

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: P250277

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250277
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: LSR8B120D010 EC8B120927 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9846.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

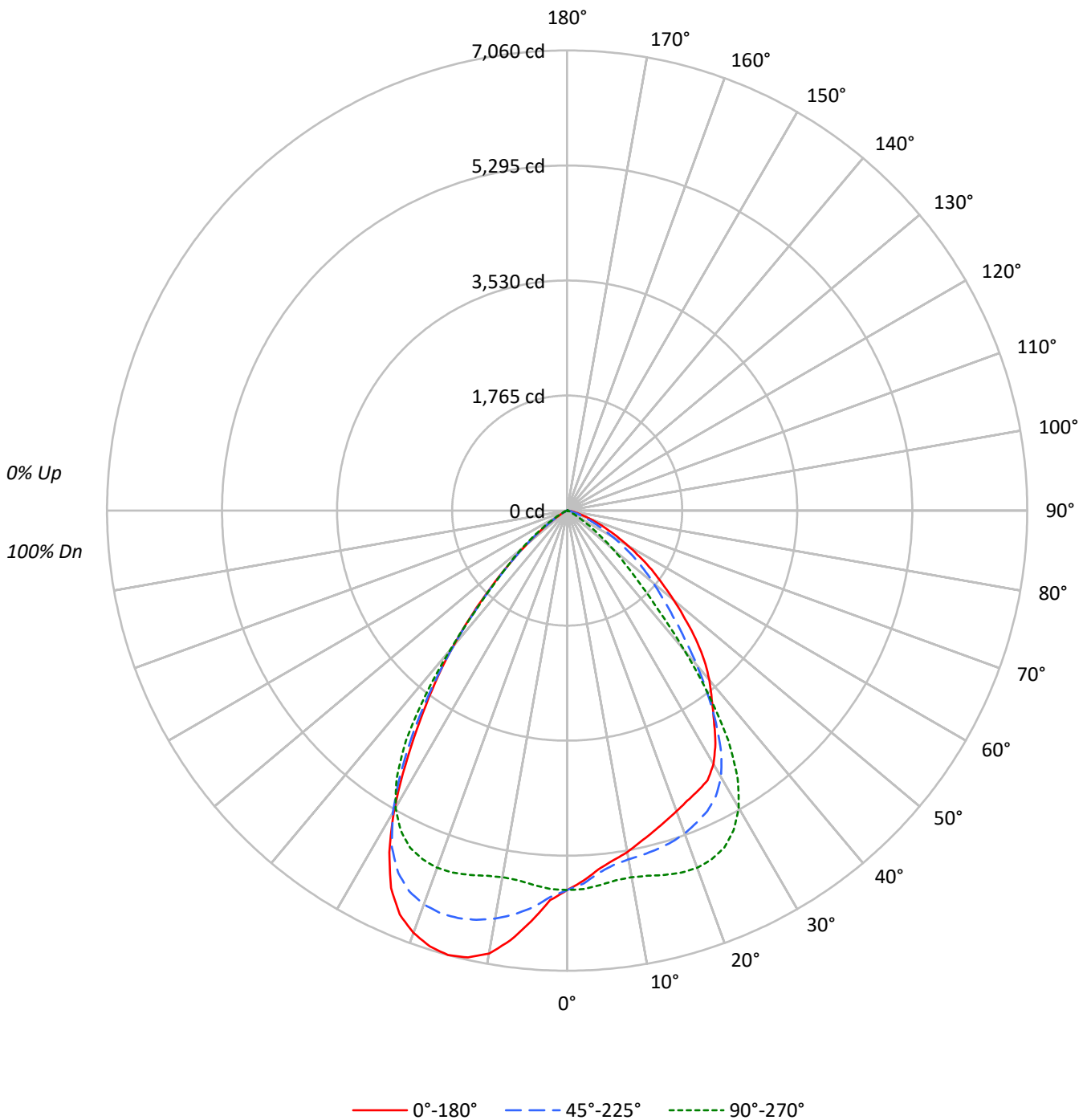
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.7	5.7
10°-20°	1675.1	17.0
20°-30°	2565.2	26.1
30°-40°	2514.8	25.5
40°-50°	1514.4	15.4
50°-60°	697.0	7.1
60°-70°	244.9	2.5
70°-80°	64.0	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°	4800.0	48.8
0°-40°	7314.8	74.3
0°-60°	9526.2	96.8
0°-90°	9846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9846.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5822	5822	5822	5822	5822	
5°	5525	5577	5768	6113	6323	522
15°	5101	5376	5787	6472	7060	1441
25°	4745	5088	5705	6135	6391	2185
35°	3926	3980	4309	4062	3931	2459
45°	2788	2296	1556	1567	1608	2138
55°	1583	1254	446	351	337	1413
65°	672	465	71	35	38	685
75°	174	101	6	0	0	211
85°	27	14	3	0	0	37
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°	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0
2.5°	5685.9	5691.4	5691.4	5691.4	5702.3	5705.1	5702.3	5705.1	5710.4	5729.5	5737.6
5°	5525.4	5517.2	5522.7	5519.9	5533.7	5541.8	5536.3	5544.4	5563.5	5577.2	5590.7
7.5°	5411.2	5411.2	5411.2	5416.5	5424.8	5441.1	5438.5	5443.8	5462.9	5481.9	5500.9
10°	5321.4	5318.8	5318.8	5332.3	5343.2	5362.2	5367.7	5384.0	5408.4	5433.0	5454.7
12.5°	5204.4	5207.2	5220.8	5234.4	5258.8	5288.7	5305.0	5326.9	5365.0	5405.7	5430.3
15°	5101.1	5103.7	5114.7	5141.8	5171.8	5207.2	5242.5	5277.8	5324.1	5375.8	5419.3
17.5°	5000.4	5003.1	5011.2	5041.2	5079.3	5125.5	5166.3	5212.6	5272.4	5332.3	5386.7
20°	4907.8	4905.2	4918.7	4946.0	4995.0	5038.4	5079.3	5133.7	5199.0	5272.4	5335.0
22.5°	4818.0	4818.0	4831.8	4859.0	4902.5	4946.0	4989.5	5046.6	5111.9	5182.7	5256.1
25°	4744.6	4741.9	4761.0	4774.6	4807.2	4850.8	4897.0	4943.2	5008.5	5087.5	5158.1
27.5°	4665.7	4663.1	4665.7	4682.1	4712.1	4744.6	4780.0	4820.8	4875.3	4940.6	5008.5
30°	4491.7	4494.4	4494.4	4508.0	4524.3	4559.6	4578.6	4619.5	4668.4	4722.9	4782.8
32.5°	4233.2	4235.8	4235.8	4241.4	4254.9	4271.3	4287.6	4317.5	4355.6	4401.8	4456.2
35°	3925.8	3925.8	3923.0	3925.8	3934.0	3934.0	3947.5	3934.0	3953.0	3980.2	4021.0
37.5°	3642.9	3637.4	3632.0	3626.4	3618.3	3604.7	3585.7	3553.0	3544.9	3534.0	3536.7
40°	3392.6	3389.8	3373.5	3359.8	3332.6	3300.1	3253.8	3196.7	3150.5	3096.0	3049.8
42.5°	3115.0	3112.3	3098.7	3074.2	3044.2	2995.3	2921.8	2845.8	2753.2	2671.6	2587.3
45°	2788.5	2796.8	2777.6	2750.5	2715.1	2668.8	2587.3	2494.7	2402.2	2296.1	2190.0
47.5°	2448.5	2445.8	2432.2	2415.8	2386.0	2339.7	2285.3	2184.6	2086.6	1988.8	1879.9
50°	2132.9	2122.0	2116.6	2100.3	2081.2	2043.2	1986.0	1904.3	1817.3	1724.8	1624.2
52.5°	1833.6	1833.6	1820.0	1809.1	1792.8	1762.9	1713.9	1648.7	1575.2	1488.1	1382.1
55°	1583.4	1577.9	1564.3	1550.7	1534.4	1515.3	1471.8	1417.5	1338.5	1254.1	1161.7
57.5°	1316.8	1314.0	1308.6	1292.3	1284.1	1265.1	1216.1	1161.7	1093.7	1020.3	944.0
60°	1077.4	1066.5	1055.5	1044.7	1031.1	1012.0	979.4	933.1	876.0	810.8	734.6
62.5°	862.4	878.7	846.1	846.1	818.9	802.6	772.6	745.4	685.6	625.7	560.5
65°	672.0	672.0	658.4	647.4	631.1	612.1	582.2	555.0	511.4	465.2	419.0
67.5°	514.2	511.4	497.8	487.0	473.3	462.5	440.8	408.0	375.5	337.4	299.2
70°	378.1	375.5	372.7	353.6	342.8	329.2	312.9	291.2	266.6	239.4	204.1
72.5°	272.0	272.0	263.9	255.7	244.9	233.9	217.7	204.1	182.2	163.2	138.7
75°	174.2	171.5	171.5	157.7	157.7	141.4	130.6	122.4	111.5	100.7	79.0
77.5°	125.2	122.4	119.7	114.2	108.9	103.4	95.2	84.4	76.2	65.2	57.2
80°	84.4	79.0	76.2	76.2	68.0	65.2	68.0	51.8	48.9	40.7	35.4
82.5°	51.8	51.8	48.9	48.9	46.2	43.5	35.4	35.4	32.7	29.9	24.5
85°	27.2	35.4	24.5	27.2	24.5	27.2	24.5	19.0	16.3	13.5	13.5
87.5°	16.3	10.9	10.9	16.3	13.5	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0
2.5°	5732.2	5751.3	5748.5	5773.0	5781.2	5800.3	5800.3	5813.8	5822.0	5841.0	5857.3
5°	5596.2	5626.1	5634.3	5664.2	5688.7	5718.6	5737.6	5767.5	5794.8	5835.6	5873.7
7.5°	5511.9	5536.3	5552.7	5588.0	5615.2	5647.8	5680.6	5721.3	5759.3	5808.4	5862.8
10°	5471.0	5503.7	5528.1	5563.5	5596.2	5631.6	5664.2	5710.4	5754.0	5816.6	5876.4
12.5°	5460.2	5498.2	5528.1	5577.2	5609.8	5647.8	5685.9	5737.6	5783.8	5849.2	5917.3
15°	5460.2	5511.9	5552.7	5607.1	5645.1	5694.1	5734.9	5786.6	5838.3	5906.2	5971.6
17.5°	5449.3	5511.9	5563.5	5626.1	5675.1	5724.1	5775.8	5824.8	5879.0	5944.5	6017.8
20°	5405.7	5484.7	5547.2	5620.6	5672.4	5726.8	5778.6	5832.8	5890.0	5958.0	6020.7
22.5°	5329.6	5422.0	5492.8	5571.7	5631.6	5685.9	5737.6	5792.1	5854.6	5920.0	5985.2
25°	5228.9	5316.0	5392.1	5473.7	5533.7	5593.4	5642.4	5705.1	5762.1	5824.8	5876.4
27.5°	5076.6	5169.0	5242.5	5326.9	5381.2	5438.5	5479.2	5531.0	5585.4	5636.9	5677.9
30°	4848.1	4932.3	5008.5	5084.7	5139.1	5180.0	5223.4	5264.3	5299.7	5335.0	5370.3
32.5°	4513.4	4589.7	4663.1	4733.8	4777.3	4812.6	4845.3	4869.8	4888.8	4907.8	4910.5
35°	4053.7	4116.2	4162.4	4225.0	4265.9	4298.5	4298.5	4309.3	4306.6	4298.5	4290.3
37.5°	3539.5	3563.9	3582.9	3607.4	3610.1	3610.1	3593.9	3580.2	3558.5	3553.0	3536.7
40°	3003.5	2970.8	2946.3	2913.8	2894.7	2853.8	2818.6	2794.0	2758.6	2753.2	2747.8
42.5°	2494.7	2418.5	2350.6	2293.4	2228.2	2170.9	2119.4	2081.2	2054.0	2051.2	2054.0
45°	2081.2	1994.2	1893.5	1814.6	1741.2	1670.4	1602.4	1556.2	1531.7	1526.2	1531.7
47.5°	1768.4	1667.7	1569.7	1479.9	1401.1	1322.1	1254.1	1191.6	1161.7	1153.5	1150.9
50°	1520.8	1417.5	1314.0	1221.5	1134.4	1055.5	971.2	911.4	873.3	859.7	848.8
52.5°	1278.7	1186.2	1080.0	984.8	897.8	805.3	718.2	650.1	612.1	595.8	584.9
55°	1066.5	974.0	876.0	783.6	691.0	598.5	511.4	446.2	405.3	386.3	372.7
57.5°	851.5	764.4	680.2	587.7	511.4	421.8	334.6	277.5	242.1	220.4	209.5
60°	658.4	590.4	516.9	440.8	367.3	293.8	223.1	168.6	141.4	125.2	111.5
62.5°	497.8	440.8	391.7	326.5	269.3	206.7	152.4	108.9	84.4	70.8	65.2
65°	359.1	315.6	272.0	231.2	190.5	144.2	103.4	70.8	48.9	40.7	38.0
67.5°	255.7	220.4	187.6	160.4	130.6	103.4	73.5	48.9	38.0	32.7	29.9
70°	179.5	152.4	130.6	106.2	87.0	68.0	57.2	35.4	21.7	24.5	19.0
72.5°	119.7	100.7	89.8	73.5	59.8	48.9	35.4	24.5	24.5	19.0	16.3
75°	65.2	59.8	46.2	35.4	29.9	27.2	10.9	5.5	2.7	8.2	2.7
77.5°	46.2	40.7	35.4	29.9	24.5	19.0	10.9	10.9	8.2	10.9	5.5
80°	29.9	24.5	21.7	21.7	13.5	8.2	5.5	5.5	8.2	2.7	2.7
82.5°	19.0	16.3	13.5	13.5	13.5	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°	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0	5822.0
2.5°	5868.2	5879.0	5892.8	5903.6	5928.1	5933.5	5944.5	5955.3	5963.5	5971.6	5974.3
5°	5906.2	5947.2	5985.2	6026.0	6077.7	6113.1	6153.9	6189.3	6224.6	6254.6	6276.3
7.5°	5917.3	5979.7	6037.0	6107.6	6183.8	6249.2	6317.1	6385.2	6455.9	6510.3	6556.5
10°	5939.0	6015.2	6088.6	6172.9	6270.9	6357.9	6442.2	6532.0	6621.9	6698.0	6766.1
12.5°	5977.0	6061.4	6140.4	6232.8	6333.5	6431.4	6523.9	6624.6	6719.8	6804.1	6880.3
15°	6039.7	6118.5	6194.7	6281.8	6382.5	6472.2	6564.7	6662.6	6757.9	6845.0	6915.7
17.5°	6080.4	6153.9	6230.0	6309.0	6393.3	6474.9	6561.9	6649.1	6736.0	6815.0	6880.3
20°	6080.4	6151.2	6208.3	6279.1	6357.9	6428.7	6499.5	6575.6	6651.8	6717.0	6779.6
22.5°	6031.5	6099.4	6143.1	6197.4	6265.3	6325.3	6363.3	6447.7	6504.9	6561.9	6608.1
25°	5917.3	5966.2	6001.5	6039.7	6094.1	6134.8	6167.6	6216.4	6273.6	6295.4	6328.0
27.5°	5710.4	5745.8	5764.8	5773.0	5800.3	5822.0	5827.5	5849.2	5873.7	5879.0	5892.8
30°	5384.0	5386.7	5378.5	5375.8	5362.2	5345.9	5343.2	5340.5	5329.6	5318.8	5321.4
32.5°	4891.5	4878.0	4845.3	4810.0	4774.6	4736.6	4714.7	4687.5	4671.1	4654.9	4635.9
35°	4254.9	4222.3	4176.1	4132.5	4091.7	4061.7	4012.8	3996.4	3980.2	3958.4	3953.0
37.5°	3506.7	3487.7	3444.2	3411.6	3389.8	3376.2	3351.7	3335.4	3335.4	3327.3	3321.8
40°	2734.1	2728.7	2712.4	2720.6	2709.7	2715.1	2712.4	2706.9	2720.6	2720.6	2726.1
42.5°	2051.2	2054.0	2062.2	2067.6	2084.0	2086.6	2100.3	2100.3	2108.5	2116.6	2122.0
45°	1526.2	1537.2	1537.2	1548.0	1564.3	1567.0	1572.4	1575.2	1580.6	1594.2	1599.6
47.5°	1145.4	1148.1	1148.1	1150.9	1156.2	1161.7	1159.0	1161.7	1169.9	1164.4	1169.9
50°	846.1	848.8	840.6	832.5	840.6	840.6	837.9	829.8	837.9	827.1	832.5
52.5°	576.8	574.0	565.9	568.7	563.2	560.5	560.5	555.0	555.0	555.0	544.2
55°	364.6	364.6	359.1	359.1	356.4	351.0	348.3	345.5	342.8	340.1	340.1
57.5°	204.1	206.7	198.7	195.9	198.7	195.9	190.5	190.5	190.5	182.2	187.6
60°	111.5	108.9	106.2	103.4	100.7	103.4	103.4	98.0	98.0	98.0	100.7
62.5°	59.8	59.8	57.2	57.2	54.4	54.4	59.8	51.8	54.4	51.8	54.4
65°	32.7	40.7	29.9	29.9	38.0	35.4	32.7	32.7	35.4	29.9	32.7
67.5°	35.4	24.5	21.7	24.5	21.7	21.7	21.7	27.2	24.5	19.0	24.5
70°	16.3	19.0	19.0	13.5	21.7	10.9	19.0	10.9	16.3	13.5	16.3
72.5°	16.3	16.3	16.3	10.9	16.3	10.9	13.5	13.5	10.9	10.9	16.3
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: P250277

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5822.0	5822.0	5822.0	5822.0
2.5°	5977.0	5979.7	5985.2	5982.5
5°	6292.6	6314.4	6325.3	6322.6
7.5°	6589.1	6627.4	6649.1	6649.1
10°	6817.7	6861.3	6893.9	6899.3
12.5°	6940.1	6989.2	7032.7	7021.7
15°	6975.4	7024.5	7067.9	7059.8
17.5°	6934.7	6983.7	7016.3	7010.9
20°	6823.1	6864.0	6896.6	6893.9
22.5°	6649.1	6684.4	6711.6	6708.8
25°	6355.2	6379.8	6401.5	6390.6
27.5°	5903.6	5911.8	5925.3	5909.1
30°	5302.3	5307.8	5313.3	5310.6
32.5°	4627.7	4624.9	4619.5	4614.1
35°	3944.8	3944.8	3947.5	3931.2
37.5°	3324.5	3321.8	3330.0	3321.8
40°	2731.4	2728.7	2739.6	2726.1
42.5°	2130.2	2138.4	2141.1	2141.1
45°	1602.4	1605.1	1607.9	1607.9
47.5°	1169.9	1172.6	1186.2	1169.9
50°	827.1	829.8	832.5	827.1
52.5°	546.8	549.6	546.8	538.6
55°	334.6	337.4	337.4	337.4
57.5°	179.5	182.2	182.2	179.5
60°	98.0	95.2	98.0	92.5
62.5°	51.8	57.2	54.4	48.9
65°	32.7	32.7	32.7	38.0
67.5°	27.2	21.7	24.5	19.0
70°	16.3	19.0	19.0	13.5
72.5°	13.5	13.5	13.5	16.3
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)