

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: P249511

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150930 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12032.8 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

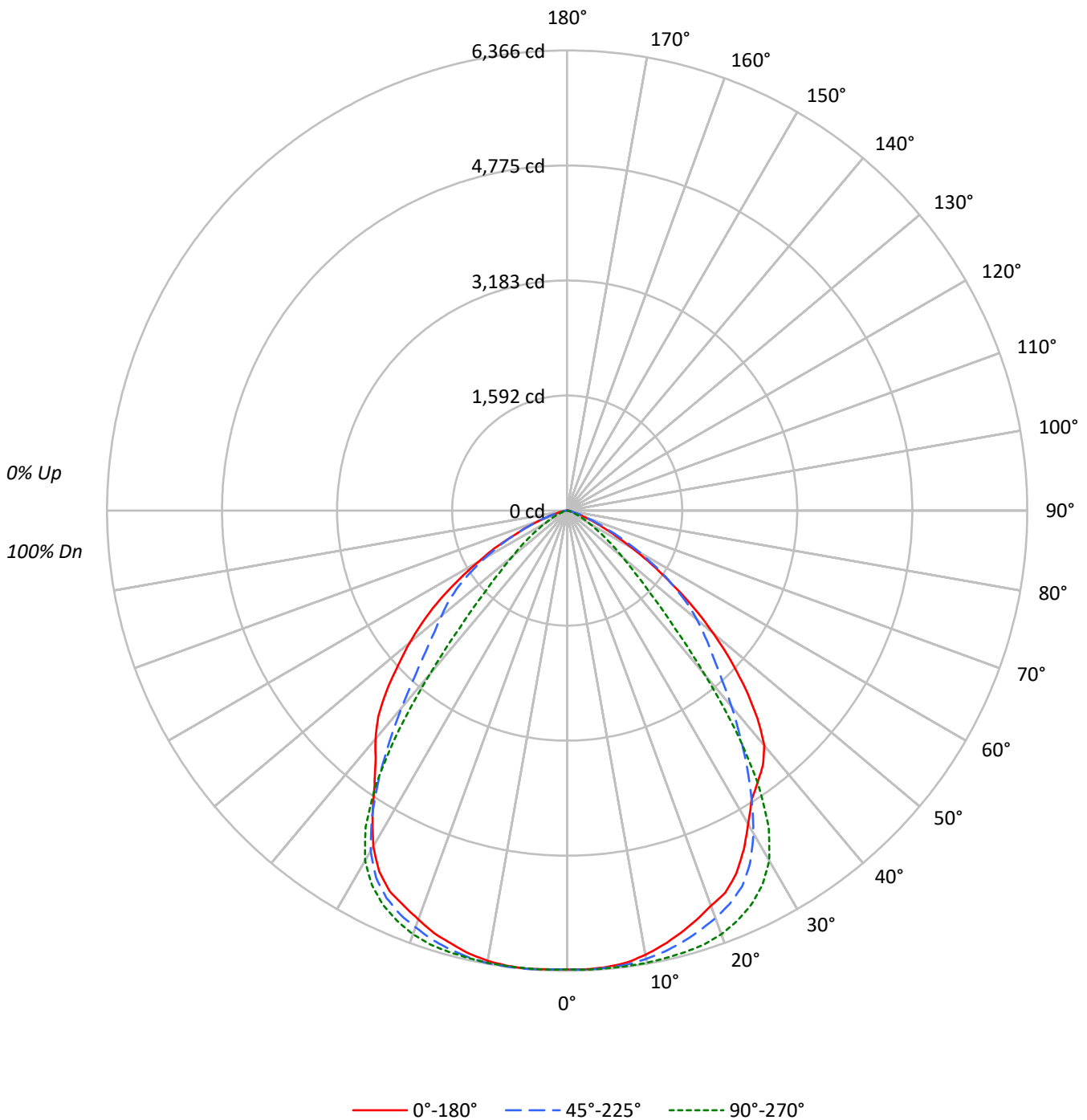
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

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°	605.9	5.0
10°-20°	1759.6	14.6
20°-30°	2670.8	22.2
30°-40°	2805.1	23.3
40°-50°	2103.1	17.5
50°-60°	1349.4	11.2
60°-70°	577.2	4.8
70°-80°	136.4	1.1
80°-90°	25.4	0.2
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°	5036.3	41.9
0°-40°	7841.4	65.2
0°-60°	11293.8	93.9
0°-90°	12032.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12032.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6349	6349	6349	6349	6349	
5°	6338	6349	6356	6366	6362	602
15°	6052	6178	6321	6281	6202	1707
25°	5538	5732	6022	5913	5810	2530
35°	4594	4338	4597	4543	4645	2883
45°	3490	2852	1639	2771	3537	2672
55°	1765	1765	610	1840	2150	1601
65°	532	627	194	808	821	568
75°	82	95	27	164	160	119
85°	27	17	14	27	38	29
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°	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8
2.5°	6352.1	6359.0	6355.6	6355.6	6352.1	6355.6	6355.6	6362.5	6362.5	6355.6	6352.1
5°	6338.5	6345.3	6345.3	6338.5	6338.5	6355.6	6345.3	6352.1	6352.1	6348.8	6348.8
7.5°	6307.9	6307.9	6321.4	6311.3	6311.3	6321.4	6318.1	6324.9	6331.7	6335.1	6335.1
10°	6239.7	6246.5	6249.9	6249.9	6253.4	6263.6	6270.3	6284.0	6290.8	6297.7	6301.0
12.5°	6154.5	6164.7	6168.2	6164.7	6175.0	6188.6	6205.6	6222.7	6232.9	6246.5	6256.7
15°	6052.3	6052.3	6059.1	6069.3	6076.2	6096.6	6113.6	6134.0	6161.4	6178.4	6195.4
17.5°	5939.8	5946.7	5956.9	5956.9	5970.6	6004.5	6014.8	6045.4	6076.2	6093.2	6127.3
20°	5817.2	5823.9	5834.1	5841.0	5858.0	5885.2	5905.8	5933.0	5967.1	5997.8	6031.8
22.5°	5721.7	5708.1	5714.9	5721.7	5738.8	5762.6	5786.5	5820.6	5854.6	5885.2	5919.4
25°	5537.6	5541.1	5551.3	5558.1	5578.7	5599.1	5626.3	5667.2	5697.8	5732.0	5769.5
27.5°	5289.0	5292.4	5309.4	5309.4	5326.4	5360.5	5377.5	5411.6	5452.5	5486.5	5530.9
30°	5006.0	5012.9	5012.9	5026.6	5036.7	5053.8	5070.8	5104.9	5125.3	5156.0	5217.4
32.5°	4747.1	4753.8	4750.5	4747.1	4736.9	4733.4	4730.1	4736.9	4743.7	4753.8	4777.7
35°	4593.7	4576.7	4563.1	4539.3	4512.0	4477.8	4447.2	4406.3	4368.8	4338.2	4304.1
37.5°	4447.2	4443.8	4423.4	4389.3	4334.7	4273.4	4201.8	4113.3	4024.6	3929.2	3837.2
40°	4242.8	4232.4	4215.4	4167.8	4106.4	4031.5	3936.1	3827.0	3683.8	3537.3	3387.3
42.5°	3895.1	3898.5	3878.1	3840.5	3782.7	3711.1	3612.3	3493.0	3339.7	3165.8	2971.7
45°	3489.6	3489.6	3482.7	3452.1	3411.2	3353.2	3278.4	3179.5	3029.6	2852.3	2644.4
47.5°	3067.1	3070.4	3060.2	3053.4	3036.3	2998.9	2944.3	2869.4	2763.7	2593.3	2385.5
50°	2637.7	2637.7	2654.6	2651.3	2651.3	2637.7	2613.8	2569.4	2477.5	2341.2	2146.9
52.5°	2208.3	2215.1	2225.3	2239.0	2255.9	2283.3	2255.9	2235.5	2177.5	2071.9	1905.0
55°	1765.2	1772.1	1789.1	1812.9	1833.4	1860.7	1867.5	1867.5	1836.8	1765.2	1639.1
57.5°	1387.0	1376.7	1390.4	1410.9	1438.1	1465.4	1485.8	1509.7	1506.3	1458.5	1356.3
60°	1042.8	1046.2	1056.4	1076.9	1097.3	1121.2	1148.5	1168.9	1179.2	1155.3	1090.5
62.5°	759.9	759.9	773.6	794.0	804.2	838.3	855.3	865.6	875.7	872.4	831.6
65°	531.7	538.4	545.3	555.5	565.7	586.1	596.4	616.8	623.6	627.1	596.4
67.5°	374.9	364.7	371.5	378.2	388.5	402.1	422.6	422.6	432.8	432.8	412.3
70°	238.5	238.5	242.0	252.1	259.0	262.4	269.3	276.0	286.3	282.8	282.8
72.5°	160.2	156.7	160.2	163.6	167.0	177.2	177.2	180.6	187.4	190.9	177.2
75°	81.8	85.2	91.9	88.7	98.8	91.9	95.4	105.6	102.2	95.4	95.4
77.5°	68.2	68.2	68.2	64.8	71.5	71.5	68.2	75.0	71.5	71.5	68.2
80°	47.6	51.1	47.6	44.3	47.6	44.3	44.3	44.3	44.3	44.3	40.8
82.5°	37.6	30.7	34.1	30.7	34.1	34.1	30.7	27.2	27.2	30.7	27.2
85°	27.2	20.4	23.9	23.9	20.4	20.4	20.4	20.4	20.4	17.0	17.0
87.5°	17.0	10.2	10.2	10.2	13.6	13.6	13.6	10.2	13.6	13.6	6.8
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°	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8
2.5°	6359.0	6355.6	6362.5	6359.0	6359.0	6355.6	6359.0	6355.6	6362.5	6348.8	6352.1
5°	6359.0	6352.1	6355.6	6359.0	6362.5	6355.6	6355.6	6355.6	6362.5	6355.6	6359.0
7.5°	6345.3	6341.9	6352.1	6359.0	6355.6	6352.1	6359.0	6355.6	6362.5	6359.0	6365.7
10°	6318.1	6321.4	6328.3	6338.5	6341.9	6345.3	6352.1	6352.1	6362.5	6348.8	6355.6
12.5°	6277.2	6290.8	6307.9	6314.6	6328.3	6328.3	6335.1	6338.5	6345.3	6341.9	6352.1
15°	6226.1	6243.1	6263.6	6280.6	6297.7	6307.9	6318.1	6321.4	6331.7	6321.4	6324.9
17.5°	6164.7	6185.1	6215.8	6236.2	6263.6	6273.8	6287.4	6294.2	6304.5	6297.7	6301.0
20°	6079.5	6103.4	6137.5	6168.2	6185.1	6209.0	6226.1	6236.2	6243.1	6236.2	6239.7
22.5°	5960.2	5994.3	6038.6	6062.5	6096.6	6117.1	6120.4	6144.3	6161.4	6144.3	6151.2
25°	5820.6	5854.6	5888.7	5939.8	5970.6	5994.3	6018.2	6021.7	6038.6	6035.2	6031.8
27.5°	5588.7	5633.1	5691.0	5732.0	5772.8	5810.4	5837.6	5844.3	5861.5	5854.6	5858.0
30°	5271.8	5319.6	5374.2	5438.9	5496.8	5534.3	5568.3	5592.2	5609.3	5599.1	5595.6
32.5°	4822.1	4869.7	4927.7	4992.5	5060.6	5115.1	5156.0	5186.8	5207.2	5200.3	5183.3
35°	4307.6	4321.1	4358.7	4409.8	4467.6	4525.6	4563.1	4597.1	4621.0	4627.8	4627.8
37.5°	3779.2	3734.9	3707.7	3707.7	3741.8	3765.7	3799.7	3820.1	3857.7	3871.3	3881.5
40°	3268.1	3165.8	3070.4	2998.9	2951.1	2947.8	2947.8	2958.0	2992.1	3036.3	3077.3
42.5°	2811.5	2647.8	2501.3	2368.4	2273.1	2218.5	2194.7	2198.1	2225.3	2266.2	2334.4
45°	2446.8	2242.3	2058.4	1898.2	1768.6	1683.4	1642.6	1639.1	1659.6	1707.3	1782.3
47.5°	2164.0	1945.8	1738.0	1553.9	1414.3	1322.2	1274.5	1260.9	1274.5	1318.7	1407.4
50°	1928.8	1703.9	1489.2	1298.3	1148.5	1053.1	1008.7	991.6	1008.7	1046.2	1134.8
52.5°	1710.6	1478.9	1277.9	1093.9	933.7	852.0	804.2	794.0	804.2	848.5	920.1
55°	1458.5	1260.9	1063.3	879.2	739.5	657.7	620.2	610.0	620.2	661.2	736.2
57.5°	1209.8	1039.4	865.6	698.6	579.3	507.7	473.7	460.1	483.8	511.2	599.7
60°	978.0	841.8	695.1	548.6	449.9	385.1	357.8	354.3	361.2	395.4	456.6
62.5°	766.8	654.3	538.4	419.1	337.4	310.1	276.0	272.6	279.5	299.9	347.6
65°	552.1	480.6	391.9	306.7	242.0	204.5	190.9	194.3	201.0	214.7	259.0
67.5°	385.1	333.9	272.6	214.7	167.0	149.9	136.3	133.0	136.3	160.2	184.1
70°	259.0	228.3	184.1	163.6	115.9	91.9	95.4	85.2	98.8	98.8	119.3
72.5°	170.4	149.9	122.6	95.4	81.8	64.8	64.8	61.3	68.2	71.5	88.7
75°	88.7	68.2	68.2	47.6	34.1	17.0	30.7	27.2	23.9	27.2	34.1
77.5°	61.3	51.1	47.6	37.6	34.1	27.2	27.2	27.2	27.2	30.7	34.1
80°	37.6	37.6	27.2	23.9	20.4	17.0	20.4	20.4	20.4	20.4	23.9
82.5°	23.9	20.4	20.4	17.0	17.0	13.6	13.6	13.6	13.6	13.6	20.4
85°	20.4	13.6	13.6	10.2	13.6	23.9	10.2	13.6	13.6	13.6	10.2
87.5°	6.8	10.2	10.2	10.2	6.8	3.4	6.8	10.2	10.2	17.0	13.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8	6348.8
2.5°	6359.0	6362.5	6362.5	6359.0	6359.0	6352.1	6365.7	6355.6	6359.0	6372.5	6362.5
5°	6365.7	6369.2	6369.2	6365.7	6365.7	6365.7	6369.2	6369.2	6365.7	6362.5	6369.2
7.5°	6379.4	6376.0	6376.0	6369.2	6369.2	6362.5	6369.2	6359.0	6365.7	6359.0	6369.2
10°	6362.5	6365.7	6362.5	6359.0	6359.0	6355.6	6355.6	6345.3	6348.8	6338.5	6345.3
12.5°	6352.1	6348.8	6348.8	6341.9	6335.1	6328.3	6324.9	6314.6	6314.6	6290.8	6301.0
15°	6324.9	6328.3	6318.1	6304.5	6297.7	6280.6	6273.8	6260.1	6246.5	6229.5	6232.9
17.5°	6301.0	6290.8	6277.2	6263.6	6236.2	6222.7	6209.0	6188.6	6181.8	6161.4	6154.5
20°	6229.5	6222.7	6205.6	6181.8	6164.7	6134.0	6120.4	6100.0	6082.9	6062.5	6052.3
22.5°	6137.5	6130.6	6110.2	6086.4	6059.1	6045.4	6031.8	5994.3	5977.3	5956.9	5953.4
25°	6021.7	6011.4	5991.0	5963.7	5950.0	5912.6	5898.9	5871.6	5864.8	5844.3	5841.0
27.5°	5844.3	5830.8	5806.9	5772.8	5748.9	5725.2	5711.5	5691.0	5684.3	5663.7	5660.4
30°	5578.7	5561.5	5513.9	5500.2	5459.3	5435.4	5435.4	5408.2	5411.6	5398.0	5398.0
32.5°	5159.4	5132.2	5094.6	5067.4	5040.1	5026.6	5026.6	5016.3	5023.1	5023.1	5029.9
35°	4603.9	4566.5	4546.0	4529.0	4529.0	4542.6	4583.5	4593.7	4614.1	4631.2	4644.9
37.5°	3891.7	3888.3	3912.2	3932.6	3983.7	4041.7	4113.3	4174.6	4232.4	4273.4	4314.3
40°	3121.5	3206.7	3274.9	3370.4	3448.6	3561.2	3690.7	3796.3	3895.1	3966.8	4041.7
42.5°	2436.6	2545.6	2688.8	2828.5	2968.2	3121.5	3292.0	3438.4	3568.0	3666.8	3745.1
45°	1898.2	2048.1	2221.9	2399.2	2579.8	2770.6	2947.8	3097.7	3234.1	3336.2	3414.7
47.5°	1530.1	1693.7	1891.4	2085.6	2290.1	2491.1	2688.8	2818.3	2930.7	3012.5	3084.1
50°	1264.3	1438.1	1646.0	1867.5	2071.9	2273.1	2443.4	2569.4	2661.5	2733.1	2777.4
52.5°	1056.4	1240.4	1462.0	1683.4	1887.9	2071.9	2225.3	2320.7	2395.7	2446.8	2487.7
55°	872.4	1049.6	1257.5	1465.4	1666.4	1840.2	1966.2	2037.9	2095.8	2126.4	2150.3
57.5°	712.3	875.7	1066.6	1257.5	1431.3	1574.4	1673.2	1744.8	1772.1	1796.0	1792.5
60°	558.9	712.3	886.0	1049.6	1199.6	1315.4	1387.0	1427.8	1448.3	1458.5	1451.7
62.5°	439.5	579.3	712.3	855.3	964.4	1063.3	1131.4	1131.4	1141.6	1145.0	1155.3
65°	327.1	432.8	548.6	654.3	742.9	807.7	845.1	855.3	869.0	865.6	858.8
67.5°	242.0	320.4	405.5	483.8	545.3	586.1	613.4	637.3	633.9	627.1	623.6
70°	167.0	218.1	293.1	340.8	385.1	426.0	432.8	436.2	439.5	443.0	436.2
72.5°	115.9	153.4	194.3	235.2	262.4	279.5	296.5	299.9	299.9	299.9	296.5
75°	58.0	78.4	115.9	133.0	156.7	163.6	177.2	177.2	187.4	173.8	170.4
77.5°	51.1	61.3	81.8	95.4	105.6	115.9	119.3	129.5	126.1	119.3	122.6
80°	30.7	37.6	51.1	58.0	71.5	75.0	78.4	81.8	78.4	81.8	81.8
82.5°	23.9	27.2	34.1	34.1	44.3	44.3	47.6	47.6	51.1	51.1	51.1
85°	13.6	23.9	20.4	40.8	27.2	27.2	34.1	40.8	34.1	34.1	40.8
87.5°	13.6	13.6	10.2	13.6	13.6	13.6	17.0	20.4	20.4	23.9	20.4
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: P249511

CATALOG NUMBER: LSR8B150D010 EC8B150930 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6348.8	6348.8	6348.8	6348.8
2.5°	6359.0	6365.7	6355.6	6352.1
5°	6369.2	6369.2	6362.5	6362.5
7.5°	6369.2	6369.2	6359.0	6352.1
10°	6341.9	6341.9	6331.7	6324.9
12.5°	6290.8	6290.8	6287.4	6277.2
15°	6226.1	6226.1	6212.5	6202.3
17.5°	6137.5	6144.3	6127.3	6127.3
20°	6042.1	6038.6	6025.0	6018.2
22.5°	5943.2	5936.4	5933.0	5912.6
25°	5837.6	5830.8	5820.6	5810.4
27.5°	5657.0	5653.5	5643.3	5629.8
30°	5380.9	5377.5	5363.9	5363.9
32.5°	5023.1	5019.7	5006.0	5009.5
35°	4651.6	4665.3	4658.4	4644.9
37.5°	4341.5	4351.8	4358.7	4351.8
40°	4082.6	4113.3	4116.6	4123.5
42.5°	3806.6	3847.4	3861.1	3867.8
45°	3475.9	3513.4	3544.2	3537.3
47.5°	3138.6	3165.8	3193.1	3172.7
50°	2814.8	2831.9	2842.2	2842.2
52.5°	2508.1	2508.1	2504.8	2508.1
55°	2157.1	2157.1	2143.6	2150.3
57.5°	1789.1	1796.0	1785.6	1768.6
60°	1448.3	1431.3	1424.5	1414.3
62.5°	1128.1	1128.1	1104.2	1134.8
65°	845.1	834.9	824.7	821.2
67.5°	613.4	610.0	599.7	596.4
70°	432.8	419.1	415.8	408.9
72.5°	289.7	289.7	282.8	282.8
75°	177.2	160.2	156.7	160.2
77.5°	122.6	119.3	119.3	115.9
80°	81.8	78.4	85.2	75.0
82.5°	51.1	54.5	51.1	54.5
85°	34.1	40.8	37.6	37.6
87.5°	20.4	20.4	20.4	20.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)