

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: P250265

Luminaire Tested: **LD8B175D010 ER8B175940 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250265
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 ER8B175940 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16659.0 lumens
Efficiency: N/A
Efficacy: 94.0 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

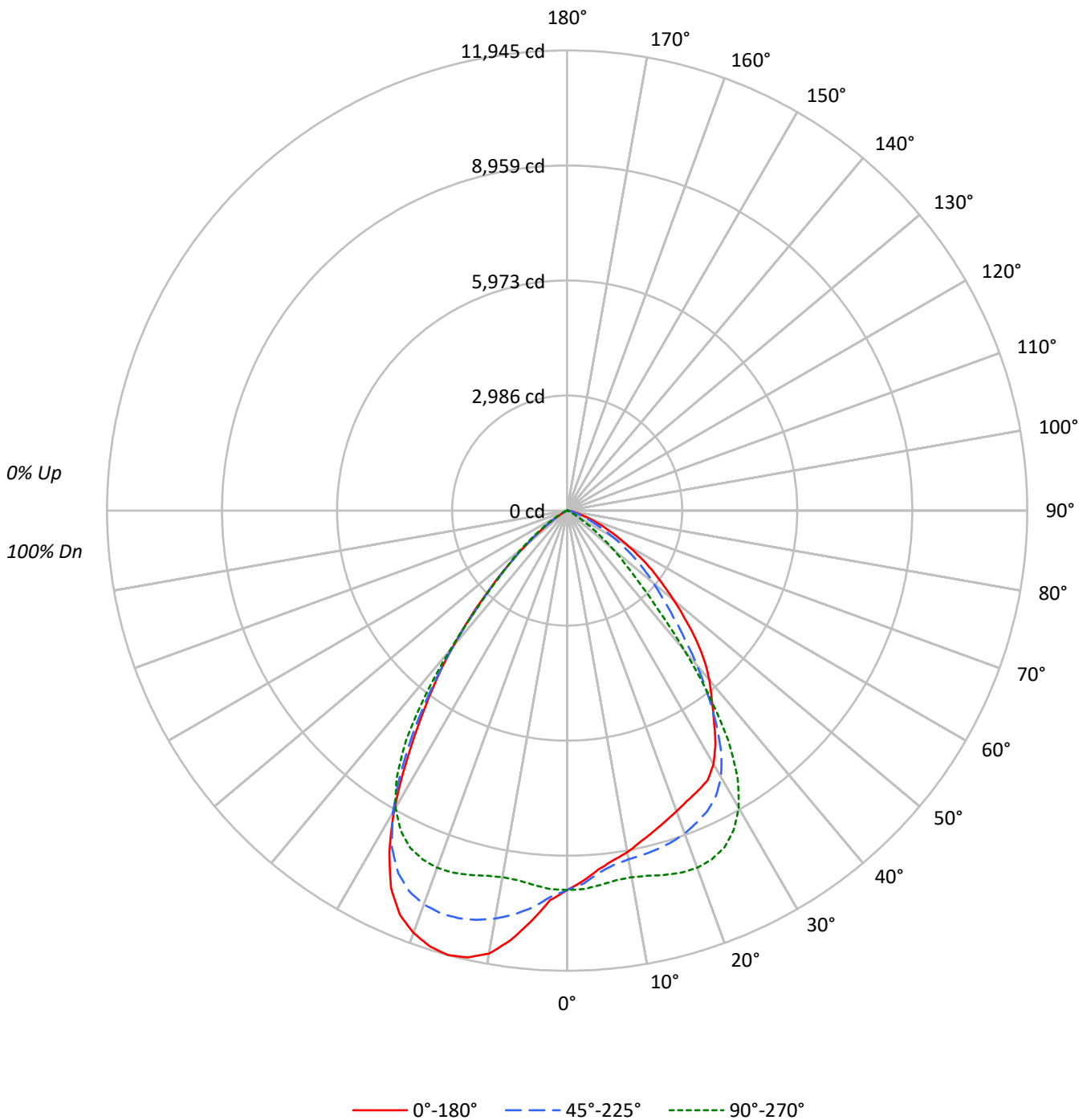
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	303753	303753	303753
5°	289384	302063	331135
10°	281921	302530	365515
15°	275527	312556	381330
20°	272495	323851	382761
25°	273135	328425	367889
30°	270600	317149	319933
35°	250044	274471	250387
40°	231058	190297	185663
45°	205752	114823	118630
50°	173119	73979	67133
55°	144027	40579	30692
60°	112417	17595	9652
65°	82961	8734	4699
70°	57684	5401	2065
75°	35099	1108	0
80°	25341	1651	0
85°	16275	1592	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	947.0	5.7
10°-20°	2834.2	17.0
20°-30°	4340.2	26.1
30°-40°	4254.9	25.5
40°-50°	2562.3	15.4
50°-60°	1179.3	7.1
60°-70°	414.3	2.5
70°-80°	108.4	0.7
80°-90°	18.4	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°	8121.4	48.8
0°-40°	12376.2	74.3
0°-60°	16117.9	96.8
0°-90°	16659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16659.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9850	9850	9850	9850	9850	
5°	9349	9436	9758	10343	10698	883
15°	8631	9096	9791	10951	11945	2438
25°	8028	8608	9653	10380	10813	3697
35°	6642	6734	7291	6872	6651	4160
45°	4718	3885	2633	2651	2720	3618
55°	2679	2122	755	594	571	2390
65°	1137	787	120	60	64	1158
75°	295	170	9	0	0	357
85°	46	23	4	0	0	63
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°	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5
2.5°	9620.3	9629.6	9629.6	9629.6	9648.0	9652.7	9648.0	9652.7	9661.8	9694.0	9707.8
5°	9348.8	9335.0	9344.3	9339.5	9362.6	9376.5	9367.2	9381.0	9413.2	9436.3	9459.3
7.5°	9155.5	9155.5	9155.5	9164.6	9178.5	9206.1	9201.6	9210.7	9242.9	9275.1	9307.3
10°	9003.6	8999.0	8999.0	9022.0	9040.3	9072.6	9081.8	9109.5	9150.8	9192.3	9229.1
12.5°	8805.6	8810.3	8833.3	8856.4	8897.7	8948.3	8975.9	9012.9	9077.3	9146.3	9187.8
15°	8630.7	8635.3	8653.8	8699.7	8750.5	8810.3	8870.0	8929.9	9008.1	9095.7	9169.4
17.5°	8460.4	8464.9	8478.8	8529.5	8594.0	8672.2	8741.2	8819.4	8920.8	9022.0	9114.0
20°	8303.9	8299.3	8322.3	8368.3	8451.3	8524.8	8594.0	8686.0	8796.5	8920.8	9026.5
22.5°	8151.9	8151.9	8175.1	8221.1	8294.8	8368.3	8442.0	8538.6	8649.1	8768.8	8893.1
25°	8027.7	8023.1	8055.3	8078.4	8133.6	8207.3	8285.5	8363.8	8474.2	8607.8	8727.4
27.5°	7894.3	7889.7	7894.3	7921.9	7972.5	8027.7	8087.5	8156.7	8248.8	8359.2	8474.2
30°	7599.7	7604.2	7604.2	7627.3	7655.0	7714.7	7746.9	7816.0	7898.8	7990.9	8092.3
32.5°	7162.4	7166.9	7166.9	7176.2	7199.1	7226.8	7254.4	7305.0	7369.5	7447.7	7539.8
35°	6642.3	6642.3	6637.5	6642.3	6656.1	6656.1	6679.0	6656.1	6688.3	6734.4	6803.3
37.5°	6163.5	6154.2	6145.1	6135.8	6122.0	6099.1	6066.9	6011.6	5997.7	5979.3	5983.9
40°	5740.0	5735.5	5707.8	5684.7	5638.7	5583.5	5505.3	5408.7	5330.4	5238.3	5160.1
42.5°	5270.6	5265.8	5242.9	5201.4	5150.8	5068.0	4943.7	4814.9	4658.4	4520.3	4377.6
45°	4718.1	4731.9	4699.7	4653.7	4593.8	4515.5	4377.6	4220.9	4064.4	3885.0	3705.4
47.5°	4142.7	4138.1	4115.2	4087.5	4036.9	3958.7	3866.6	3696.3	3530.5	3364.9	3180.7
50°	3608.7	3590.4	3581.1	3553.6	3521.4	3457.0	3360.2	3222.1	3074.8	2918.3	2748.0
52.5°	3102.5	3102.5	3079.4	3061.0	3033.3	2982.8	2900.0	2789.5	2665.2	2517.8	2338.4
55°	2679.0	2669.8	2646.8	2623.7	2596.1	2563.8	2490.3	2398.3	2264.7	2122.0	1965.5
57.5°	2227.9	2223.2	2214.1	2186.4	2172.6	2140.4	2057.6	1965.5	1850.5	1726.2	1597.2
60°	1822.8	1804.5	1785.9	1767.5	1744.6	1712.4	1657.1	1578.8	1482.2	1371.7	1242.9
62.5°	1459.3	1486.7	1431.6	1431.6	1385.6	1357.9	1307.3	1261.3	1159.9	1058.7	948.3
65°	1137.0	1137.0	1113.9	1095.5	1067.8	1035.6	985.0	939.0	865.3	787.0	708.8
67.5°	870.0	865.3	842.4	824.0	800.9	782.5	745.7	690.4	635.3	570.9	506.3
70°	639.8	635.3	630.5	598.3	580.0	557.0	529.4	492.6	451.1	405.1	345.2
72.5°	460.2	460.2	446.6	432.7	414.4	395.8	368.3	345.2	308.4	276.2	234.7
75°	294.6	290.1	290.1	267.0	267.0	239.3	220.9	207.1	188.7	170.3	133.6
77.5°	211.8	207.1	202.5	193.3	184.2	174.9	161.0	142.7	128.8	110.5	96.6
80°	142.7	133.6	128.8	128.8	115.0	110.5	115.0	87.5	82.8	69.0	59.9
82.5°	87.5	87.5	82.8	82.8	78.2	73.7	59.9	59.9	55.3	50.6	41.5
85°	46.0	59.9	41.5	46.0	41.5	46.0	41.5	32.2	27.7	22.9	22.9
87.5°	27.7	18.4	18.4	27.7	22.9	18.4	18.4	18.4	13.8	9.3	9.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5
2.5°	9698.7	9730.9	9726.2	9767.7	9781.5	9813.7	9813.7	9836.7	9850.5	9882.7	9910.4
5°	9468.5	9519.1	9533.0	9583.5	9625.0	9675.6	9707.8	9758.4	9804.5	9873.6	9938.0
7.5°	9325.9	9367.2	9394.8	9454.7	9500.7	9555.9	9611.2	9680.2	9744.6	9827.6	9919.7
10°	9256.7	9312.0	9353.3	9413.2	9468.5	9528.4	9583.5	9661.8	9735.5	9841.4	9942.6
12.5°	9238.3	9302.8	9353.3	9436.3	9491.5	9555.9	9620.3	9707.8	9786.1	9896.5	10011.7
15°	9238.3	9325.9	9394.8	9486.9	9551.3	9634.1	9703.3	9790.6	9878.2	9993.2	10103.6
17.5°	9220.0	9325.9	9413.2	9519.1	9601.9	9684.9	9772.3	9855.2	9947.1	10057.8	10181.9
20°	9146.3	9279.8	9385.6	9509.8	9597.4	9689.5	9777.0	9868.9	9965.7	10080.7	10186.6
22.5°	9017.4	9173.9	9293.7	9427.0	9528.4	9620.3	9707.8	9799.9	9905.8	10016.3	10126.7
25°	8847.1	8994.3	9123.3	9261.3	9362.6	9463.8	9546.8	9652.7	9749.3	9855.2	9942.6
27.5°	8589.2	8745.7	8870.0	9012.9	9104.8	9201.6	9270.5	9358.1	9450.2	9537.5	9606.7
30°	8202.7	8345.4	8474.2	8603.1	8695.1	8764.3	8837.8	8907.0	8966.8	9026.5	9086.4
32.5°	7636.4	7765.4	7889.7	8009.3	8083.0	8142.8	8198.0	8239.5	8271.7	8303.9	8308.4
35°	6858.7	6964.4	7042.6	7148.5	7217.7	7272.8	7272.8	7291.2	7286.7	7272.8	7259.0
37.5°	5988.6	6029.9	6062.1	6103.6	6108.2	6108.2	6080.7	6057.6	6020.8	6011.6	5983.9
40°	5081.8	5026.5	4985.0	4929.9	4897.7	4828.5	4768.8	4727.4	4667.5	4658.4	4649.1
42.5°	4220.9	4092.1	3977.1	3880.4	3770.0	3673.2	3585.8	3521.4	3475.4	3470.6	3475.4
45°	3521.4	3374.0	3203.7	3070.3	2946.0	2826.3	2711.3	2633.0	2591.5	2582.2	2591.5
47.5°	2992.0	2821.7	2655.9	2504.0	2370.6	2237.0	2122.0	2016.1	1965.5	1951.7	1947.1
50°	2573.1	2398.3	2223.2	2066.7	1919.5	1785.9	1643.2	1542.1	1477.6	1454.5	1436.1
52.5°	2163.5	2007.0	1827.4	1666.3	1518.9	1362.4	1215.2	1100.0	1035.6	1008.1	989.6
55°	1804.5	1648.0	1482.2	1325.7	1169.2	1012.7	865.3	754.8	685.9	653.7	630.5
57.5°	1440.7	1293.5	1150.8	994.3	865.3	713.5	566.1	469.5	409.6	372.9	354.5
60°	1113.9	998.9	874.6	745.7	621.4	497.2	377.4	285.3	239.3	211.8	188.7
62.5°	842.4	745.7	662.8	552.3	455.7	349.8	257.9	184.2	142.7	119.7	110.5
65°	607.6	533.9	460.2	391.2	322.3	244.0	174.9	119.7	82.8	69.0	64.4
67.5°	432.7	372.9	317.5	271.5	220.9	174.9	124.3	82.8	64.4	55.3	50.6
70°	303.7	257.9	220.9	179.6	147.2	115.0	96.6	59.9	36.8	41.5	32.2
72.5°	202.5	170.3	152.0	124.3	101.2	82.8	59.9	41.5	41.5	32.2	27.7
75°	110.5	101.2	78.2	59.9	50.6	46.0	18.4	9.3	4.5	13.8	4.5
77.5°	78.2	69.0	59.9	50.6	41.5	32.2	18.4	18.4	13.8	18.4	9.3
80°	50.6	41.5	36.8	36.8	22.9	13.8	9.3	9.3	13.8	4.5	4.5
82.5°	32.2	27.7	22.9	22.9	22.9	13.8	13.8	13.8	13.8	9.3	9.3
85°	18.4	13.8	9.3	9.3	4.5	9.3	0.0	4.5	4.5	0.0	0.0
87.5°	9.3	4.5	4.5	4.5	4.5	0.0	0.0	4.5	0.0	4.5	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°	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5	9850.5
2.5°	9928.8	9947.1	9970.2	9988.6	10030.1	10039.2	10057.8	10076.2	10090.0	10103.6	10108.4
5°	9993.2	10062.3	10126.7	10195.7	10283.2	10343.1	10412.1	10471.9	10531.8	10582.4	10619.2
7.5°	10011.7	10117.5	10214.3	10333.8	10462.7	10573.3	10688.3	10803.3	10923.1	11015.1	11093.4
10°	10048.5	10177.3	10301.6	10444.3	10610.1	10757.3	10900.0	11051.9	11203.9	11332.7	11447.9
12.5°	10112.9	10255.6	10389.2	10545.7	10716.0	10881.6	11038.1	11208.4	11369.6	11512.3	11641.1
15°	10218.8	10352.2	10481.2	10628.4	10798.8	10950.7	11107.2	11272.8	11434.1	11581.3	11701.0
17.5°	10287.8	10412.1	10540.9	10674.5	10817.2	10955.3	11102.5	11249.9	11397.1	11530.7	11641.1
20°	10287.8	10407.5	10504.2	10623.9	10757.3	10877.0	10996.8	11125.6	11254.4	11364.9	11470.8
22.5°	10205.0	10320.0	10393.7	10485.8	10600.8	10702.1	10766.6	10909.2	11005.9	11102.5	11180.7
25°	10011.7	10094.5	10154.4	10218.8	10310.9	10379.9	10435.2	10518.0	10614.6	10651.6	10706.7
27.5°	9661.8	9721.7	9753.9	9767.7	9813.7	9850.5	9859.8	9896.5	9938.0	9947.1	9970.2
30°	9109.5	9114.0	9100.2	9095.7	9072.6	9045.1	9040.3	9035.8	9017.4	8999.0	9003.6
32.5°	8276.2	8253.3	8198.0	8138.3	8078.4	8014.0	7977.1	7931.0	7903.4	7875.9	7843.7
35°	7199.1	7144.0	7065.7	6992.0	6923.1	6872.3	6789.5	6761.8	6734.4	6697.4	6688.3
37.5°	5933.3	5901.1	5827.4	5772.3	5735.5	5712.4	5670.9	5643.4	5643.4	5629.6	5620.3
40°	4626.0	4616.9	4589.2	4603.1	4584.7	4593.8	4589.2	4580.0	4603.1	4603.1	4612.3
42.5°	3470.6	3475.4	3489.2	3498.3	3526.0	3530.5	3553.6	3553.6	3567.4	3581.1	3590.4
45°	2582.2	2600.8	2600.8	2619.2	2646.8	2651.4	2660.5	2665.2	2674.3	2697.4	2706.5
47.5°	1937.9	1942.4	1942.4	1947.1	1956.2	1965.5	1961.0	1965.5	1979.3	1970.1	1979.3
50°	1431.6	1436.1	1422.3	1408.5	1422.3	1422.3	1417.8	1403.9	1417.8	1399.4	1408.5
52.5°	975.9	971.2	957.4	962.1	952.8	948.3	948.3	939.0	939.0	939.0	920.6
55°	616.9	616.9	607.6	607.6	603.1	593.8	589.2	584.5	580.0	575.4	575.4
57.5°	345.2	349.8	336.1	331.4	336.1	331.4	322.3	322.3	322.3	308.4	317.5
60°	188.7	184.2	179.6	174.9	170.3	174.9	174.9	165.8	165.8	165.8	170.3
62.5°	101.2	101.2	96.6	96.6	92.1	92.1	101.2	87.5	92.1	87.5	92.1
65°	55.3	69.0	50.6	50.6	64.4	59.9	55.3	55.3	59.9	50.6	55.3
67.5°	59.9	41.5	36.8	41.5	36.8	36.8	36.8	46.0	41.5	32.2	41.5
70°	27.7	32.2	32.2	22.9	36.8	18.4	32.2	18.4	27.7	22.9	27.7
72.5°	27.7	27.7	27.7	18.4	27.7	18.4	22.9	22.9	18.4	18.4	27.7
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°	9.3	9.3	4.5	4.5	4.5	4.5	9.3	9.3	9.3	0.0	4.5
80°	9.3	9.3	0.0	4.5	0.0	0.0	4.5	0.0	4.5	0.0	9.3
82.5°	4.5	9.3	4.5	4.5	9.3	9.3	9.3	4.5	4.5	4.5	4.5
85°	0.0	4.5	0.0	0.0	0.0	0.0	9.3	0.0	0.0	0.0	4.5
87.5°	0.0	4.5	0.0	0.0	0.0	0.0	4.5	4.5	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: P250265

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9850.5	9850.5	9850.5	9850.5
2.5°	10112.9	10117.5	10126.7	10122.2
5°	10646.8	10683.8	10702.1	10697.6
7.5°	11148.5	11213.1	11249.9	11249.9
10°	11535.2	11608.9	11664.1	11673.3
12.5°	11742.3	11825.3	11899.0	11880.4
15°	11802.2	11885.2	11958.7	11944.9
17.5°	11733.2	11816.0	11871.3	11862.1
20°	11544.5	11613.5	11668.8	11664.1
22.5°	11249.9	11309.8	11355.8	11351.1
25°	10752.7	10794.2	10831.0	10812.6
27.5°	9988.6	10002.5	10025.4	9997.9
30°	8971.4	8980.5	8989.8	8985.2
32.5°	7829.9	7825.1	7816.0	7806.7
35°	6674.5	6674.5	6679.0	6651.4
37.5°	5624.9	5620.3	5634.1	5620.3
40°	4621.4	4616.9	4635.3	4612.3
42.5°	3604.2	3618.0	3622.6	3622.6
45°	2711.3	2715.8	2720.3	2720.3
47.5°	1979.3	1983.9	2007.0	1979.3
50°	1399.4	1403.9	1408.5	1399.4
52.5°	925.2	929.9	925.2	911.3
55°	566.1	570.9	570.9	570.9
57.5°	303.7	308.4	308.4	303.7
60°	165.8	161.0	165.8	156.5
62.5°	87.5	96.6	92.1	82.8
65°	55.3	55.3	55.3	64.4
67.5°	46.0	36.8	41.5	32.2
70°	27.7	32.2	32.2	22.9
72.5°	22.9	22.9	22.9	27.7
75°	0.0	0.0	0.0	0.0
77.5°	9.3	9.3	9.3	4.5
80°	4.5	0.0	4.5	0.0
82.5°	4.5	4.5	9.3	4.5
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)