

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: P250258

Luminaire Tested: **LD8B175D010 ER8B175935 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250258
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 ER8B175935 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15950.0 lumens
Efficiency: N/A
Efficacy: 90.0 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

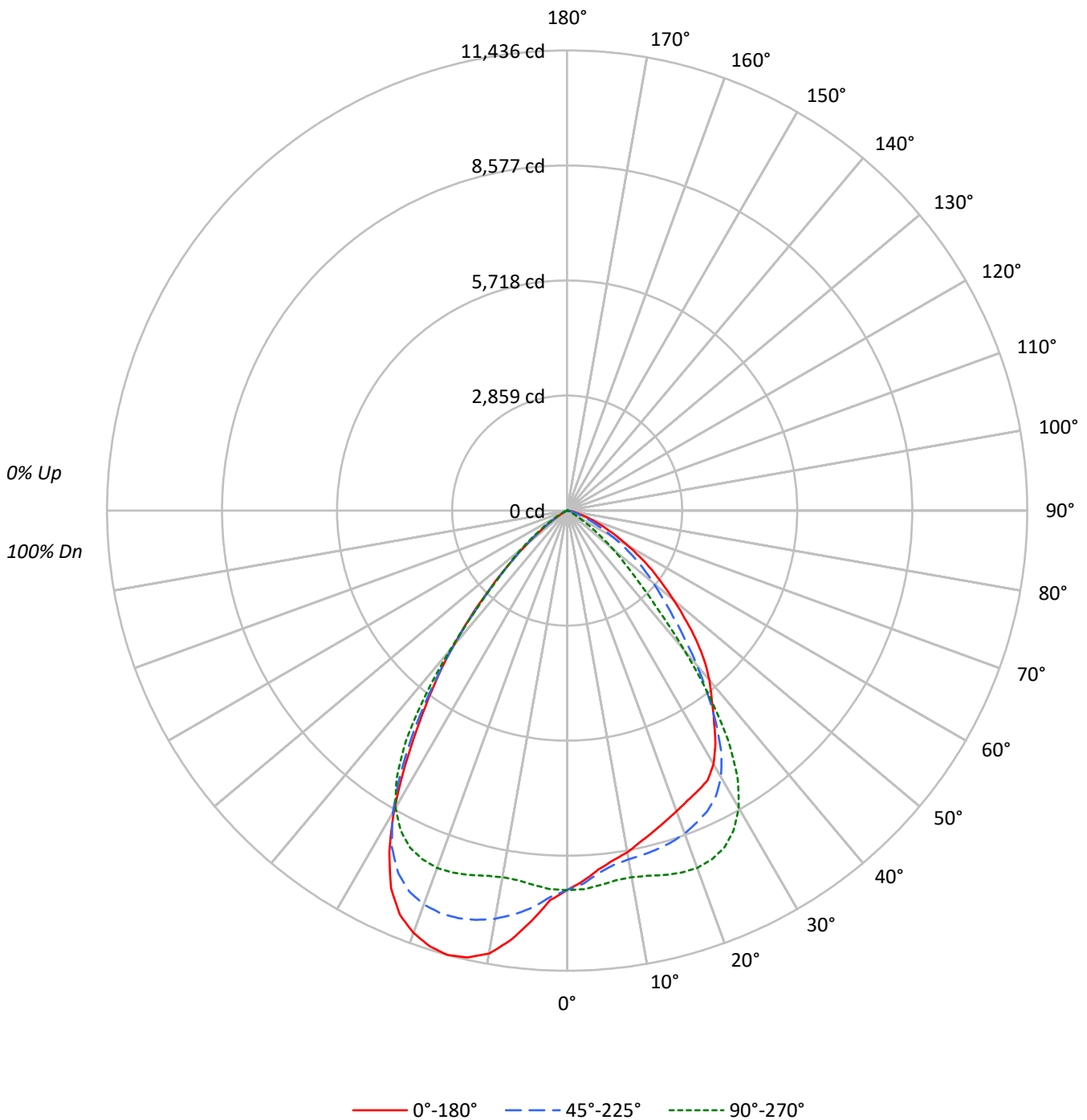
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	290827	290827	290827
5°	277067	289207	317041
10°	269922	289655	349959
15°	263802	299253	365100
20°	260898	310069	366468
25°	261509	314447	352231
30°	259082	303650	306317
35°	239402	262790	239729
40°	221228	182197	177761
45°	196996	109934	113584
50°	165756	70827	64274
55°	137898	38853	29386
60°	107637	16849	9239
65°	79430	8362	4502
70°	55232	5166	1974
75°	33610	1060	0
80°	24257	1580	0
85°	15603	1557	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	906.7	5.7
10°-20°	2713.5	17.0
20°-30°	4155.5	26.1
30°-40°	4073.8	25.5
40°-50°	2453.2	15.4
50°-60°	1129.2	7.1
60°-70°	396.7	2.5
70°-80°	103.8	0.7
80°-90°	17.7	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°	7775.7	48.8
0°-40°	11849.5	74.3
0°-60°	15431.9	96.8
0°-90°	15950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15950.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9431	9431	9431	9431	9431	
5°	8951	9035	9343	9903	10242	845
15°	8263	8709	9374	10485	11436	2335
25°	7686	8242	9242	9938	10352	3540
35°	6360	6448	6981	6580	6368	3983
45°	4517	3720	2521	2538	2605	3464
55°	2565	2032	723	568	547	2289
65°	1089	754	115	57	62	1109
75°	282	163	9	0	0	342
85°	44	22	4	0	0	61
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°	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3
2.5°	9210.9	9219.8	9219.8	9219.8	9237.4	9241.9	9237.4	9241.9	9250.6	9281.4	9294.7
5°	8950.9	8937.7	8946.6	8942.0	8964.2	8977.4	8968.5	8981.8	9012.6	9034.7	9056.7
7.5°	8765.9	8765.9	8765.9	8774.6	8787.8	8814.3	8810.0	8818.7	8849.5	8880.4	8911.2
10°	8620.4	8616.0	8616.0	8638.0	8655.6	8686.4	8695.3	8721.8	8761.4	8801.1	8836.3
12.5°	8430.8	8435.4	8457.3	8479.5	8519.0	8567.4	8593.9	8629.3	8691.0	8757.0	8796.7
15°	8263.4	8267.8	8285.5	8329.4	8378.0	8435.4	8492.5	8549.8	8624.8	8708.6	8779.1
17.5°	8100.3	8104.7	8117.9	8166.5	8228.2	8303.1	8369.2	8444.1	8541.1	8638.0	8726.2
20°	7950.5	7946.1	7968.1	8012.2	8091.6	8162.0	8228.2	8316.4	8422.1	8541.1	8642.4
22.5°	7805.0	7805.0	7827.1	7871.2	7941.8	8012.2	8082.7	8175.2	8281.0	8395.6	8514.6
25°	7686.0	7681.6	7712.5	7734.6	7787.4	7858.0	7932.9	8007.8	8113.6	8241.5	8355.9
27.5°	7558.3	7553.9	7558.3	7584.8	7633.2	7686.0	7743.3	7809.5	7897.7	8003.5	8113.6
30°	7276.2	7280.6	7280.6	7302.7	7329.2	7386.3	7417.2	7483.4	7562.6	7650.8	7747.9
32.5°	6857.5	6861.9	6861.9	6870.8	6892.7	6919.2	6945.7	6994.1	7055.8	7130.7	7218.9
35°	6359.6	6359.6	6355.1	6359.6	6372.8	6372.8	6394.8	6372.8	6403.7	6447.8	6513.8
37.5°	5901.2	5892.3	5883.6	5874.7	5861.5	5839.5	5808.7	5755.7	5742.5	5724.9	5729.2
40°	5495.8	5491.4	5464.9	5442.8	5398.7	5345.9	5271.0	5178.5	5103.6	5015.4	4940.5
42.5°	5046.2	5041.7	5019.8	4980.0	4931.6	4852.3	4733.3	4610.0	4460.1	4327.9	4191.3
45°	4517.3	4530.5	4499.7	4455.6	4398.3	4323.4	4191.3	4041.3	3891.4	3719.6	3547.7
47.5°	3966.4	3962.0	3940.1	3913.6	3865.1	3790.2	3702.1	3539.0	3380.2	3221.7	3045.4
50°	3455.2	3437.6	3428.7	3402.4	3371.5	3309.9	3217.2	3084.9	2944.0	2794.1	2631.1
52.5°	2970.5	2970.5	2948.3	2930.7	2904.2	2855.8	2776.5	2670.8	2551.8	2410.7	2238.9
55°	2565.0	2556.1	2534.2	2512.1	2485.6	2454.7	2384.3	2296.2	2168.3	2031.7	1881.9
57.5°	2133.1	2128.6	2119.9	2093.4	2080.1	2049.3	1970.0	1881.9	1771.8	1652.8	1529.2
60°	1745.3	1727.7	1709.9	1692.3	1670.3	1639.5	1586.5	1511.6	1419.1	1313.4	1190.0
62.5°	1397.2	1423.5	1370.7	1370.7	1326.6	1300.1	1251.7	1207.6	1110.5	1013.7	907.9
65°	1088.6	1088.6	1066.5	1048.9	1022.4	991.5	943.1	899.0	828.5	753.5	678.6
67.5°	833.0	828.5	806.5	788.9	766.8	749.2	714.0	661.0	608.2	546.6	484.7
70°	612.6	608.2	603.7	572.9	555.3	533.3	506.8	471.6	431.9	387.8	330.5
72.5°	440.6	440.6	427.6	414.3	396.7	378.9	352.6	330.5	295.3	264.5	224.8
75°	282.1	277.7	277.7	255.6	255.6	229.1	211.5	198.3	180.7	163.1	127.9
77.5°	202.8	198.3	193.9	185.0	176.3	167.4	154.2	136.6	123.4	105.8	92.5
80°	136.6	127.9	123.4	123.4	110.1	105.8	110.1	83.8	79.3	66.0	57.3
82.5°	83.8	83.8	79.3	79.3	74.9	70.6	57.3	57.3	53.0	48.4	39.7
85°	44.1	57.3	39.7	44.1	39.7	44.1	39.7	30.8	26.5	21.9	21.9
87.5°	26.5	17.6	17.6	26.5	21.9	17.6	17.6	17.6	13.2	8.9	8.9
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°	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3
2.5°	9286.0	9316.8	9312.3	9352.0	9365.2	9396.1	9396.1	9418.0	9431.3	9462.1	9488.6
5°	9065.6	9114.0	9127.2	9175.7	9215.4	9263.8	9294.7	9343.1	9387.2	9453.4	9515.1
7.5°	8929.0	8968.5	8995.0	9052.3	9096.4	9149.2	9202.2	9268.2	9329.9	9409.3	9497.5
10°	8862.8	8915.7	8955.3	9012.6	9065.6	9122.9	9175.7	9250.6	9321.2	9422.6	9519.4
12.5°	8845.2	8906.8	8955.3	9034.7	9087.5	9149.2	9210.9	9294.7	9369.6	9475.3	9585.6
15°	8845.2	8929.0	8995.0	9083.2	9144.8	9224.1	9290.3	9373.9	9457.8	9567.9	9673.6
17.5°	8827.6	8929.0	9012.6	9114.0	9193.3	9272.7	9356.3	9435.8	9523.8	9629.7	9748.5
20°	8757.0	8884.9	8986.1	9105.1	9188.9	9277.1	9360.9	9448.9	9541.6	9651.7	9753.1
22.5°	8633.6	8783.5	8898.1	9025.8	9122.9	9210.9	9294.7	9382.8	9484.2	9590.0	9695.8
25°	8470.6	8611.5	8735.0	8867.1	8964.2	9061.0	9140.5	9241.9	9334.4	9435.8	9519.4
27.5°	8223.7	8373.5	8492.5	8629.3	8717.3	8810.0	8876.0	8959.8	9048.0	9131.6	9197.8
30°	7853.6	7990.2	8113.6	8236.9	8325.1	8391.3	8461.7	8527.9	8585.2	8642.4	8699.7
32.5°	7311.4	7434.9	7553.9	7668.4	7739.0	7796.3	7849.1	7888.8	7919.6	7950.5	7954.8
35°	6566.8	6668.0	6742.9	6844.3	6910.5	6963.3	6963.3	6980.9	6976.5	6963.3	6950.1
37.5°	5733.8	5773.3	5804.1	5843.9	5848.2	5848.2	5821.9	5799.8	5764.6	5755.7	5729.2
40°	4865.6	4812.6	4772.9	4720.1	4689.2	4623.0	4565.9	4526.2	4468.8	4460.1	4451.2
42.5°	4041.3	3917.9	3807.8	3715.3	3609.5	3516.8	3433.2	3371.5	3327.5	3322.9	3327.5
45°	3371.5	3230.4	3067.3	2939.6	2820.6	2706.0	2595.9	2520.9	2481.2	2472.3	2481.2
47.5°	2864.7	2701.6	2542.9	2397.4	2269.7	2141.8	2031.7	1930.3	1881.9	1868.6	1864.3
50°	2463.6	2296.2	2128.6	1978.7	1837.8	1709.9	1573.3	1476.4	1414.8	1392.6	1375.0
52.5°	2071.4	1921.6	1749.6	1595.4	1454.3	1304.5	1163.5	1053.2	991.5	965.2	947.5
55°	1727.7	1577.8	1419.1	1269.3	1119.4	969.6	828.5	722.7	656.7	625.8	603.7
57.5°	1379.4	1238.4	1101.8	952.0	828.5	683.2	542.0	449.5	392.2	357.0	339.4
60°	1066.5	956.4	837.4	714.0	595.0	476.0	361.4	273.2	229.1	202.8	180.7
62.5°	806.5	714.0	634.5	528.8	436.3	334.9	246.9	176.3	136.6	114.6	105.8
65°	581.8	511.2	440.6	374.6	308.6	233.6	167.4	114.6	79.3	66.0	61.7
67.5°	414.3	357.0	304.0	259.9	211.5	167.4	119.0	79.3	61.7	53.0	48.4
70°	290.8	246.9	211.5	172.0	140.9	110.1	92.5	57.3	35.2	39.7	30.8
72.5°	193.9	163.1	145.5	119.0	96.9	79.3	57.3	39.7	39.7	30.8	26.5
75°	105.8	96.9	74.9	57.3	48.4	44.1	17.6	8.9	4.4	13.2	4.4
77.5°	74.9	66.0	57.3	48.4	39.7	30.8	17.6	17.6	13.2	17.6	8.9
80°	48.4	39.7	35.2	35.2	21.9	13.2	8.9	8.9	13.2	4.4	4.4
82.5°	30.8	26.5	21.9	21.9	21.9	13.2	13.2	13.2	13.2	8.9	8.9
85°	17.6	13.2	8.9	8.9	4.4	8.9	0.0	4.4	4.4	0.0	0.0
87.5°	8.9	4.4	4.4	4.4	4.4	0.0	0.0	4.4	0.0	4.4	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°	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3	9431.3
2.5°	9506.2	9523.8	9545.9	9563.5	9603.2	9611.9	9629.7	9647.3	9660.6	9673.6	9678.2
5°	9567.9	9634.1	9695.8	9761.8	9845.6	9902.9	9968.9	10026.3	10083.6	10132.0	10167.2
7.5°	9585.6	9686.9	9779.6	9894.0	10017.4	10123.3	10233.4	10343.5	10458.2	10546.3	10621.3
10°	9620.8	9744.2	9863.2	9999.8	10158.5	10299.5	10436.1	10581.5	10727.0	10850.4	10960.7
12.5°	9682.5	9819.1	9947.0	10096.8	10259.9	10418.5	10568.3	10731.4	10885.7	11022.3	11145.7
15°	9783.9	9911.6	10035.2	10176.1	10339.2	10484.7	10634.5	10793.1	10947.4	11088.4	11203.0
17.5°	9849.9	9968.9	10092.3	10220.2	10356.8	10489.0	10630.0	10771.1	10912.1	11039.9	11145.7
20°	9849.9	9964.6	10057.1	10171.8	10299.5	10414.1	10528.8	10652.1	10775.5	10881.2	10982.6
22.5°	9770.7	9880.8	9951.3	10039.5	10149.6	10246.7	10308.3	10444.9	10537.5	10630.0	10704.9
25°	9585.6	9664.9	9722.2	9783.9	9872.1	9938.1	9991.1	10070.3	10162.9	10198.2	10251.0
27.5°	9250.6	9307.9	9338.8	9352.0	9396.1	9431.3	9440.2	9475.3	9515.1	9523.8	9545.9
30°	8721.8	8726.2	8712.9	8708.6	8686.4	8660.1	8655.6	8651.2	8633.6	8616.0	8620.4
32.5°	7924.0	7902.1	7849.1	7791.9	7734.6	7672.9	7637.6	7593.5	7567.0	7540.7	7509.9
35°	6892.7	6839.9	6765.0	6694.5	6628.4	6579.8	6500.5	6474.1	6447.8	6412.4	6403.7
37.5°	5680.8	5649.9	5579.4	5526.6	5491.4	5469.3	5429.5	5403.2	5403.2	5390.0	5381.1
40°	4429.1	4420.4	4393.9	4407.2	4389.6	4398.3	4393.9	4385.0	4407.2	4407.2	4416.0
42.5°	3322.9	3327.5	3340.7	3349.4	3375.9	3380.2	3402.4	3402.4	3415.6	3428.7	3437.6
45°	2472.3	2490.1	2490.1	2507.7	2534.2	2538.5	2547.2	2551.8	2560.5	2582.6	2591.3
47.5°	1855.4	1859.7	1859.7	1864.3	1873.0	1881.9	1877.5	1881.9	1895.1	1886.2	1895.1
50°	1370.7	1375.0	1361.8	1348.5	1361.8	1361.8	1357.4	1344.2	1357.4	1339.8	1348.5
52.5°	934.4	929.9	916.6	921.2	912.3	907.9	907.9	899.0	899.0	899.0	881.4
55°	590.6	590.6	581.8	581.8	577.4	568.5	564.2	559.6	555.3	550.9	550.9
57.5°	330.5	334.9	321.8	317.3	321.8	317.3	308.6	308.6	308.6	295.3	304.0
60°	180.7	176.3	172.0	167.4	163.1	167.4	167.4	158.7	158.7	158.7	163.1
62.5°	96.9	96.9	92.5	92.5	88.2	88.2	96.9	83.8	88.2	83.8	88.2
65°	53.0	66.0	48.4	48.4	61.7	57.3	53.0	53.0	57.3	48.4	53.0
67.5°	57.3	39.7	35.2	39.7	35.2	35.2	35.2	44.1	39.7	30.8	39.7
70°	26.5	30.8	30.8	21.9	35.2	17.6	30.8	17.6	26.5	21.9	26.5
72.5°	26.5	26.5	26.5	17.6	26.5	17.6	21.9	21.9	17.6	17.6	26.5
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°	8.9	8.9	4.4	4.4	4.4	4.4	8.9	8.9	8.9	0.0	4.4
80°	8.9	8.9	0.0	4.4	0.0	0.0	4.4	0.0	4.4	0.0	8.9
82.5°	4.4	8.9	4.4	4.4	8.9	8.9	8.9	4.4	4.4	4.4	4.4
85°	0.0	4.4	0.0	0.0	0.0	0.0	8.9	0.0	0.0	0.0	4.4
87.5°	0.0	4.4	0.0	0.0	0.0	0.0	4.4	4.4	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: P250258

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9431.3	9431.3	9431.3	9431.3
2.5°	9682.5	9686.9	9695.8	9691.4
5°	10193.7	10229.1	10246.7	10242.3
7.5°	10674.1	10735.9	10771.1	10771.1
10°	11044.3	11114.9	11167.6	11176.5
12.5°	11242.6	11322.0	11392.6	11374.8
15°	11299.9	11379.3	11449.7	11436.5
17.5°	11233.9	11313.1	11366.1	11357.2
20°	11053.2	11119.2	11172.2	11167.6
22.5°	10771.1	10828.4	10872.5	10868.0
25°	10295.1	10334.8	10370.0	10352.4
27.5°	9563.5	9576.8	9598.7	9572.4
30°	8589.6	8598.3	8607.2	8602.8
32.5°	7496.6	7492.1	7483.4	7474.5
35°	6390.4	6390.4	6394.8	6368.3
37.5°	5385.5	5381.1	5394.3	5381.1
40°	4424.8	4420.4	4438.0	4416.0
42.5°	3450.8	3464.1	3468.4	3468.4
45°	2595.9	2600.2	2604.6	2604.6
47.5°	1895.1	1899.5	1921.6	1895.1
50°	1339.8	1344.2	1348.5	1339.8
52.5°	885.8	890.3	885.8	872.5
55°	542.0	546.6	546.6	546.6
57.5°	290.8	295.3	295.3	290.8
60°	158.7	154.2	158.7	149.8
62.5°	83.8	92.5	88.2	79.3
65°	53.0	53.0	53.0	61.7
67.5°	44.1	35.2	39.7	30.8
70°	26.5	30.8	30.8	21.9
72.5°	21.9	21.9	21.9	26.5
75°	0.0	0.0	0.0	0.0
77.5°	8.9	8.9	8.9	4.4
80°	4.4	0.0	4.4	0.0
82.5°	4.4	4.4	8.9	4.4
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)