

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: P248440

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248440
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 EC8B150827 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15567.0 lumens
Efficiency: N/A
Efficacy: 98.2 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

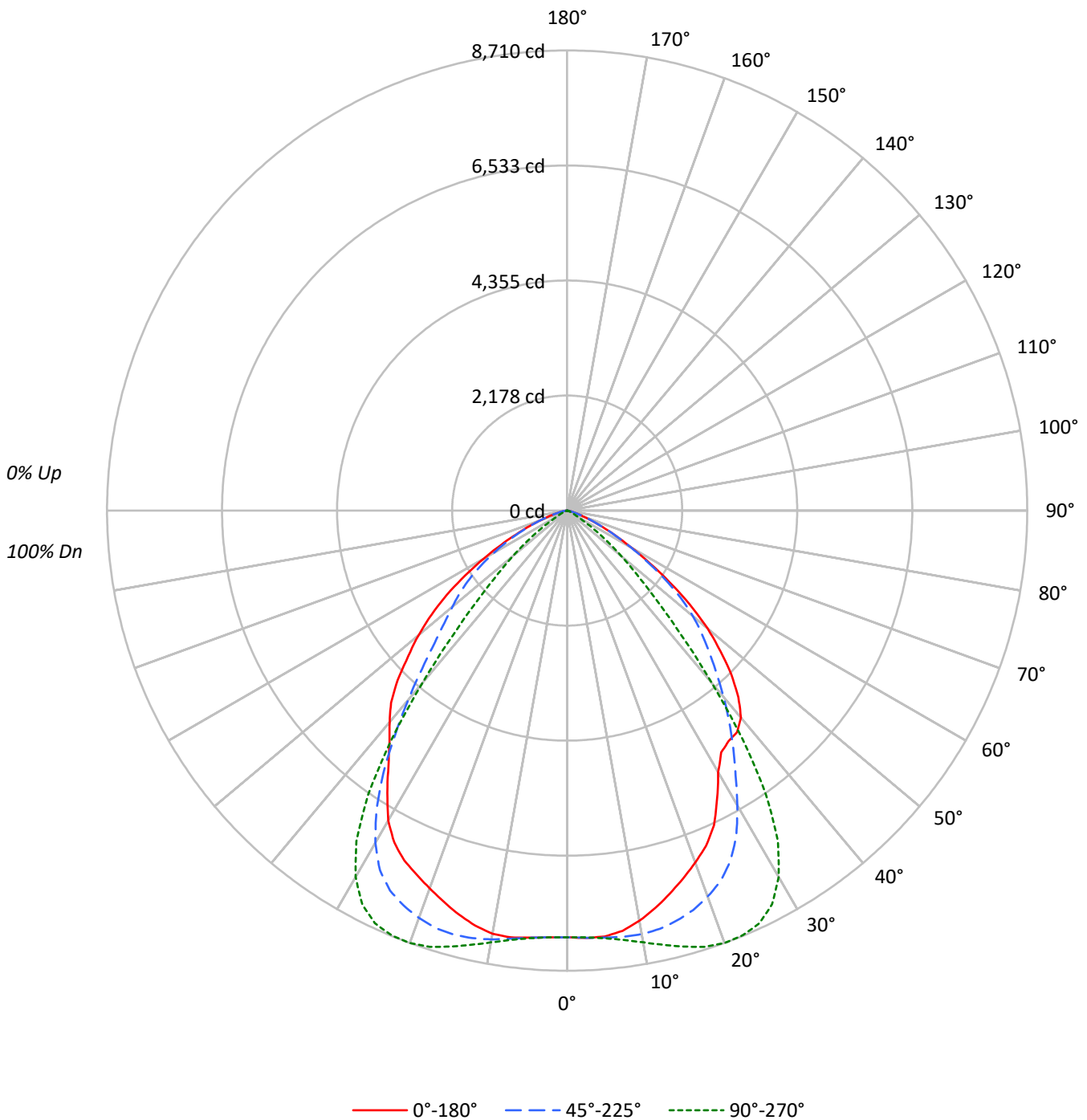
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	249022	249022	249022
5°	250505	251434	251168
10°	246823	259846	254745
15°	239610	272724	252743
20°	232654	285821	249675
25°	223722	293145	248515
30°	203603	285106	241150
35°	200568	247044	221871
40°	206020	171337	210331
45°	191789	103554	197772
50°	166355	63953	176228
55°	127662	33413	149559
60°	86971	13482	112879
65°	54103	6881	77875
70°	29374	4256	47532
75°	15322	2037	28094
80°	6855	2291	15219
85°	4564	1521	13657



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.6	5.0
10°-20°	2300.6	14.8
20°-30°	3509.9	22.5
30°-40°	3662.6	23.5
40°-50°	2751.1	17.7
50°-60°	1692.7	10.9
60°-70°	688.9	4.4
70°-80°	162.3	1.0
80°-90°	22.4	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°	6587.1	42.3
0°-40°	10249.7	65.8
0°-60°	14693.5	94.4
0°-90°	15567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15567.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8076	8076	8076	8076	8076	
5°	8093	8114	8123	8114	8114	766
15°	7506	8033	8543	8307	7917	2114
25°	6575	7313	8616	7934	7304	2989
35°	5328	5478	6563	6065	5894	3364
45°	4398	3806	2375	3545	4535	3355
55°	2375	2255	622	2255	2782	2135
65°	742	750	94	1007	1067	773
75°	129	129	17	227	236	155
85°	13	13	4	30	39	18
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°	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6
2.5°	8097.1	8084.2	8097.1	8097.1	8101.4	8092.8	8097.1	8101.4	8092.8	8092.8	8092.8
5°	8092.8	8084.2	8092.8	8088.5	8097.1	8097.1	8105.7	8105.7	8114.2	8114.2	8127.1
7.5°	8024.2	8007.1	8024.2	8037.1	8045.6	8062.8	8084.2	8101.4	8118.5	8135.7	8157.1
10°	7882.7	7882.7	7895.6	7921.3	7947.0	7977.0	8015.6	8058.5	8101.4	8139.9	8178.5
12.5°	7707.1	7694.2	7719.9	7754.1	7792.7	7839.9	7899.9	7964.2	8032.8	8109.9	8170.0
15°	7505.6	7492.7	7522.7	7557.0	7604.2	7672.8	7745.6	7831.3	7929.9	8032.8	8131.4
17.5°	7299.8	7295.5	7325.5	7372.7	7411.3	7484.1	7578.5	7681.3	7792.7	7929.9	8058.5
20°	7089.8	7085.5	7115.5	7154.1	7205.5	7274.1	7368.4	7488.4	7621.3	7775.6	7925.6
22.5°	6871.1	6875.4	6901.1	6944.0	6986.9	7059.7	7158.3	7278.4	7424.1	7591.3	7758.4
25°	6575.4	6554.0	6588.3	6631.2	6704.0	6764.0	6858.3	6986.9	7136.9	7312.7	7509.9
27.5°	6146.7	6142.4	6172.5	6211.0	6275.3	6348.2	6451.1	6584.0	6742.6	6935.4	7128.3
30°	5718.1	5726.7	5739.6	5778.2	5821.0	5893.9	5996.7	6108.2	6258.2	6442.5	6648.3
32.5°	5426.6	5426.6	5443.8	5469.5	5499.5	5538.1	5611.0	5692.4	5808.2	5936.7	6086.7
35°	5328.0	5310.9	5328.0	5332.3	5336.6	5345.2	5358.0	5383.8	5422.3	5478.1	5533.8
37.5°	5285.2	5272.3	5272.3	5255.2	5233.7	5208.0	5173.7	5135.1	5092.3	5036.5	4993.8
40°	5118.0	5109.4	5100.8	5083.7	5036.5	4985.2	4929.4	4839.4	4740.8	4603.6	4466.5
42.5°	4796.6	4788.0	4783.7	4749.4	4706.5	4646.5	4582.2	4487.9	4363.6	4187.8	3990.7
45°	4397.9	4380.7	4367.9	4337.9	4307.8	4256.4	4196.4	4110.6	3986.4	3806.4	3570.6
47.5°	3935.0	3926.4	3922.1	3909.3	3879.3	3849.2	3810.7	3742.1	3630.6	3459.1	3214.8
50°	3467.7	3450.6	3459.1	3454.9	3442.0	3420.6	3394.8	3347.7	3261.9	3107.7	2884.8
52.5°	2931.9	2931.9	2927.7	2940.5	2944.8	2940.5	2944.8	2893.4	2820.5	2704.7	2516.1
55°	2374.6	2374.6	2387.5	2404.7	2421.8	2426.1	2421.8	2400.4	2348.9	2254.7	2087.5
57.5°	1851.7	1843.2	1868.9	1894.6	1911.8	1928.9	1916.0	1898.9	1868.9	1791.7	1663.1
60°	1410.2	1410.2	1427.3	1444.5	1461.6	1478.8	1474.5	1470.2	1444.5	1393.0	1290.3
62.5°	1037.3	1041.6	1041.6	1054.5	1071.6	1088.8	1101.6	1088.8	1075.9	1041.6	973.0
65°	741.5	737.2	741.5	754.4	767.3	784.4	793.0	788.7	775.8	750.1	698.7
67.5°	497.2	492.9	510.0	514.3	522.9	540.1	535.8	540.1	535.8	514.3	471.5
70°	325.8	317.2	325.8	321.5	334.4	338.7	347.2	351.5	347.2	334.4	321.5
72.5°	201.5	197.2	201.5	205.8	210.1	214.3	222.9	222.9	218.6	210.1	192.9
75°	128.6	115.7	120.0	111.5	120.0	120.0	128.6	132.9	128.6	128.6	120.0
77.5°	77.2	77.2	77.2	77.2	77.2	77.2	77.2	81.5	85.7	77.2	72.9
80°	38.6	38.6	42.9	42.9	42.9	47.2	42.9	42.9	42.9	47.2	34.3
82.5°	30.0	25.7	25.7	25.7	30.0	25.7	25.7	25.7	25.7	25.7	25.7
85°	12.9	17.1	12.9	8.6	12.9	12.9	17.1	12.9	12.9	12.9	17.1
87.5°	4.3	4.3	0.0	0.0	0.0	4.3	0.0	4.3	4.3	8.6	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°	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6
2.5°	8097.1	8088.5	8088.5	8084.2	8092.8	8084.2	8088.5	8084.2	8084.2	8092.8	8084.2
5°	8127.1	8131.4	8122.8	8118.5	8131.4	8131.4	8131.4	8122.8	8122.8	8127.1	8122.8
7.5°	8170.0	8178.5	8182.8	8187.1	8195.7	8200.0	8200.0	8195.7	8191.4	8204.3	8187.1
10°	8217.1	8230.0	8255.7	8268.6	8290.0	8290.0	8298.6	8298.6	8290.0	8298.6	8294.3
12.5°	8200.0	8277.1	8320.0	8350.0	8380.0	8405.7	8414.3	8418.6	8414.3	8431.5	8414.3
15°	8230.0	8294.3	8362.9	8414.3	8470.0	8500.0	8508.6	8542.9	8551.5	8555.8	8530.1
17.5°	8182.8	8298.6	8371.4	8448.6	8530.1	8585.8	8637.1	8658.6	8662.9	8671.4	8637.1
20°	8075.6	8204.3	8315.7	8427.2	8521.5	8607.2	8650.0	8710.0	8692.9	8727.2	8680.0
22.5°	7929.9	8075.6	8217.1	8362.9	8461.5	8564.4	8654.3	8697.1	8718.6	8718.6	8667.1
25°	7698.5	7869.9	8024.2	8174.2	8324.3	8448.6	8551.5	8615.8	8628.7	8624.4	8564.4
27.5°	7338.4	7522.7	7702.8	7874.2	8058.5	8204.3	8324.3	8401.4	8422.9	8422.9	8358.6
30°	6841.1	7038.3	7214.1	7419.8	7608.5	7771.3	7938.5	8007.1	8045.6	8045.6	7972.8
32.5°	6249.6	6416.8	6579.7	6781.2	6986.9	7171.2	7329.8	7424.1	7471.3	7467.0	7402.7
35°	5606.7	5688.1	5812.5	5962.4	6146.7	6318.2	6472.5	6562.6	6644.0	6639.7	6579.7
37.5°	4963.7	4942.3	4955.2	5010.8	5126.5	5246.6	5366.6	5452.4	5520.9	5551.0	5538.1
40°	4333.6	4222.1	4114.9	4076.5	4085.0	4127.8	4192.1	4256.4	4333.6	4372.2	4389.3
42.5°	3767.8	3579.2	3390.5	3249.1	3167.7	3142.0	3172.0	3193.3	3240.5	3296.2	3352.0
45°	3313.4	3060.6	2811.9	2593.3	2456.1	2374.6	2357.5	2374.6	2400.4	2456.1	2529.0
47.5°	2940.5	2644.7	2366.1	2121.8	1920.3	1813.2	1783.2	1774.6	1800.3	1851.7	1950.3
50°	2610.4	2314.6	2006.1	1723.1	1513.1	1393.0	1350.3	1333.1	1363.1	1401.6	1491.6
52.5°	2250.4	1958.9	1641.7	1367.3	1148.8	1024.5	977.3	951.6	968.7	1020.2	1110.2
55°	1860.3	1590.2	1303.1	1020.2	810.1	694.4	638.6	621.5	638.6	694.4	784.4
57.5°	1470.2	1243.1	1003.0	737.2	548.6	433.0	377.2	360.1	407.3	428.7	522.9
60°	1148.8	964.5	758.7	540.1	377.2	287.2	231.5	218.6	240.1	278.6	355.8
62.5°	861.6	745.8	582.9	385.8	278.6	184.3	154.3	141.5	154.3	184.3	244.4
65°	625.8	535.8	407.3	282.9	188.6	137.2	102.9	94.3	107.2	128.6	180.1
67.5°	428.7	360.1	282.9	197.2	128.6	85.7	72.9	72.9	77.2	94.3	132.9
70°	278.6	235.8	180.1	128.6	85.7	64.3	55.7	47.2	55.7	68.6	90.0
72.5°	175.8	150.0	115.7	90.0	64.3	47.2	38.6	34.3	42.9	51.4	68.6
75°	107.2	81.5	60.0	47.2	34.3	34.3	34.3	17.1	21.4	34.3	42.9
77.5°	64.3	55.7	47.2	38.6	30.0	17.1	17.1	17.1	21.4	25.7	38.6
80°	34.3	30.0	21.4	21.4	17.1	12.9	17.1	12.9	8.6	21.4	25.7
82.5°	21.4	17.1	17.1	17.1	21.4	8.6	12.9	8.6	12.9	17.1	12.9
85°	12.9	12.9	12.9	8.6	21.4	8.6	8.6	4.3	4.3	8.6	8.6
87.5°	0.0	4.3	4.3	0.0	4.3	0.0	4.3	4.3	4.3	4.3	4.3
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°	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6	8075.6
2.5°	8088.5	8084.2	8088.5	8084.2	8084.2	8084.2	8088.5	8088.5	8084.2	8084.2	8092.8
5°	8122.8	8122.8	8122.8	8118.5	8114.2	8114.2	8122.8	8122.8	8109.9	8122.8	8122.8
7.5°	8195.7	8182.8	8195.7	8178.5	8170.0	8174.2	8178.5	8170.0	8161.4	8165.7	8165.7
10°	8290.0	8277.1	8277.1	8264.3	8251.4	8242.8	8234.3	8212.8	8191.4	8187.1	8170.0
12.5°	8401.4	8380.0	8367.2	8341.4	8320.0	8290.0	8264.3	8230.0	8187.1	8157.1	8127.1
15°	8512.9	8478.6	8448.6	8405.7	8358.6	8307.1	8251.4	8195.7	8127.1	8067.1	8015.6
17.5°	8602.9	8555.8	8500.0	8431.5	8362.9	8285.7	8204.3	8122.8	8024.2	7947.0	7887.0
20°	8632.9	8564.4	8491.5	8401.4	8311.4	8204.3	8101.4	7994.2	7882.7	7801.3	7732.7
22.5°	8594.4	8512.9	8422.9	8328.6	8208.5	8092.8	7972.8	7848.4	7749.8	7638.5	7574.2
25°	8487.2	8388.6	8290.0	8178.5	8062.8	7934.2	7805.6	7677.1	7557.0	7497.0	7415.6
27.5°	8268.6	8161.4	8054.2	7938.5	7805.6	7677.1	7544.2	7419.8	7317.0	7235.5	7188.4
30°	7882.7	7758.4	7634.2	7509.9	7394.1	7261.2	7136.9	7034.0	6931.1	6866.8	6819.7
32.5°	7291.2	7179.8	7055.5	6935.4	6828.3	6716.9	6614.0	6524.0	6451.1	6408.2	6373.9
35°	6494.0	6382.5	6288.2	6202.5	6112.4	6065.3	6001.0	5949.5	5919.5	5902.5	5898.2
37.5°	5490.9	5426.6	5396.6	5379.5	5362.3	5349.5	5358.0	5379.5	5396.6	5426.6	5460.9
40°	4419.3	4475.0	4492.2	4552.2	4607.9	4680.8	4762.3	4856.6	4933.7	5032.2	5100.8
42.5°	3442.0	3544.9	3664.9	3793.5	3930.7	4063.6	4226.4	4376.4	4513.6	4637.9	4745.1
45°	2644.7	2803.3	2983.4	3167.7	3352.0	3544.9	3742.1	3926.4	4089.3	4222.1	4333.6
47.5°	2061.8	2237.6	2469.0	2696.2	2919.1	3146.3	3364.8	3557.7	3694.9	3823.5	3922.1
50°	1633.1	1834.6	2087.5	2348.9	2593.3	2833.3	3064.8	3244.8	3382.0	3484.9	3557.7
52.5°	1264.5	1504.5	1761.7	2036.1	2297.5	2559.0	2773.3	2940.5	3052.0	3142.0	3197.6
55°	943.0	1178.8	1453.1	1736.0	2001.8	2254.7	2456.1	2601.9	2700.5	2751.9	2781.9
57.5°	681.5	895.9	1170.2	1453.1	1693.1	1933.2	2096.1	2229.0	2284.6	2314.6	2327.5
60°	497.2	694.4	938.7	1183.1	1410.2	1603.1	1744.6	1834.6	1877.5	1894.6	1890.3
62.5°	364.4	535.8	745.8	951.6	1135.9	1294.5	1405.9	1465.9	1487.4	1495.9	1483.1
65°	278.6	411.5	591.5	750.1	891.6	1007.3	1088.8	1127.4	1140.2	1135.9	1127.4
67.5°	205.8	308.7	441.6	561.5	664.4	754.4	797.3	831.6	840.1	827.3	814.4
70°	145.8	227.2	321.5	403.0	480.0	531.5	578.6	582.9	582.9	578.6	570.1
72.5°	102.9	158.6	218.6	274.4	321.5	360.1	377.2	390.1	385.8	381.5	373.0
75°	68.6	98.6	158.6	171.5	214.3	227.2	244.4	244.4	248.6	235.8	235.8
77.5°	42.9	68.6	94.3	111.5	128.6	145.8	154.3	154.3	158.6	154.3	154.3
80°	25.7	42.9	51.4	77.2	77.2	90.0	94.3	98.6	90.0	102.9	90.0
82.5°	17.1	25.7	38.6	38.6	47.2	55.7	55.7	60.0	60.0	55.7	55.7
85°	12.9	17.1	21.4	25.7	25.7	30.0	25.7	25.7	30.0	34.3	30.0
87.5°	4.3	8.6	4.3	8.6	8.6	17.1	12.9	12.9	12.9	17.1	17.1
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: P248440

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8075.6	8075.6	8075.6	8075.6
2.5°	8084.2	8088.5	8084.2	8084.2
5°	8122.8	8118.5	8122.8	8114.2
7.5°	8152.8	8152.8	8148.5	8148.5
10°	8152.8	8135.7	8135.7	8135.7
12.5°	8088.5	8067.1	8054.2	8045.6
15°	7977.0	7938.5	7921.3	7917.0
17.5°	7831.3	7797.0	7775.6	7762.7
20°	7664.2	7629.9	7604.2	7608.5
22.5°	7518.4	7479.9	7462.7	7454.1
25°	7372.7	7325.5	7312.7	7304.1
27.5°	7136.9	7111.2	7098.3	7085.5
30°	6776.9	6764.0	6742.6	6772.6
32.5°	6361.1	6339.6	6322.5	6335.4
35°	5902.5	5889.6	5902.5	5893.9
37.5°	5482.4	5495.2	5512.4	5520.9
40°	5152.3	5199.4	5216.6	5225.1
42.5°	4822.3	4878.0	4912.3	4933.7
45°	4415.0	4470.7	4509.3	4535.1
47.5°	3995.0	4042.2	4080.7	4076.5
50°	3613.5	3639.2	3656.3	3673.5
52.5°	3227.6	3227.6	3231.9	3231.9
55°	2790.5	2781.9	2777.6	2781.9
57.5°	2310.3	2301.8	2297.5	2284.6
60°	1873.2	1847.5	1830.3	1830.3
62.5°	1465.9	1435.9	1423.1	1418.8
65°	1101.6	1097.3	1071.6	1067.3
67.5°	797.3	780.1	763.0	767.3
70°	561.5	535.8	535.8	527.2
72.5°	364.4	351.5	347.2	347.2
75°	227.2	227.2	218.6	235.8
77.5°	150.0	150.0	145.8	150.0
80°	90.0	90.0	90.0	85.7
82.5°	55.7	60.0	55.7	55.7
85°	30.0	34.3	25.7	38.6
87.5°	17.1	21.4	17.1	21.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)