

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: P249475

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249475
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 EC8B150935 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12426.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

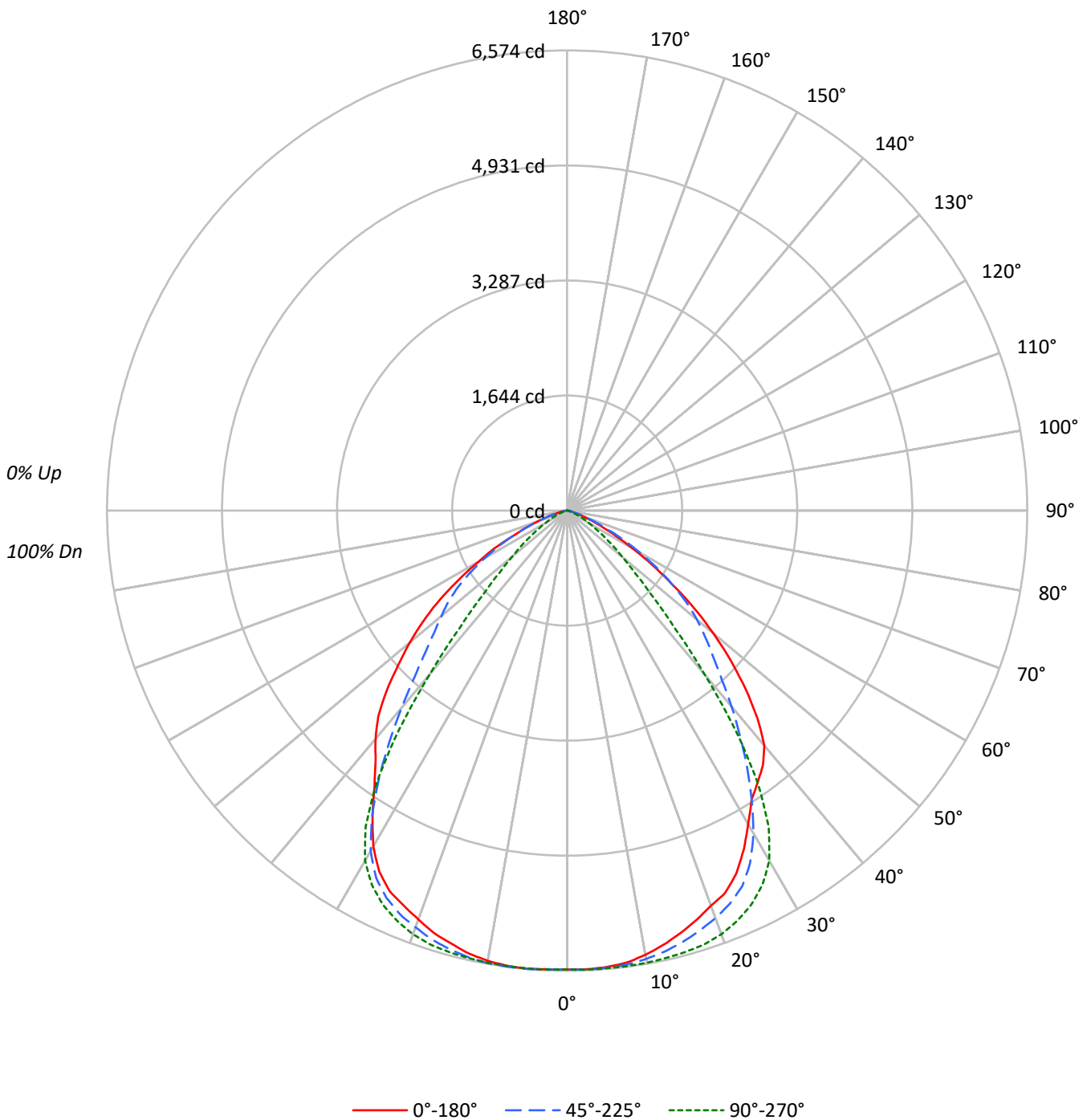
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	202169	202169	202169
5°	202613	203161	203378
10°	201762	205397	204518
15°	199526	208401	204471
20°	197131	211331	203944
25°	194570	211576	204151
30°	184076	205625	197233
35°	178580	178708	180568
40°	176369	122960	171409
45°	157150	73817	159300
50°	130673	49129	140800
55°	98002	33870	119383
60°	66415	22572	90073
65°	40058	14637	61882
70°	22215	7934	38074
75°	10068	3360	19706
80°	8755	3747	13745
85°	9977	4953	13692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.7	5.0
10°-20°	1817.1	14.6
20°-30°	2758.0	22.2
30°-40°	2896.8	23.3
40°-50°	2171.8	17.5
50°-60°	1393.5	11.2
60°-70°	596.1	4.8
70°-80°	140.8	1.1
80°-90°	26.2	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°	5200.8	41.9
0°-40°	8097.6	65.2
0°-60°	11662.9	93.9
0°-90°	12426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12426.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6556	6556	6556	6556	6556	
5°	6546	6556	6563	6574	6570	622
15°	6250	6380	6528	6486	6405	1763
25°	5719	5919	6218	6106	6000	2613
35°	4744	4480	4747	4691	4797	2977
45°	3604	2946	1693	2861	3653	2760
55°	1823	1823	630	1900	2221	1654
65°	549	648	201	834	848	586
75°	84	98	28	169	165	123
85°	28	18	14	28	39	30
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°	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2
2.5°	6559.7	6566.8	6563.3	6563.3	6559.7	6563.3	6563.3	6570.3	6570.3	6563.3	6559.7
5°	6545.6	6552.7	6552.7	6545.6	6545.6	6563.3	6552.7	6559.7	6559.7	6556.2	6556.2
7.5°	6514.0	6514.0	6528.0	6517.5	6517.5	6528.0	6524.5	6531.6	6538.6	6542.2	6542.2
10°	6443.6	6450.6	6454.2	6454.2	6457.7	6468.2	6475.3	6489.4	6496.4	6503.4	6506.9
12.5°	6355.7	6366.2	6369.7	6366.2	6376.8	6390.8	6408.4	6426.0	6436.6	6450.6	6461.2
15°	6250.0	6250.0	6257.1	6267.7	6274.7	6295.8	6313.4	6334.5	6362.6	6380.3	6397.8
17.5°	6133.9	6141.0	6151.5	6151.5	6165.6	6200.7	6211.3	6243.0	6274.7	6292.3	6327.5
20°	6007.3	6014.2	6024.8	6031.9	6049.5	6077.6	6098.7	6126.9	6162.1	6193.8	6228.9
22.5°	5908.7	5894.6	5901.6	5908.7	5926.3	5950.9	5975.6	6010.7	6045.9	6077.6	6112.8
25°	5718.6	5722.2	5732.7	5739.7	5760.9	5782.0	5810.2	5852.4	5884.0	5919.3	5957.9
27.5°	5461.8	5465.3	5482.9	5482.9	5500.4	5535.6	5553.2	5588.4	5630.7	5665.8	5711.6
30°	5169.7	5176.7	5176.7	5190.8	5201.3	5218.9	5236.5	5271.7	5292.8	5324.5	5387.9
32.5°	4902.2	4909.2	4905.7	4902.2	4891.6	4888.1	4884.6	4891.6	4898.7	4909.2	4933.8
35°	4743.9	4726.2	4712.2	4687.6	4659.4	4624.2	4592.5	4550.3	4511.6	4479.9	4444.7
37.5°	4592.5	4589.0	4567.9	4532.7	4476.3	4413.1	4339.2	4247.6	4156.1	4057.6	3962.6
40°	4381.4	4370.8	4353.2	4304.0	4240.6	4163.2	4064.7	3952.0	3804.2	3652.9	3498.1
42.5°	4022.4	4025.9	4004.8	3966.1	3906.3	3832.3	3730.3	3607.2	3448.8	3269.3	3068.7
45°	3603.6	3603.6	3596.6	3564.9	3522.7	3462.8	3385.4	3283.4	3128.6	2945.5	2730.8
47.5°	3167.2	3170.8	3160.2	3153.2	3135.5	3096.9	3040.6	2963.2	2854.1	2678.1	2463.4
50°	2723.9	2723.9	2741.4	2737.9	2737.9	2723.9	2699.2	2653.4	2558.4	2417.7	2217.1
52.5°	2280.4	2287.5	2298.1	2312.1	2329.7	2357.8	2329.7	2308.6	2248.7	2139.6	1967.2
55°	1822.9	1830.0	1847.5	1872.2	1893.3	1921.5	1928.5	1928.5	1896.8	1822.9	1692.7
57.5°	1432.3	1421.7	1435.9	1457.0	1485.1	1513.3	1534.4	1559.0	1555.5	1506.2	1400.6
60°	1076.9	1080.4	1090.9	1112.1	1133.2	1157.8	1186.0	1207.1	1217.7	1193.0	1126.1
62.5°	784.8	784.8	798.8	819.9	830.5	865.7	883.3	893.9	904.4	900.9	858.7
65°	549.0	556.0	563.1	573.7	584.2	605.3	615.8	636.9	644.0	647.5	615.8
67.5°	387.1	376.6	383.6	390.6	401.2	415.3	436.4	436.4	446.9	446.9	425.8
70°	246.4	246.4	249.9	260.4	267.5	271.0	278.0	285.0	295.6	292.1	292.1
72.5°	165.4	161.9	165.4	168.9	172.5	183.0	183.0	186.5	193.6	197.1	183.0
75°	84.5	88.0	95.0	91.5	102.0	95.0	98.5	109.1	105.6	98.5	98.5
77.5°	70.4	70.4	70.4	66.9	73.9	73.9	70.4	77.4	73.9	73.9	70.4
80°	49.3	52.8	49.3	45.7	49.3	45.7	45.7	45.7	45.7	45.7	42.2
82.5°	38.7	31.7	35.2	31.7	35.2	35.2	31.7	28.2	28.2	31.7	28.2
85°	28.2	21.1	24.6	24.6	21.1	21.1	21.1	21.1	21.1	17.6	17.6
87.5°	17.6	10.6	10.6	10.6	14.0	14.0	14.0	10.6	14.0	14.0	7.1
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°	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2
2.5°	6566.8	6563.3	6570.3	6566.8	6566.8	6563.3	6566.8	6563.3	6570.3	6556.2	6559.7
5°	6566.8	6559.7	6563.3	6566.8	6570.3	6563.3	6563.3	6563.3	6570.3	6563.3	6566.8
7.5°	6552.7	6549.1	6559.7	6566.8	6563.3	6559.7	6566.8	6563.3	6570.3	6566.8	6573.8
10°	6524.5	6528.0	6535.1	6545.6	6549.1	6552.7	6559.7	6559.7	6570.3	6556.2	6563.3
12.5°	6482.3	6496.4	6514.0	6521.0	6535.1	6535.1	6542.2	6545.6	6552.7	6549.1	6559.7
15°	6429.5	6447.1	6468.2	6485.9	6503.4	6514.0	6524.5	6528.0	6538.6	6528.0	6531.6
17.5°	6366.2	6387.3	6418.9	6440.0	6468.2	6478.8	6492.8	6499.9	6510.5	6503.4	6506.9
20°	6278.2	6302.9	6338.0	6369.7	6387.3	6411.9	6429.5	6440.0	6447.1	6440.0	6443.6
22.5°	6155.0	6190.2	6236.0	6260.6	6295.8	6316.9	6320.4	6345.1	6362.6	6345.1	6352.1
25°	6010.7	6045.9	6081.1	6133.9	6165.6	6190.2	6214.9	6218.4	6236.0	6232.4	6228.9
27.5°	5771.4	5817.2	5877.0	5919.3	5961.5	6000.2	6028.4	6035.3	6053.0	6045.9	6049.5
30°	5444.1	5493.5	5549.8	5616.6	5676.4	5715.1	5750.3	5774.9	5792.5	5782.0	5778.5
32.5°	4979.6	5028.9	5088.7	5155.6	5226.0	5282.2	5324.5	5356.2	5377.3	5370.2	5352.7
35°	4448.3	4462.3	4501.1	4553.8	4613.6	4673.4	4712.2	4747.3	4772.0	4779.0	4779.0
37.5°	3902.8	3857.0	3828.9	3828.9	3864.0	3888.7	3923.9	3945.0	3983.7	3997.8	4008.3
40°	3374.8	3269.3	3170.8	3096.9	3047.6	3044.1	3044.1	3054.6	3089.8	3135.5	3177.8
42.5°	2903.3	2734.4	2583.1	2445.8	2347.3	2291.0	2266.4	2269.9	2298.1	2340.3	2410.6
45°	2526.8	2315.6	2125.6	1960.2	1826.4	1738.4	1696.2	1692.7	1713.8	1763.1	1840.6
47.5°	2234.7	2009.4	1794.8	1604.7	1460.5	1365.4	1316.2	1302.1	1316.2	1361.9	1453.4
50°	1991.9	1759.6	1537.9	1340.8	1186.0	1087.5	1041.7	1024.1	1041.7	1080.4	1171.8
52.5°	1766.6	1527.3	1319.7	1129.7	964.2	879.8	830.5	819.9	830.5	876.2	950.2
55°	1506.2	1302.1	1098.0	907.9	763.7	679.2	640.5	630.0	640.5	682.8	760.2
57.5°	1249.3	1073.3	893.9	721.4	598.3	524.3	489.2	475.1	499.7	527.8	619.4
60°	1010.0	869.3	717.9	566.6	464.6	397.6	369.5	366.0	373.0	408.2	471.5
62.5°	791.9	675.7	556.0	432.9	348.4	320.2	285.0	281.6	288.6	309.6	359.0
65°	570.1	496.2	404.7	316.7	249.9	211.1	197.1	200.6	207.6	221.7	267.5
67.5°	397.6	344.9	281.6	221.7	172.5	154.8	140.8	137.3	140.8	165.4	190.0
70°	267.5	235.8	190.0	168.9	119.7	95.0	98.5	88.0	102.0	102.0	123.1
72.5°	175.9	154.8	126.7	98.5	84.5	66.9	66.9	63.4	70.4	73.9	91.5
75°	91.5	70.4	70.4	49.3	35.2	17.6	31.7	28.2	24.6	28.2	35.2
77.5°	63.4	52.8	49.3	38.7	35.2	28.2	28.2	28.2	28.2	31.7	35.2
80°	38.7	38.7	28.2	24.6	21.1	17.6	21.1	21.1	21.1	21.1	24.6
82.5°	24.6	21.1	21.1	17.6	17.6	14.0	14.0	14.0	14.0	14.0	21.1
85°	21.1	14.0	14.0	10.6	14.0	24.6	10.6	14.0	14.0	14.0	10.6
87.5°	7.1	10.6	10.6	10.6	7.1	3.5	7.1	10.6	10.6	17.6	14.0
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°	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2	6556.2
2.5°	6566.8	6570.3	6570.3	6566.8	6566.8	6559.7	6573.8	6563.3	6566.8	6580.8	6570.3
5°	6573.8	6577.3	6577.3	6573.8	6573.8	6573.8	6577.3	6577.3	6573.8	6570.3	6577.3
7.5°	6587.9	6584.4	6584.4	6577.3	6577.3	6570.3	6577.3	6566.8	6573.8	6566.8	6577.3
10°	6570.3	6573.8	6570.3	6566.8	6566.8	6563.3	6563.3	6552.7	6556.2	6545.6	6552.7
12.5°	6559.7	6556.2	6556.2	6549.1	6542.2	6535.1	6531.6	6521.0	6521.0	6496.4	6506.9
15°	6531.6	6535.1	6524.5	6510.5	6503.4	6485.9	6478.8	6464.7	6450.6	6433.1	6436.6
17.5°	6506.9	6496.4	6482.3	6468.2	6440.0	6426.0	6411.9	6390.8	6383.7	6362.6	6355.7
20°	6433.1	6426.0	6408.4	6383.7	6366.2	6334.5	6320.4	6299.3	6281.7	6260.6	6250.0
22.5°	6338.0	6330.9	6309.8	6285.2	6257.1	6243.0	6228.9	6190.2	6172.6	6151.5	6148.0
25°	6218.4	6207.8	6186.7	6158.6	6144.4	6105.8	6091.6	6063.5	6056.5	6035.3	6031.9
27.5°	6035.3	6021.3	5996.7	5961.5	5936.8	5912.2	5898.2	5877.0	5870.0	5848.8	5845.4
30°	5760.9	5743.3	5694.0	5680.0	5637.7	5613.1	5613.1	5584.9	5588.4	5574.4	5574.4
32.5°	5328.0	5299.9	5261.1	5233.0	5204.8	5190.8	5190.8	5180.2	5187.3	5187.3	5194.3
35°	4754.4	4715.7	4694.5	4677.0	4677.0	4691.0	4733.3	4743.9	4765.0	4782.5	4796.7
37.5°	4018.8	4015.4	4040.0	4061.1	4113.9	4173.8	4247.6	4311.0	4370.8	4413.1	4455.2
40°	3223.6	3311.6	3381.9	3480.5	3561.4	3677.5	3811.2	3920.3	4022.4	4096.3	4173.8
42.5°	2516.2	2628.8	2776.6	2920.9	3065.2	3223.6	3399.6	3550.8	3684.6	3786.6	3867.6
45°	1960.2	2115.0	2294.5	2477.5	2664.0	2861.1	3044.1	3198.9	3339.7	3445.3	3526.2
47.5°	1580.1	1749.0	1953.1	2153.7	2364.9	2572.5	2776.6	2910.4	3026.5	3110.9	3184.9
50°	1305.6	1485.1	1699.8	1928.5	2139.6	2347.3	2523.2	2653.4	2748.5	2822.4	2868.1
52.5°	1090.9	1280.9	1509.7	1738.4	1949.6	2139.6	2298.1	2396.6	2474.0	2526.8	2569.0
55°	900.9	1083.9	1298.6	1513.3	1720.9	1900.3	2030.5	2104.5	2164.2	2195.9	2220.6
57.5°	735.5	904.4	1101.5	1298.6	1478.0	1625.9	1727.9	1801.8	1830.0	1854.6	1851.1
60°	577.2	735.5	915.0	1083.9	1238.8	1358.4	1432.3	1474.5	1495.6	1506.2	1499.1
62.5°	454.0	598.3	735.5	883.3	995.9	1098.0	1168.4	1168.4	1178.9	1182.4	1193.0
65°	337.8	446.9	566.6	675.7	767.1	834.0	872.8	883.3	897.4	893.9	886.8
67.5°	249.9	330.8	418.7	499.7	563.1	605.3	633.4	658.1	654.6	647.5	644.0
70°	172.5	225.3	302.7	351.9	397.6	439.9	446.9	450.4	454.0	457.5	450.4
72.5°	119.7	158.4	200.6	242.8	271.0	288.6	306.2	309.6	309.6	309.6	306.2
75°	59.8	80.9	119.7	137.3	161.9	168.9	183.0	183.0	193.6	179.5	175.9
77.5°	52.8	63.4	84.5	98.5	109.1	119.7	123.1	133.7	130.2	123.1	126.7
80°	31.7	38.7	52.8	59.8	73.9	77.4	80.9	84.5	80.9	84.5	84.5
82.5°	24.6	28.2	35.2	35.2	45.7	45.7	49.3	49.3	52.8	52.8	52.8
85°	14.0	24.6	21.1	42.2	28.2	28.2	35.2	42.2	35.2	35.2	42.2
87.5°	14.0	14.0	10.6	14.0	14.0	14.0	17.6	21.1	21.1	24.6	21.1
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: P249475

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6556.2	6556.2	6556.2	6556.2
2.5°	6566.8	6573.8	6563.3	6559.7
5°	6577.3	6577.3	6570.3	6570.3
7.5°	6577.3	6577.3	6566.8	6559.7
10°	6549.1	6549.1	6538.6	6531.6
12.5°	6496.4	6496.4	6492.8	6482.3
15°	6429.5	6429.5	6415.4	6404.9
17.5°	6338.0	6345.1	6327.5	6327.5
20°	6239.5	6236.0	6221.9	6214.9
22.5°	6137.5	6130.4	6126.9	6105.8
25°	6028.4	6021.3	6010.7	6000.2
27.5°	5841.8	5838.3	5827.7	5813.7
30°	5556.7	5553.2	5539.2	5539.2
32.5°	5187.3	5183.7	5169.7	5173.2
35°	4803.6	4817.8	4810.7	4796.7
37.5°	4483.4	4494.0	4501.1	4494.0
40°	4216.0	4247.6	4251.2	4258.2
42.5°	3930.9	3973.1	3987.2	3994.2
45°	3589.5	3628.3	3659.9	3652.9
47.5°	3241.1	3269.3	3297.4	3276.3
50°	2906.8	2924.4	2935.0	2935.0
52.5°	2590.1	2590.1	2586.6	2590.1
55°	2227.6	2227.6	2213.6	2220.6
57.5°	1847.5	1854.6	1844.0	1826.4
60°	1495.6	1478.0	1471.0	1460.5
62.5°	1164.9	1164.9	1140.2	1171.8
65°	872.8	862.2	851.6	848.1
67.5°	633.4	630.0	619.4	615.8
70°	446.9	432.9	429.3	422.3
72.5°	299.1	299.1	292.1	292.1
75°	183.0	165.4	161.9	165.4
77.5°	126.7	123.1	123.1	119.7
80°	84.5	80.9	88.0	77.4
82.5°	52.8	56.3	52.8	56.3
85°	35.2	42.2	38.7	38.7
87.5°	21.1	21.1	21.1	21.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)