

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: P248466

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248466
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 EC8B120840 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12518.0 lumens
Efficiency: N/A
Efficacy: 105.8 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

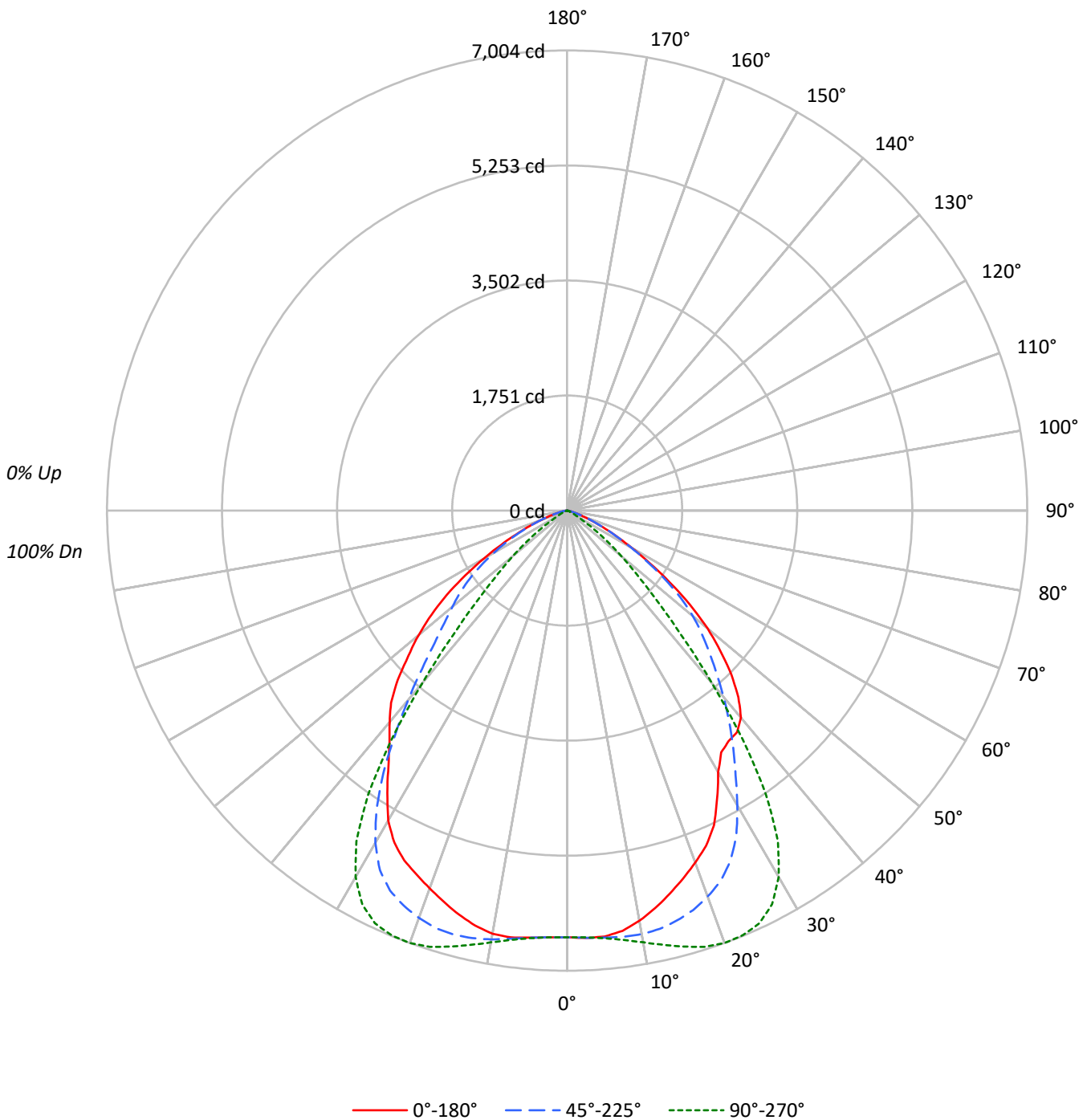
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	200248	200248	200248
5°	201440	202186	201972
10°	198481	208951	204849
15°	192678	219306	203242
20°	187087	229842	200771
25°	179902	235726	199841
30°	163723	229264	193918
35°	161287	198656	178415
40°	165669	137781	169135
45°	154224	83272	159034
50°	133772	51427	141712
55°	102658	26870	120264
60°	69937	10842	90770
65°	43509	5531	62619
70°	23622	3426	38228
75°	12319	1632	22589
80°	5505	1847	12235
85°	3680	1238	10968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.5	5.0
10°-20°	1850.0	14.8
20°-30°	2822.4	22.5
30°-40°	2945.2	23.5
40°-50°	2212.3	17.7
50°-60°	1361.1	10.9
60°-70°	553.9	4.4
70°-80°	130.5	1.0
80°-90°	18.0	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°	5296.9	42.3
0°-40°	8242.2	65.8
0°-60°	11815.6	94.4
0°-90°	12518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12518.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6494	6494	6494	6494	6494	
5°	6508	6525	6532	6525	6525	616
15°	6036	6460	6870	6680	6366	1700
25°	5288	5880	6928	6380	5874	2404
35°	4284	4405	5277	4877	4740	2705
45°	3536	3061	1910	2851	3647	2698
55°	1910	1813	500	1813	2237	1716
65°	596	603	76	810	858	622
75°	103	103	14	183	190	125
85°	10	10	4	24	31	15
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°	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9
2.5°	6511.2	6500.8	6511.2	6511.2	6514.6	6507.7	6511.2	6514.6	6507.7	6507.7	6507.7
5°	6507.7	6500.8	6507.7	6504.3	6511.2	6511.2	6518.1	6518.1	6524.9	6524.9	6535.3
7.5°	6452.6	6438.8	6452.6	6462.9	6469.8	6483.6	6500.8	6514.6	6528.4	6542.2	6559.4
10°	6338.8	6338.8	6349.2	6369.8	6390.5	6414.6	6445.7	6480.1	6514.6	6545.6	6576.6
12.5°	6197.5	6187.2	6207.8	6235.4	6266.4	6304.4	6352.6	6404.3	6459.5	6521.5	6569.8
15°	6035.5	6025.1	6049.3	6076.8	6114.8	6169.9	6228.6	6297.5	6376.7	6459.5	6538.8
17.5°	5870.0	5866.6	5890.7	5928.7	5959.7	6018.2	6094.1	6176.8	6266.4	6376.7	6480.1
20°	5701.2	5697.7	5721.9	5752.9	5794.2	5849.4	5925.2	6021.7	6128.5	6252.7	6373.3
22.5°	5525.3	5528.8	5549.5	5584.0	5618.4	5677.0	5756.3	5852.8	5970.0	6104.4	6238.9
25°	5287.5	5270.3	5297.9	5332.4	5390.9	5439.1	5515.0	5618.4	5739.1	5880.4	6039.0
27.5°	4942.8	4939.4	4963.6	4994.5	5046.2	5104.8	5187.6	5294.4	5421.9	5577.0	5732.1
30°	4598.1	4605.0	4615.4	4646.4	4680.8	4739.5	4822.2	4911.9	5032.5	5180.6	5346.1
32.5°	4363.7	4363.7	4377.6	4398.2	4422.3	4453.4	4512.0	4577.4	4670.6	4774.0	4894.6
35°	4284.5	4270.7	4284.5	4287.9	4291.4	4298.3	4308.6	4329.3	4360.3	4405.1	4449.9
37.5°	4250.0	4239.7	4239.7	4225.9	4208.6	4188.0	4160.4	4129.4	4094.9	4050.1	4015.7
40°	4115.6	4108.7	4101.8	4088.0	4050.1	4008.7	3963.9	3891.5	3812.2	3701.9	3591.7
42.5°	3857.1	3850.2	3846.7	3819.1	3784.7	3736.4	3684.7	3608.9	3508.9	3367.6	3209.0
45°	3536.5	3522.7	3512.4	3488.3	3464.1	3422.8	3374.5	3305.5	3205.6	3060.9	2871.3
47.5°	3164.3	3157.3	3153.9	3143.6	3119.5	3095.3	3064.3	3009.2	2919.5	2781.6	2585.2
50°	2788.5	2774.8	2781.6	2778.2	2767.9	2750.6	2729.9	2692.0	2623.0	2499.0	2319.8
52.5°	2357.6	2357.6	2354.3	2364.5	2368.0	2364.5	2368.0	2326.7	2268.1	2175.0	2023.3
55°	1909.5	1909.5	1919.9	1933.7	1947.5	1950.9	1947.5	1930.3	1888.9	1813.0	1678.6
57.5°	1489.0	1482.2	1502.8	1523.5	1537.3	1551.1	1540.7	1527.0	1502.8	1440.8	1337.4
60°	1134.0	1134.0	1147.8	1161.6	1175.4	1189.2	1185.7	1182.3	1161.6	1120.2	1037.5
62.5°	834.1	837.6	837.6	847.9	861.7	875.5	885.8	875.5	865.2	837.6	782.4
65°	596.3	592.8	596.3	606.7	617.0	630.8	637.7	634.2	623.9	603.2	561.9
67.5°	399.9	396.4	410.1	413.6	420.5	434.3	430.9	434.3	430.9	413.6	379.2
70°	262.0	255.0	262.0	258.5	268.9	272.3	279.2	282.6	279.2	268.9	258.5
72.5°	162.0	158.6	162.0	165.5	168.9	172.3	179.2	179.2	175.8	168.9	155.1
75°	103.4	93.0	96.5	89.7	96.5	96.5	103.4	106.9	103.4	103.4	96.5
77.5°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	65.5	68.9	62.1	58.6
80°	31.0	31.0	34.5	34.5	34.5	38.0	34.5	34.5	34.5	38.0	27.6
82.5°	24.1	20.7	20.7	20.7	24.1	20.7	20.7	20.7	20.7	20.7	20.7
85°	10.4	13.7	10.4	6.9	10.4	10.4	13.7	10.4	10.4	10.4	13.7
87.5°	3.5	3.5	0.0	0.0	0.0	3.5	0.0	3.5	3.5	6.9	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°	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9
2.5°	6511.2	6504.3	6504.3	6500.8	6507.7	6500.8	6504.3	6500.8	6500.8	6507.7	6500.8
5°	6535.3	6538.8	6531.8	6528.4	6538.8	6538.8	6538.8	6531.8	6531.8	6535.3	6531.8
7.5°	6569.8	6576.6	6580.1	6583.5	6590.5	6593.9	6593.9	6590.5	6587.0	6597.4	6583.5
10°	6607.7	6618.0	6638.7	6649.1	6666.3	6666.3	6673.2	6673.2	6666.3	6673.2	6669.7
12.5°	6593.9	6655.9	6690.4	6714.5	6738.6	6759.3	6766.2	6769.7	6766.2	6780.1	6766.2
15°	6618.0	6669.7	6724.9	6766.2	6811.0	6835.1	6842.1	6869.6	6876.5	6880.0	6859.3
17.5°	6580.1	6673.2	6731.7	6793.8	6859.3	6904.1	6945.5	6962.7	6966.2	6973.0	6945.5
20°	6493.9	6597.4	6686.9	6776.6	6852.4	6921.3	6955.8	7004.1	6990.3	7017.9	6979.9
22.5°	6376.7	6493.9	6607.7	6724.9	6804.2	6886.9	6959.3	6993.7	7011.0	7011.0	6969.6
25°	6190.6	6328.5	6452.6	6573.2	6693.9	6793.8	6876.5	6928.2	6938.6	6935.2	6886.9
27.5°	5901.1	6049.3	6194.1	6332.0	6480.1	6597.4	6693.9	6755.9	6773.1	6773.1	6721.4
30°	5501.2	5659.8	5801.1	5966.5	6118.2	6249.2	6383.7	6438.8	6469.8	6469.8	6411.2
32.5°	5025.5	5160.0	5291.0	5453.0	5618.4	5766.6	5894.2	5970.0	6007.9	6004.5	5952.8
35°	4508.5	4574.0	4674.0	4794.6	4942.8	5080.7	5204.8	5277.2	5342.7	5339.2	5291.0
37.5°	3991.5	3974.3	3984.6	4029.4	4122.4	4219.0	4315.5	4384.5	4439.6	4463.8	4453.4
40°	3484.8	3395.2	3309.0	3278.0	3284.9	3319.4	3371.1	3422.8	3484.8	3515.9	3529.6
42.5°	3029.8	2878.2	2726.4	2612.8	2547.2	2526.6	2550.7	2567.9	2605.8	2650.6	2695.5
45°	2664.5	2461.1	2261.1	2085.4	1975.1	1909.5	1895.8	1909.5	1930.3	1975.1	2033.7
47.5°	2364.5	2126.7	1902.7	1706.2	1544.2	1458.1	1433.9	1427.0	1447.7	1489.0	1568.3
50°	2099.1	1861.3	1613.2	1385.6	1216.8	1120.2	1085.8	1072.0	1096.1	1127.1	1199.5
52.5°	1809.6	1575.2	1320.2	1099.5	923.8	823.8	785.9	765.2	779.0	820.4	892.7
55°	1495.9	1278.8	1047.8	820.4	651.4	558.4	513.5	499.8	513.5	558.4	630.8
57.5°	1182.3	999.6	806.5	592.8	441.2	348.2	303.3	289.5	327.5	344.7	420.5
60°	923.8	775.6	610.1	434.3	303.3	230.9	186.1	175.8	193.1	224.0	286.1
62.5°	692.8	599.7	468.8	310.2	224.0	148.2	124.1	113.8	124.1	148.2	196.5
65°	503.3	430.9	327.5	227.5	151.6	110.3	82.7	75.8	86.2	103.4	144.8
67.5°	344.7	289.5	227.5	158.6	103.4	68.9	58.6	58.6	62.1	75.8	106.9
70°	224.0	189.6	144.8	103.4	68.9	51.7	44.8	38.0	44.8	55.2	72.4
72.5°	141.4	120.6	93.0	72.4	51.7	38.0	31.0	27.6	34.5	41.3	55.2
75°	86.2	65.5	48.2	38.0	27.6	27.6	27.6	13.7	17.2	27.6	34.5
77.5°	51.7	44.8	38.0	31.0	24.1	13.7	13.7	13.7	17.2	20.7	31.0
80°	27.6	24.1	17.2	17.2	13.7	10.4	13.7	10.4	6.9	17.2	20.7
82.5°	17.2	13.7	13.7	13.7	17.2	6.9	10.4	6.9	10.4	13.7	10.4
85°	10.4	10.4	10.4	6.9	17.2	6.9	6.9	3.5	3.5	6.9	6.9
87.5°	0.0	3.5	3.5	0.0	3.5	0.0	3.5	3.5	3.5	3.5	3.5
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°	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9	6493.9
2.5°	6504.3	6500.8	6504.3	6500.8	6500.8	6500.8	6504.3	6504.3	6500.8	6500.8	6507.7
5°	6531.8	6531.8	6531.8	6528.4	6524.9	6524.9	6531.8	6531.8	6521.5	6531.8	6531.8
7.5°	6590.5	6580.1	6590.5	6576.6	6569.8	6573.2	6576.6	6569.8	6562.9	6566.3	6566.3
10°	6666.3	6655.9	6655.9	6645.6	6635.2	6628.3	6621.5	6604.2	6587.0	6583.5	6569.8
12.5°	6755.9	6738.6	6728.4	6707.6	6690.4	6666.3	6645.6	6618.0	6583.5	6559.4	6535.3
15°	6845.5	6817.9	6793.8	6759.3	6721.4	6680.0	6635.2	6590.5	6535.3	6487.1	6445.7
17.5°	6917.9	6880.0	6835.1	6780.1	6724.9	6662.8	6597.4	6531.8	6452.6	6390.5	6342.3
20°	6942.0	6886.9	6828.3	6755.9	6683.5	6597.4	6514.6	6428.4	6338.8	6273.3	6218.2
22.5°	6911.0	6845.5	6773.1	6697.3	6600.8	6507.7	6411.2	6311.2	6231.9	6142.4	6090.7
25°	6824.8	6745.6	6666.3	6576.6	6483.6	6380.2	6276.8	6173.4	6076.8	6028.6	5963.1
27.5°	6649.1	6562.9	6476.7	6383.7	6276.8	6173.4	6066.5	5966.5	5883.9	5818.3	5780.5
30°	6338.8	6238.9	6138.9	6039.0	5945.9	5839.0	5739.1	5656.3	5573.6	5521.9	5484.0
32.5°	5863.1	5773.6	5673.6	5577.0	5490.9	5401.3	5318.5	5246.2	5187.6	5153.1	5125.5
35°	5222.1	5132.4	5056.6	4987.7	4915.2	4877.4	4825.7	4784.2	4760.1	4746.4	4742.9
37.5°	4415.4	4363.7	4339.6	4325.9	4312.0	4301.7	4308.6	4325.9	4339.6	4363.7	4391.3
40°	3553.7	3598.5	3612.3	3660.6	3705.4	3764.0	3829.5	3905.3	3967.3	4046.6	4101.8
42.5°	2767.9	2850.6	2947.1	3050.5	3160.8	3267.7	3398.6	3519.2	3629.6	3729.5	3815.7
45°	2126.7	2254.2	2399.0	2547.2	2695.5	2850.6	3009.2	3157.3	3288.3	3395.2	3484.8
47.5°	1657.9	1799.3	1985.4	2168.1	2347.3	2530.0	2705.8	2860.9	2971.2	3074.6	3153.9
50°	1313.3	1475.3	1678.6	1888.9	2085.4	2278.4	2464.5	2609.3	2719.6	2802.4	2860.9
52.5°	1016.8	1209.9	1416.7	1637.3	1847.5	2057.8	2230.1	2364.5	2454.2	2526.6	2571.3
55°	758.3	947.9	1168.5	1396.0	1609.7	1813.0	1975.1	2092.3	2171.6	2212.9	2237.0
57.5°	548.0	720.4	941.0	1168.5	1361.5	1554.5	1685.5	1792.4	1837.2	1861.3	1871.7
60°	399.9	558.4	754.8	951.4	1134.0	1289.1	1402.9	1475.3	1509.8	1523.5	1520.1
62.5°	293.0	430.9	599.7	765.2	913.4	1040.9	1130.6	1178.8	1196.1	1202.9	1192.6
65°	224.0	330.9	475.7	603.2	717.0	810.0	875.5	906.6	916.9	913.4	906.6
67.5°	165.5	248.2	355.1	451.6	534.3	606.7	641.1	668.7	675.6	665.3	654.9
70°	117.2	182.7	258.5	324.0	386.0	427.4	465.3	468.8	468.8	465.3	458.5
72.5°	82.7	127.5	175.8	220.6	258.5	289.5	303.3	313.7	310.2	306.7	299.9
75°	55.2	79.3	127.5	137.9	172.3	182.7	196.5	196.5	199.9	189.6	189.6
77.5°	34.5	55.2	75.8	89.7	103.4	117.2	124.1	124.1	127.5	124.1	124.1
80°	20.7	34.5	41.3	62.1	62.1	72.4	75.8	79.3	72.4	82.7	72.4
82.5°	13.7	20.7	31.0	31.0	38.0	44.8	44.8	48.2	48.2	44.8	44.8
85°	10.4	13.7	17.2	20.7	20.7	24.1	20.7	20.7	24.1	27.6	24.1
87.5°	3.5	6.9	3.5	6.9	6.9	13.7	10.4	10.4	10.4	13.7	13.7
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: P248466

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBDWOWH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6493.9	6493.9	6493.9	6493.9
2.5°	6500.8	6504.3	6500.8	6500.8
5°	6531.8	6528.4	6531.8	6524.9
7.5°	6556.0	6556.0	6552.5	6552.5
10°	6556.0	6542.2	6542.2	6542.2
12.5°	6504.3	6487.1	6476.7	6469.8
15°	6414.6	6383.7	6369.8	6366.4
17.5°	6297.5	6269.9	6252.7	6242.3
20°	6163.0	6135.5	6114.8	6118.2
22.5°	6045.8	6014.8	6001.0	5994.1
25°	5928.7	5890.7	5880.4	5873.5
27.5°	5739.1	5718.4	5708.0	5697.7
30°	5449.5	5439.1	5421.9	5446.1
32.5°	5115.2	5097.9	5084.2	5094.5
35°	4746.4	4736.0	4746.4	4739.5
37.5°	4408.6	4418.9	4432.7	4439.6
40°	4143.2	4181.1	4194.9	4201.7
42.5°	3877.8	3922.6	3950.1	3967.3
45°	3550.3	3595.1	3626.1	3646.8
47.5°	3212.5	3250.4	3281.4	3278.0
50°	2905.8	2926.4	2940.2	2954.0
52.5°	2595.5	2595.5	2598.9	2598.9
55°	2243.9	2237.0	2233.6	2237.0
57.5°	1857.8	1851.0	1847.5	1837.2
60°	1506.3	1485.6	1471.8	1471.8
62.5°	1178.8	1154.7	1144.4	1140.9
65°	885.8	882.4	861.7	858.2
67.5°	641.1	627.3	613.6	617.0
70°	451.6	430.9	430.9	424.0
72.5°	293.0	282.6	279.2	279.2
75°	182.7	182.7	175.8	189.6
77.5°	120.6	120.6	117.2	120.6
80°	72.4	72.4	72.4	68.9
82.5°	44.8	48.2	44.8	44.8
85°	24.1	27.6	20.7	31.0
87.5°	13.7	17.2	13.7	17.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)