

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: P248412

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120950 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11949.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

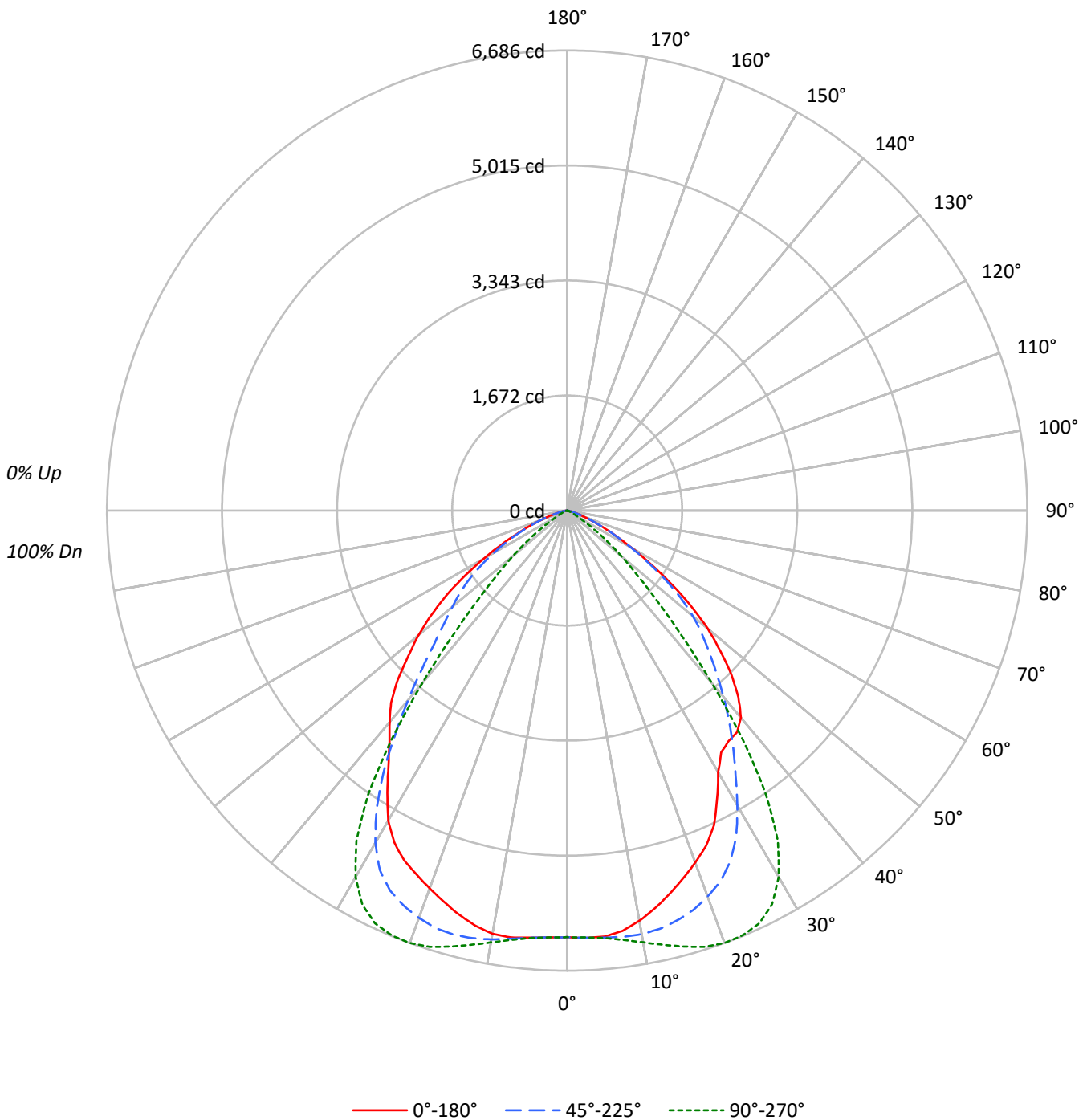
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	191145	191145	191145
5°	192284	192996	192791
10°	189460	199454	195537
15°	183921	209339	194003
20°	178581	219393	191645
25°	171726	225012	190756
30°	156281	218842	185101
35°	153953	189625	170302
40°	158138	131518	161447
45°	147216	79486	151808
50°	127694	49086	135269
55°	97991	25650	114797
60°	66761	10349	86644
65°	41532	5283	59773
70°	22549	3264	36487
75°	11759	1561	21565
80°	5256	1758	11685
85°	3503	1168	10473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.1	5.0
10°-20°	1765.9	14.8
20°-30°	2694.1	22.5
30°-40°	2811.4	23.5
40°-50°	2111.7	17.7
50°-60°	1299.3	10.9
60°-70°	528.8	4.4
70°-80°	124.6	1.0
80°-90°	17.1	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°	5056.2	42.3
0°-40°	7867.5	65.8
0°-60°	11278.5	94.4
0°-90°	11949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11949.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6199	6199	6199	6199	6199	
5°	6212	6228	6235	6228	6228	588
15°	5761	6166	6557	6376	6077	1623
25°	5047	5613	6613	6090	5606	2295
35°	4090	4205	5037	4656	4524	2582
45°	3376	2922	1823	2721	3481	2576
55°	1823	1731	477	1731	2135	1638
65°	569	576	72	773	819	594
75°	99	99	13	174	181	119
85°	10	10	3	23	30	14
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°	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7
2.5°	6215.2	6205.3	6215.2	6215.2	6218.5	6211.9	6215.2	6218.5	6211.9	6211.9	6211.9
5°	6211.9	6205.3	6211.9	6208.6	6215.2	6215.2	6221.8	6221.8	6228.3	6228.3	6238.2
7.5°	6159.3	6146.1	6159.3	6169.2	6175.7	6188.9	6205.3	6218.5	6231.6	6244.8	6261.3
10°	6050.7	6050.7	6060.6	6080.3	6100.0	6123.0	6152.7	6185.6	6218.5	6248.1	6277.7
12.5°	5915.8	5905.9	5925.6	5952.0	5981.6	6017.8	6063.9	6113.2	6165.9	6225.0	6271.2
15°	5761.2	5751.3	5774.3	5800.6	5836.8	5889.5	5945.4	6011.2	6086.9	6165.9	6241.5
17.5°	5603.2	5599.9	5622.9	5659.2	5688.8	5744.7	5817.1	5896.0	5981.6	6086.9	6185.6
20°	5442.0	5438.7	5461.8	5491.4	5530.8	5583.5	5655.9	5748.0	5850.0	5968.5	6083.6
22.5°	5274.2	5277.5	5297.2	5330.1	5363.1	5418.9	5494.6	5586.8	5698.6	5826.9	5955.3
25°	5047.2	5030.7	5057.1	5090.0	5145.9	5191.9	5264.4	5363.1	5478.2	5613.1	5764.5
27.5°	4718.1	4714.8	4737.9	4767.5	4816.8	4872.8	4951.8	5053.8	5175.5	5323.5	5471.6
30°	4389.1	4395.7	4405.6	4435.2	4468.1	4524.0	4603.0	4688.6	4803.7	4945.2	5103.1
32.5°	4165.4	4165.4	4178.6	4198.3	4221.3	4251.0	4306.9	4369.4	4458.3	4557.0	4672.1
35°	4089.7	4076.6	4089.7	4093.0	4096.3	4102.9	4112.7	4132.5	4162.1	4204.9	4247.7
37.5°	4056.9	4047.0	4047.0	4033.8	4017.3	3997.6	3971.3	3941.7	3908.8	3866.0	3833.1
40°	3928.5	3921.9	3915.3	3902.2	3866.0	3826.5	3783.7	3714.6	3639.0	3533.7	3428.4
42.5°	3681.8	3675.2	3671.9	3645.6	3612.6	3566.6	3517.2	3444.9	3349.5	3214.5	3063.2
45°	3375.8	3362.6	3352.8	3329.7	3306.6	3267.2	3221.1	3155.3	3059.9	2921.7	2740.7
47.5°	3020.4	3013.8	3010.5	3000.7	2977.7	2954.6	2925.0	2872.4	2786.8	2655.2	2467.7
50°	2661.8	2648.6	2655.2	2651.9	2642.0	2625.6	2605.8	2569.7	2503.8	2385.4	2214.3
52.5°	2250.5	2250.5	2247.2	2257.1	2260.4	2257.1	2260.4	2220.9	2165.0	2076.1	1931.3
55°	1822.7	1822.7	1832.6	1845.8	1859.0	1862.3	1859.0	1842.5	1803.0	1730.6	1602.3
57.5°	1421.3	1414.8	1434.5	1454.3	1467.5	1480.6	1470.7	1457.6	1434.5	1375.3	1276.6
60°	1082.5	1082.5	1095.6	1108.8	1121.9	1135.1	1131.8	1128.5	1108.8	1069.3	990.4
62.5°	796.2	799.5	799.5	809.4	822.5	835.7	845.6	835.7	825.8	799.5	746.9
65°	569.2	565.9	569.2	579.1	589.0	602.1	608.7	605.4	595.5	575.8	536.3
67.5°	381.7	378.4	391.5	394.8	401.4	414.6	411.3	414.6	411.3	394.8	362.0
70°	250.1	243.5	250.1	246.8	256.7	260.0	266.5	269.8	266.5	256.7	246.8
72.5°	154.7	151.4	154.7	158.0	161.3	164.5	171.1	171.1	167.8	161.3	148.1
75°	98.7	88.8	92.1	85.6	92.1	92.1	98.7	102.0	98.7	98.7	92.1
77.5°	59.3	59.3	59.3	59.3	59.3	59.3	59.3	62.6	65.8	59.3	56.0
80°	29.6	29.6	32.9	32.9	32.9	36.2	32.9	32.9	32.9	36.2	26.3
82.5°	23.0	19.7	19.7	19.7	23.0	19.7	19.7	19.7	19.7	19.7	19.7
85°	9.9	13.1	9.9	6.6	9.9	9.9	13.1	9.9	9.9	9.9	13.1
87.5°	3.3	3.3	0.0	0.0	0.0	3.3	0.0	3.3	3.3	6.6	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7
2.5°	6215.2	6208.6	6208.6	6205.3	6211.9	6205.3	6208.6	6205.3	6205.3	6211.9	6205.3
5°	6238.2	6241.5	6234.9	6231.6	6241.5	6241.5	6241.5	6234.9	6234.9	6238.2	6234.9
7.5°	6271.2	6277.7	6281.0	6284.3	6290.9	6294.2	6294.2	6290.9	6287.6	6297.5	6284.3
10°	6307.3	6317.2	6336.9	6346.8	6363.3	6363.3	6369.9	6369.9	6363.3	6369.9	6366.6
12.5°	6294.2	6353.4	6386.3	6409.3	6432.3	6452.1	6458.7	6462.0	6458.7	6471.9	6458.7
15°	6317.2	6366.6	6419.2	6458.7	6501.4	6524.4	6531.0	6557.4	6564.0	6567.3	6547.5
17.5°	6281.0	6369.9	6425.7	6485.0	6547.5	6590.3	6629.7	6646.3	6649.6	6656.1	6629.7
20°	6198.7	6297.5	6383.0	6468.6	6540.9	6606.7	6639.6	6685.7	6672.6	6698.9	6662.7
22.5°	6086.9	6198.7	6307.3	6419.2	6494.9	6573.9	6642.9	6675.8	6692.3	6692.3	6652.8
25°	5909.2	6040.8	6159.3	6274.4	6389.6	6485.0	6564.0	6613.3	6623.2	6619.9	6573.9
27.5°	5632.8	5774.3	5912.5	6044.1	6185.6	6297.5	6389.6	6448.8	6465.3	6465.3	6415.9
30°	5251.2	5402.5	5537.4	5695.3	5840.1	5965.2	6093.5	6146.1	6175.7	6175.7	6119.8
32.5°	4797.1	4925.4	5050.5	5205.1	5363.1	5504.5	5626.2	5698.6	5734.8	5731.5	5682.2
35°	4303.6	4366.1	4461.6	4576.7	4718.1	4849.8	4968.2	5037.3	5099.8	5096.5	5050.5
37.5°	3810.0	3793.6	3803.5	3846.3	3935.1	4027.2	4119.3	4185.2	4237.8	4260.9	4251.0
40°	3326.4	3240.8	3158.6	3129.0	3135.5	3168.5	3217.8	3267.2	3326.4	3356.1	3369.2
42.5°	2892.1	2747.3	2602.5	2494.0	2431.4	2411.7	2434.7	2451.2	2487.4	2530.1	2573.0
45°	2543.3	2349.2	2158.4	1990.6	1885.3	1822.7	1809.6	1822.7	1842.5	1885.3	1941.2
47.5°	2257.1	2030.0	1816.2	1628.6	1474.0	1391.8	1368.8	1362.2	1381.9	1421.3	1497.0
50°	2003.7	1776.7	1539.8	1322.6	1161.5	1069.3	1036.4	1023.2	1046.3	1075.9	1145.0
52.5°	1727.3	1503.6	1260.2	1049.6	881.8	786.4	750.2	730.4	743.6	783.1	852.2
55°	1427.9	1220.6	1000.2	783.1	621.8	533.0	490.2	477.1	490.2	533.0	602.1
57.5°	1128.5	954.2	769.9	565.9	421.1	332.3	289.5	276.4	312.6	329.0	401.4
60°	881.8	740.3	582.4	414.6	289.5	220.4	177.7	167.8	184.3	213.8	273.1
62.5°	661.4	572.5	447.5	296.1	213.8	141.5	118.4	108.6	118.4	141.5	187.6
65°	480.4	411.3	312.6	217.1	144.8	105.3	79.0	72.4	82.3	98.7	138.2
67.5°	329.0	276.4	217.1	151.4	98.7	65.8	56.0	56.0	59.3	72.4	102.0
70°	213.8	181.0	138.2	98.7	65.8	49.4	42.7	36.2	42.7	52.7	69.1
72.5°	134.9	115.1	88.8	69.1	49.4	36.2	29.6	26.3	32.9	39.4	52.7
75°	82.3	62.6	46.1	36.2	26.3	26.3	26.3	13.1	16.4	26.3	32.9
77.5°	49.4	42.7	36.2	29.6	23.0	13.1	13.1	13.1	16.4	19.7	29.6
80°	26.3	23.0	16.4	16.4	13.1	9.9	13.1	9.9	6.6	16.4	19.7
82.5°	16.4	13.1	13.1	13.1	16.4	6.6	9.9	6.6	9.9	13.1	9.9
85°	9.9	9.9	9.9	6.6	16.4	6.6	6.6	3.3	3.3	6.6	6.6
87.5°	0.0	3.3	3.3	0.0	3.3	0.0	3.3	3.3	3.3	3.3	3.3
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°	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7
2.5°	6208.6	6205.3	6208.6	6205.3	6205.3	6205.3	6208.6	6208.6	6205.3	6205.3	6211.9
5°	6234.9	6234.9	6234.9	6231.6	6228.3	6228.3	6234.9	6234.9	6225.0	6234.9	6234.9
7.5°	6290.9	6281.0	6290.9	6277.7	6271.2	6274.4	6277.7	6271.2	6264.6	6267.9	6267.9
10°	6363.3	6353.4	6353.4	6343.5	6333.6	6327.0	6320.5	6304.0	6287.6	6284.3	6271.2
12.5°	6448.8	6432.3	6422.5	6402.7	6386.3	6363.3	6343.5	6317.2	6284.3	6261.3	6238.2
15°	6534.3	6508.0	6485.0	6452.1	6415.9	6376.4	6333.6	6290.9	6238.2	6192.2	6152.7
17.5°	6603.4	6567.3	6524.4	6471.9	6419.2	6360.0	6297.5	6234.9	6159.3	6100.0	6054.0
20°	6626.4	6573.9	6517.9	6448.8	6379.7	6297.5	6218.5	6136.2	6050.7	5988.2	5935.5
22.5°	6596.9	6534.3	6465.3	6392.9	6300.7	6211.9	6119.8	6024.3	5948.7	5863.2	5813.8
25°	6514.6	6438.9	6363.3	6277.7	6188.9	6090.2	5991.5	5892.8	5800.6	5754.6	5692.1
27.5°	6346.8	6264.6	6182.3	6093.5	5991.5	5892.8	5790.8	5695.3	5616.4	5553.9	5517.7
30°	6050.7	5955.3	5859.9	5764.5	5675.6	5573.6	5478.2	5399.2	5320.2	5270.9	5234.7
32.5°	5596.6	5511.1	5415.7	5323.5	5241.3	5155.8	5076.8	5007.7	4951.8	4918.8	4892.5
35°	4984.7	4899.1	4826.7	4761.0	4691.8	4655.7	4606.3	4566.8	4543.8	4530.6	4527.3
37.5°	4214.7	4165.4	4142.4	4129.2	4116.0	4106.2	4112.7	4129.2	4142.4	4165.4	4191.7
40°	3392.2	3434.9	3448.2	3494.2	3537.0	3592.9	3655.5	3727.8	3787.0	3862.7	3915.3
42.5°	2642.0	2721.0	2813.1	2911.8	3017.1	3119.1	3244.1	3359.3	3464.6	3560.0	3642.3
45°	2030.0	2151.8	2290.0	2431.4	2573.0	2721.0	2872.4	3013.8	3138.8	3240.8	3326.4
47.5°	1582.6	1717.5	1895.2	2069.6	2240.6	2415.0	2582.8	2730.8	2836.1	2934.8	3010.5
50°	1253.6	1408.2	1602.3	1803.0	1990.6	2174.8	2352.5	2490.7	2596.0	2675.0	2730.8
52.5°	970.6	1154.9	1352.3	1562.9	1763.6	1964.3	2128.7	2257.1	2342.6	2411.7	2454.5
55°	723.8	904.8	1115.4	1332.5	1536.5	1730.6	1885.3	1997.2	2072.9	2112.3	2135.3
57.5°	523.1	687.7	898.2	1115.4	1299.6	1483.9	1608.9	1710.9	1753.7	1776.7	1786.6
60°	381.7	533.0	720.5	908.1	1082.5	1230.5	1339.1	1408.2	1441.1	1454.3	1451.0
62.5°	279.7	411.3	572.5	730.4	871.9	993.6	1079.2	1125.2	1141.7	1148.3	1138.4
65°	213.8	315.8	454.1	575.8	684.4	773.2	835.7	865.4	875.2	871.9	865.4
67.5°	158.0	236.9	338.9	431.0	510.0	579.1	612.0	638.3	644.9	635.0	625.1
70°	111.9	174.4	246.8	309.3	368.5	408.0	444.2	447.5	447.5	444.2	437.6
72.5°	79.0	121.7	167.8	210.6	246.8	276.4	289.5	299.4	296.1	292.8	286.3
75°	52.7	75.7	121.7	131.6	164.5	174.4	187.6	187.6	190.8	181.0	181.0
77.5°	32.9	52.7	72.4	85.6	98.7	111.9	118.4	118.4	121.7	118.4	118.4
80°	19.7	32.9	39.4	59.3	59.3	69.1	72.4	75.7	69.1	79.0	69.1
82.5°	13.1	19.7	29.6	29.6	36.2	42.7	42.7	46.1	46.1	42.7	42.7
85°	9.9	13.1	16.4	19.7	19.7	23.0	19.7	19.7	23.0	26.3	23.0
87.5°	3.3	6.6	3.3	6.6	6.6	13.1	9.9	9.9	9.9	13.1	13.1
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: P248412

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6198.7	6198.7	6198.7	6198.7
2.5°	6205.3	6208.6	6205.3	6205.3
5°	6234.9	6231.6	6234.9	6228.3
7.5°	6258.0	6258.0	6254.7	6254.7
10°	6258.0	6244.8	6244.8	6244.8
12.5°	6208.6	6192.2	6182.3	6175.7
15°	6123.0	6093.5	6080.3	6077.0
17.5°	6011.2	5984.9	5968.5	5958.6
20°	5882.9	5856.6	5836.8	5840.1
22.5°	5771.0	5741.4	5728.2	5721.6
25°	5659.2	5622.9	5613.1	5606.5
27.5°	5478.2	5458.5	5448.6	5438.7
30°	5201.8	5191.9	5175.5	5198.5
32.5°	4882.7	4866.2	4853.1	4863.0
35°	4530.6	4520.7	4530.6	4524.0
37.5°	4208.2	4218.0	4231.2	4237.8
40°	3954.9	3991.0	4004.2	4010.7
42.5°	3701.5	3744.3	3770.6	3787.0
45°	3388.9	3431.6	3461.3	3481.1
47.5°	3066.5	3102.7	3132.2	3129.0
50°	2773.7	2793.4	2806.5	2819.7
52.5°	2477.5	2477.5	2480.8	2480.8
55°	2141.9	2135.3	2132.0	2135.3
57.5°	1773.4	1766.9	1763.6	1753.7
60°	1437.8	1418.1	1404.9	1404.9
62.5°	1125.2	1102.2	1092.4	1089.1
65°	845.6	842.3	822.5	819.2
67.5°	612.0	598.8	585.7	589.0
70°	431.0	411.3	411.3	404.7
72.5°	279.7	269.8	266.5	266.5
75°	174.4	174.4	167.8	181.0
77.5°	115.1	115.1	111.9	115.1
80°	69.1	69.1	69.1	65.8
82.5°	42.7	46.1	42.7	42.7
85°	23.0	26.3	19.7	29.6
87.5°	13.1	16.4	13.1	16.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)