

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: P248458

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248458
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 EC8B150835 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16594.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

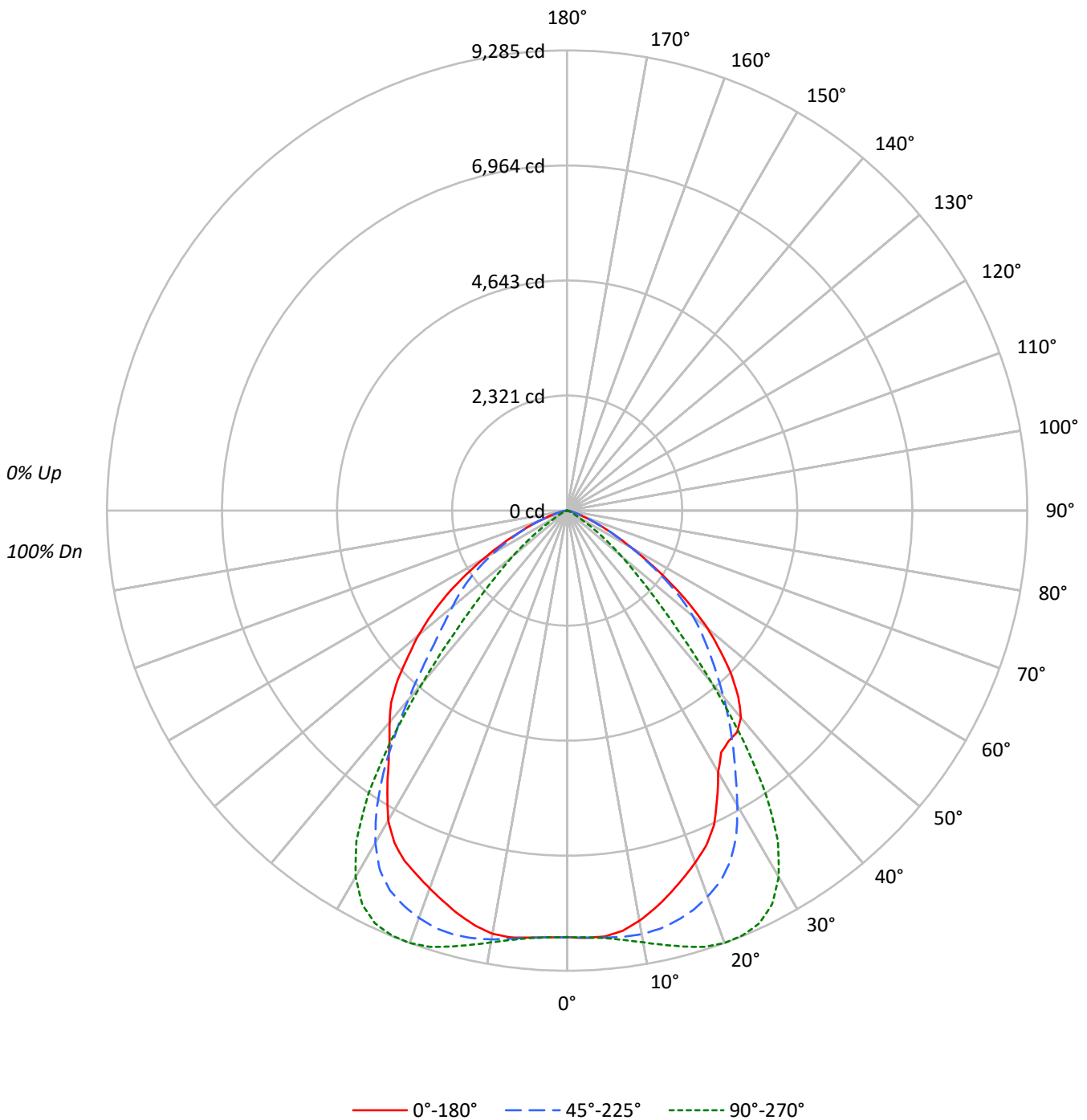
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	265451	265451	265451
5°	267032	268022	267738
10°	263109	276989	271550
15°	255415	290717	269417
20°	248005	304680	266145
25°	238482	312484	264912
30°	217034	303918	257059
35°	213800	263340	236507
40°	219613	182640	224206
45°	204444	110388	210820
50°	177331	68169	187852
55°	136086	35617	159424
60°	92712	14370	120323
65°	57671	7333	83012
70°	31312	4535	50670
75°	16334	2168	29940
80°	7299	2433	16213
85°	4847	1628	14541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.9	5.0
10°-20°	2452.4	14.8
20°-30°	3741.4	22.5
30°-40°	3904.2	23.5
40°-50°	2932.6	17.7
50°-60°	1804.3	10.9
60°-70°	734.3	4.4
70°-80°	173.0	1.0
80°-90°	23.8	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°	7021.7	42.3
0°-40°	10925.9	65.8
0°-60°	15662.9	94.4
0°-90°	16594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16594.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8608	8608	8608	8608	8608	
5°	8627	8650	8659	8650	8650	816
15°	8001	8563	9106	8855	8439	2254
25°	7009	7795	9184	8458	7786	3187
35°	5680	5840	6996	6466	6283	3586
45°	4688	4058	2531	3779	4834	3577
55°	2531	2403	662	2403	2965	2275
65°	790	800	100	1074	1138	824
75°	137	137	18	242	251	165
85°	14	14	5	32	41	19
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°	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4
2.5°	8631.3	8617.5	8631.3	8631.3	8635.9	8626.7	8631.3	8635.9	8626.7	8626.7	8626.7
5°	8626.7	8617.5	8626.7	8622.1	8631.3	8631.3	8640.5	8640.5	8649.5	8649.5	8663.3
7.5°	8553.6	8535.4	8553.6	8567.3	8576.4	8594.7	8617.5	8635.9	8654.1	8672.4	8695.3
10°	8402.8	8402.8	8416.5	8443.9	8471.3	8503.3	8544.4	8590.2	8635.9	8676.9	8718.1
12.5°	8215.5	8201.8	8229.2	8265.7	8306.9	8357.2	8421.1	8489.6	8562.8	8644.9	8709.0
15°	8000.7	7987.0	8019.0	8055.5	8105.8	8178.9	8256.7	8348.0	8453.1	8562.8	8667.9
17.5°	7781.4	7776.8	7808.8	7859.1	7900.2	7977.8	8078.4	8188.0	8306.9	8453.1	8590.2
20°	7557.6	7553.0	7584.9	7626.1	7680.9	7754.0	7854.5	7982.4	8124.1	8288.6	8448.5
22.5°	7324.5	7329.0	7356.4	7402.2	7447.9	7525.5	7630.6	7758.6	7913.9	8092.1	8270.3
25°	7009.2	6986.4	7022.9	7068.6	7146.2	7210.2	7310.8	7447.9	7607.8	7795.1	8005.3
27.5°	6552.2	6547.7	6579.7	6620.8	6689.3	6767.0	6876.7	7018.3	7187.4	7393.0	7598.6
30°	6095.3	6104.5	6118.2	6159.4	6205.0	6282.7	6392.4	6511.2	6671.1	6867.5	7086.9
32.5°	5784.6	5784.6	5802.9	5830.3	5862.3	5903.5	5981.2	6067.9	6191.3	6328.4	6488.3
35°	5679.5	5661.3	5679.5	5684.1	5688.7	5697.9	5711.5	5739.0	5780.0	5839.5	5898.9
37.5°	5633.9	5620.2	5620.2	5601.9	5579.0	5551.6	5515.1	5473.9	5428.3	5368.8	5323.2
40°	5455.7	5446.5	5437.4	5419.1	5368.8	5314.0	5254.6	5158.6	5053.5	4907.3	4761.2
42.5°	5113.0	5103.8	5099.3	5062.7	5017.0	4953.0	4884.5	4784.0	4651.5	4464.1	4253.9
45°	4688.1	4669.7	4656.1	4624.1	4592.0	4537.2	4473.3	4381.8	4249.4	4057.5	3806.2
47.5°	4194.6	4185.4	4180.8	4167.2	4135.2	4103.1	4062.1	3989.0	3870.1	3687.3	3426.9
50°	3696.5	3678.3	3687.3	3682.9	3669.1	3646.3	3618.8	3568.6	3477.1	3312.7	3075.1
52.5°	3125.3	3125.3	3120.8	3134.5	3139.1	3134.5	3139.1	3084.3	3006.6	2883.1	2682.1
55°	2531.3	2531.3	2545.1	2563.4	2581.6	2586.2	2581.6	2558.8	2503.9	2403.4	2225.2
57.5°	1973.9	1964.8	1992.2	2019.6	2037.9	2056.1	2042.4	2024.2	1992.2	1909.9	1772.8
60°	1503.3	1503.3	1521.5	1539.8	1558.1	1576.4	1571.8	1567.2	1539.8	1485.0	1375.4
62.5°	1105.7	1110.3	1110.3	1124.1	1142.3	1160.6	1174.3	1160.6	1146.9	1110.3	1037.2
65°	790.4	785.9	790.4	804.2	817.9	836.2	845.3	840.7	827.0	799.6	744.8
67.5°	530.0	525.5	543.7	548.3	557.4	575.8	571.2	575.8	571.2	548.3	502.7
70°	347.3	338.1	347.3	342.7	356.4	361.0	370.1	374.6	370.1	356.4	342.7
72.5°	214.8	210.2	214.8	219.4	223.9	228.4	237.6	237.6	233.0	223.9	205.6
75°	137.1	123.3	127.9	118.8	127.9	127.9	137.1	141.7	137.1	137.1	127.9
77.5°	82.3	82.3	82.3	82.3	82.3	82.3	82.3	86.9	91.3	82.3	77.7
80°	41.1	41.1	45.7	45.7	45.7	50.3	45.7	45.7	45.7	50.3	36.6
82.5°	32.0	27.4	27.4	27.4	32.0	27.4	27.4	27.4	27.4	27.4	27.4
85°	13.7	18.2	13.7	9.2	13.7	13.7	18.2	13.7	13.7	13.7	18.2
87.5°	4.6	4.6	0.0	0.0	0.0	4.6	0.0	4.6	4.6	9.2	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°	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4
2.5°	8631.3	8622.1	8622.1	8617.5	8626.7	8617.5	8622.1	8617.5	8617.5	8626.7	8617.5
5°	8663.3	8667.9	8658.7	8654.1	8667.9	8667.9	8667.9	8658.7	8658.7	8663.3	8658.7
7.5°	8709.0	8718.1	8722.6	8727.2	8736.4	8741.0	8741.0	8736.4	8731.8	8745.6	8727.2
10°	8759.2	8773.0	8800.3	8814.1	8836.9	8836.9	8846.1	8846.1	8836.9	8846.1	8841.5
12.5°	8741.0	8823.2	8868.9	8900.9	8932.8	8960.2	8969.4	8974.0	8969.4	8987.7	8969.4
15°	8773.0	8841.5	8914.6	8969.4	9028.8	9060.7	9069.9	9106.5	9115.6	9120.2	9092.8
17.5°	8722.6	8846.1	8923.7	9005.9	9092.8	9152.2	9207.0	9229.9	9234.5	9243.5	9207.0
20°	8608.4	8745.6	8864.3	8983.1	9083.6	9175.0	9220.7	9284.7	9266.4	9303.0	9252.7
22.5°	8453.1	8608.4	8759.2	8914.6	9019.7	9129.4	9225.3	9270.9	9293.8	9293.8	9238.9
25°	8206.3	8389.1	8553.6	8713.5	8873.5	9005.9	9115.6	9184.2	9197.9	9193.3	9129.4
27.5°	7822.5	8019.0	8210.9	8393.7	8590.2	8745.6	8873.5	8955.6	8978.6	8978.6	8910.0
30°	7292.5	7502.7	7690.0	7909.3	8110.4	8284.0	8462.3	8535.4	8576.4	8576.4	8498.8
32.5°	6661.9	6840.1	7013.8	7228.5	7447.9	7644.3	7813.4	7913.9	7964.2	7959.6	7891.1
35°	5976.6	6063.3	6195.9	6355.8	6552.2	6735.0	6899.5	6995.5	7082.3	7077.7	7013.8
37.5°	5291.1	5268.3	5282.1	5341.4	5464.7	5592.8	5720.7	5812.1	5885.1	5917.2	5903.5
40°	4619.5	4500.7	4386.4	4345.4	4354.4	4400.2	4468.7	4537.2	4619.5	4660.7	4678.9
42.5°	4016.4	3815.3	3614.2	3463.5	3376.6	3349.2	3381.2	3404.0	3454.3	3513.7	3573.2
45°	3532.0	3262.5	2997.4	2764.4	2618.2	2531.3	2513.1	2531.3	2558.8	2618.2	2695.9
47.5°	3134.5	2819.2	2522.2	2261.7	2047.0	1932.8	1900.8	1891.7	1919.1	1973.9	2079.0
50°	2782.6	2467.3	2138.4	1836.8	1613.0	1485.0	1439.3	1421.0	1453.0	1494.1	1590.0
52.5°	2398.8	2088.1	1750.0	1457.6	1224.6	1092.1	1041.8	1014.4	1032.6	1087.5	1183.4
55°	1983.0	1695.1	1389.0	1087.5	863.6	740.2	680.8	662.5	680.8	740.2	836.2
57.5°	1567.2	1325.1	1069.2	785.9	584.8	461.5	402.0	383.8	434.1	456.9	557.4
60°	1224.6	1028.1	808.8	575.8	402.0	306.1	246.7	233.0	255.9	296.9	379.2
62.5°	918.4	795.0	621.4	411.2	296.9	196.4	164.5	150.8	164.5	196.4	260.5
65°	667.1	571.2	434.1	301.5	201.0	146.2	109.7	100.5	114.3	137.1	192.0
67.5°	456.9	383.8	301.5	210.2	137.1	91.3	77.7	77.7	82.3	100.5	141.7
70°	296.9	251.3	192.0	137.1	91.3	68.5	59.4	50.3	59.4	73.1	95.9
72.5°	187.4	159.9	123.3	95.9	68.5	50.3	41.1	36.6	45.7	54.8	73.1
75°	114.3	86.9	64.0	50.3	36.6	36.6	36.6	18.2	22.8	36.6	45.7
77.5°	68.5	59.4	50.3	41.1	32.0	18.2	18.2	18.2	22.8	27.4	41.1
80°	36.6	32.0	22.8	22.8	18.2	13.7	18.2	13.7	9.2	22.8	27.4
82.5°	22.8	18.2	18.2	18.2	22.8	9.2	13.7	9.2	13.7	18.2	13.7
85°	13.7	13.7	13.7	9.2	22.8	9.2	9.2	4.6	4.6	9.2	9.2
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°	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4	8608.4
2.5°	8622.1	8617.5	8622.1	8617.5	8617.5	8617.5	8622.1	8622.1	8617.5	8617.5	8626.7
5°	8658.7	8658.7	8658.7	8654.1	8649.5	8649.5	8658.7	8658.7	8644.9	8658.7	8658.7
7.5°	8736.4	8722.6	8736.4	8718.1	8709.0	8713.5	8718.1	8709.0	8699.8	8704.4	8704.4
10°	8836.9	8823.2	8823.2	8809.5	8795.8	8786.6	8777.5	8754.6	8731.8	8727.2	8709.0
12.5°	8955.6	8932.8	8919.2	8891.7	8868.9	8836.9	8809.5	8773.0	8727.2	8695.3	8663.3
15°	9074.5	9037.9	9005.9	8960.2	8910.0	8855.1	8795.8	8736.4	8663.3	8599.3	8544.4
17.5°	9170.4	9120.2	9060.7	8987.7	8914.6	8832.3	8745.6	8658.7	8553.6	8471.3	8407.4
20°	9202.4	9129.4	9051.7	8955.6	8859.7	8745.6	8635.9	8521.6	8402.8	8316.0	8242.9
22.5°	9161.3	9074.5	8978.6	8878.0	8750.0	8626.7	8498.8	8366.2	8261.1	8142.4	8073.9
25°	9047.1	8942.0	8836.9	8718.1	8594.7	8457.7	8320.6	8183.5	8055.5	7991.6	7904.8
27.5°	8814.1	8699.8	8585.6	8462.3	8320.6	8183.5	8041.9	7909.3	7799.7	7712.9	7662.6
30°	8402.8	8270.3	8137.8	8005.3	7881.9	7740.2	7607.8	7498.1	7388.4	7319.9	7269.7
32.5°	7772.2	7653.5	7521.0	7393.0	7278.8	7160.0	7050.3	6954.4	6876.7	6831.0	6794.4
35°	6922.4	6803.6	6703.1	6611.7	6515.7	6465.5	6396.9	6342.1	6310.1	6291.9	6287.3
37.5°	5853.1	5784.6	5752.6	5734.4	5716.1	5702.4	5711.5	5734.4	5752.6	5784.6	5821.2
40°	4710.9	4770.2	4788.6	4852.5	4911.9	4989.6	5076.5	5177.0	5259.1	5364.2	5437.4
42.5°	3669.1	3778.8	3906.7	4043.7	4190.0	4331.6	4505.3	4665.1	4811.4	4943.9	5058.1
45°	2819.2	2988.2	3180.2	3376.6	3573.2	3778.8	3989.0	4185.4	4359.0	4500.7	4619.5
47.5°	2197.8	2385.2	2631.9	2874.1	3111.7	3353.8	3586.8	3792.4	3938.7	4075.7	4180.8
50°	1740.9	1955.6	2225.2	2503.9	2764.4	3020.2	3267.0	3458.9	3605.2	3714.8	3792.4
52.5°	1347.9	1603.8	1877.9	2170.4	2449.1	2727.8	2956.3	3134.5	3253.3	3349.2	3408.6
55°	1005.2	1256.5	1549.0	1850.5	2133.8	2403.4	2618.2	2773.6	2878.7	2933.4	2965.4
57.5°	726.5	955.0	1247.4	1549.0	1804.8	2060.7	2234.4	2376.0	2435.4	2467.3	2481.1
60°	530.0	740.2	1000.6	1261.1	1503.3	1708.9	1859.7	1955.6	2001.4	2019.6	2015.0
62.5°	388.4	571.2	795.0	1014.4	1210.8	1379.9	1498.7	1562.7	1585.6	1594.6	1581.0
65°	296.9	438.6	630.6	799.6	950.4	1073.7	1160.6	1201.8	1215.4	1210.8	1201.8
67.5°	219.4	329.0	470.7	598.6	708.3	804.2	849.9	886.5	895.5	881.9	868.1
70°	155.4	242.2	342.7	429.5	511.7	566.6	616.8	621.4	621.4	616.8	607.8
72.5°	109.7	169.0	233.0	292.5	342.7	383.8	402.0	415.8	411.2	406.6	397.6
75°	73.1	105.1	169.0	182.8	228.4	242.2	260.5	260.5	265.0	251.3	251.3
77.5°	45.7	73.1	100.5	118.8	137.1	155.4	164.5	164.5	169.0	164.5	164.5
80°	27.4	45.7	54.8	82.3	82.3	95.9	100.5	105.1	95.9	109.7	95.9
82.5°	18.2	27.4	41.1	41.1	50.3	59.4	59.4	64.0	64.0	59.4	59.4
85°	13.7	18.2	22.8	27.4	27.4	32.0	27.4	27.4	32.0	36.6	32.0
87.5°	4.6	9.2	4.6	9.2	9.2	18.2	13.7	13.7	13.7	18.2	18.2
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: P248458

CATALOG NUMBER: LSR8B150D010 EC8B150835 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8608.4	8608.4	8608.4	8608.4
2.5°	8617.5	8622.1	8617.5	8617.5
5°	8658.7	8654.1	8658.7	8649.5
7.5°	8690.7	8690.7	8686.1	8686.1
10°	8690.7	8672.4	8672.4	8672.4
12.5°	8622.1	8599.3	8585.6	8576.4
15°	8503.3	8462.3	8443.9	8439.3
17.5°	8348.0	8311.4	8288.6	8274.9
20°	8169.8	8133.2	8105.8	8110.4
22.5°	8014.4	7973.3	7955.0	7945.8
25°	7859.1	7808.8	7795.1	7786.0
27.5°	7607.8	7580.4	7566.6	7553.0
30°	7223.9	7210.2	7187.4	7219.4
32.5°	6780.8	6757.8	6739.6	6753.4
35°	6291.9	6278.1	6291.9	6282.7
37.5°	5844.1	5857.7	5876.1	5885.1
40°	5492.2	5542.4	5560.8	5569.8
42.5°	5140.4	5199.8	5236.3	5259.1
45°	4706.3	4765.7	4806.8	4834.3
47.5°	4258.5	4308.8	4349.9	4345.4
50°	3851.9	3879.3	3897.5	3915.8
52.5°	3440.6	3440.6	3445.2	3445.2
55°	2974.6	2965.4	2960.8	2965.4
57.5°	2462.8	2453.7	2449.1	2435.4
60°	1996.8	1969.4	1951.0	1951.0
62.5°	1562.7	1530.7	1517.0	1512.4
65°	1174.3	1169.7	1142.3	1137.7
67.5°	849.9	831.6	813.4	817.9
70°	598.6	571.2	571.2	562.0
72.5°	388.4	374.6	370.1	370.1
75°	242.2	242.2	233.0	251.3
77.5°	159.9	159.9	155.4	159.9
80°	95.9	95.9	95.9	91.3
82.5°	59.4	64.0	59.4	59.4
85°	32.0	36.6	27.4	41.1
87.5°	18.2	22.8	18.2	22.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)