

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: P250262

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250262
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: LSR8B100D010 EC8B100940 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9876.0 lumens
Efficiency: N/A
Efficacy: 92.9 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

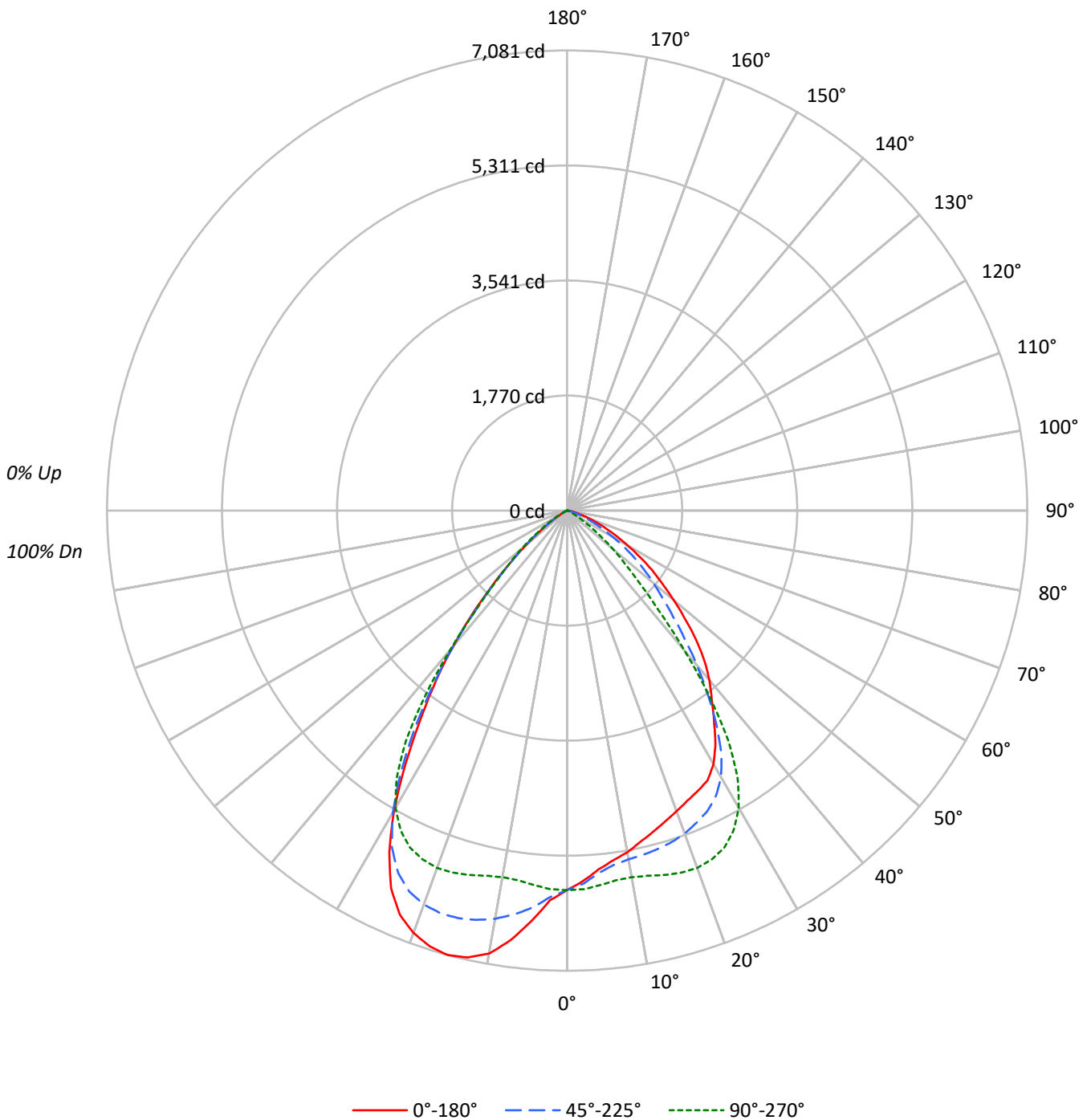
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	180075	180075	180075
5°	171557	179073	196308
10°	167131	179349	216689
15°	163343	185294	226064
20°	161543	191989	226911
25°	161924	194700	218098
30°	160419	188014	189666
35°	148235	162717	148439
40°	136980	112812	110070
45°	121975	68069	70328
50°	102633	43857	39798
55°	85384	24058	18193
60°	66643	10435	5723
65°	49178	5181	2787
70°	34197	3201	1226
75°	20814	655	0
80°	15023	977	0
85°	9659	955	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.4	5.7
10°-20°	1680.2	17.0
20°-30°	2573.0	26.1
30°-40°	2522.4	25.5
40°-50°	1519.0	15.4
50°-60°	699.2	7.1
60°-70°	245.6	2.5
70°-80°	64.3	0.7
80°-90°	10.9	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°	4814.6	48.8
0°-40°	7337.0	74.3
0°-60°	9555.2	96.8
0°-90°	9876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9876.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5840	5840	5840	5840	5840	
5°	5542	5594	5785	6132	6342	523
15°	5117	5392	5804	6492	7081	1446
25°	4759	5103	5722	6154	6410	2192
35°	3938	3992	4322	4074	3943	2466
45°	2797	2303	1561	1572	1613	2145
55°	1588	1258	448	352	338	1417
65°	674	467	71	36	38	687
75°	175	101	6	0	0	212
85°	27	14	3	0	0	38
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°	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7
2.5°	5703.2	5708.7	5708.7	5708.7	5719.6	5722.4	5719.6	5722.4	5727.8	5746.9	5755.1
5°	5542.3	5534.1	5539.6	5536.8	5550.5	5558.7	5553.2	5561.4	5580.5	5594.2	5607.8
7.5°	5427.7	5427.7	5427.7	5433.1	5441.3	5457.7	5455.0	5460.4	5479.5	5498.6	5517.7
10°	5337.6	5334.9	5334.9	5348.5	5359.4	5378.5	5384.0	5400.4	5424.9	5449.5	5471.3
12.5°	5220.2	5223.1	5236.6	5250.3	5274.8	5304.8	5321.2	5343.1	5381.3	5422.2	5446.8
15°	5116.6	5119.3	5130.3	5157.5	5187.6	5223.1	5258.4	5293.9	5340.3	5392.2	5435.9
17.5°	5015.6	5018.3	5026.5	5056.6	5094.8	5141.2	5182.1	5228.4	5288.5	5348.5	5403.1
20°	4922.8	4920.1	4933.7	4961.0	5010.2	5053.8	5094.8	5149.4	5214.9	5288.5	5351.2
22.5°	4832.7	4832.7	4846.4	4873.7	4917.4	4961.0	5004.7	5062.0	5127.5	5198.5	5272.1
25°	4759.1	4756.4	4775.5	4789.2	4821.8	4865.5	4911.9	4958.3	5023.8	5103.0	5173.9
27.5°	4680.0	4677.3	4680.0	4696.4	4726.4	4759.1	4794.5	4835.5	4890.1	4955.6	5023.8
30°	4505.3	4508.0	4508.0	4521.7	4538.1	4573.5	4592.6	4633.6	4682.7	4737.3	4797.4
32.5°	4246.1	4248.8	4248.8	4254.3	4267.9	4284.3	4300.7	4330.7	4368.9	4415.2	4469.8
35°	3937.8	3937.8	3935.0	3937.8	3946.0	3946.0	3959.6	3946.0	3965.1	3992.4	4033.2
37.5°	3653.9	3648.4	3643.0	3637.5	3629.3	3615.7	3596.6	3563.8	3555.6	3544.7	3547.4
40°	3402.9	3400.2	3383.8	3370.1	3342.8	3310.1	3263.7	3206.4	3160.0	3105.5	3059.1
42.5°	3124.6	3121.7	3108.2	3083.6	3053.6	3004.5	2930.8	2854.4	2761.6	2679.8	2595.2
45°	2797.0	2805.2	2786.1	2758.8	2723.3	2677.0	2595.2	2502.3	2409.5	2303.1	2196.7
47.5°	2455.9	2453.2	2439.6	2423.2	2393.2	2346.8	2292.3	2191.3	2093.0	1994.8	1885.7
50°	2139.4	2128.5	2123.0	2106.7	2087.6	2049.4	1992.0	1910.1	1822.9	1730.1	1629.1
52.5°	1839.3	1839.3	1825.6	1814.7	1798.3	1768.3	1719.2	1653.7	1580.0	1492.6	1386.3
55°	1588.2	1582.7	1569.1	1555.4	1539.0	1519.9	1476.4	1421.8	1342.6	1258.0	1165.2
57.5°	1320.8	1318.0	1312.6	1296.2	1288.0	1268.9	1219.8	1165.2	1097.0	1023.4	946.9
60°	1080.6	1069.7	1058.7	1047.8	1034.3	1015.2	982.4	936.0	878.7	813.2	736.8
62.5°	865.1	881.4	848.7	848.7	821.4	805.0	775.0	747.7	687.6	627.7	562.2
65°	674.0	674.0	660.3	649.4	633.0	613.9	584.0	556.7	513.0	466.6	420.2
67.5°	515.8	513.0	499.4	488.5	474.8	463.9	442.1	409.3	376.6	338.4	300.1
70°	379.3	376.6	373.8	354.7	343.8	330.2	313.8	292.0	267.4	240.1	204.6
72.5°	272.8	272.8	264.7	256.5	245.6	234.6	218.4	204.6	182.9	163.8	139.2
75°	174.7	172.0	172.0	158.3	158.3	141.9	131.0	122.8	111.9	101.0	79.2
77.5°	125.6	122.8	120.1	114.6	109.2	103.7	95.5	84.6	76.4	65.5	57.3
80°	84.6	79.2	76.4	76.4	68.2	65.5	68.2	51.9	49.1	40.9	35.5
82.5°	51.9	51.9	49.1	49.1	46.4	43.7	35.5	35.5	32.8	30.0	24.6
85°	27.3	35.5	24.6	27.3	24.6	27.3	24.6	19.1	16.4	13.6	13.6
87.5°	16.4	10.9	10.9	16.4	13.6	10.9	10.9	10.9	8.2	5.5	5.5
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: P250262

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7
2.5°	5749.7	5768.8	5766.0	5790.6	5798.8	5817.9	5817.9	5831.5	5839.7	5858.8	5875.2
5°	5613.3	5643.2	5651.4	5681.4	5706.0	5736.0	5755.1	5785.1	5812.4	5853.4	5891.6
7.5°	5528.7	5553.2	5569.6	5605.1	5632.4	5665.0	5697.8	5738.7	5776.9	5826.1	5880.7
10°	5487.7	5520.5	5545.0	5580.5	5613.3	5648.8	5681.4	5727.8	5771.5	5834.3	5894.3
12.5°	5476.8	5515.0	5545.0	5594.2	5626.9	5665.0	5703.2	5755.1	5801.5	5867.0	5935.3
15°	5476.8	5528.7	5569.6	5624.2	5662.3	5711.4	5752.4	5804.2	5856.1	5924.3	5989.8
17.5°	5465.9	5528.7	5580.5	5643.2	5692.3	5741.5	5793.3	5842.5	5897.0	5962.6	6036.1
20°	5422.2	5501.4	5564.1	5637.7	5689.6	5744.2	5796.1	5850.6	5908.0	5976.2	6039.0
22.5°	5345.8	5438.6	5509.6	5588.7	5648.8	5703.2	5755.1	5809.7	5872.5	5938.0	6003.5
25°	5244.8	5332.1	5408.6	5490.4	5550.5	5610.5	5659.6	5722.4	5779.7	5842.5	5894.3
27.5°	5092.0	5184.8	5258.4	5343.1	5397.6	5455.0	5495.9	5547.8	5602.4	5654.1	5695.1
30°	4862.8	4947.4	5023.8	5100.2	5154.8	5195.8	5239.3	5280.3	5315.8	5351.2	5386.7
32.5°	4527.1	4603.6	4677.3	4748.2	4791.9	4827.3	4860.0	4884.6	4903.7	4922.8	4925.5
35°	4066.0	4128.7	4175.1	4237.9	4278.9	4311.6	4311.6	4322.5	4319.8	4311.6	4303.4
37.5°	3550.3	3574.7	3593.8	3618.4	3621.1	3621.1	3604.8	3591.1	3569.3	3563.8	3547.4
40°	3012.7	2979.9	2955.3	2922.6	2903.5	2862.5	2827.1	2802.5	2767.0	2761.6	2756.1
42.5°	2502.3	2425.9	2357.7	2300.5	2235.0	2177.6	2125.8	2087.6	2060.3	2057.5	2060.3
45°	2087.6	2000.2	1899.2	1820.2	1746.5	1675.5	1607.3	1560.9	1536.3	1530.8	1536.3
47.5°	1773.8	1672.8	1574.5	1484.4	1405.4	1326.2	1258.0	1195.2	1165.2	1157.0	1154.3
50°	1525.4	1421.8	1318.0	1225.2	1137.9	1058.7	974.2	914.2	876.0	862.3	851.4
52.5°	1282.6	1189.8	1083.3	987.9	900.5	807.7	720.4	652.1	613.9	597.7	586.7
55°	1069.7	977.0	878.7	785.9	693.1	600.4	513.0	447.5	406.6	387.5	373.8
57.5°	854.1	766.8	682.2	589.5	513.0	423.0	335.6	278.3	242.8	221.0	210.2
60°	660.3	592.2	518.5	442.1	368.4	294.7	223.7	169.2	141.9	125.6	111.9
62.5°	499.4	442.1	392.9	327.4	270.1	207.3	152.9	109.2	84.6	71.0	65.5
65°	360.2	316.5	272.8	231.9	191.1	144.7	103.7	71.0	49.1	40.9	38.2
67.5°	256.5	221.0	188.3	161.0	131.0	103.7	73.7	49.1	38.2	32.8	30.0
70°	180.1	152.9	131.0	106.5	87.3	68.2	57.3	35.5	21.8	24.6	19.1
72.5°	120.1	101.0	90.1	73.7	60.0	49.1	35.5	24.6	24.6	19.1	16.4
75°	65.5	60.0	46.4	35.5	30.0	27.3	10.9	5.5	2.7	8.2	2.7
77.5°	46.4	40.9	35.5	30.0	24.6	19.1	10.9	10.9	8.2	10.9	5.5
80°	30.0	24.6	21.8	21.8	13.6	8.2	5.5	5.5	8.2	2.7	2.7
82.5°	19.1	16.4	13.6	13.6	13.6	8.2	8.2	8.2	8.2	5.5	5.5
85°	10.9	8.2	5.5	5.5	2.7	5.5	0.0	2.7	2.7	0.0	0.0
87.5°	5.5	2.7	2.7	2.7	2.7	0.0	0.0	2.7	0.0	2.7	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°	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7	5839.7
2.5°	5886.1	5897.0	5910.7	5921.6	5946.2	5951.6	5962.6	5973.5	5981.7	5989.8	5992.6
5°	5924.3	5965.3	6003.5	6044.3	6096.2	6131.7	6172.6	6208.1	6243.6	6273.6	6295.4
7.5°	5935.3	5998.0	6055.4	6126.2	6202.6	6268.2	6336.4	6404.6	6475.6	6530.1	6576.5
10°	5957.1	6033.5	6107.1	6191.7	6290.0	6377.3	6461.8	6551.9	6642.0	6718.4	6786.7
12.5°	5995.3	6079.8	6159.0	6251.8	6352.8	6451.0	6543.7	6644.7	6740.3	6824.9	6901.2
15°	6058.1	6137.1	6213.6	6300.9	6401.9	6491.9	6584.7	6682.9	6778.5	6865.8	6936.7
17.5°	6098.9	6172.6	6249.0	6328.2	6412.8	6494.6	6581.9	6669.3	6756.6	6835.8	6901.2
20°	6098.9	6169.9	6227.2	6298.2	6377.3	6448.3	6519.2	6595.6	6672.0	6737.5	6800.3
22.5°	6049.9	6118.0	6161.7	6216.3	6284.5	6344.6	6382.8	6467.4	6524.6	6581.9	6628.3
25°	5935.3	5984.4	6019.9	6058.1	6112.6	6153.5	6186.3	6235.4	6292.7	6314.6	6347.3
27.5°	5727.8	5763.3	5782.4	5790.6	5817.9	5839.7	5845.2	5867.0	5891.6	5897.0	5910.7
30°	5400.4	5403.1	5394.9	5392.2	5378.5	5362.2	5359.4	5356.7	5345.8	5334.9	5337.6
32.5°	4906.4	4892.8	4860.0	4824.7	4789.2	4751.0	4729.1	4701.8	4685.4	4669.1	4650.0
35°	4267.9	4235.2	4188.8	4145.1	4104.2	4074.1	4025.0	4008.6	3992.4	3970.4	3965.1
37.5°	3517.5	3498.4	3454.7	3422.0	3400.2	3386.5	3361.9	3345.6	3345.6	3337.4	3331.9
40°	2742.4	2737.0	2720.6	2728.8	2718.0	2723.3	2720.6	2715.1	2728.8	2728.8	2734.4
42.5°	2057.5	2060.3	2068.5	2073.9	2090.3	2093.0	2106.7	2106.7	2114.9	2123.0	2128.5
45°	1530.8	1541.8	1541.8	1552.7	1569.1	1571.8	1577.2	1580.0	1585.4	1599.1	1604.5
47.5°	1148.8	1151.5	1151.5	1154.3	1159.7	1165.2	1162.5	1165.2	1173.4	1167.9	1173.4
50°	848.7	851.4	843.2	835.0	843.2	843.2	840.5	832.3	840.5	829.6	835.0
52.5°	578.6	575.8	567.6	570.4	564.9	562.2	562.2	556.7	556.7	556.7	545.8
55°	365.7	365.7	360.2	360.2	357.5	352.0	349.3	346.5	343.8	341.1	341.1
57.5°	204.6	207.3	199.3	196.5	199.3	196.5	191.1	191.1	191.1	182.9	188.3
60°	111.9	109.2	106.5	103.7	101.0	103.7	103.7	98.3	98.3	98.3	101.0
62.5°	60.0	60.0	57.3	57.3	54.6	54.6	60.0	51.9	54.6	51.9	54.6
65°	32.8	40.9	30.0	30.0	38.2	35.5	32.8	32.8	35.5	30.0	32.8
67.5°	35.5	24.6	21.8	24.6	21.8	21.8	21.8	27.3	24.6	19.1	24.6
70°	16.4	19.1	19.1	13.6	21.8	10.9	19.1	10.9	16.4	13.6	16.4
72.5°	16.4	16.4	16.4	10.9	16.4	10.9	13.6	13.6	10.9	10.9	16.4
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°	5.5	5.5	2.7	2.7	2.7	2.7	5.5	5.5	5.5	0.0	2.7
80°	5.5	5.5	0.0	2.7	0.0	0.0	2.7	0.0	2.7	0.0	5.5
82.5°	2.7	5.5	2.7	2.7	5.5	5.5	5.5	2.7	2.7	2.7	2.7
85°	0.0	2.7	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	2.7
87.5°	0.0	2.7	0.0	0.0	0.0	0.0	2.7	2.7	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: P250262

CATALOG NUMBER: LSR8B100D010 EC8B100940 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5839.7	5839.7	5839.7	5839.7
2.5°	5995.3	5998.0	6003.5	6000.8
5°	6311.8	6333.7	6344.6	6341.9
7.5°	6609.2	6647.5	6669.3	6669.3
10°	6838.5	6882.2	6914.8	6920.3
12.5°	6961.2	7010.4	7054.1	7043.1
15°	6996.7	7045.9	7089.5	7081.3
17.5°	6955.8	7004.9	7037.7	7032.2
20°	6844.0	6884.8	6917.6	6914.8
22.5°	6669.3	6704.8	6732.1	6729.3
25°	6374.6	6399.2	6421.0	6410.1
27.5°	5921.6	5929.8	5943.4	5927.1
30°	5318.5	5323.9	5329.4	5326.7
32.5°	4641.8	4639.0	4633.6	4628.1
35°	3956.9	3956.9	3959.6	3943.2
37.5°	3334.6	3331.9	3340.1	3331.9
40°	2739.7	2737.0	2747.9	2734.4
42.5°	2136.7	2144.9	2147.6	2147.6
45°	1607.3	1610.0	1612.7	1612.7
47.5°	1173.4	1176.1	1189.8	1173.4
50°	829.6	832.3	835.0	829.6
52.5°	548.5	551.3	548.5	540.3
55°	335.6	338.4	338.4	338.4
57.5°	180.1	182.9	182.9	180.1
60°	98.3	95.5	98.3	92.8
62.5°	51.9	57.3	54.6	49.1
65°	32.8	32.8	32.8	38.2
67.5°	27.3	21.8	24.6	19.1
70°	16.4	19.1	19.1	13.6
72.5°	13.6	13.6	13.6	16.4
75°	0.0	0.0	0.0	0.0
77.5°	5.5	5.5	5.5	2.7
80°	2.7	0.0	2.7	0.0
82.5°	2.7	2.7	5.5	2.7
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)