

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: P249502

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249502
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 EC8B150927 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11414.2 lumens
Efficiency: N/A
Efficacy: 72.0 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

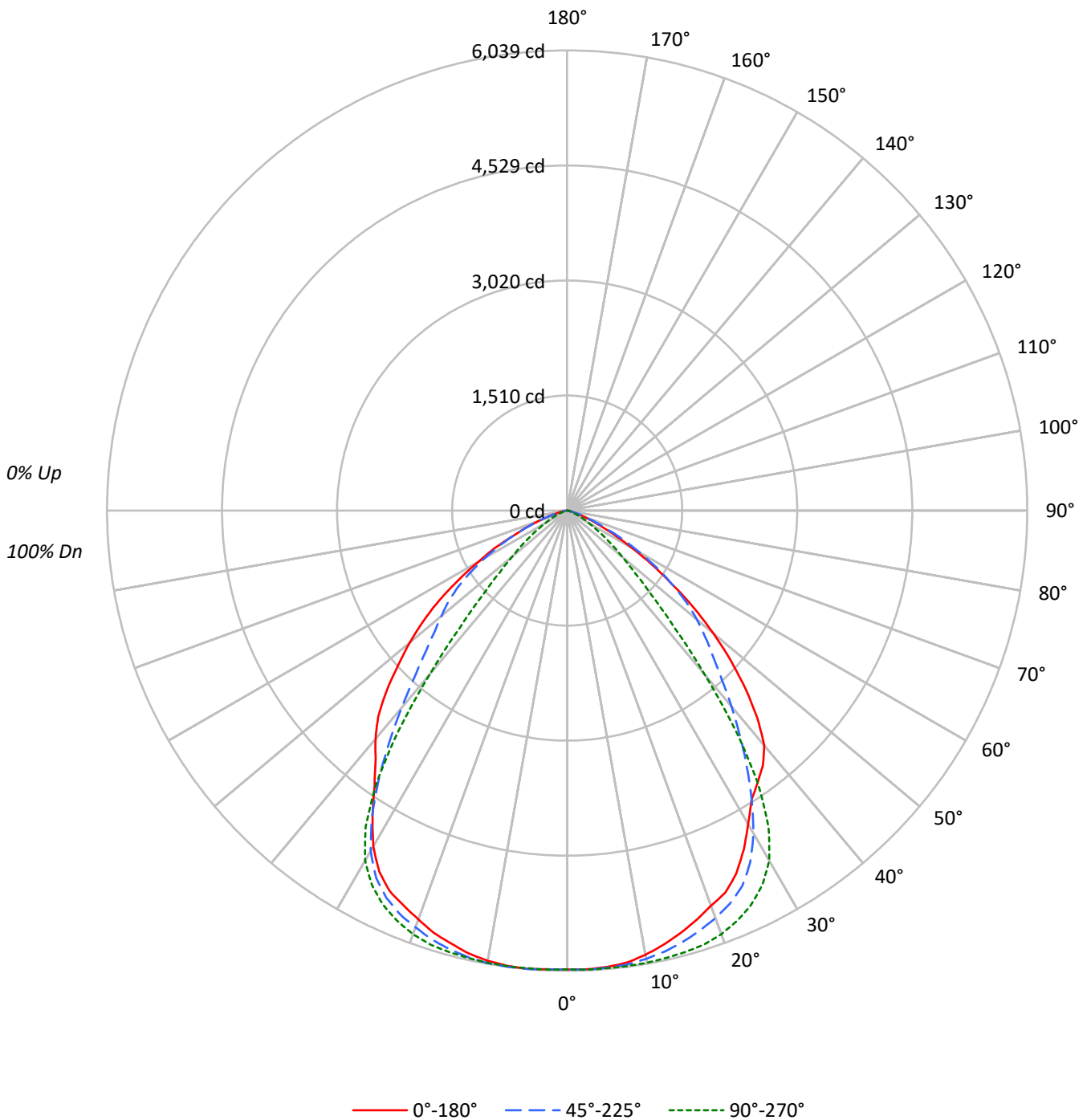
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	574.8	5.0
10°-20°	1669.2	14.6
20°-30°	2533.5	22.2
30°-40°	2660.9	23.3
40°-50°	1995.0	17.5
50°-60°	1280.0	11.2
60°-70°	547.6	4.8
70°-80°	129.4	1.1
80°-90°	24.1	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°	4777.4	41.9
0°-40°	7438.3	65.2
0°-60°	10713.2	93.9
0°-90°	11414.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11414.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6022	6022	6022	6022	6022	
5°	6013	6022	6029	6039	6035	571
15°	5741	5861	5996	5958	5883	1619
25°	5253	5437	5712	5609	5512	2400
35°	4358	4115	4361	4309	4406	2735
45°	3310	2706	1555	2628	3355	2535
55°	1674	1674	579	1746	2040	1519
65°	504	595	184	766	779	538
75°	78	90	26	155	152	113
85°	26	16	13	26	36	27
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°	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3
2.5°	6025.6	6032.1	6028.9	6028.9	6025.6	6028.9	6028.9	6035.4	6035.4	6028.9	6025.6
5°	6012.7	6019.1	6019.1	6012.7	6012.7	6028.9	6019.1	6025.6	6025.6	6022.3	6022.3
7.5°	5983.7	5983.7	5996.5	5986.9	5986.9	5996.5	5993.3	5999.7	6006.3	6009.5	6009.5
10°	5919.0	5925.4	5928.6	5928.6	5931.9	5941.6	5948.0	5961.0	5967.4	5973.9	5977.1
12.5°	5838.2	5847.9	5851.0	5847.9	5857.5	5870.5	5886.7	5902.8	5912.6	5925.4	5935.2
15°	5741.1	5741.1	5747.6	5757.3	5763.8	5783.2	5799.4	5818.7	5844.6	5860.8	5876.9
17.5°	5634.4	5641.0	5650.7	5650.7	5663.6	5695.9	5705.6	5734.7	5763.8	5779.9	5812.3
20°	5518.1	5524.5	5534.3	5540.7	5556.9	5582.8	5602.2	5628.0	5660.3	5689.5	5721.8
22.5°	5427.6	5414.6	5421.0	5427.6	5443.8	5466.4	5489.0	5521.3	5553.7	5582.8	5615.1
25°	5253.0	5256.2	5266.0	5272.4	5291.9	5311.2	5337.1	5375.8	5405.0	5437.3	5472.8
27.5°	5017.0	5020.3	5036.4	5036.4	5052.6	5084.9	5101.1	5133.4	5172.3	5204.5	5246.6
30°	4748.7	4755.2	4755.2	4768.1	4777.8	4794.0	4810.2	4842.4	4861.9	4890.9	4949.2
32.5°	4503.0	4509.4	4506.3	4503.0	4493.4	4490.1	4486.8	4493.4	4499.9	4509.4	4532.1
35°	4357.6	4341.4	4328.6	4305.9	4280.1	4247.7	4218.5	4179.8	4144.3	4115.1	4082.8
37.5°	4218.5	4215.4	4195.9	4163.6	4111.9	4053.7	3985.9	3901.8	3817.7	3727.2	3639.9
40°	4024.6	4014.9	3998.8	3953.5	3895.3	3824.2	3733.6	3630.3	3494.5	3355.4	3213.2
42.5°	3694.8	3698.1	3678.8	3643.1	3588.3	3520.4	3426.5	3313.5	3168.0	3003.1	2818.9
45°	3310.2	3310.2	3303.8	3274.6	3235.8	3180.9	3109.8	3016.0	2873.8	2705.6	2508.5
47.5°	2909.4	2912.6	2902.8	2896.4	2880.2	2844.7	2793.0	2721.9	2621.7	2460.0	2262.8
50°	2502.1	2502.1	2518.2	2514.9	2514.9	2502.1	2479.5	2437.4	2350.1	2220.9	2036.6
52.5°	2094.8	2101.2	2111.0	2123.9	2140.0	2165.8	2140.0	2120.6	2065.6	1965.4	1807.1
55°	1674.4	1681.0	1697.1	1719.8	1739.1	1765.0	1771.4	1771.4	1742.4	1674.4	1554.9
57.5°	1315.7	1306.0	1319.0	1338.3	1364.2	1390.0	1409.4	1432.0	1428.9	1383.5	1286.6
60°	989.2	992.5	1002.0	1021.5	1041.0	1063.6	1089.4	1108.8	1118.5	1095.9	1034.4
62.5°	720.9	720.9	733.8	753.2	762.9	795.3	811.4	821.1	830.8	827.6	788.7
65°	504.3	510.8	517.2	526.9	536.6	556.0	565.6	585.1	591.5	594.8	565.6
67.5°	355.6	345.9	352.3	358.8	368.6	381.5	400.8	400.8	410.5	410.5	391.2
70°	226.4	226.4	229.5	239.2	245.7	249.0	255.4	261.8	271.6	268.3	268.3
72.5°	152.0	148.7	152.0	155.1	158.4	168.1	168.1	171.3	177.9	181.0	168.1
75°	77.6	80.9	87.3	84.0	93.7	87.3	90.4	100.2	97.0	90.4	90.4
77.5°	64.6	64.6	64.6	61.4	67.8	67.8	64.6	71.1	67.8	67.8	64.6
80°	45.2	48.5	45.2	42.0	45.2	42.0	42.0	42.0	42.0	42.0	38.8
82.5°	35.6	29.1	32.4	29.1	32.4	32.4	29.1	25.9	25.9	29.1	25.9
85°	25.9	19.3	22.6	22.6	19.3	19.3	19.3	19.3	19.3	16.1	16.1
87.5°	16.1	9.7	9.7	9.7	12.9	12.9	12.9	9.7	12.9	12.9	6.5
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°	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3
2.5°	6032.1	6028.9	6035.4	6032.1	6032.1	6028.9	6032.1	6028.9	6035.4	6022.3	6025.6
5°	6032.1	6025.6	6028.9	6032.1	6035.4	6028.9	6028.9	6028.9	6035.4	6028.9	6032.1
7.5°	6019.1	6015.9	6025.6	6032.1	6028.9	6025.6	6032.1	6028.9	6035.4	6032.1	6038.6
10°	5993.3	5996.5	6003.0	6012.7	6015.9	6019.1	6025.6	6025.6	6035.4	6022.3	6028.9
12.5°	5954.5	5967.4	5983.7	5990.1	6003.0	6003.0	6009.5	6012.7	6019.1	6015.9	6025.6
15°	5906.0	5922.1	5941.6	5957.8	5973.9	5983.7	5993.3	5996.5	6006.3	5996.5	5999.7
17.5°	5847.9	5867.2	5896.3	5915.7	5941.6	5951.2	5964.2	5970.6	5980.4	5973.9	5977.1
20°	5767.0	5789.7	5822.0	5851.0	5867.2	5889.8	5906.0	5915.7	5922.1	5915.7	5919.0
22.5°	5653.9	5686.2	5728.3	5750.9	5783.2	5802.5	5805.8	5828.4	5844.6	5828.4	5834.9
25°	5521.3	5553.7	5586.0	5634.4	5663.6	5686.2	5708.8	5712.1	5728.3	5725.0	5721.8
27.5°	5301.4	5343.5	5398.4	5437.3	5476.0	5511.6	5537.5	5543.9	5560.1	5553.7	5556.9
30°	5000.8	5046.2	5097.9	5159.2	5214.3	5249.8	5282.1	5304.7	5320.9	5311.2	5308.0
32.5°	4574.1	4619.5	4674.4	4735.8	4800.5	4852.1	4890.9	4920.1	4939.4	4933.0	4916.8
35°	4086.1	4098.9	4134.6	4183.1	4238.0	4292.9	4328.6	4360.8	4383.4	4389.9	4389.9
37.5°	3585.0	3543.0	3517.1	3517.1	3549.4	3572.0	3604.4	3623.7	3659.4	3672.2	3682.0
40°	3100.0	3003.1	2912.6	2844.7	2799.5	2796.2	2796.2	2805.9	2838.3	2880.2	2919.0
42.5°	2666.9	2511.8	2372.7	2246.6	2156.2	2104.4	2081.8	2085.1	2111.0	2149.6	2214.3
45°	2321.0	2127.0	1952.6	1800.6	1677.7	1596.9	1558.1	1554.9	1574.3	1619.6	1690.6
47.5°	2052.7	1845.8	1648.6	1474.1	1341.6	1254.3	1209.0	1196.1	1209.0	1251.0	1335.0
50°	1829.7	1616.4	1412.7	1231.6	1089.4	998.9	956.8	940.7	956.8	992.5	1076.4
52.5°	1622.8	1403.0	1212.2	1037.7	885.7	808.1	762.9	753.2	762.9	804.9	872.9
55°	1383.5	1196.1	1008.6	834.0	701.6	623.9	588.4	578.7	588.4	627.2	698.3
57.5°	1147.6	986.0	821.1	662.6	549.6	481.6	449.3	436.4	459.0	484.9	568.9
60°	927.8	798.5	659.5	520.4	426.7	365.3	339.4	336.2	342.7	375.0	433.1
62.5°	727.4	620.7	510.8	397.6	320.1	294.2	261.8	258.6	265.0	284.4	329.7
65°	523.7	455.8	371.8	290.9	229.5	194.0	181.0	184.3	190.7	203.6	245.7
67.5°	365.3	316.8	258.6	203.6	158.4	142.2	129.4	126.1	129.4	152.0	174.6
70°	245.7	216.6	174.6	155.1	109.9	87.3	90.4	80.9	93.7	93.7	113.1
72.5°	161.5	142.2	116.3	90.4	77.6	61.4	61.4	58.2	64.6	67.8	84.0
75°	84.0	64.6	64.6	45.2	32.4	16.1	29.1	25.9	22.6	25.9	32.4
77.5°	58.2	48.5	45.2	35.6	32.4	25.9	25.9	25.9	25.9	29.1	32.4
80°	35.6	35.6	25.9	22.6	19.3	16.1	19.3	19.3	19.3	19.3	22.6
82.5°	22.6	19.3	19.3	16.1	16.1	12.9	12.9	12.9	12.9	12.9	19.3
85°	19.3	12.9	12.9	9.7	12.9	22.6	9.7	12.9	12.9	12.9	9.7
87.5°	6.5	9.7	9.7	9.7	6.5	3.3	6.5	9.7	9.7	16.1	12.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3
2.5°	6032.1	6035.4	6035.4	6032.1	6032.1	6025.6	6038.6	6028.9	6032.1	6045.0	6035.4
5°	6038.6	6041.8	6041.8	6038.6	6038.6	6038.6	6041.8	6041.8	6038.6	6035.4	6041.8
7.5°	6051.5	6048.2	6048.2	6041.8	6041.8	6035.4	6041.8	6032.1	6038.6	6032.1	6041.8
10°	6035.4	6038.6	6035.4	6032.1	6032.1	6028.9	6028.9	6019.1	6022.3	6012.7	6019.1
12.5°	6025.6	6022.3	6022.3	6015.9	6009.5	6003.0	5999.7	5990.1	5990.1	5967.4	5977.1
15°	5999.7	6003.0	5993.3	5980.4	5973.9	5957.8	5951.2	5938.3	5925.4	5909.3	5912.6
17.5°	5977.1	5967.4	5954.5	5941.6	5915.7	5902.8	5889.8	5870.5	5864.0	5844.6	5838.2
20°	5909.3	5902.8	5886.7	5864.0	5847.9	5818.7	5805.8	5786.4	5770.2	5750.9	5741.1
22.5°	5822.0	5815.5	5796.1	5773.5	5747.6	5734.7	5721.8	5686.2	5670.0	5650.7	5647.4
25°	5712.1	5702.4	5682.9	5657.1	5644.1	5608.6	5595.6	5569.8	5563.3	5543.9	5540.7
27.5°	5543.9	5531.1	5508.4	5476.0	5453.4	5430.8	5417.9	5398.4	5392.0	5372.6	5369.4
30°	5291.9	5275.6	5230.3	5217.5	5178.6	5156.0	5156.0	5130.1	5133.4	5120.6	5120.6
32.5°	4894.2	4868.3	4832.8	4806.9	4781.0	4768.1	4768.1	4758.4	4764.9	4764.9	4771.3
35°	4367.2	4331.8	4312.3	4296.2	4296.2	4309.1	4347.9	4357.6	4377.0	4393.1	4406.1
37.5°	3691.6	3688.4	3711.0	3730.5	3779.0	3833.9	3901.8	3960.0	4014.9	4053.7	4092.5
40°	2961.1	3041.9	3106.6	3197.1	3271.4	3378.0	3500.9	3601.1	3694.8	3762.8	3833.9
42.5°	2311.3	2414.8	2550.6	2683.0	2815.6	2961.1	3122.8	3261.7	3384.6	3478.3	3552.6
45°	1800.6	1942.8	2107.7	2275.8	2447.1	2628.1	2796.2	2938.5	3067.8	3164.7	3239.1
47.5°	1451.5	1606.6	1794.0	1978.4	2172.4	2363.1	2550.6	2673.5	2780.0	2857.6	2925.6
50°	1199.2	1364.2	1561.4	1771.4	1965.4	2156.2	2317.8	2437.4	2524.7	2592.6	2634.5
52.5°	1002.0	1176.6	1386.8	1596.9	1790.9	1965.4	2111.0	2201.4	2272.5	2321.0	2359.8
55°	827.6	995.6	1192.8	1390.0	1580.7	1745.6	1865.1	1933.1	1988.0	2017.1	2039.7
57.5°	675.7	830.8	1011.8	1192.8	1357.6	1493.6	1587.3	1655.1	1681.0	1703.6	1700.3
60°	530.2	675.7	840.5	995.6	1137.9	1247.7	1315.7	1354.5	1373.9	1383.5	1377.1
62.5°	417.0	549.6	675.7	811.4	914.8	1008.6	1073.2	1073.2	1082.9	1086.2	1095.9
65°	310.3	410.5	520.4	620.7	704.7	766.1	801.7	811.4	824.4	821.1	814.6
67.5°	229.5	303.9	384.6	459.0	517.2	556.0	581.8	604.6	601.3	594.8	591.5
70°	158.4	206.9	278.0	323.3	365.3	404.1	410.5	413.8	417.0	420.2	413.8
72.5°	109.9	145.5	184.3	223.1	249.0	265.0	281.2	284.4	284.4	284.4	281.2
75°	55.0	74.4	109.9	126.1	148.7	155.1	168.1	168.1	177.9	164.8	161.5
77.5°	48.5	58.2	77.6	90.4	100.2	109.9	113.1	122.8	119.6	113.1	116.3
80°	29.1	35.6	48.5	55.0	67.8	71.1	74.4	77.6	74.4	77.6	77.6
82.5°	22.6	25.9	32.4	32.4	42.0	42.0	45.2	45.2	48.5	48.5	48.5
85°	12.9	22.6	19.3	38.8	25.9	25.9	32.4	38.8	32.4	32.4	38.8
87.5°	12.9	12.9	9.7	12.9	12.9	12.9	16.1	19.3	19.3	22.6	19.3
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: P249502

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6022.3	6022.3	6022.3	6022.3
2.5°	6032.1	6038.6	6028.9	6025.6
5°	6041.8	6041.8	6035.4	6035.4
7.5°	6041.8	6041.8	6032.1	6025.6
10°	6015.9	6015.9	6006.3	5999.7
12.5°	5967.4	5967.4	5964.2	5954.5
15°	5906.0	5906.0	5893.1	5883.4
17.5°	5822.0	5828.4	5812.3	5812.3
20°	5731.4	5728.3	5715.3	5708.8
22.5°	5637.7	5631.3	5628.0	5608.6
25°	5537.5	5531.1	5521.3	5511.6
27.5°	5366.1	5363.0	5353.2	5340.4
30°	5104.3	5101.1	5088.2	5088.2
32.5°	4764.9	4761.7	4748.7	4752.0
35°	4412.5	4425.5	4419.0	4406.1
37.5°	4118.4	4128.1	4134.6	4128.1
40°	3872.7	3901.8	3905.0	3911.5
42.5°	3610.9	3649.6	3662.6	3669.0
45°	3297.3	3332.8	3362.0	3355.4
47.5°	2977.2	3003.1	3029.0	3009.6
50°	2670.2	2686.3	2696.1	2696.1
52.5°	2379.3	2379.3	2376.0	2379.3
55°	2046.3	2046.3	2033.3	2039.7
57.5°	1697.1	1703.6	1693.9	1677.7
60°	1373.9	1357.6	1351.2	1341.6
62.5°	1070.0	1070.0	1047.4	1076.4
65°	801.7	792.0	782.3	779.1
67.5°	581.8	578.7	568.9	565.6
70°	410.5	397.6	394.4	387.9
72.5°	274.8	274.8	268.3	268.3
75°	168.1	152.0	148.7	152.0
77.5°	116.3	113.1	113.1	109.9
80°	77.6	74.4	80.9	71.1
82.5°	48.5	51.8	48.5	51.8
85°	32.4	38.8	35.6	35.6
87.5°	19.3	19.3	19.3	19.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)