

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: P250272

Luminaire Tested: **LD8B175D010 ER8B175950 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250272
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 ER8B175950 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17247.0 lumens
Efficiency: N/A
Efficacy: 97.3 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

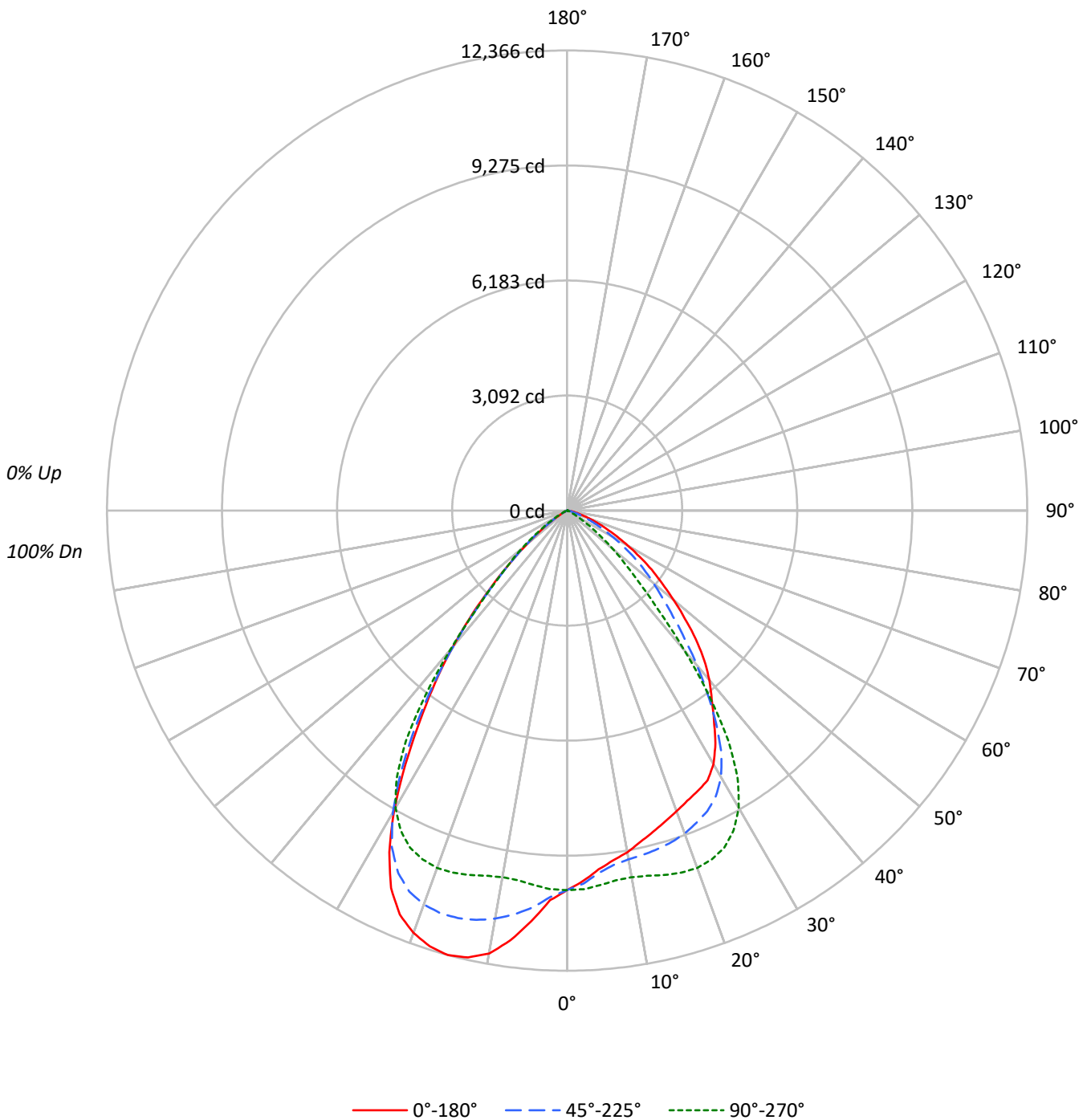
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	314475	314475	314475
5°	299599	312726	342823
10°	291872	313208	378418
15°	285255	323589	394789
20°	282113	335281	396271
25°	282774	340017	380876
30°	280150	328340	331228
35°	258868	284161	259222
40°	239213	197011	192217
45°	213013	118874	122821
50°	179231	76589	69503
55°	149113	42015	31773
60°	116389	18218	9991
65°	85887	9048	4867
70°	59722	5590	2137
75°	36338	1144	0
80°	26228	1705	0
85°	16877	1663	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.4	5.7
10°-20°	2934.2	17.0
20°-30°	4493.4	26.1
30°-40°	4405.1	25.5
40°-50°	2652.7	15.4
50°-60°	1221.0	7.1
60°-70°	428.9	2.5
70°-80°	112.2	0.7
80°-90°	19.1	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°	8408.0	48.8
0°-40°	12813.1	74.3
0°-60°	16686.8	96.8
0°-90°	17247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17247.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10198	10198	10198	10198	10198	
5°	9679	9769	10103	10708	11075	914
15°	8935	9417	10136	11337	12366	2524
25°	8311	8912	9993	10746	11194	3828
35°	6877	6972	7549	7115	6886	4307
45°	4885	4022	2726	2745	2816	3746
55°	2774	2197	782	615	591	2475
65°	1177	815	124	62	67	1199
75°	305	176	10	0	0	370
85°	48	24	5	0	0	65
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°	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2
2.5°	9959.9	9969.5	9969.5	9969.5	9988.5	9993.4	9988.5	9993.4	10002.8	10036.2	10050.5
5°	9678.8	9664.5	9674.1	9669.2	9693.1	9707.4	9697.8	9712.1	9745.5	9769.4	9793.1
7.5°	9478.7	9478.7	9478.7	9488.1	9502.4	9531.1	9526.4	9535.8	9569.1	9602.5	9635.8
10°	9321.4	9316.7	9316.7	9340.4	9359.4	9392.8	9402.4	9431.0	9473.8	9516.8	9554.8
12.5°	9116.4	9121.3	9145.0	9169.0	9211.7	9264.1	9292.7	9331.0	9397.7	9469.1	9512.0
15°	8935.4	8940.1	8959.3	9006.8	9059.3	9121.3	9183.1	9245.1	9326.1	9416.7	9493.0
17.5°	8759.0	8763.7	8778.0	8830.6	8897.3	8978.3	9049.7	9130.7	9235.7	9340.4	9435.7
20°	8597.0	8592.3	8616.0	8663.7	8749.6	8825.7	8897.3	8992.6	9107.0	9235.7	9345.1
22.5°	8439.7	8439.7	8463.6	8511.3	8587.6	8663.7	8740.0	8840.0	8954.4	9078.4	9207.0
25°	8311.0	8306.3	8339.6	8363.6	8420.6	8497.0	8578.0	8659.0	8773.3	8911.6	9035.4
27.5°	8172.9	8168.2	8172.9	8201.5	8253.9	8311.0	8373.0	8444.6	8539.9	8654.3	8773.3
30°	7867.9	7872.6	7872.6	7896.5	7925.2	7987.0	8020.3	8091.9	8177.6	8272.9	8377.9
32.5°	7415.2	7419.9	7419.9	7429.5	7453.2	7481.9	7510.5	7562.9	7629.6	7710.6	7805.9
35°	6876.7	6876.7	6871.8	6876.7	6891.0	6891.0	6914.8	6891.0	6924.4	6972.1	7043.5
37.5°	6381.1	6371.4	6362.0	6352.4	6338.1	6314.4	6281.0	6223.7	6209.4	6190.4	6195.1
40°	5942.6	5937.9	5909.3	5885.4	5837.7	5780.6	5699.6	5599.6	5518.6	5423.2	5342.2
42.5°	5456.6	5451.7	5427.9	5385.0	5332.6	5246.9	5118.2	4984.8	4822.8	4679.8	4532.1
45°	4884.6	4898.9	4865.6	4817.9	4755.9	4674.9	4532.1	4369.9	4207.9	4022.1	3836.2
47.5°	4288.9	4284.2	4260.4	4231.8	4179.4	4098.4	4003.1	3826.7	3655.1	3483.7	3293.0
50°	3736.1	3717.1	3707.5	3679.0	3645.7	3579.0	3478.8	3335.8	3183.4	3021.3	2845.0
52.5°	3212.0	3212.0	3188.1	3169.0	3140.4	3088.0	3002.3	2888.0	2759.3	2606.7	2420.9
55°	2773.6	2764.0	2740.3	2716.3	2687.7	2654.3	2578.2	2482.9	2344.6	2196.9	2034.9
57.5°	2306.6	2301.7	2292.2	2263.6	2249.3	2215.9	2130.2	2034.9	1915.8	1787.1	1653.6
60°	1887.2	1868.2	1848.9	1829.9	1806.2	1772.8	1715.6	1634.5	1534.5	1420.1	1286.8
62.5°	1510.8	1539.2	1482.1	1482.1	1434.5	1405.8	1353.5	1305.8	1200.8	1096.1	981.7
65°	1177.1	1177.1	1153.2	1134.2	1105.5	1072.2	1019.8	972.1	895.8	814.8	733.8
67.5°	900.7	895.8	872.1	853.1	829.1	810.1	772.1	714.8	657.7	591.0	524.1
70°	662.4	657.7	652.8	619.5	600.4	576.7	548.1	510.0	467.0	419.4	357.4
72.5°	476.5	476.5	462.3	448.0	429.0	409.8	381.3	357.4	319.3	286.0	243.0
75°	305.0	300.3	300.3	276.4	276.4	247.7	228.7	214.4	195.4	176.3	138.3
77.5°	219.3	214.4	209.7	200.1	190.7	181.0	166.7	147.7	133.4	114.4	100.0
80°	147.7	138.3	133.4	133.4	119.1	114.4	119.1	90.6	85.7	71.4	62.0
82.5°	90.6	90.6	85.7	85.7	81.0	76.3	62.0	62.0	57.3	52.4	43.0
85°	47.7	62.0	43.0	47.7	43.0	47.7	43.0	33.3	28.6	23.7	23.7
87.5°	28.6	19.0	19.0	28.6	23.7	19.0	19.0	19.0	14.3	9.6	9.6
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°	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2
2.5°	10041.1	10074.4	10069.5	10112.5	10126.8	10160.1	10160.1	10183.9	10198.2	10231.5	10260.2
5°	9802.7	9855.1	9869.4	9921.8	9964.8	10017.1	10050.5	10102.9	10150.5	10222.1	10288.8
7.5°	9655.0	9697.8	9726.4	9788.4	9836.1	9893.2	9950.4	10021.8	10088.5	10174.5	10269.8
10°	9583.4	9640.7	9683.5	9745.5	9802.7	9864.7	9921.8	10002.8	10079.1	10188.8	10293.5
12.5°	9564.4	9631.1	9683.5	9769.4	9826.5	9893.2	9959.9	10050.5	10131.5	10245.9	10365.1
15°	9564.4	9655.0	9726.4	9821.8	9888.5	9974.2	10045.8	10136.2	10226.8	10345.9	10460.2
17.5°	9545.4	9655.0	9745.5	9855.1	9940.8	10026.7	10117.2	10203.1	10298.2	10412.8	10541.3
20°	9469.1	9607.4	9716.8	9845.5	9936.1	10031.5	10122.1	10217.2	10317.4	10436.5	10546.2
22.5°	9335.7	9497.7	9621.7	9759.8	9864.7	9959.9	10050.5	10145.8	10255.5	10369.8	10484.2
25°	9159.4	9311.8	9445.4	9588.2	9693.1	9797.8	9883.8	9993.4	10093.4	10203.1	10293.5
27.5°	8892.4	9054.4	9183.1	9331.0	9426.1	9526.4	9597.8	9688.4	9783.7	9874.1	9945.7
30°	8492.2	8639.9	8773.3	8906.7	9002.0	9073.6	9149.8	9221.3	9283.3	9345.1	9407.1
32.5°	7905.9	8039.5	8168.2	8292.0	8368.3	8430.3	8487.3	8530.3	8563.6	8597.0	8601.7
35°	7100.7	7210.2	7291.2	7400.9	7472.4	7529.5	7529.5	7548.6	7543.8	7529.5	7515.2
37.5°	6200.0	6242.8	6276.1	6319.1	6323.8	6323.8	6295.3	6271.4	6233.3	6223.7	6195.1
40°	5261.2	5203.9	5161.0	5103.9	5070.6	4999.0	4937.2	4894.2	4832.2	4822.8	4813.2
42.5°	4369.9	4236.5	4117.4	4017.4	3903.1	3802.8	3712.4	3645.7	3598.0	3593.1	3598.0
45°	3645.7	3493.1	3316.8	3178.7	3050.0	2926.0	2806.9	2725.9	2683.0	2673.4	2683.0
47.5°	3097.6	2921.3	2749.7	2592.4	2454.3	2316.0	2196.9	2087.3	2034.9	2020.6	2015.9
50°	2664.0	2482.9	2301.7	2139.6	1987.2	1848.9	1701.2	1596.5	1529.8	1505.9	1486.8
52.5°	2239.9	2077.8	1891.9	1725.2	1572.6	1410.5	1258.1	1138.9	1072.2	1043.7	1024.5
55°	1868.2	1706.1	1534.5	1372.5	1210.5	1048.4	895.8	781.5	710.1	676.7	652.8
57.5°	1491.5	1339.1	1191.4	1029.4	895.8	738.7	586.1	486.1	424.1	386.0	367.0
60°	1153.2	1034.1	905.4	772.1	643.4	514.7	390.7	295.4	247.7	219.3	195.4
62.5°	872.1	772.1	686.1	571.8	471.7	362.1	267.0	190.7	147.7	124.0	114.4
65°	629.1	552.8	476.5	405.1	333.7	252.6	181.0	124.0	85.7	71.4	66.7
67.5°	448.0	386.0	328.8	281.1	228.7	181.0	128.7	85.7	66.7	57.3	52.4
70°	314.4	267.0	228.7	186.0	152.4	119.1	100.0	62.0	38.1	43.0	33.3
72.5°	209.7	176.3	157.3	128.7	104.7	85.7	62.0	43.0	43.0	33.3	28.6
75°	114.4	104.7	81.0	62.0	52.4	47.7	19.0	9.6	4.7	14.3	4.7
77.5°	81.0	71.4	62.0	52.4	43.0	33.3	19.0	19.0	14.3	19.0	9.6
80°	52.4	43.0	38.1	38.1	23.7	14.3	9.6	9.6	14.3	4.7	4.7
82.5°	33.3	28.6	23.7	23.7	23.7	14.3	14.3	14.3	14.3	9.6	9.6
85°	19.0	14.3	9.6	9.6	4.7	9.6	0.0	4.7	4.7	0.0	0.0
87.5°	9.6	4.7	4.7	4.7	4.7	0.0	0.0	4.7	0.0	4.7	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2	10198.2
2.5°	10279.2	10298.2	10322.2	10341.2	10384.1	10393.6	10412.8	10431.8	10446.1	10460.2	10465.2
5°	10345.9	10417.5	10484.2	10555.6	10646.2	10708.2	10779.6	10841.6	10903.6	10955.9	10994.0
7.5°	10365.1	10474.6	10574.8	10698.6	10832.0	10946.5	11065.6	11184.6	11308.6	11403.9	11485.0
10°	10403.2	10536.6	10665.2	10812.9	10984.6	11137.0	11284.7	11442.0	11599.3	11732.7	11852.0
12.5°	10469.9	10617.6	10755.9	10917.9	11094.2	11265.7	11427.7	11604.0	11770.9	11918.6	12052.0
15°	10579.5	10717.6	10851.2	11003.6	11179.9	11337.2	11499.3	11670.7	11837.6	11990.0	12114.0
17.5°	10650.9	10779.6	10913.0	11051.3	11199.0	11342.0	11494.4	11647.0	11799.4	11937.7	12052.0
20°	10650.9	10774.9	10874.9	10998.9	11137.0	11260.9	11384.9	11518.3	11651.7	11766.0	11875.7
22.5°	10565.2	10684.3	10760.6	10855.9	10975.0	11079.9	11146.6	11294.3	11394.3	11494.4	11575.4
25°	10365.1	10450.8	10512.8	10579.5	10674.8	10746.2	10803.5	10889.2	10989.3	11027.5	11084.6
27.5°	10002.8	10064.8	10098.1	10112.5	10160.1	10198.2	10207.8	10245.9	10288.8	10298.2	10322.2
30°	9431.0	9435.7	9421.4	9416.7	9392.8	9364.3	9359.4	9354.7	9335.7	9316.7	9321.4
32.5°	8568.4	8544.6	8487.3	8425.6	8363.6	8296.9	8258.6	8211.0	8182.3	8153.9	8120.5
35°	7453.2	7396.1	7315.1	7238.8	7167.4	7114.9	7029.1	7000.5	6972.1	6933.8	6924.4
37.5°	6142.7	6109.4	6033.1	5976.0	5937.9	5914.0	5871.1	5842.6	5842.6	5828.3	5818.7
40°	4789.3	4779.9	4751.2	4765.5	4746.5	4755.9	4751.2	4741.6	4765.5	4765.5	4775.1
42.5°	3593.1	3598.0	3612.4	3621.8	3650.4	3655.1	3679.0	3679.0	3693.4	3707.5	3717.1
45°	2673.4	2692.6	2692.6	2711.6	2740.3	2745.0	2754.4	2759.3	2768.7	2792.6	2802.0
47.5°	2006.3	2011.0	2011.0	2015.9	2025.3	2034.9	2030.2	2034.9	2049.2	2039.6	2049.2
50°	1482.1	1486.8	1472.5	1458.2	1472.5	1472.5	1467.8	1453.5	1467.8	1448.8	1458.2
52.5°	1010.4	1005.5	991.2	996.1	986.5	981.7	981.7	972.1	972.1	972.1	953.1
55°	638.7	638.7	629.1	629.1	624.4	614.7	610.0	605.1	600.4	595.7	595.7
57.5°	357.4	362.1	348.0	343.1	348.0	343.1	333.7	333.7	333.7	319.3	328.8
60°	195.4	190.7	186.0	181.0	176.3	181.0	181.0	171.6	171.6	171.6	176.3
62.5°	104.7	104.7	100.0	100.0	95.3	95.3	104.7	90.6	95.3	90.6	95.3
65°	57.3	71.4	52.4	52.4	66.7	62.0	57.3	57.3	62.0	52.4	57.3
67.5°	62.0	43.0	38.1	43.0	38.1	38.1	38.1	47.7	43.0	33.3	43.0
70°	28.6	33.3	33.3	23.7	38.1	19.0	33.3	19.0	28.6	23.7	28.6
72.5°	28.6	28.6	28.6	19.0	28.6	19.0	23.7	23.7	19.0	19.0	28.6
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°	9.6	9.6	4.7	4.7	4.7	4.7	9.6	9.6	9.6	0.0	4.7
80°	9.6	9.6	0.0	4.7	0.0	0.0	4.7	0.0	4.7	0.0	9.6
82.5°	4.7	9.6	4.7	4.7	9.6	9.6	9.6	4.7	4.7	4.7	4.7
85°	0.0	4.7	0.0	0.0	0.0	0.0	9.6	0.0	0.0	0.0	4.7
87.5°	0.0	4.7	0.0	0.0	0.0	0.0	4.7	4.7	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: P250272

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10198.2	10198.2	10198.2	10198.2
2.5°	10469.9	10474.6	10484.2	10479.5
5°	11022.6	11060.9	11079.9	11075.2
7.5°	11542.0	11608.9	11647.0	11647.0
10°	11942.4	12018.7	12075.8	12085.4
12.5°	12156.8	12242.7	12319.0	12299.8
15°	12218.8	12304.7	12380.8	12366.5
17.5°	12147.4	12233.1	12290.4	12280.7
20°	11952.0	12023.4	12080.7	12075.8
22.5°	11647.0	11709.0	11756.6	11751.7
25°	11132.3	11175.2	11213.3	11194.3
27.5°	10341.2	10355.5	10379.2	10350.8
30°	9288.0	9297.5	9307.1	9302.4
32.5°	8106.2	8101.3	8091.9	8082.3
35°	6910.1	6910.1	6914.8	6886.1
37.5°	5823.4	5818.7	5833.0	5818.7
40°	4784.6	4779.9	4798.9	4775.1
42.5°	3731.4	3745.7	3750.4	3750.4
45°	2806.9	2811.7	2816.4	2816.4
47.5°	2049.2	2053.9	2077.8	2049.2
50°	1448.8	1453.5	1458.2	1448.8
52.5°	957.8	962.7	957.8	943.5
55°	586.1	591.0	591.0	591.0
57.5°	314.4	319.3	319.3	314.4
60°	171.6	166.7	171.6	162.0
62.5°	90.6	100.0	95.3	85.7
65°	57.3	57.3	57.3	66.7
67.5°	47.7	38.1	43.0	33.3
70°	28.6	33.3	33.3	23.7
72.5°	23.7	23.7	23.7	28.6
75°	0.0	0.0	0.0	0.0
77.5°	9.6	9.6	9.6	4.7
80°	4.7	0.0	4.7	0.0
82.5°	4.7	4.7	9.6	4.7
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)