

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: P248397

Luminaire Tested: **LD8B200D010 ER8B200935 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200935 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19366.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

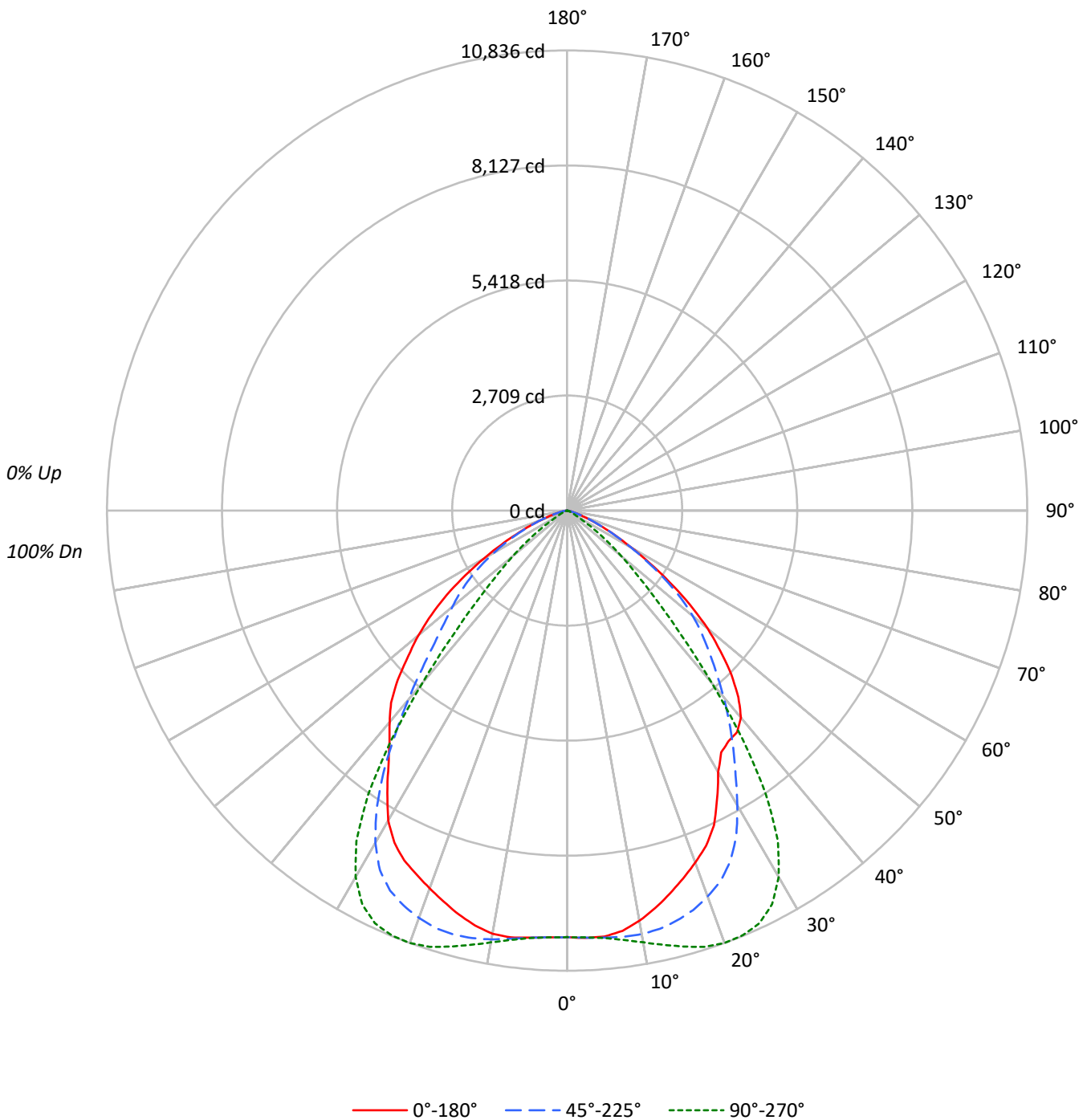
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	309794	309794	309794
5°	311640	312794	312463
10°	307058	323259	316915
15°	298082	339280	314424
20°	289431	355577	310604
25°	278317	364684	309163
30°	253288	354686	299997
35°	249517	307331	276015
40°	256301	213153	261663
45°	238594	128830	246038
50°	206955	79558	219236
55°	158822	41568	186058
60°	108198	16769	140429
65°	67310	8559	96876
70°	36542	5292	59136
75°	19063	2538	34944
80°	8524	2841	18930
85°	5661	1875	16983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	966.1	5.0
10°-20°	2862.1	14.8
20°-30°	4366.4	22.5
30°-40°	4556.4	23.5
40°-50°	3422.5	17.7
50°-60°	2105.8	10.9
60°-70°	857.0	4.4
70°-80°	201.9	1.0
80°-90°	27.8	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°	8194.7	42.3
0°-40°	12751.1	65.8
0°-60°	18279.3	94.4
0°-90°	19366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19366.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10046	10046	10046	10046	10046	
5°	10068	10094	10105	10094	10094	953
15°	9337	9993	10628	10334	9849	2630
25°	8180	9097	10718	9870	9087	3719
35°	6628	6815	8164	7546	7332	4185
45°	5471	4735	2954	4410	5642	4174
55°	2954	2805	773	2805	3461	2655
65°	922	933	117	1253	1328	962
75°	160	160	21	283	293	193
85°	16	16	5	37	48	22
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°	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4
2.5°	10073.1	10057.1	10073.1	10073.1	10078.5	10067.8	10073.1	10078.5	10067.8	10067.8	10067.8
5°	10067.8	10057.1	10067.8	10062.4	10073.1	10073.1	10083.8	10083.8	10094.4	10094.4	10110.5
7.5°	9982.5	9961.2	9982.5	9998.5	10009.1	10030.5	10057.1	10078.5	10099.8	10121.2	10147.8
10°	9806.4	9806.4	9822.5	9854.5	9886.4	9923.7	9971.8	10025.1	10078.5	10126.4	10174.4
12.5°	9587.9	9571.8	9603.8	9646.5	9694.5	9753.2	9827.8	9907.8	9993.2	10089.1	10163.8
15°	9337.2	9321.2	9358.5	9401.2	9459.9	9545.2	9635.9	9742.5	9865.2	9993.2	10115.8
17.5°	9081.3	9075.9	9113.2	9171.9	9219.9	9310.5	9427.9	9555.8	9694.5	9865.2	10025.1
20°	8820.0	8814.7	8852.0	8900.0	8964.0	9049.3	9166.6	9315.9	9481.2	9673.2	9859.8
22.5°	8548.0	8553.3	8585.3	8638.7	8692.0	8782.6	8905.2	9054.6	9235.9	9443.9	9651.8
25°	8180.0	8153.4	8196.1	8249.5	8340.0	8414.6	8532.1	8692.0	8878.6	9097.3	9342.6
27.5°	7646.8	7641.4	7678.9	7726.8	7806.7	7897.4	8025.4	8190.7	8388.0	8628.0	8867.9
30°	7113.5	7124.2	7140.3	7188.3	7241.5	7332.2	7460.2	7598.9	7785.5	8014.7	8270.7
32.5°	6750.9	6750.9	6772.3	6804.3	6841.6	6889.6	6980.3	7081.6	7225.6	7385.6	7572.1
35°	6628.3	6607.0	6628.3	6633.6	6639.0	6649.7	6665.6	6697.7	6745.6	6815.0	6884.3
37.5°	6575.0	6559.0	6559.0	6537.7	6511.0	6479.0	6436.3	6388.3	6335.1	6265.7	6212.4
40°	6367.1	6356.4	6345.7	6324.4	6265.7	6201.7	6132.3	6020.4	5897.7	5727.1	5556.5
42.5°	5967.1	5956.4	5951.1	5908.4	5855.1	5780.4	5700.4	5583.1	5428.5	5209.8	4964.5
45°	5471.2	5449.8	5433.9	5396.6	5359.1	5295.2	5220.5	5113.8	4959.2	4735.3	4442.0
47.5°	4895.3	4884.6	4879.2	4863.3	4826.0	4788.5	4740.6	4655.3	4516.6	4303.3	3999.4
50°	4314.0	4292.7	4303.3	4298.1	4282.0	4255.4	4223.3	4164.7	4058.0	3866.1	3588.8
52.5°	3647.4	3647.4	3642.2	3658.1	3663.4	3658.1	3663.4	3599.5	3508.8	3364.8	3130.2
55°	2954.2	2954.2	2970.2	2991.6	3012.9	3018.2	3012.9	2986.2	2922.2	2804.9	2596.9
57.5°	2303.6	2293.0	2325.0	2357.0	2378.3	2399.6	2383.6	2362.3	2325.0	2229.0	2069.0
60°	1754.4	1754.4	1775.7	1797.1	1818.3	1839.7	1834.4	1829.0	1797.1	1733.0	1605.1
62.5°	1290.4	1295.8	1295.8	1311.8	1333.1	1354.5	1370.4	1354.5	1338.4	1295.8	1210.4
65°	922.5	917.1	922.5	938.5	954.6	975.8	986.5	981.2	965.1	933.2	869.2
67.5°	618.6	613.2	634.5	639.9	650.6	672.0	666.6	672.0	666.6	639.9	586.6
70°	405.3	394.6	405.3	399.9	416.0	421.3	431.9	437.2	431.9	416.0	399.9
72.5°	250.6	245.3	250.6	256.0	261.3	266.6	277.3	277.3	271.9	261.3	239.9
75°	160.0	143.9	149.3	138.7	149.3	149.3	160.0	165.3	160.0	160.0	149.3
77.5°	96.0	96.0	96.0	96.0	96.0	96.0	96.0	101.4	106.6	96.0	90.7
80°	48.0	48.0	53.4	53.4	53.4	58.7	53.4	53.4	53.4	58.7	42.7
82.5°	37.3	32.0	32.0	32.0	37.3	32.0	32.0	32.0	32.0	32.0	32.0
85°	16.0	21.3	16.0	10.7	16.0	16.0	21.3	16.0	16.0	16.0	21.3
87.5°	5.3	5.3	0.0	0.0	0.0	5.3	0.0	5.3	5.3	10.7	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4
2.5°	10073.1	10062.4	10062.4	10057.1	10067.8	10057.1	10062.4	10057.1	10057.1	10067.8	10057.1
5°	10110.5	10115.8	10105.1	10099.8	10115.8	10115.8	10115.8	10105.1	10105.1	10110.5	10105.1
7.5°	10163.8	10174.4	10179.7	10185.1	10195.8	10201.1	10201.1	10195.8	10190.4	10206.5	10185.1
10°	10222.4	10238.5	10270.4	10286.5	10313.1	10313.1	10323.8	10323.8	10313.1	10323.8	10318.4
12.5°	10201.1	10297.0	10350.4	10387.7	10425.0	10457.0	10467.7	10473.1	10467.7	10489.1	10467.7
15°	10238.5	10318.4	10403.8	10467.7	10537.0	10574.3	10585.0	10627.7	10638.4	10643.7	10611.8
17.5°	10179.7	10323.8	10414.3	10510.4	10611.8	10681.0	10745.0	10771.7	10777.1	10787.6	10745.0
20°	10046.4	10206.5	10345.1	10483.8	10601.1	10707.7	10761.0	10835.7	10814.4	10857.1	10798.3
22.5°	9865.2	10046.4	10222.4	10403.8	10526.4	10654.4	10766.4	10819.6	10846.4	10846.4	10782.3
25°	9577.2	9790.5	9982.5	10169.0	10355.8	10510.4	10638.4	10718.4	10734.4	10729.1	10654.4
27.5°	9129.3	9358.5	9582.5	9795.9	10025.1	10206.5	10355.8	10451.7	10478.4	10478.4	10398.4
30°	8510.7	8756.0	8974.7	9230.5	9465.2	9667.9	9875.9	9961.2	10009.1	10009.1	9918.5
32.5°	7774.8	7982.8	8185.4	8436.0	8692.0	8921.3	9118.6	9235.9	9294.6	9289.2	9209.3
35°	6974.9	7076.2	7230.9	7417.5	7646.8	7860.1	8052.0	8164.1	8265.4	8260.0	8185.4
37.5°	6175.0	6148.4	6164.4	6233.7	6377.6	6527.0	6676.3	6783.0	6868.2	6905.7	6889.6
40°	5391.2	5252.5	5119.2	5071.3	5081.8	5135.2	5215.2	5295.2	5391.2	5439.2	5460.5
42.5°	4687.3	4452.7	4218.0	4042.1	3940.7	3908.7	3946.0	3972.7	4031.4	4100.7	4170.1
45°	4122.1	3807.5	3498.1	3226.2	3055.5	2954.2	2932.9	2954.2	2986.2	3055.5	3146.2
47.5°	3658.1	3290.1	2943.6	2639.6	2388.9	2255.7	2218.4	2207.7	2239.7	2303.6	2426.2
50°	3247.5	2879.5	2495.6	2143.6	1882.4	1733.0	1679.8	1658.4	1695.7	1743.7	1855.7
52.5°	2799.5	2436.9	2042.4	1701.0	1429.1	1274.5	1215.8	1183.8	1205.1	1269.2	1381.1
55°	2314.3	1978.3	1621.1	1269.2	1007.8	863.9	794.5	773.2	794.5	863.9	975.8
57.5°	1829.0	1546.4	1247.8	917.1	682.5	538.6	469.2	447.9	506.6	533.3	650.6
60°	1429.1	1199.9	943.9	672.0	469.2	357.2	288.0	271.9	298.7	346.6	442.6
62.5°	1071.9	927.8	725.2	479.9	346.6	229.3	191.9	176.0	191.9	229.3	304.0
65°	778.6	666.6	506.6	351.9	234.6	170.7	128.0	117.3	133.3	160.0	224.0
67.5°	533.3	447.9	351.9	245.3	160.0	106.6	90.7	90.7	96.0	117.3	165.3
70°	346.6	293.3	224.0	160.0	106.6	80.0	69.3	58.7	69.3	85.3	112.0
72.5°	218.7	186.6	143.9	112.0	80.0	58.7	48.0	42.7	53.4	63.9	85.3
75°	133.3	101.4	74.6	58.7	42.7	42.7	42.7	21.3	26.6	42.7	53.4
77.5°	80.0	69.3	58.7	48.0	37.3	21.3	21.3	21.3	26.6	32.0	48.0
80°	42.7	37.3	26.6	26.6	21.3	16.0	21.3	16.0	10.7	26.6	32.0
82.5°	26.6	21.3	21.3	21.3	26.6	10.7	16.0	10.7	16.0	21.3	16.0
85°	16.0	16.0	16.0	10.7	26.6	10.7	10.7	5.3	5.3	10.7	10.7
87.5°	0.0	5.3	5.3	0.0	5.3	0.0	5.3	5.3	5.3	5.3	5.3
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°	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4	10046.4
2.5°	10062.4	10057.1	10062.4	10057.1	10057.1	10057.1	10062.4	10062.4	10057.1	10057.1	10067.8
5°	10105.1	10105.1	10105.1	10099.8	10094.4	10094.4	10105.1	10105.1	10089.1	10105.1	10105.1
7.5°	10195.8	10179.7	10195.8	10174.4	10163.8	10169.0	10174.4	10163.8	10153.1	10158.5	10158.5
10°	10313.1	10297.0	10297.0	10281.1	10265.1	10254.4	10243.8	10217.1	10190.4	10185.1	10163.8
12.5°	10451.7	10425.0	10409.1	10377.0	10350.4	10313.1	10281.1	10238.5	10185.1	10147.8	10110.5
15°	10590.4	10547.7	10510.4	10457.0	10398.4	10334.4	10265.1	10195.8	10110.5	10035.8	9971.8
17.5°	10702.3	10643.7	10574.3	10489.1	10403.8	10307.7	10206.5	10105.1	9982.5	9886.4	9811.8
20°	10739.6	10654.4	10563.7	10451.7	10339.7	10206.5	10078.5	9945.1	9806.4	9705.2	9619.9
22.5°	10691.7	10590.4	10478.4	10361.1	10211.7	10067.8	9918.5	9763.8	9641.1	9502.6	9422.6
25°	10558.4	10435.7	10313.1	10174.4	10030.5	9870.5	9710.5	9550.6	9401.2	9326.6	9225.3
27.5°	10286.5	10153.1	10019.8	9875.9	9710.5	9550.6	9385.3	9230.5	9102.6	9001.3	8942.7
30°	9806.4	9651.8	9497.2	9342.6	9198.6	9033.2	8878.6	8750.6	8622.6	8542.6	8484.1
32.5°	9070.6	8932.0	8777.4	8628.0	8494.8	8356.1	8228.1	8116.1	8025.4	7972.1	7929.4
35°	8078.8	7940.1	7822.8	7716.2	7604.1	7545.5	7465.5	7401.5	7364.2	7342.9	7337.5
37.5°	6830.9	6750.9	6713.6	6692.3	6670.9	6655.0	6665.6	6692.3	6713.6	6750.9	6793.6
40°	5497.8	5567.1	5588.5	5663.1	5732.4	5823.1	5924.5	6041.8	6137.7	6260.3	6345.7
42.5°	4282.0	4410.0	4559.3	4719.3	4889.9	5055.2	5257.9	5444.4	5615.1	5769.7	5903.1
45°	3290.1	3487.4	3711.4	3940.7	4170.1	4410.0	4655.3	4884.6	5087.2	5252.5	5391.2
47.5°	2564.9	2783.6	3071.6	3354.2	3631.5	3914.1	4186.0	4425.9	4596.6	4756.6	4879.2
50°	2031.7	2282.3	2596.9	2922.2	3226.2	3524.7	3812.7	4036.7	4207.4	4335.4	4425.9
52.5°	1573.0	1871.7	2191.6	2533.0	2858.2	3183.5	3450.1	3658.1	3796.8	3908.7	3978.0
55°	1173.1	1466.4	1807.8	2159.7	2490.3	2804.9	3055.5	3236.9	3359.5	3423.5	3460.8
57.5°	847.8	1114.5	1455.7	1807.8	2106.3	2405.0	2607.6	2772.9	2842.2	2879.5	2895.6
60°	618.6	863.9	1167.8	1471.8	1754.4	1994.4	2170.4	2282.3	2335.7	2357.0	2351.6
62.5°	453.3	666.6	927.8	1183.8	1413.1	1610.4	1749.1	1823.7	1850.4	1861.0	1845.1
65°	346.6	511.9	735.9	933.2	1109.2	1253.1	1354.5	1402.5	1418.4	1413.1	1402.5
67.5°	256.0	384.0	549.3	698.6	826.6	938.5	991.9	1034.6	1045.1	1029.2	1013.2
70°	181.4	282.6	399.9	501.3	597.2	661.3	719.8	725.2	725.2	719.8	709.3
72.5°	128.0	197.3	271.9	341.3	399.9	447.9	469.2	485.2	479.9	474.5	464.0
75°	85.3	122.6	197.3	213.3	266.6	282.6	304.0	304.0	309.2	293.3	293.3
77.5°	53.4	85.3	117.3	138.7	160.0	181.4	191.9	191.9	197.3	191.9	191.9
80°	32.0	53.4	63.9	96.0	96.0	112.0	117.3	122.6	112.0	128.0	112.0
82.5°	21.3	32.0	48.0	48.0	58.7	69.3	69.3	74.6	74.6	69.3	69.3
85°	16.0	21.3	26.6	32.0	32.0	37.3	32.0	32.0	37.3	42.7	37.3
87.5°	5.3	10.7	5.3	10.7	10.7	21.3	16.0	16.0	16.0	21.3	21.3
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: P248397

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10046.4	10046.4	10046.4	10046.4
2.5°	10057.1	10062.4	10057.1	10057.1
5°	10105.1	10099.8	10105.1	10094.4
7.5°	10142.4	10142.4	10137.1	10137.1
10°	10142.4	10121.2	10121.2	10121.2
12.5°	10062.4	10035.8	10019.8	10009.1
15°	9923.7	9875.9	9854.5	9849.1
17.5°	9742.5	9699.8	9673.2	9657.2
20°	9534.5	9491.9	9459.9	9465.2
22.5°	9353.2	9305.3	9283.9	9273.2
25°	9171.9	9113.2	9097.3	9086.6
27.5°	8878.6	8846.7	8830.6	8814.7
30°	8430.7	8414.6	8388.0	8425.3
32.5°	7913.5	7886.7	7865.5	7881.5
35°	7342.9	7326.8	7342.9	7332.2
37.5°	6820.3	6836.3	6857.6	6868.2
40°	6409.7	6468.3	6489.7	6500.3
42.5°	5999.1	6068.4	6111.1	6137.7
45°	5492.5	5561.7	5609.8	5641.9
47.5°	4969.9	5028.6	5076.5	5071.3
50°	4495.3	4527.3	4548.6	4570.0
52.5°	4015.3	4015.3	4020.7	4020.7
55°	3471.5	3460.8	3455.4	3460.8
57.5°	2874.2	2863.6	2858.2	2842.2
60°	2330.3	2298.4	2277.0	2277.0
62.5°	1823.7	1786.4	1770.5	1765.1
65°	1370.4	1365.1	1333.1	1327.7
67.5°	991.9	970.5	949.2	954.6
70°	698.6	666.6	666.6	655.9
72.5°	453.3	437.2	431.9	431.9
75°	282.6	282.6	271.9	293.3
77.5°	186.6	186.6	181.4	186.6
80°	112.0	112.0	112.0	106.6
82.5°	69.3	74.6	69.3	69.3
85°	37.3	42.7	32.0	48.0
87.5°	21.3	26.6	21.3	26.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)