

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: P249780

Luminaire Tested: **LD8B120D010 ER8B120930 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249780
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: LD8B120D010 ER8B120930 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: 10763.9 lumens
Efficiency: N/A
Efficacy: 91.0 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

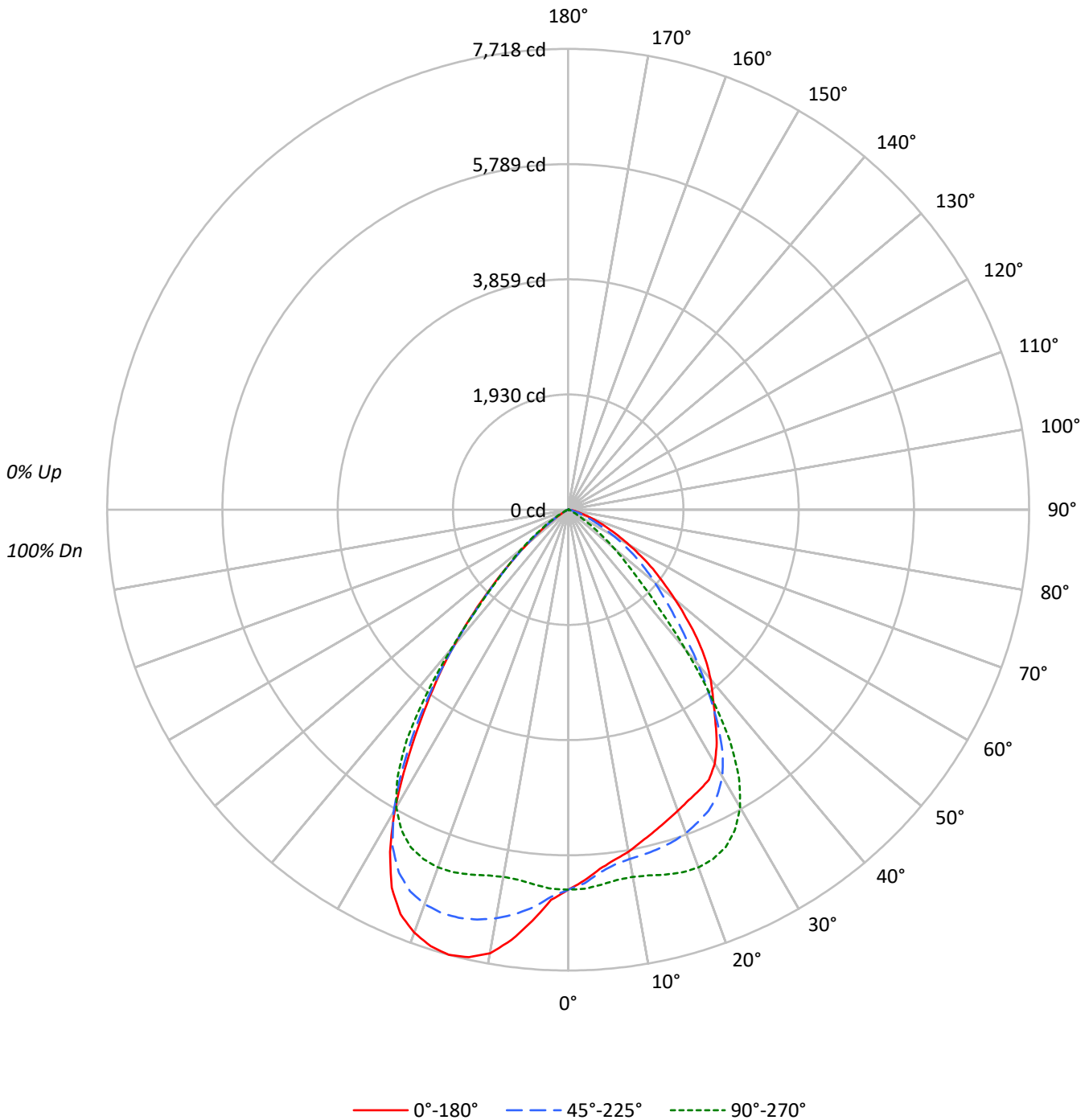
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	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°	611.9	5.7
10°-20°	1831.2	17.0
20°-30°	2804.3	26.1
30°-40°	2749.2	25.5
40°-50°	1655.6	15.4
50°-60°	762.0	7.1
60°-70°	267.7	2.5
70°-80°	70.0	0.7
80°-90°	11.9	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°	5247.4	48.8
0°-40°	7996.6	74.3
0°-60°	10414.2	96.8
0°-90°	10763.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10763.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6365	6365	6365	6365	6365	
5°	6040	6097	6305	6683	6912	571
15°	5576	5877	6326	7076	7718	1576
25°	5187	5562	6237	6707	6986	2389
35°	4292	4351	4711	4440	4298	2688
45°	3048	2510	1701	1713	1758	2338
55°	1731	1371	488	384	369	1544
65°	735	508	77	39	42	748
75°	190	110	6	0	0	231
85°	30	15	3	0	0	41
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°	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7
2.5°	6215.9	6221.9	6221.9	6221.9	6233.8	6236.9	6233.8	6236.9	6242.7	6263.6	6272.6
5°	6040.5	6031.5	6037.6	6034.6	6049.5	6058.4	6052.4	6061.4	6082.1	6097.1	6111.9
7.5°	5915.6	5915.6	5915.6	5921.6	5930.4	5948.4	5945.4	5951.3	5972.1	5992.9	6013.7
10°	5817.4	5814.5	5814.5	5829.3	5841.2	5862.0	5868.0	5885.9	5912.6	5939.4	5963.2
12.5°	5689.5	5692.6	5707.5	5722.4	5749.0	5781.7	5799.6	5823.5	5865.1	5909.7	5936.5
15°	5576.5	5579.4	5591.4	5621.1	5653.9	5692.6	5731.1	5769.9	5820.5	5877.0	5924.6
17.5°	5466.4	5469.5	5478.3	5511.2	5552.8	5603.3	5647.9	5698.5	5764.0	5829.3	5888.8
20°	5365.3	5362.4	5377.2	5407.0	5460.6	5508.1	5552.8	5612.3	5683.7	5764.0	5832.2
22.5°	5267.2	5267.2	5282.2	5311.9	5359.5	5407.0	5454.7	5517.0	5588.4	5665.8	5746.1
25°	5186.9	5184.0	5204.8	5219.7	5255.4	5302.9	5353.4	5404.1	5475.4	5561.7	5639.0
27.5°	5100.7	5097.7	5100.7	5118.6	5151.2	5186.9	5225.5	5270.3	5329.8	5401.1	5475.4
30°	4910.3	4913.2	4913.2	4928.3	4946.1	4984.6	5005.5	5050.1	5103.7	5163.1	5228.7
32.5°	4627.8	4630.7	4630.7	4636.8	4651.6	4669.4	4687.3	4720.0	4761.6	4812.1	4871.6
35°	4291.7	4291.7	4288.7	4291.7	4300.7	4300.7	4315.5	4300.7	4321.5	4351.3	4395.8
37.5°	3982.5	3976.4	3970.6	3964.5	3955.6	3940.8	3920.0	3884.3	3875.3	3863.4	3866.3
40°	3708.8	3705.9	3688.0	3673.1	3643.4	3607.7	3557.2	3494.7	3444.2	3384.6	3334.1
42.5°	3405.5	3402.3	3387.5	3360.8	3328.1	3274.6	3194.3	3111.0	3009.9	2920.7	2828.5
45°	3048.4	3057.4	3036.6	3006.9	2968.2	2917.6	2828.5	2727.3	2626.2	2510.3	2394.1
47.5°	2676.7	2673.7	2658.9	2641.1	2608.3	2557.8	2498.4	2388.3	2281.1	2174.2	2055.1
50°	2331.7	2319.8	2313.9	2296.1	2275.3	2233.7	2171.2	2081.8	1986.7	1885.6	1775.6
52.5°	2004.6	2004.6	1989.7	1977.8	1960.0	1927.2	1873.8	1802.3	1722.1	1626.8	1510.9
55°	1731.0	1725.0	1710.2	1695.3	1677.4	1656.6	1609.1	1549.6	1463.2	1371.1	1270.0
57.5°	1439.5	1436.4	1430.6	1412.7	1403.8	1383.0	1329.5	1270.0	1195.7	1115.4	1032.0
60°	1177.8	1166.0	1154.0	1142.1	1127.3	1106.4	1070.7	1020.1	957.7	886.3	803.1
62.5°	942.9	960.6	925.0	925.0	895.2	877.4	844.7	815.0	749.5	684.0	612.7
65°	734.6	734.6	719.7	707.8	690.0	669.1	636.5	606.7	559.0	508.5	457.9
67.5°	562.2	559.0	544.2	532.4	517.5	505.6	481.8	446.0	410.5	368.8	327.1
70°	413.4	410.5	407.4	386.6	374.8	360.0	342.0	318.3	291.5	261.8	223.1
72.5°	297.4	297.4	288.5	279.6	267.7	255.7	238.0	223.1	199.3	178.5	151.7
75°	190.3	187.4	187.4	172.5	172.5	154.6	142.7	133.8	122.0	110.1	86.3
77.5°	136.9	133.8	130.8	124.9	118.9	113.0	104.0	92.1	83.3	71.4	62.4
80°	92.1	86.3	83.3	83.3	74.3	71.4	74.3	56.6	53.5	44.6	38.7
82.5°	56.6	56.6	53.5	53.5	50.6	47.6	38.7	38.7	35.8	32.7	26.8
85°	29.7	38.7	26.8	29.7	26.8	29.7	26.8	20.9	17.8	14.8	14.8
87.5°	17.8	11.9	11.9	17.8	14.8	11.9	11.9	11.9	9.0	6.1	6.1
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°	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7
2.5°	6266.6	6287.5	6284.3	6311.2	6320.1	6340.9	6340.9	6355.7	6364.7	6385.4	6403.4
5°	6117.9	6150.6	6159.6	6192.2	6219.0	6251.7	6272.6	6305.2	6334.9	6379.6	6421.2
7.5°	6025.7	6052.4	6070.2	6109.0	6138.7	6174.4	6210.1	6254.6	6296.2	6349.9	6409.3
10°	5981.0	6016.7	6043.4	6082.1	6117.9	6156.5	6192.2	6242.7	6290.4	6358.8	6424.2
12.5°	5969.1	6010.8	6043.4	6097.1	6132.7	6174.4	6215.9	6272.6	6323.1	6394.4	6468.8
15°	5969.1	6025.7	6070.2	6129.7	6171.3	6224.9	6269.5	6326.0	6382.5	6456.8	6528.3
17.5°	5957.2	6025.7	6082.1	6150.6	6204.1	6257.6	6314.1	6367.7	6427.1	6498.7	6578.8
20°	5909.7	5996.0	6064.3	6144.5	6201.1	6260.7	6317.2	6376.6	6439.1	6513.5	6581.8
22.5°	5826.4	5927.5	6004.9	6091.1	6156.5	6215.9	6272.6	6332.0	6400.5	6471.8	6543.2
25°	5716.3	5811.5	5894.9	5984.0	6049.5	6114.8	6168.4	6236.9	6299.3	6367.7	6424.2
27.5°	5549.7	5650.8	5731.1	5823.5	5882.9	5945.4	5990.0	6046.6	6106.0	6162.5	6207.1
30°	5300.0	5392.2	5475.4	5558.7	5618.2	5662.8	5710.4	5755.0	5793.8	5832.2	5871.0
32.5°	4934.1	5017.5	5097.7	5175.0	5222.6	5261.3	5296.9	5323.7	5344.6	5365.3	5368.4
35°	4431.5	4499.9	4550.5	4618.9	4663.6	4699.1	4699.1	4711.0	4708.1	4699.1	4690.3
37.5°	3869.5	3896.1	3916.9	3943.7	3946.7	3946.7	3928.9	3914.0	3890.2	3884.3	3866.3
40°	3283.5	3247.8	3221.0	3185.3	3164.6	3119.9	3081.3	3054.5	3015.8	3009.9	3003.9
42.5°	2727.3	2644.0	2569.7	2507.2	2435.9	2373.4	2316.9	2275.3	2245.5	2242.4	2245.5
45°	2275.3	2180.0	2069.9	1983.8	1903.5	1826.1	1751.8	1701.2	1674.4	1668.5	1674.4
47.5°	1933.3	1823.2	1716.0	1617.9	1531.7	1445.4	1371.1	1302.7	1270.0	1261.0	1258.1
50°	1662.6	1549.6	1436.4	1335.3	1240.3	1154.0	1061.7	996.3	954.8	939.8	928.0
52.5°	1397.9	1296.8	1180.7	1076.7	981.4	880.3	785.1	710.7	669.1	651.4	639.4
55°	1166.0	1064.8	957.7	856.6	755.4	654.3	559.0	487.7	443.1	422.4	407.4
57.5°	930.9	835.7	743.6	642.4	559.0	461.1	365.8	303.3	264.7	240.9	229.0
60°	719.7	645.4	565.1	481.8	401.5	321.3	243.8	184.4	154.6	136.9	122.0
62.5°	544.2	481.8	428.2	356.8	294.4	226.0	166.6	118.9	92.1	77.3	71.4
65°	392.6	344.9	297.4	252.8	208.3	157.7	113.0	77.3	53.5	44.6	41.6
67.5°	279.6	240.9	205.1	175.4	142.7	113.0	80.3	53.5	41.6	35.8	32.7
70°	196.3	166.6	142.7	116.0	95.2	74.3	62.4	38.7	23.8	26.8	20.9
72.5°	130.8	110.1	98.2	80.3	65.4	53.5	38.7	26.8	26.8	20.9	17.8
75°	71.4	65.4	50.6	38.7	32.7	29.7	11.9	6.1	2.9	9.0	2.9
77.5°	50.6	44.6	38.7	32.7	26.8	20.9	11.9	11.9	9.0	11.9	6.1
80°	32.7	26.8	23.8	23.8	14.8	9.0	6.1	6.1	9.0	2.9	2.9
82.5°	20.9	17.8	14.8	14.8	14.8	9.0	9.0	9.0	9.0	6.1	6.1
85°	11.9	9.0	6.1	6.1	2.9	6.1	0.0	2.9	2.9	0.0	0.0
87.5°	6.1	2.9	2.9	2.9	2.9	0.0	0.0	2.9	0.0	2.9	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°	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7	6364.7
2.5°	6415.3	6427.1	6442.1	6453.9	6480.7	6486.7	6498.7	6510.4	6519.4	6528.3	6531.3
5°	6456.8	6501.6	6543.2	6587.8	6644.3	6683.0	6727.6	6766.2	6804.9	6837.5	6861.3
7.5°	6468.8	6537.2	6599.8	6677.0	6760.2	6831.7	6906.0	6980.4	7057.7	7117.2	7167.8
10°	6492.6	6575.9	6656.2	6748.3	6855.5	6950.5	7042.8	7141.0	7239.1	7322.4	7396.8
12.5°	6534.2	6626.5	6712.8	6813.9	6923.9	7030.9	7132.0	7242.1	7346.2	7438.4	7521.7
15°	6602.7	6688.9	6772.2	6867.4	6977.4	7075.5	7176.6	7283.7	7387.8	7483.0	7560.4
17.5°	6647.2	6727.6	6810.7	6897.1	6989.2	7078.6	7173.6	7268.9	7364.0	7450.3	7521.7
20°	6647.2	6724.5	6787.0	6864.4	6950.5	7028.0	7105.3	7188.5	7271.8	7343.2	7411.6
22.5°	6593.7	6668.0	6715.7	6775.1	6849.4	6915.0	6956.6	7048.7	7111.2	7173.6	7224.2
25°	6468.8	6522.3	6561.0	6602.7	6662.2	6706.7	6742.5	6796.0	6858.4	6882.3	6917.9
27.5°	6242.7	6281.4	6302.3	6311.2	6340.9	6364.7	6370.6	6394.4	6421.2	6427.1	6442.1
30°	5885.9	5888.8	5879.9	5877.0	5862.0	5844.3	5841.2	5838.3	5826.4	5814.5	5817.4
32.5°	5347.5	5332.7	5296.9	5258.4	5219.7	5178.1	5154.2	5124.4	5106.6	5088.8	5068.0
35°	4651.6	4615.9	4565.4	4517.7	4473.2	4440.4	4386.9	4369.0	4351.3	4327.4	4321.5
37.5°	3833.7	3812.9	3765.2	3729.6	3705.9	3690.9	3664.1	3646.4	3646.4	3637.4	3631.5
40°	2989.0	2983.1	2965.3	2974.1	2962.2	2968.2	2965.3	2959.2	2974.1	2974.1	2980.2
42.5°	2242.4	2245.5	2254.4	2260.4	2278.2	2281.1	2296.1	2296.1	2305.0	2313.9	2319.8
45°	1668.5	1680.5	1680.5	1692.4	1710.2	1713.1	1719.1	1722.1	1727.9	1742.9	1748.8
47.5°	1252.0	1255.1	1255.1	1258.1	1263.9	1270.0	1267.1	1270.0	1278.9	1272.9	1278.9
50°	925.0	928.0	919.0	910.0	919.0	919.0	916.1	907.1	916.1	904.2	910.0
52.5°	630.6	627.5	618.6	621.6	615.7	612.7	612.7	606.7	606.7	606.7	594.8
55°	398.6	398.6	392.6	392.6	389.7	383.6	380.7	377.7	374.8	371.8	371.8
57.5°	223.1	226.0	217.1	214.1	217.1	214.1	208.3	208.3	208.3	199.3	205.1
60°	122.0	118.9	116.0	113.0	110.1	113.0	113.0	107.2	107.2	107.2	110.1
62.5°	65.4	65.4	62.4	62.4	59.5	59.5	65.4	56.6	59.5	56.6	59.5
65°	35.8	44.6	32.7	32.7	41.6	38.7	35.8	35.8	38.7	32.7	35.8
67.5°	38.7	26.8	23.8	26.8	23.8	23.8	23.8	29.7	26.8	20.9	26.8
70°	17.8	20.9	20.9	14.8	23.8	11.9	20.9	11.9	17.8	14.8	17.8
72.5°	17.8	17.8	17.8	11.9	17.8	11.9	14.8	14.8	11.9	11.9	17.8
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°	6.1	6.1	2.9	2.9	2.9	2.9	6.1	6.1	6.1	0.0	2.9
80°	6.1	6.1	0.0	2.9	0.0	0.0	2.9	0.0	2.9	0.0	6.1
82.5°	2.9	6.1	2.9	2.9	6.1	6.1	6.1	2.9	2.9	2.9	2.9
85°	0.0	2.9	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	2.9
87.5°	0.0	2.9	0.0	0.0	0.0	0.0	2.9	2.9	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: P249780

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6364.7	6364.7	6364.7	6364.7
2.5°	6534.2	6537.2	6543.2	6540.3
5°	6879.2	6903.1	6915.0	6912.0
7.5°	7203.3	7245.1	7268.9	7268.9
10°	7453.2	7500.8	7536.5	7542.4
12.5°	7587.0	7640.6	7688.3	7676.3
15°	7625.7	7679.3	7726.8	7717.9
17.5°	7581.2	7634.7	7670.4	7664.4
20°	7459.2	7503.7	7539.5	7536.5
22.5°	7268.9	7307.6	7337.3	7334.3
25°	6947.6	6974.4	6998.2	6986.3
27.5°	6453.9	6462.9	6477.7	6459.9
30°	5796.7	5802.5	5808.6	5805.5
32.5°	5059.1	5056.0	5050.1	5044.2
35°	4312.6	4312.6	4315.5	4297.7
37.5°	3634.4	3631.5	3640.3	3631.5
40°	2986.0	2983.1	2995.0	2980.2
42.5°	2328.8	2337.7	2340.6	2340.6
45°	1751.8	1754.7	1757.7	1757.7
47.5°	1278.9	1281.9	1296.8	1278.9
50°	904.2	907.1	910.0	904.2
52.5°	597.7	600.9	597.7	588.9
55°	365.8	368.8	368.8	368.8
57.5°	196.3	199.3	199.3	196.3
60°	107.2	104.0	107.2	101.1
62.5°	56.6	62.4	59.5	53.5
65°	35.8	35.8	35.8	41.6
67.5°	29.7	23.8	26.8	20.9
70°	17.8	20.9	20.9	14.8
72.5°	14.8	14.8	14.8	17.8
75°	0.0	0.0	0.0	0.0
77.5°	6.1	6.1	6.1	2.9
80°	2.9	0.0	2.9	0.0
82.5°	2.9	2.9	6.1	2.9
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)