

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: P248476

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248476
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: LSR8B150D010 EC8B150850 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16808.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

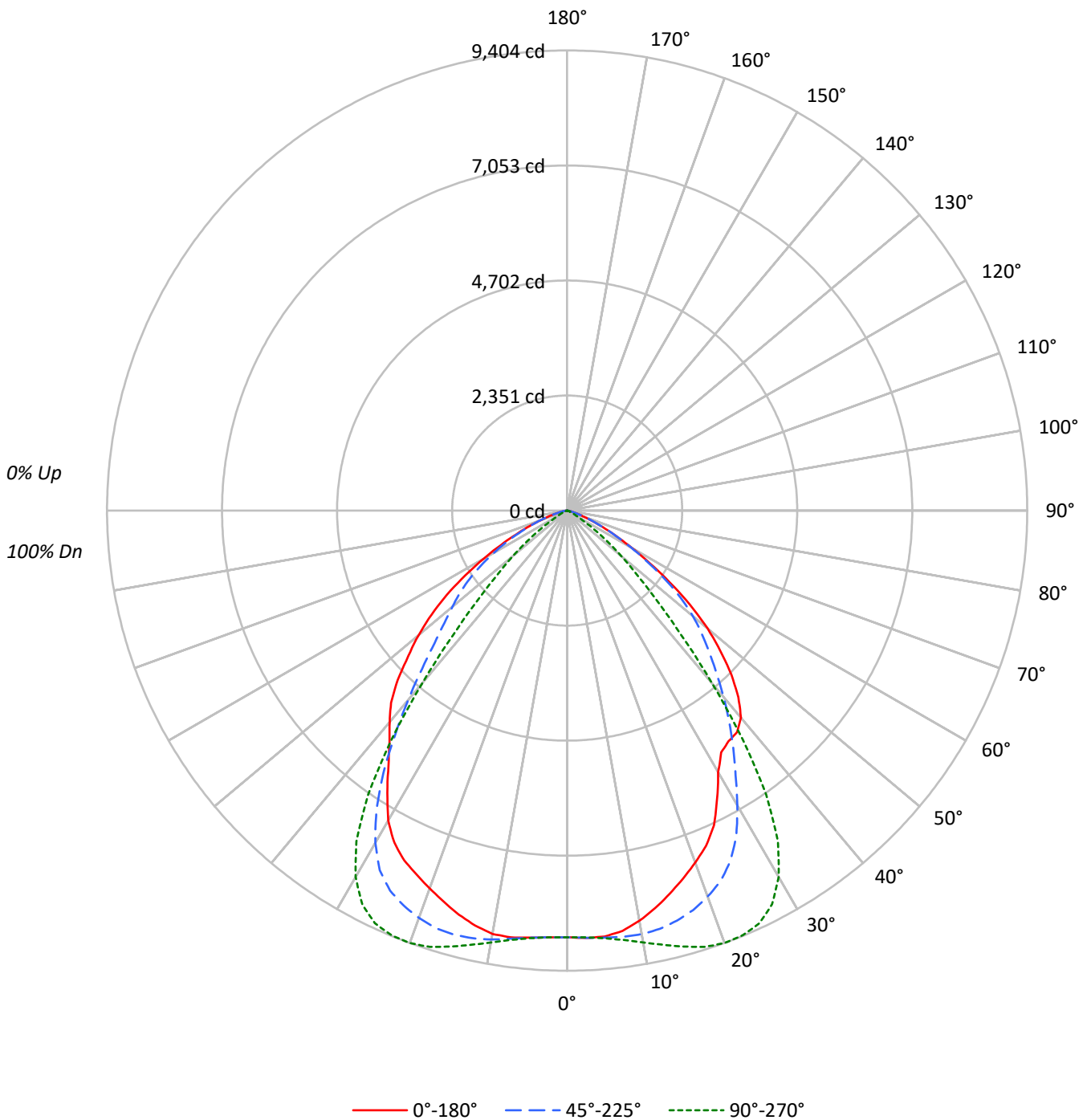
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	268874	268874	268874
5°	270477	271480	271192
10°	266500	280559	275054
15°	258710	294465	272894
20°	251201	308608	269578
25°	241558	316513	268328
30°	219832	307834	260374
35°	216559	266735	239556
40°	222443	184999	227101
45°	207078	111809	213536
50°	179620	69047	190274
55°	137839	36079	161483
60°	93909	14555	121877
65°	58416	7428	84085
70°	31709	4598	51328
75°	16537	2204	30334
80°	7405	2468	16426
85°	4918	1628	14754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.5	5.0
10°-20°	2484.1	14.8
20°-30°	3789.7	22.5
30°-40°	3954.6	23.5
40°-50°	2970.4	17.7
50°-60°	1827.6	10.9
60°-70°	743.8	4.4
70°-80°	175.2	1.0
80°-90°	24.1	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°	7112.3	42.3
0°-40°	11066.8	65.8
0°-60°	15864.9	94.4
0°-90°	16808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16808.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8719	8719	8719	8719	8719	
5°	8738	8761	8770	8761	8761	827
15°	8104	8673	9224	8969	8548	2283
25°	7100	7896	9303	8567	7886	3228
35°	5753	5915	7086	6549	6364	3632
45°	4748	4110	2564	3828	4897	3623
55°	2564	2434	671	2434	3004	2305
65°	801	810	102	1088	1152	835
75°	139	139	18	245	255	167
85°	14	14	5	32	42	20
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°	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4
2.5°	8742.6	8728.7	8742.6	8742.6	8747.3	8738.0	8742.6	8747.3	8738.0	8738.0	8738.0
5°	8738.0	8728.7	8738.0	8733.3	8742.6	8742.6	8751.9	8751.9	8761.1	8761.1	8775.0
7.5°	8663.9	8645.4	8663.9	8677.8	8687.0	8705.6	8728.7	8747.3	8765.7	8784.3	8807.4
10°	8511.1	8511.1	8525.1	8552.8	8580.6	8612.9	8654.6	8700.9	8747.3	8788.8	8830.5
12.5°	8321.5	8307.5	8335.3	8372.3	8414.0	8464.9	8529.7	8599.1	8673.2	8756.4	8821.3
15°	8103.9	8090.0	8122.4	8159.4	8210.4	8284.4	8363.1	8455.7	8562.1	8673.2	8779.6
17.5°	7881.7	7877.1	7909.5	7960.4	8002.1	8080.7	8182.6	8293.6	8414.0	8562.1	8700.9
20°	7655.0	7650.4	7682.8	7724.4	7779.9	7854.0	7955.8	8085.3	8228.8	8395.5	8557.5
22.5°	7418.9	7423.6	7451.3	7497.6	7543.9	7622.5	7729.0	7858.6	8015.9	8196.4	8376.9
25°	7099.6	7076.5	7113.5	7159.8	7238.4	7303.2	7405.1	7543.9	7705.9	7895.7	8108.6
27.5°	6636.7	6632.1	6664.6	6706.2	6775.6	6854.3	6965.4	7108.8	7280.1	7488.3	7696.6
30°	6173.9	6183.2	6197.1	6238.8	6285.0	6363.7	6474.8	6595.2	6757.1	6956.1	7178.3
32.5°	5859.2	5859.2	5877.8	5905.5	5937.9	5979.6	6058.3	6146.2	6271.2	6410.0	6572.0
35°	5752.8	5734.3	5752.8	5757.4	5762.0	5771.3	5785.2	5813.0	5854.6	5914.8	5974.9
37.5°	5706.6	5692.6	5692.6	5674.2	5651.0	5623.2	5586.2	5544.5	5498.3	5438.1	5391.9
40°	5526.0	5516.8	5507.5	5489.0	5438.1	5382.6	5322.3	5225.2	5118.7	4970.6	4822.6
42.5°	5179.0	5169.7	5165.0	5128.0	5081.7	5016.9	4947.5	4845.7	4711.5	4521.7	4308.8
45°	4748.5	4729.9	4716.1	4683.7	4651.2	4595.8	4531.0	4438.3	4304.2	4109.8	3855.3
47.5°	4248.7	4239.4	4234.7	4220.9	4188.5	4156.0	4114.5	4040.4	3920.0	3734.9	3471.1
50°	3744.2	3725.7	3734.9	3730.3	3716.4	3693.3	3665.5	3614.6	3522.0	3355.4	3114.8
52.5°	3165.6	3165.6	3161.1	3174.9	3179.5	3174.9	3179.5	3124.0	3045.3	2920.3	2716.7
55°	2563.9	2563.9	2577.9	2596.4	2614.9	2619.5	2614.9	2591.8	2536.2	2434.4	2253.9
57.5°	1999.3	1990.1	2017.9	2045.6	2064.2	2082.7	2068.7	2050.3	2017.9	1934.5	1795.7
60°	1522.7	1522.7	1541.1	1559.7	1578.2	1596.7	1592.1	1587.4	1559.7	1504.1	1393.1
62.5°	1120.0	1124.6	1124.6	1138.5	1157.0	1175.6	1189.4	1175.6	1161.7	1124.6	1050.6
65°	800.6	796.0	800.6	814.6	828.5	846.9	856.2	851.6	837.7	809.9	754.4
67.5°	536.9	532.2	550.7	555.3	564.6	583.2	578.6	583.2	578.6	555.3	509.1
70°	351.7	342.4	351.7	347.1	361.0	365.7	374.8	379.5	374.8	361.0	347.1
72.5°	217.5	212.9	217.5	222.2	226.8	231.4	240.6	240.6	236.0	226.8	208.3
75°	138.8	124.9	129.6	120.4	129.6	129.6	138.8	143.5	138.8	138.8	129.6
77.5°	83.3	83.3	83.3	83.3	83.3	83.3	83.3	88.0	92.5	83.3	78.7
80°	41.7	41.7	46.3	46.3	46.3	51.0	46.3	46.3	46.3	51.0	37.0
82.5°	32.4	27.7	27.7	27.7	32.4	27.7	27.7	27.7	27.7	27.7	27.7
85°	13.9	18.5	13.9	9.3	13.9	13.9	18.5	13.9	13.9	13.9	18.5
87.5°	4.6	4.6	0.0	0.0	0.0	4.6	0.0	4.6	4.6	9.3	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°	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4
2.5°	8742.6	8733.3	8733.3	8728.7	8738.0	8728.7	8733.3	8728.7	8728.7	8738.0	8728.7
5°	8775.0	8779.6	8770.4	8765.7	8779.6	8779.6	8779.6	8770.4	8770.4	8775.0	8770.4
7.5°	8821.3	8830.5	8835.1	8839.8	8849.1	8853.7	8853.7	8849.1	8844.4	8858.3	8839.8
10°	8872.2	8886.1	8913.8	8927.8	8950.9	8950.9	8960.1	8960.1	8950.9	8960.1	8955.5
12.5°	8853.7	8936.9	8983.3	9015.6	9048.0	9075.8	9085.1	9089.7	9085.1	9103.6	9085.1
15°	8886.1	8955.5	9029.6	9085.1	9145.2	9177.6	9186.9	9223.9	9233.2	9237.8	9210.1
17.5°	8835.1	8960.1	9038.7	9122.1	9210.1	9270.2	9325.7	9348.9	9353.6	9362.7	9325.7
20°	8719.4	8858.3	8978.6	9099.0	9200.8	9293.3	9339.6	9404.4	9385.9	9423.0	9372.0
22.5°	8562.1	8719.4	8872.2	9029.6	9136.0	9247.1	9344.3	9390.5	9413.7	9413.7	9358.1
25°	8312.2	8497.3	8663.9	8825.8	8987.9	9122.1	9233.2	9302.6	9316.5	9311.9	9247.1
27.5°	7923.4	8122.4	8316.8	8502.0	8700.9	8858.3	8987.9	9071.1	9094.3	9094.3	9024.9
30°	7386.5	7599.4	7789.2	8011.3	8215.0	8390.9	8571.4	8645.4	8687.0	8687.0	8608.4
32.5°	6747.8	6928.3	7104.2	7321.7	7543.9	7742.9	7914.1	8015.9	8066.9	8062.2	7992.8
35°	6053.6	6141.5	6275.8	6437.8	6636.7	6821.9	6988.5	7085.7	7173.6	7169.0	7104.2
37.5°	5359.4	5336.3	5350.2	5410.3	5535.2	5664.9	5794.4	5887.1	5961.0	5993.5	5979.6
40°	4679.1	4558.7	4443.0	4401.4	4410.6	4456.9	4526.3	4595.8	4679.1	4720.8	4739.2
42.5°	4068.2	3864.5	3660.8	3508.2	3420.2	3392.4	3424.8	3447.9	3498.9	3559.0	3619.3
45°	3577.6	3304.6	3036.1	2800.1	2651.9	2563.9	2545.5	2563.9	2591.8	2651.9	2730.6
47.5°	3174.9	2855.5	2554.8	2290.9	2073.4	1957.7	1925.4	1916.1	1943.8	1999.3	2105.8
50°	2818.5	2499.2	2166.0	1860.5	1633.8	1504.1	1457.9	1439.3	1471.7	1513.4	1610.5
52.5°	2429.8	2115.0	1772.6	1476.4	1240.4	1106.2	1055.2	1027.5	1045.9	1101.5	1198.7
55°	2008.6	1717.0	1406.9	1101.5	874.7	749.8	689.5	671.1	689.5	749.8	846.9
57.5°	1587.4	1342.2	1082.9	796.0	592.4	467.5	407.2	388.8	439.7	462.8	564.6
60°	1240.4	1041.4	819.2	583.2	407.2	310.1	249.9	236.0	259.2	300.8	384.1
62.5°	930.3	805.3	629.4	416.5	300.8	199.0	166.6	152.8	166.6	199.0	263.9
65°	675.7	578.6	439.7	305.4	203.6	148.1	111.1	101.8	115.7	138.8	194.4
67.5°	462.8	388.8	305.4	212.9	138.8	92.5	78.7	78.7	83.3	101.8	143.5
70°	300.8	254.6	194.4	138.8	92.5	69.4	60.1	51.0	60.1	74.1	97.2
72.5°	189.8	161.9	124.9	97.2	69.4	51.0	41.7	37.0	46.3	55.5	74.1
75°	115.7	88.0	64.8	51.0	37.0	37.0	37.0	18.5	23.1	37.0	46.3
77.5°	69.4	60.1	51.0	41.7	32.4	18.5	18.5	18.5	23.1	27.7	41.7
80°	37.0	32.4	23.1	23.1	18.5	13.9	18.5	13.9	9.3	23.1	27.7
82.5°	23.1	18.5	18.5	18.5	23.1	9.3	13.9	9.3	13.9	18.5	13.9
85°	13.9	13.9	13.9	9.3	23.1	9.3	9.3	4.6	4.6	9.3	9.3
87.5°	0.0	4.6	4.6	0.0	4.6	0.0	4.6	4.6	4.6	4.6	4.6
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°	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4	8719.4
2.5°	8733.3	8728.7	8733.3	8728.7	8728.7	8728.7	8733.3	8733.3	8728.7	8728.7	8738.0
5°	8770.4	8770.4	8770.4	8765.7	8761.1	8761.1	8770.4	8770.4	8756.4	8770.4	8770.4
7.5°	8849.1	8835.1	8849.1	8830.5	8821.3	8825.8	8830.5	8821.3	8812.0	8816.7	8816.7
10°	8950.9	8936.9	8936.9	8923.1	8909.2	8899.9	8890.7	8867.5	8844.4	8839.8	8821.3
12.5°	9071.1	9048.0	9034.2	9006.4	8983.3	8950.9	8923.1	8886.1	8839.8	8807.4	8775.0
15°	9191.5	9154.5	9122.1	9075.8	9024.9	8969.3	8909.2	8849.1	8775.0	8710.2	8654.6
17.5°	9288.7	9237.8	9177.6	9103.6	9029.6	8946.2	8858.3	8770.4	8663.9	8580.6	8515.8
20°	9321.1	9247.1	9168.4	9071.1	8974.0	8858.3	8747.3	8631.5	8511.1	8423.3	8349.2
22.5°	9279.5	9191.5	9094.3	8992.5	8862.9	8738.0	8608.4	8474.1	8367.7	8247.4	8178.0
25°	9163.8	9057.3	8950.9	8830.5	8705.6	8566.7	8427.9	8289.1	8159.4	8094.6	8006.8
27.5°	8927.8	8812.0	8696.3	8571.4	8427.9	8289.1	8145.6	8011.3	7900.3	7812.3	7761.5
30°	8511.1	8376.9	8242.8	8108.6	7983.5	7840.1	7705.9	7594.8	7483.7	7414.3	7363.4
32.5°	7872.5	7752.2	7618.0	7488.3	7372.7	7252.3	7141.2	7044.1	6965.4	6919.1	6882.0
35°	7011.7	6891.3	6789.5	6697.0	6599.7	6548.9	6479.4	6423.8	6391.5	6373.0	6368.4
37.5°	5928.6	5859.2	5826.8	5808.4	5789.8	5776.0	5785.2	5808.4	5826.8	5859.2	5896.2
40°	4771.6	4831.8	4850.3	4915.1	4975.2	5053.9	5141.9	5243.7	5327.0	5433.4	5507.5
42.5°	3716.4	3827.5	3957.1	4095.9	4244.0	4387.5	4563.4	4725.3	4873.4	5007.6	5123.4
45°	2855.5	3026.8	3221.2	3420.2	3619.3	3827.5	4040.4	4239.4	4415.2	4558.7	4679.1
47.5°	2226.1	2415.9	2665.9	2911.1	3151.8	3397.1	3633.1	3841.3	3989.5	4128.3	4234.7
50°	1763.3	1980.9	2253.9	2536.2	2800.1	3059.2	3309.1	3503.5	3651.6	3762.7	3841.3
52.5°	1365.3	1624.5	1902.1	2198.4	2480.7	2763.0	2994.4	3174.9	3295.3	3392.4	3452.6
55°	1018.2	1272.7	1569.0	1874.4	2161.4	2434.4	2651.9	2809.3	2915.8	2971.3	3003.7
57.5°	735.9	967.3	1263.5	1569.0	1828.1	2087.3	2263.2	2406.6	2466.8	2499.2	2513.1
60°	536.9	749.8	1013.5	1277.4	1522.7	1730.9	1883.7	1980.9	2027.2	2045.6	2041.0
62.5°	393.4	578.6	805.3	1027.5	1226.4	1397.7	1518.0	1582.8	1606.0	1615.2	1601.4
65°	300.8	444.3	638.7	809.9	962.7	1087.6	1175.6	1217.3	1231.1	1226.4	1217.3
67.5°	222.2	333.3	476.8	606.3	717.4	814.6	860.9	897.9	907.1	893.3	879.3
70°	157.4	245.3	347.1	435.1	518.3	573.9	624.8	629.4	629.4	624.8	615.6
72.5°	111.1	171.2	236.0	296.2	347.1	388.8	407.2	421.2	416.5	411.9	402.7
75°	74.1	106.4	171.2	185.2	231.4	245.3	263.9	263.9	268.4	254.6	254.6
77.5°	46.3	74.1	101.8	120.4	138.8	157.4	166.6	166.6	171.2	166.6	166.6
80°	27.7	46.3	55.5	83.3	83.3	97.2	101.8	106.4	97.2	111.1	97.2
82.5°	18.5	27.7	41.7	41.7	51.0	60.1	60.1	64.8	64.8	60.1	60.1
85°	13.9	18.5	23.1	27.7	27.7	32.4	27.7	27.7	32.4	37.0	32.4
87.5°	4.6	9.3	4.6	9.3	9.3	18.5	13.9	13.9	13.9	18.5	18.5
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: P248476

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8719.4	8719.4	8719.4	8719.4
2.5°	8728.7	8733.3	8728.7	8728.7
5°	8770.4	8765.7	8770.4	8761.1
7.5°	8802.7	8802.7	8798.1	8798.1
10°	8802.7	8784.3	8784.3	8784.3
12.5°	8733.3	8710.2	8696.3	8687.0
15°	8612.9	8571.4	8552.8	8548.2
17.5°	8455.7	8418.6	8395.5	8381.6
20°	8275.1	8238.1	8210.4	8215.0
22.5°	8117.7	8076.2	8057.6	8048.3
25°	7960.4	7909.5	7895.7	7886.4
27.5°	7705.9	7678.1	7664.2	7650.4
30°	7317.1	7303.2	7280.1	7312.5
32.5°	6868.2	6845.0	6826.5	6840.5
35°	6373.0	6359.1	6373.0	6363.7
37.5°	5919.5	5933.3	5951.8	5961.0
40°	5563.1	5613.9	5632.5	5641.7
42.5°	5206.7	5266.8	5303.9	5327.0
45°	4767.0	4827.1	4868.8	4896.6
47.5°	4313.4	4364.4	4406.0	4401.4
50°	3901.6	3929.3	3947.8	3966.3
52.5°	3485.0	3485.0	3489.6	3489.6
55°	3013.0	3003.7	2999.0	3003.7
57.5°	2494.5	2485.3	2480.7	2466.8
60°	2022.5	1994.8	1976.2	1976.2
62.5°	1582.8	1550.4	1536.6	1532.0
65°	1189.4	1184.8	1157.0	1152.4
67.5°	860.9	842.3	823.8	828.5
70°	606.3	578.6	578.6	569.3
72.5°	393.4	379.5	374.8	374.8
75°	245.3	245.3	236.0	254.6
77.5°	161.9	161.9	157.4	161.9
80°	97.2	97.2	97.2	92.5
82.5°	60.1	64.8	60.1	60.1
85°	32.4	37.0	27.7	41.7
87.5°	18.5	23.1	18.5	23.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)