	8717.8	8810.1	8912.8	9025.9
32.5°	7988.7	7993.8	7993.8	8004.1	8029.7	8060.6	8091.4	8147.8	8219.7	8307.0	8409.7
35°	7408.6	7408.6	7403.3	7408.6	7424.0	7424.0	7449.6	7424.0	7460.0	7511.3	7588.2
37.5°	6874.6	6864.3	6854.1	6843.8	6828.3	6802.8	6766.8	6705.1	6689.7	6669.2	6674.3
40°	6402.3	6397.2	6366.4	6340.6	6289.2	6227.7	6140.5	6032.7	5945.4	5842.7	5755.4
42.5°	5878.6	5873.3	5847.8	5801.5	5745.1	5652.7	5514.1	5370.4	5195.8	5041.8	4882.7
45°	5262.4	5277.8	5241.9	5190.6	5123.8	5036.5	4882.7	4707.9	4533.3	4333.2	4132.9
47.5°	4620.6	4615.5	4590.0	4559.1	4502.7	4415.4	4312.7	4122.7	3937.8	3753.1	3547.7
50°	4025.1	4004.6	3994.2	3963.6	3927.7	3855.8	3747.8	3593.8	3429.6	3255.0	3065.1
52.5°	3460.4	3460.4	3434.7	3414.2	3383.3	3326.9	3234.5	3111.3	2972.7	2808.3	2608.2
55°	2988.1	2977.8	2952.2	2926.4	2895.6	2859.6	2777.7	2674.9	2526.0	2366.8	2192.3
57.5°	2485.0	2479.7	2469.5	2438.7	2423.3	2387.3	2295.0	2192.3	2064.0	1925.4	1781.5
60°	2033.2	2012.7	1991.9	1971.4	1945.9	1910.0	1848.2	1761.0	1653.2	1530.0	1386.3
62.5°	1627.6	1658.3	1596.8	1596.8	1545.4	1514.6	1458.1	1406.8	1293.7	1180.9	1057.7
65°	1268.2	1268.2	1242.4	1221.9	1191.0	1155.1	1098.7	1047.3	965.1	877.8	790.6
67.5°	970.4	965.1	939.5	919.1	893.3	872.8	831.8	770.1	708.6	636.7	564.7
70°	713.6	708.6	703.3	667.4	646.9	621.3	590.4	549.4	503.2	451.8	385.0
72.5°	513.3	513.3	498.1	482.7	462.2	441.5	410.8	385.0	344.0	308.1	261.8
75°	328.6	323.5	323.5	297.8	297.8	266.9	246.4	231.0	210.5	190.0	149.0
77.5°	236.3	231.0	225.9	215.6	205.4	195.1	179.6	159.1	143.7	123.2	107.8
80°	159.1	149.0	143.7	143.7	128.3	123.2	128.3	97.6	92.3	76.9	66.8
82.5°	97.6	97.6	92.3	92.3	87.3	82.2	66.8	66.8	61.7	56.4	46.3
85°	51.4	66.8	46.3	51.4	46.3	51.4	46.3	35.9	30.9	25.6	25.6
87.5°	30.9	20.5	20.5	30.9	25.6	20.5	20.5	20.5	15.4	10.4	10.4
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°	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0
2.5°	10817.7	10853.6	10848.4	10894.6	10910.1	10946.0	10946.0	10971.6	10987.0	11022.9	11053.8
5°	10561.0	10617.4	10632.8	10689.2	10735.5	10791.9	10827.9	10884.3	10935.6	11012.8	11084.6
7.5°	10401.8	10447.9	10478.7	10545.5	10596.9	10658.4	10720.1	10797.0	10868.9	10961.4	11064.1
10°	10324.7	10386.4	10432.5	10499.2	10561.0	10627.7	10689.2	10776.5	10858.7	10976.8	11089.7
12.5°	10304.2	10376.0	10432.5	10525.0	10586.5	10658.4	10730.2	10827.9	10915.1	11038.3	11166.8
15°	10304.2	10401.8	10478.7	10581.5	10653.3	10745.7	10822.8	10920.2	11017.8	11146.1	11269.3
17.5°	10283.7	10401.8	10499.2	10617.4	10709.7	10802.3	10899.7	10992.3	11094.8	11218.2	11356.6
20°	10201.5	10350.5	10468.4	10607.0	10704.7	10807.4	10905.0	11007.5	11115.5	11243.7	11361.9
22.5°	10057.8	10232.3	10365.9	10514.7	10627.7	10730.2	10827.9	10930.6	11048.7	11171.9	11295.1
25°	9867.8	10032.0	10175.9	10329.8	10442.8	10555.7	10648.2	10766.4	10874.1	10992.3	11089.7
27.5°	9580.2	9754.8	9893.4	10052.7	10155.2	10263.2	10340.1	10437.8	10540.5	10637.9	10715.0
30°	9149.1	9308.2	9451.9	9595.6	9698.3	9775.5	9857.5	9934.6	10001.4	10067.9	10134.7
32.5°	8517.4	8661.4	8800.0	8933.3	9015.5	9082.3	9143.8	9190.1	9226.0	9261.9	9267.0
35°	7650.0	7767.9	7855.2	7973.3	8050.4	8111.9	8111.9	8132.4	8127.3	8111.9	8096.5
37.5°	6679.6	6725.6	6761.5	6807.8	6812.9	6812.9	6782.3	6756.5	6715.5	6705.1	6674.3
40°	5668.2	5606.4	5560.2	5498.7	5462.7	5385.6	5319.0	5272.8	5206.0	5195.8	5185.5
42.5°	4707.9	4564.2	4435.9	4328.1	4204.9	4097.0	3999.5	3927.7	3876.3	3871.0	3876.3
45°	3927.7	3763.3	3573.3	3424.5	3285.9	3152.3	3024.1	2936.8	2890.5	2880.1	2890.5
47.5°	3337.2	3147.3	2962.4	2792.9	2644.1	2495.1	2366.8	2248.7	2192.3	2176.9	2171.8
50°	2870.0	2674.9	2479.7	2305.1	2140.9	1991.9	1832.8	1720.0	1648.1	1622.3	1601.8
52.5°	2413.1	2238.6	2038.2	1858.6	1694.2	1519.6	1355.4	1227.0	1155.1	1124.5	1103.7
55°	2012.7	1838.1	1653.2	1478.6	1304.1	1129.5	965.1	841.9	765.0	729.1	703.3
57.5°	1606.9	1442.7	1283.6	1109.0	965.1	795.8	631.4	523.7	456.9	415.9	395.4
60°	1242.4	1114.1	975.5	831.8	693.1	554.5	421.0	318.3	266.9	236.3	210.5
62.5°	939.5	831.8	739.2	616.0	508.2	390.1	287.6	205.4	159.1	133.6	123.2
65°	677.7	595.5	513.3	436.4	359.5	272.2	195.1	133.6	92.3	76.9	71.9
67.5°	482.7	415.9	354.2	302.8	246.4	195.1	138.6	92.3	71.9	61.7	56.4
70°	338.8	287.6	246.4	200.3	164.2	128.3	107.8	66.8	41.0	46.3	35.9
72.5°	225.9	190.0	169.5	138.6	112.8	92.3	66.8	46.3	46.3	35.9	30.9
75°	123.2	112.8	87.3	66.8	56.4	51.4	20.5	10.4	5.1	15.4	5.1
77.5°	87.3	76.9	66.8	56.4	46.3	35.9	20.5	20.5	15.4	20.5	10.4
80°	56.4	46.3	41.0	41.0	25.6	15.4	10.4	10.4	15.4	5.1	5.1
82.5°	35.9	30.9	25.6	25.6	25.6	15.4	15.4	15.4	15.4	10.4	10.4
85°	20.5	15.4	10.4	10.4	5.1	10.4	0.0	5.1	5.1	0.0	0.0
87.5°	10.4	5.1	5.1	5.1	5.1	0.0	0.0	5.1	0.0	5.1	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°	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0	10987.0
2.5°	11074.3	11094.8	11120.5	11141.0	11187.3	11197.5	11218.2	11238.7	11254.1	11269.3	11274.6
5°	11146.1	11223.2	11295.1	11372.0	11469.7	11536.4	11613.4	11680.1	11746.9	11803.3	11844.3
7.5°	11166.8	11284.7	11392.7	11526.1	11669.8	11793.2	11921.5	12049.7	12183.3	12286.0	12373.3
10°	11207.8	11351.5	11490.1	11649.3	11834.2	11998.4	12157.5	12327.0	12496.5	12640.2	12768.7
12.5°	11279.7	11438.8	11587.8	11762.3	11952.3	12137.0	12311.6	12501.5	12681.4	12840.5	12984.2
15°	11397.8	11546.6	11690.5	11854.7	12044.7	12214.1	12388.7	12573.4	12753.2	12917.4	13051.0
17.5°	11474.7	11613.4	11757.1	11906.0	12065.2	12219.2	12383.4	12547.8	12712.0	12861.0	12984.2
20°	11474.7	11608.3	11716.1	11849.6	11998.4	12131.9	12265.5	12409.2	12552.9	12676.1	12794.2
22.5°	11382.4	11510.6	11592.9	11695.6	11823.8	11936.9	12008.7	12167.9	12275.6	12383.4	12470.7
25°	11166.8	11259.2	11325.9	11397.8	11500.5	11577.4	11639.1	11731.5	11839.3	11880.5	11942.0
27.5°	10776.5	10843.3	10879.2	10894.6	10946.0	10987.0	10997.3	11038.3	11084.6	11094.8	11120.5
30°	10160.5	10165.6	10150.1	10145.1	10119.3	10088.6	10083.4	10078.3	10057.8	10037.3	10042.4
32.5°	9231.1	9205.5	9143.8	9077.2	9010.5	8938.6	8897.4	8846.1	8815.2	8784.6	8748.6
35°	8029.7	7968.2	7880.9	7798.7	7721.8	7665.2	7572.8	7542.0	7511.3	7470.1	7460.0
37.5°	6617.8	6581.9	6499.7	6438.2	6397.2	6371.4	6325.2	6294.5	6294.5	6279.1	6268.7
40°	5159.7	5149.6	5118.7	5134.1	5113.6	5123.8	5118.7	5108.4	5134.1	5134.1	5144.5
42.5°	3871.0	3876.3	3891.8	3901.9	3932.8	3937.8	3963.6	3963.6	3979.0	3994.2	4004.6
45°	2880.1	2900.9	2900.9	2921.4	2952.2	2957.3	2967.4	2972.7	2982.8	3008.6	3018.8
47.5°	2161.4	2166.5	2166.5	2171.8	2181.9	2192.3	2187.2	2192.3	2207.7	2197.4	2207.7
50°	1596.8	1601.8	1586.4	1571.0	1586.4	1586.4	1581.3	1565.9	1581.3	1560.8	1571.0
52.5°	1088.5	1083.3	1067.8	1073.1	1062.8	1057.7	1057.7	1047.3	1047.3	1047.3	1026.8
55°	688.1	688.1	677.7	677.7	672.6	662.3	657.2	651.9	646.9	641.8	641.8
57.5°	385.0	390.1	374.9	369.6	374.9	369.6	359.5	359.5	359.5	344.0	354.2
60°	210.5	205.4	200.3	195.1	190.0	195.1	195.1	184.9	184.9	184.9	190.0
62.5°	112.8	112.8	107.8	107.8	102.7	102.7	112.8	97.6	102.7	97.6	102.7
65°	61.7	76.9	56.4	56.4	71.9	66.8	61.7	61.7	66.8	56.4	61.7
67.5°	66.8	46.3	41.0	46.3	41.0	41.0	41.0	51.4	46.3	35.9	46.3
70°	30.9	35.9	35.9	25.6	41.0	20.5	35.9	20.5	30.9	25.6	30.9
72.5°	30.9	30.9	30.9	20.5	30.9	20.5	25.6	25.6	20.5	20.5	30.9
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°	10.4	10.4	5.1	5.1	5.1	5.1	10.4	10.4	10.4	0.0	5.1
80°	10.4	10.4	0.0	5.1	0.0	0.0	5.1	0.0	5.1	0.0	10.4
82.5°	5.1	10.4	5.1	5.1	10.4	10.4	10.4	5.1	5.1	5.1	5.1
85°	0.0	5.1	0.0	0.0	0.0	0.0	10.4	0.0	0.0	0.0	5.1
87.5°	0.0	5.1	0.0	0.0	0.0	0.0	5.1	5.1	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: P250230

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10987.0	10987.0	10987.0	10987.0
2.5°	11279.7	11284.7	11295.1	11290.0
5°	11875.2	11916.4	11936.9	11931.8
7.5°	12434.8	12506.8	12547.8	12547.8
10°	12866.1	12948.3	13009.8	13020.1
12.5°	13097.1	13189.6	13271.8	13251.1
15°	13163.8	13256.4	13338.4	13323.0
17.5°	13086.9	13179.3	13241.0	13230.6
20°	12876.4	12953.4	13015.1	13009.8
22.5°	12547.8	12614.6	12666.0	12660.7
25°	11993.3	12039.6	12080.6	12060.1
27.5°	11141.0	11156.5	11182.0	11151.4
30°	10006.4	10016.6	10026.9	10021.9
32.5°	8733.2	8727.9	8717.8	8707.4
35°	7444.5	7444.5	7449.6	7418.8
37.5°	6273.8	6268.7	6284.2	6268.7
40°	5154.6	5149.6	5170.1	5144.5
42.5°	4020.0	4035.5	4040.5	4040.5
45°	3024.1	3029.1	3034.2	3034.2
47.5°	2207.7	2212.8	2238.6	2207.7
50°	1560.8	1565.9	1571.0	1560.8
52.5°	1031.9	1037.2	1031.9	1016.5
55°	631.4	636.7	636.7	636.7
57.5°	338.8	344.0	344.0	338.8
60°	184.9	179.6	184.9	174.6
62.5°	97.6	107.8	102.7	92.3
65°	61.7	61.7	61.7	71.9
67.5°	51.4	41.0	46.3	35.9
70°	30.9	35.9	35.9	25.6
72.5°	25.6	25.6	25.6	30.9
75°	0.0	0.0	0.0	0.0
77.5°	10.4	10.4	10.4	5.1
80°	5.1	0.0	5.1	0.0
82.5°	5.1	5.1	10.4	5.1
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)