

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: P250222

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250222
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: LSR8B150D010 EC8B150835 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16566.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

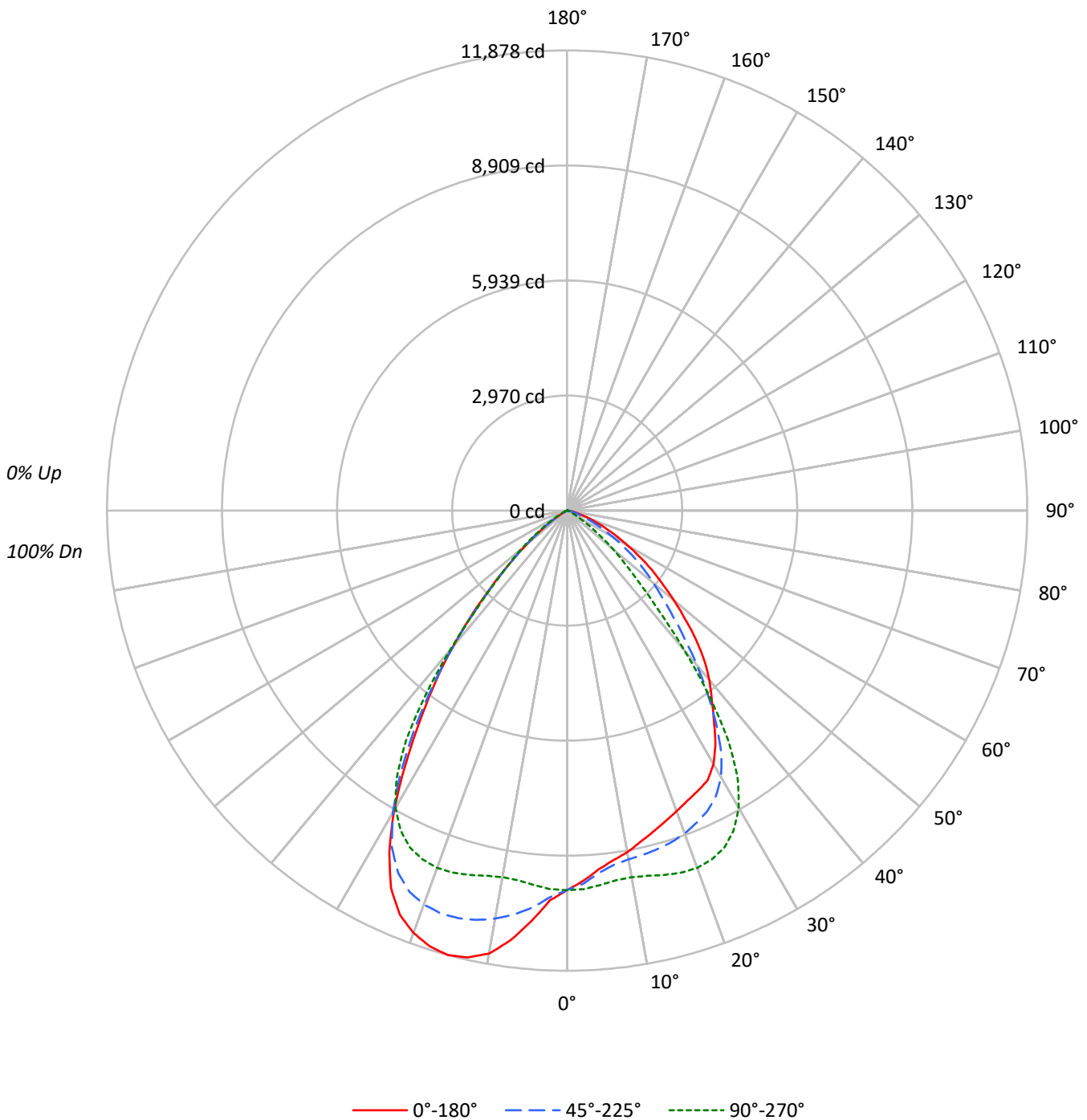
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	302057	302057	302057
5°	287768	300376	329287
10°	280346	300843	363476
15°	273989	310813	379201
20°	270973	322043	380625
25°	271608	326591	365834
30°	269087	315376	318150
35°	248647	272939	248986
40°	229770	189234	184629
45°	204601	114182	117971
50°	172155	73566	66759
55°	143226	40353	30520
60°	111794	17497	9596
65°	82494	8690	4677
70°	57368	5364	2056
75°	34909	1096	0
80°	25198	1634	0
85°	16204	1592	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	941.7	5.7
10°-20°	2818.3	17.0
20°-30°	4316.0	26.1
30°-40°	4231.1	25.5
40°-50°	2548.0	15.4
50°-60°	1172.8	7.1
60°-70°	412.0	2.5
70°-80°	107.8	0.7
80°-90°	18.3	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°	8076.0	48.8
0°-40°	12307.2	74.3
0°-60°	16027.9	96.8
0°-90°	16566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16566.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9796	9796	9796	9796	9796	
5°	9297	9384	9704	10285	10638	878
15°	8582	9045	9736	10890	11878	2425
25°	7983	8560	9599	10322	10752	3677
35°	6605	6697	7250	6834	6614	4137
45°	4692	3863	2618	2637	2705	3598
55°	2664	2110	751	590	568	2377
65°	1131	783	119	60	64	1152
75°	293	169	9	0	0	355
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°	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5
2.5°	9566.6	9575.8	9575.8	9575.8	9594.1	9598.8	9594.1	9598.8	9607.9	9639.9	9653.6
5°	9296.6	9282.9	9292.1	9287.4	9310.4	9324.1	9314.9	9328.6	9360.7	9383.7	9406.4
7.5°	9104.4	9104.4	9104.4	9113.5	9127.2	9154.7	9150.2	9159.3	9191.3	9223.3	9255.3
10°	8953.3	8948.8	8948.8	8971.6	8989.9	9021.9	9031.1	9058.6	9099.7	9141.0	9177.5
12.5°	8756.4	8761.2	8783.9	8806.9	8848.0	8898.3	8925.8	8962.6	9026.6	9095.2	9136.5
15°	8582.5	8587.1	8605.5	8651.1	8701.6	8761.2	8820.5	8880.0	8957.8	9044.9	9118.2
17.5°	8413.2	8417.7	8431.4	8481.9	8546.0	8623.8	8692.4	8770.2	8871.0	8971.6	9063.2
20°	8257.5	8253.0	8275.8	8321.6	8404.1	8477.2	8546.0	8637.6	8747.4	8871.0	8976.1
22.5°	8106.4	8106.4	8129.4	8175.2	8248.5	8321.6	8394.9	8491.0	8600.8	8719.9	8843.5
25°	7982.8	7978.3	8010.3	8033.3	8088.2	8161.4	8239.3	8317.1	8426.9	8559.7	8678.6
27.5°	7850.2	7845.7	7850.2	7877.7	7928.0	7982.8	8042.4	8111.1	8202.7	8312.6	8426.9
30°	7557.2	7561.7	7561.7	7584.7	7612.2	7671.6	7703.6	7772.4	7854.7	7946.3	8047.1
32.5°	7122.4	7126.9	7126.9	7136.1	7158.9	7186.4	7213.9	7264.3	7328.3	7406.1	7497.7
35°	6605.2	6605.2	6600.5	6605.2	6619.0	6619.0	6641.8	6619.0	6651.0	6696.8	6765.3
37.5°	6129.1	6119.9	6110.8	6101.6	6087.8	6065.0	6033.0	5978.0	5964.2	5946.0	5950.5
40°	5708.0	5703.5	5676.0	5653.0	5607.2	5552.4	5474.6	5378.5	5300.7	5209.1	5131.3
42.5°	5241.1	5236.4	5213.6	5172.4	5122.1	5039.7	4916.1	4788.0	4632.4	4495.0	4353.2
45°	4691.7	4705.5	4673.5	4627.7	4568.1	4490.3	4353.2	4197.3	4041.7	3863.3	3684.7
47.5°	4119.5	4115.0	4092.2	4064.7	4014.4	3936.6	3845.0	3675.6	3510.8	3346.1	3163.0
50°	3588.6	3570.3	3561.1	3533.8	3501.7	3437.7	3341.4	3204.1	3057.7	2902.0	2732.7
52.5°	3085.2	3085.2	3062.2	3043.9	3016.4	2966.1	2883.8	2773.9	2650.3	2503.8	2325.3
55°	2664.1	2654.9	2632.1	2609.1	2581.6	2549.5	2476.4	2384.9	2252.0	2110.2	1954.5
57.5°	2215.5	2210.8	2201.7	2174.2	2160.5	2128.4	2046.1	1954.5	1840.2	1716.6	1588.3
60°	1812.7	1794.4	1775.9	1757.7	1734.9	1702.8	1647.8	1570.0	1473.9	1364.1	1236.0
62.5°	1451.1	1478.4	1423.6	1423.6	1377.8	1350.3	1300.0	1254.2	1153.4	1052.8	943.0
65°	1130.6	1130.6	1107.6	1089.4	1061.9	1029.8	979.5	933.7	860.5	782.6	704.8
67.5°	865.2	860.5	837.7	819.4	796.4	778.1	741.6	686.6	631.7	567.7	503.4
70°	636.3	631.7	627.0	595.0	576.7	553.9	526.4	489.9	448.6	402.8	343.3
72.5°	457.6	457.6	444.1	430.3	412.0	393.6	366.3	343.3	306.7	274.7	233.4
75°	293.0	288.5	288.5	265.5	265.5	238.0	219.7	205.9	187.7	169.4	132.8
77.5°	210.6	205.9	201.4	192.2	183.1	173.9	160.1	141.9	128.1	109.8	96.1
80°	141.9	132.8	128.1	128.1	114.4	109.8	114.4	87.0	82.3	68.6	59.5
82.5°	87.0	87.0	82.3	82.3	77.8	73.3	59.5	59.5	55.0	50.3	41.3
85°	45.8	59.5	41.3	45.8	41.3	45.8	41.3	32.0	27.5	22.8	22.8
87.5°	27.5	18.3	18.3	27.5	22.8	18.3	18.3	18.3	13.8	9.2	9.2
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°	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5
2.5°	9644.6	9676.6	9671.9	9713.2	9726.9	9759.0	9759.0	9781.8	9795.5	9827.5	9855.0
5°	9415.7	9466.0	9479.7	9530.0	9571.3	9621.6	9653.6	9703.9	9749.7	9818.5	9882.6
7.5°	9273.8	9314.9	9342.4	9401.9	9447.7	9502.5	9557.6	9626.1	9690.2	9772.7	9864.3
10°	9205.0	9260.1	9301.1	9360.7	9415.7	9475.2	9530.0	9607.9	9681.1	9786.5	9887.1
12.5°	9186.8	9250.8	9301.1	9383.7	9438.5	9502.5	9566.6	9653.6	9731.5	9841.3	9955.8
15°	9186.8	9273.8	9342.4	9434.0	9498.0	9580.3	9649.1	9736.0	9823.0	9937.4	10047.2
17.5°	9168.5	9273.8	9360.7	9466.0	9548.3	9630.8	9717.7	9800.2	9891.6	10001.6	10125.0
20°	9095.2	9228.0	9333.2	9456.8	9543.8	9635.4	9722.4	9813.8	9910.1	10024.4	10129.7
22.5°	8967.1	9122.7	9241.8	9374.4	9475.2	9566.6	9653.6	9745.2	9850.5	9960.4	10070.2
25°	8797.7	8944.1	9072.4	9209.6	9310.4	9411.0	9493.5	9598.8	9694.9	9800.2	9887.1
27.5°	8541.3	8696.9	8820.5	8962.6	9053.9	9150.2	9218.8	9305.8	9397.4	9484.3	9553.0
30°	8156.9	8298.8	8426.9	8555.0	8646.6	8715.4	8788.5	8857.2	8916.8	8976.1	9035.7
32.5°	7593.8	7722.1	7845.7	7964.6	8037.9	8097.4	8152.2	8193.5	8225.5	8257.5	8262.1
35°	6820.4	6925.5	7003.3	7108.6	7177.4	7232.2	7232.2	7250.5	7246.0	7232.2	7218.5
37.5°	5955.2	5996.3	6028.3	6069.6	6074.1	6074.1	6046.8	6023.8	5987.2	5978.0	5950.5
40°	5053.5	4998.5	4957.2	4902.4	4870.3	4801.6	4742.2	4701.0	4641.4	4632.4	4623.2
42.5°	4197.3	4069.2	3954.9	3858.8	3748.9	3652.7	3565.8	3501.7	3456.0	3451.3	3456.0
45°	3501.7	3355.2	3185.8	3053.1	2929.6	2810.5	2696.1	2618.3	2577.0	2567.8	2577.0
47.5°	2975.3	2806.0	2641.1	2490.0	2357.4	2224.5	2110.2	2004.8	1954.5	1940.8	1936.3
50°	2558.8	2384.9	2210.8	2055.2	1908.8	1775.9	1634.1	1533.5	1469.4	1446.4	1428.1
52.5°	2151.4	1995.8	1817.2	1657.0	1510.5	1354.8	1208.4	1093.9	1029.8	1002.5	984.1
55°	1794.4	1638.8	1473.9	1318.3	1162.7	1007.0	860.5	750.6	682.0	650.0	627.0
57.5°	1432.7	1286.3	1144.4	988.8	860.5	709.5	563.0	466.9	407.3	370.8	352.5
60°	1107.6	993.3	869.7	741.6	618.0	494.4	375.3	283.7	238.0	210.6	187.7
62.5°	837.7	741.6	659.1	549.2	453.1	347.8	256.4	183.1	141.9	119.1	109.8
65°	604.2	530.9	457.6	389.1	320.5	242.7	173.9	119.1	82.3	68.6	64.1
67.5°	430.3	370.8	315.8	270.0	219.7	173.9	123.6	82.3	64.1	55.0	50.3
70°	302.0	256.4	219.7	178.6	146.4	114.4	96.1	59.5	36.6	41.3	32.0
72.5°	201.4	169.4	151.1	123.6	100.6	82.3	59.5	41.3	41.3	32.0	27.5
75°	109.8	100.6	77.8	59.5	50.3	45.8	18.3	9.2	4.5	13.8	4.5
77.5°	77.8	68.6	59.5	50.3	41.3	32.0	18.3	18.3	13.8	18.3	9.2
80°	50.3	41.3	36.6	36.6	22.8	13.8	9.2	9.2	13.8	4.5	4.5
82.5°	32.0	27.5	22.8	22.8	22.8	13.8	13.8	13.8	13.8	9.2	9.2
85°	18.3	13.8	9.2	9.2	4.5	9.2	0.0	4.5	4.5	0.0	0.0
87.5°	9.2	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°	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5	9795.5
2.5°	9873.3	9891.6	9914.6	9932.9	9974.1	9983.2	10001.6	10019.9	10033.7	10047.2	10051.9
5°	9937.4	10006.2	10070.2	10138.8	10225.8	10285.4	10354.0	10413.5	10473.0	10523.3	10559.9
7.5°	9955.8	10061.0	10157.3	10276.1	10404.3	10514.3	10628.7	10743.0	10862.1	10953.7	11031.5
10°	9992.4	10120.5	10244.1	10386.0	10550.8	10697.2	10839.1	10990.2	11141.3	11269.4	11384.0
12.5°	10056.5	10198.3	10331.2	10486.8	10656.2	10820.8	10976.5	11145.8	11306.2	11448.0	11576.2
15°	10161.8	10294.4	10422.7	10569.1	10738.5	10889.6	11045.2	11209.9	11370.2	11516.6	11635.7
17.5°	10230.4	10354.0	10482.1	10614.9	10756.8	10894.1	11040.5	11187.1	11333.5	11466.3	11576.2
20°	10230.4	10349.4	10445.5	10564.6	10697.2	10816.3	10935.4	11063.5	11191.6	11301.5	11406.8
22.5°	10148.0	10262.4	10335.7	10427.2	10541.6	10642.4	10706.5	10848.3	10944.4	11040.5	11118.3
25°	9955.8	10038.2	10097.7	10161.8	10253.3	10321.9	10376.9	10459.3	10555.4	10592.1	10646.9
27.5°	9607.9	9667.4	9699.4	9713.2	9759.0	9795.5	9804.7	9841.3	9882.6	9891.6	9914.6
30°	9058.6	9063.2	9049.4	9044.9	9021.9	8994.6	8989.9	8985.4	8967.1	8948.8	8953.3
32.5°	8230.0	8207.2	8152.2	8092.9	8033.3	7969.3	7932.5	7886.8	7859.2	7831.9	7799.9
35°	7158.9	7104.1	7026.3	6953.0	6884.4	6833.9	6751.6	6724.1	6696.8	6660.0	6651.0
37.5°	5900.2	5868.1	5794.9	5740.0	5703.5	5680.5	5639.2	5611.9	5611.9	5598.2	5588.9
40°	4600.2	4591.1	4563.6	4577.4	4559.1	4568.1	4563.6	4554.4	4577.4	4577.4	4586.6
42.5°	3451.3	3456.0	3469.7	3478.8	3506.3	3510.8	3533.8	3533.8	3547.5	3561.1	3570.3
45°	2567.8	2586.3	2586.3	2604.5	2632.1	2636.6	2645.6	2650.3	2659.4	2682.4	2691.4
47.5°	1927.0	1931.6	1931.6	1936.3	1945.3	1954.5	1950.0	1954.5	1968.3	1959.1	1968.3
50°	1423.6	1428.1	1414.4	1400.6	1414.4	1414.4	1409.9	1396.1	1409.9	1391.6	1400.6
52.5°	970.5	965.8	952.0	956.7	947.5	943.0	943.0	933.7	933.7	933.7	915.5
55°	613.5	613.5	604.2	604.2	599.7	590.5	585.9	581.2	576.7	572.2	572.2
57.5°	343.3	347.8	334.2	329.5	334.2	329.5	320.5	320.5	320.5	306.7	315.8
60°	187.7	183.1	178.6	173.9	169.4	173.9	173.9	164.9	164.9	164.9	169.4
62.5°	100.6	100.6	96.1	96.1	91.6	91.6	100.6	87.0	91.6	87.0	91.6
65°	55.0	68.6	50.3	50.3	64.1	59.5	55.0	55.0	59.5	50.3	55.0
67.5°	59.5	41.3	36.6	41.3	36.6	36.6	36.6	45.8	41.3	32.0	41.3
70°	27.5	32.0	32.0	22.8	36.6	18.3	32.0	18.3	27.5	22.8	27.5
72.5°	27.5	27.5	27.5	18.3	27.5	18.3	22.8	22.8	18.3	18.3	27.5
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°	9.2	9.2	4.5	4.5	4.5	4.5	9.2	9.2	9.2	0.0	4.5
80°	9.2	9.2	0.0	4.5	0.0	0.0	4.5	0.0	4.5	0.0	9.2
82.5°	4.5	9.2	4.5	4.5	9.2	9.2	9.2	4.5	4.5	4.5	4.5
85°	0.0	4.5	0.0	0.0	0.0	0.0	9.2	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: P250222

CATALOG NUMBER: LSR8B150D010 EC8B150835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9795.5	9795.5	9795.5	9795.5
2.5°	10056.5	10061.0	10070.2	10065.7
5°	10587.4	10624.1	10642.4	10637.9
7.5°	11086.3	11150.5	11187.1	11187.1
10°	11470.8	11544.1	11599.0	11608.2
12.5°	11676.8	11759.3	11832.6	11814.1
15°	11736.3	11818.8	11891.9	11878.2
17.5°	11667.7	11750.1	11805.1	11795.8
20°	11480.1	11548.6	11603.7	11599.0
22.5°	11187.1	11246.6	11292.4	11287.7
25°	10692.7	10734.0	10770.5	10752.2
27.5°	9932.9	9946.6	9969.4	9942.1
30°	8921.3	8930.3	8939.6	8935.1
32.5°	7786.1	7781.4	7772.4	7763.2
35°	6637.2	6637.2	6641.8	6614.2
37.5°	5593.5	5588.9	5602.7	5588.9
40°	4595.6	4591.1	4609.4	4586.6
42.5°	3584.1	3597.8	3602.4	3602.4
45°	2696.1	2700.6	2705.2	2705.2
47.5°	1968.3	1972.8	1995.8	1968.3
50°	1391.6	1396.1	1400.6	1391.6
52.5°	920.0	924.7	920.0	906.2
55°	563.0	567.7	567.7	567.7
57.5°	302.0	306.7	306.7	302.0
60°	164.9	160.1	164.9	155.6
62.5°	87.0	96.1	91.6	82.3
65°	55.0	55.0	55.0	64.1
67.5°	45.8	36.6	41.3	32.0
70°	27.5	32.0	32.0	22.8
72.5°	22.8	22.8	22.8	27.5
75°	0.0	0.0	0.0	0.0
77.5°	9.2	9.2	9.2	4.5
80°	4.5	0.0	4.5	0.0
82.5°	4.5	4.5	9.2	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)