

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: P248456

Luminaire Tested: **LD8B100D010 ER8B100835 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248456
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: LD8B100D010 ER8B100835 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11116.0 lumens
Efficiency: N/A
Efficacy: 104.6 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

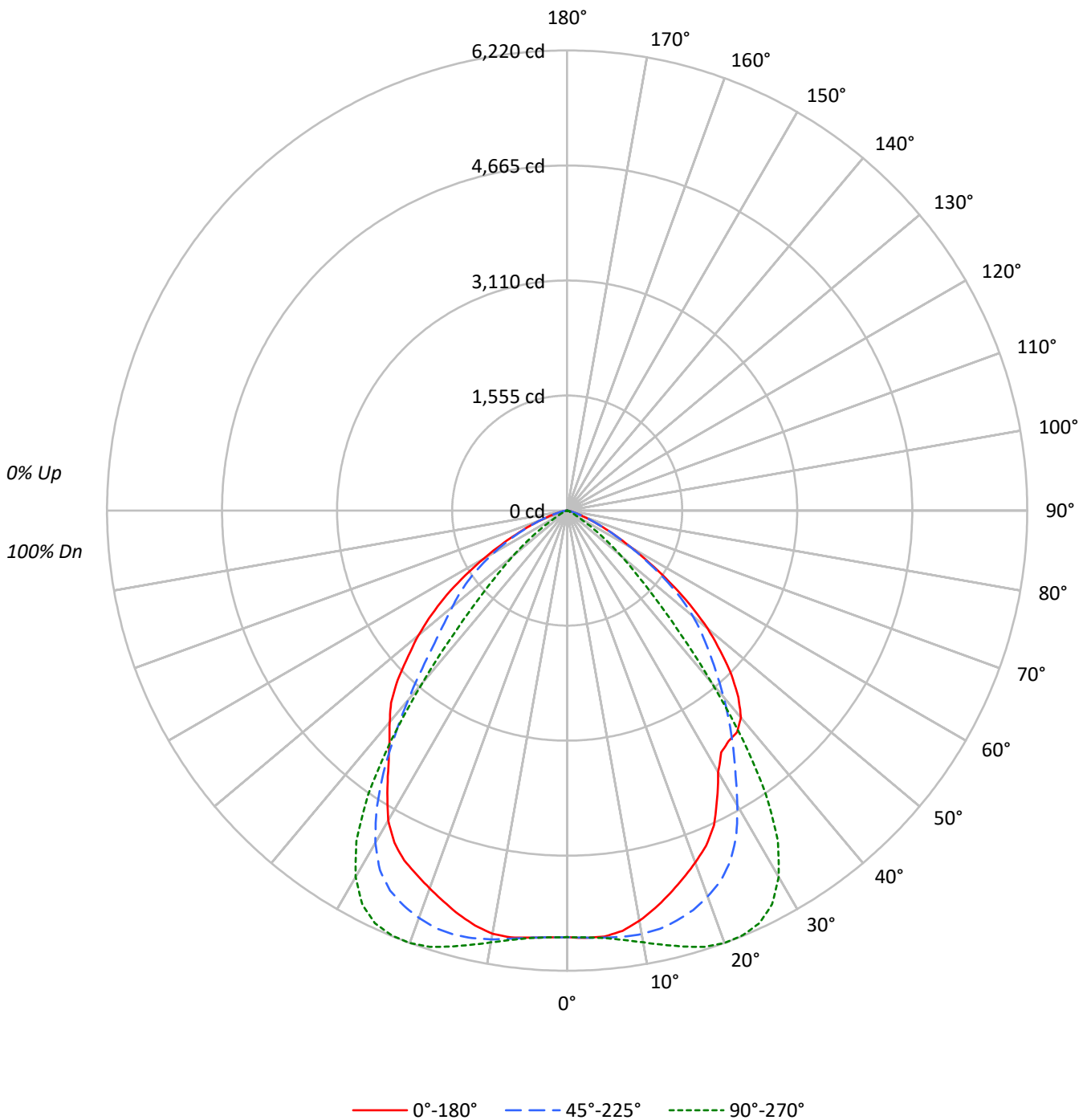
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	177821	177821	177821
5°	178881	179543	179351
10°	176252	185549	181907
15°	171097	194743	180477
20°	166134	204098	178286
25°	159753	209327	177460
30°	145386	203588	172198
35°	143221	176408	158429
40°	147116	122348	150192
45°	136950	73948	141224
50°	118790	45665	125842
55°	91163	23859	106797
60°	62104	9627	80606
65°	38635	4911	55607
70°	20971	3038	33945
75°	10937	1454	20064
80°	4901	1634	10868
85°	3255	1097	9765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.6	5.0
10°-20°	1642.8	14.8
20°-30°	2506.3	22.5
30°-40°	2615.4	23.5
40°-50°	1964.5	17.7
50°-60°	1208.7	10.9
60°-70°	491.9	4.4
70°-80°	115.9	1.0
80°-90°	16.0	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°	4703.7	42.3
0°-40°	7319.1	65.8
0°-60°	10492.2	94.4
0°-90°	11116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11116.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5767	5767	5767	5767	5767	
5°	5779	5794	5800	5794	5794	547
15°	5360	5736	6100	5932	5653	1510
25°	4695	5222	6152	5666	5216	2135
35°	3805	3912	4686	4331	4209	2402
45°	3140	2718	1696	2531	3238	2396
55°	1696	1610	444	1610	1986	1524
65°	530	536	67	719	762	552
75°	92	92	12	162	168	111
85°	9	9	3	21	28	13
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°	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6
2.5°	5781.9	5772.7	5781.9	5781.9	5785.0	5778.9	5781.9	5785.0	5778.9	5778.9	5778.9
5°	5778.9	5772.7	5778.9	5775.8	5781.9	5781.9	5788.1	5788.1	5794.1	5794.1	5803.4
7.5°	5729.9	5717.7	5729.9	5739.1	5745.2	5757.5	5772.7	5785.0	5797.2	5809.5	5824.8
10°	5628.9	5628.9	5638.1	5656.4	5674.8	5696.2	5723.7	5754.4	5785.0	5812.5	5840.1
12.5°	5503.4	5494.2	5512.5	5537.0	5564.6	5598.3	5641.1	5687.1	5736.0	5791.1	5834.0
15°	5359.5	5350.3	5371.7	5396.2	5429.9	5478.9	5531.0	5592.2	5662.6	5736.0	5806.4
17.5°	5212.6	5209.5	5230.9	5264.7	5292.2	5344.2	5411.6	5485.0	5564.6	5662.6	5754.4
20°	5062.7	5059.6	5081.0	5108.6	5145.3	5194.3	5261.6	5347.3	5442.1	5552.4	5659.5
22.5°	4906.5	4909.6	4927.9	4958.6	4989.2	5041.2	5111.6	5197.3	5301.3	5420.7	5540.1
25°	4695.3	4680.0	4704.5	4735.2	4787.1	4830.0	4897.4	4989.2	5096.3	5221.8	5362.6
27.5°	4389.2	4386.1	4407.6	4435.1	4481.0	4533.1	4606.6	4701.4	4814.7	4952.4	5090.1
30°	4083.1	4089.3	4098.5	4126.0	4156.6	4208.6	4282.1	4361.7	4468.8	4600.4	4747.4
32.5°	3875.0	3875.0	3887.3	3905.6	3927.0	3954.6	4006.7	4064.8	4147.5	4239.3	4346.4
35°	3804.6	3792.4	3804.6	3807.7	3810.7	3816.9	3826.0	3844.4	3871.9	3911.8	3951.5
37.5°	3774.0	3764.8	3764.8	3752.6	3737.3	3718.9	3694.4	3666.9	3636.3	3596.5	3565.9
40°	3654.7	3648.5	3642.4	3630.2	3596.5	3559.8	3519.9	3455.7	3385.3	3287.3	3189.4
42.5°	3425.1	3419.0	3415.9	3391.4	3360.8	3317.9	3272.0	3204.7	3116.0	2990.4	2849.6
45°	3140.4	3128.2	3119.0	3097.6	3076.1	3039.4	2996.6	2935.3	2846.6	2718.0	2549.7
47.5°	2809.9	2803.7	2800.6	2791.5	2770.1	2748.6	2721.1	2672.1	2592.5	2470.1	2295.6
50°	2476.2	2464.0	2470.1	2467.1	2457.9	2442.6	2424.2	2390.5	2329.3	2219.1	2060.0
52.5°	2093.6	2093.6	2090.6	2099.7	2102.8	2099.7	2102.8	2066.1	2014.0	1931.4	1796.7
55°	1695.7	1695.7	1704.9	1717.2	1729.4	1732.4	1729.4	1714.1	1677.3	1610.0	1490.6
57.5°	1322.2	1316.2	1334.5	1352.9	1365.2	1377.4	1368.2	1355.9	1334.5	1279.4	1187.6
60°	1007.0	1007.0	1019.2	1031.5	1043.7	1056.0	1052.9	1049.9	1031.5	994.7	921.3
62.5°	740.7	743.8	743.8	753.0	765.2	777.5	786.6	777.5	768.3	743.8	694.8
65°	529.5	526.4	529.5	538.7	547.9	560.1	566.3	563.2	554.0	535.6	498.9
67.5°	355.1	352.0	364.2	367.3	373.4	385.7	382.6	385.7	382.6	367.3	336.7
70°	232.6	226.5	232.6	229.5	238.8	241.8	247.9	251.0	247.9	238.8	229.5
72.5°	143.9	140.8	143.9	146.9	150.0	153.0	159.1	159.1	156.1	150.0	137.7
75°	91.8	82.6	85.7	79.6	85.7	85.7	91.8	94.9	91.8	91.8	85.7
77.5°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	58.2	61.2	55.1	52.1
80°	27.6	27.6	30.6	30.6	30.6	33.7	30.6	30.6	30.6	33.7	24.5
82.5°	21.4	18.3	18.3	18.3	21.4	18.3	18.3	18.3	18.3	18.3	18.3
85°	9.2	12.2	9.2	6.1	9.2	9.2	12.2	9.2	9.2	9.2	12.2
87.5°	3.1	3.1	0.0	0.0	0.0	3.1	0.0	3.1	3.1	6.1	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°	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6
2.5°	5781.9	5775.8	5775.8	5772.7	5778.9	5772.7	5775.8	5772.7	5772.7	5778.9	5772.7
5°	5803.4	5806.4	5800.3	5797.2	5806.4	5806.4	5806.4	5800.3	5800.3	5803.4	5800.3
7.5°	5834.0	5840.1	5843.1	5846.2	5852.3	5855.4	5855.4	5852.3	5849.3	5858.5	5846.2
10°	5867.6	5876.8	5895.2	5904.4	5919.7	5919.7	5925.8	5925.8	5919.7	5925.8	5922.7
12.5°	5855.4	5910.5	5941.1	5962.5	5983.9	6002.3	6008.4	6011.5	6008.4	6020.7	6008.4
15°	5876.8	5922.7	5971.7	6008.4	6048.2	6069.6	6075.7	6100.2	6106.4	6109.5	6091.1
17.5°	5843.1	5925.8	5977.8	6032.9	6091.1	6130.9	6167.6	6182.9	6186.0	6192.1	6167.6
20°	5766.6	5858.5	5938.0	6017.6	6085.0	6146.1	6176.8	6219.6	6207.4	6231.9	6198.2
22.5°	5662.6	5766.6	5867.6	5971.7	6042.1	6115.6	6179.9	6210.4	6225.8	6225.8	6189.0
25°	5497.3	5619.7	5729.9	5837.0	5944.2	6032.9	6106.4	6152.3	6161.5	6158.4	6115.6
27.5°	5240.2	5371.7	5500.3	5622.8	5754.4	5858.5	5944.2	5999.2	6014.6	6014.6	5968.7
30°	4885.1	5025.9	5151.4	5298.3	5433.0	5549.3	5668.7	5717.7	5745.2	5745.2	5693.2
32.5°	4462.7	4582.1	4698.4	4842.3	4989.2	5120.8	5234.0	5301.3	5335.1	5332.0	5286.1
35°	4003.6	4061.7	4150.5	4257.6	4389.2	4511.7	4621.8	4686.2	4744.3	4741.2	4698.4
37.5°	3544.4	3529.1	3538.4	3578.1	3660.7	3746.5	3832.2	3893.4	3942.3	3963.8	3954.6
40°	3094.5	3014.9	2938.4	2910.9	2917.0	2947.6	2993.5	3039.4	3094.5	3122.1	3134.3
42.5°	2690.5	2555.8	2421.1	2320.1	2261.9	2243.6	2265.0	2280.3	2314.0	2353.8	2393.6
45°	2366.0	2185.5	2007.9	1851.8	1753.9	1695.7	1683.5	1695.7	1714.1	1753.9	1805.9
47.5°	2099.7	1888.5	1689.6	1515.1	1371.2	1294.8	1273.3	1267.2	1285.5	1322.2	1392.6
50°	1864.0	1652.8	1432.5	1230.4	1080.5	994.7	964.2	951.9	973.3	1000.9	1065.1
52.5°	1606.9	1398.8	1172.3	976.4	820.3	731.6	697.9	679.5	691.7	728.5	792.7
55°	1328.4	1135.5	930.5	728.5	578.5	495.9	456.0	443.8	456.0	495.9	560.1
57.5°	1049.9	887.6	716.2	526.4	391.8	309.2	269.3	257.1	290.8	306.1	373.4
60°	820.3	688.7	541.8	385.7	269.3	205.1	165.3	156.1	171.4	198.9	254.0
62.5°	615.3	532.6	416.3	275.5	198.9	131.6	110.2	101.0	110.2	131.6	174.5
65°	446.9	382.6	290.8	202.0	134.7	98.0	73.5	67.3	76.5	91.8	128.6
67.5°	306.1	257.1	202.0	140.8	91.8	61.2	52.1	52.1	55.1	67.3	94.9
70°	198.9	168.4	128.6	91.8	61.2	45.9	39.8	33.7	39.8	49.0	64.3
72.5°	125.5	107.1	82.6	64.3	45.9	33.7	27.6	24.5	30.6	36.7	49.0
75°	76.5	58.2	42.8	33.7	24.5	24.5	24.5	12.2	15.3	24.5	30.6
77.5°	45.9	39.8	33.7	27.6	21.4	12.2	12.2	12.2	15.3	18.3	27.6
80°	24.5	21.4	15.3	15.3	12.2	9.2	12.2	9.2	6.1	15.3	18.3
82.5°	15.3	12.2	12.2	12.2	15.3	6.1	9.2	6.1	9.2	12.2	9.2
85°	9.2	9.2	9.2	6.1	15.3	6.1	6.1	3.1	3.1	6.1	6.1
87.5°	0.0	3.1	3.1	0.0	3.1	0.0	3.1	3.1	3.1	3.1	3.1
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°	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6	5766.6
2.5°	5775.8	5772.7	5775.8	5772.7	5772.7	5772.7	5775.8	5775.8	5772.7	5772.7	5778.9
5°	5800.3	5800.3	5800.3	5797.2	5794.1	5794.1	5800.3	5800.3	5791.1	5800.3	5800.3
7.5°	5852.3	5843.1	5852.3	5840.1	5834.0	5837.0	5840.1	5834.0	5827.9	5830.9	5830.9
10°	5919.7	5910.5	5910.5	5901.3	5892.1	5886.0	5879.9	5864.5	5849.3	5846.2	5834.0
12.5°	5999.2	5983.9	5974.8	5956.4	5941.1	5919.7	5901.3	5876.8	5846.2	5824.8	5803.4
15°	6078.8	6054.3	6032.9	6002.3	5968.7	5931.9	5892.1	5852.3	5803.4	5760.5	5723.7
17.5°	6143.1	6109.5	6069.6	6020.7	5971.7	5916.6	5858.5	5800.3	5729.9	5674.8	5631.9
20°	6164.5	6115.6	6063.5	5999.2	5934.9	5858.5	5785.0	5708.5	5628.9	5570.7	5521.8
22.5°	6137.0	6078.8	6014.6	5947.2	5861.5	5778.9	5693.2	5604.4	5534.0	5454.4	5408.5
25°	6060.5	5990.1	5919.7	5840.1	5757.5	5665.6	5573.8	5482.0	5396.2	5353.4	5295.3
27.5°	5904.4	5827.9	5751.3	5668.7	5573.8	5482.0	5387.1	5298.3	5224.9	5166.7	5133.1
30°	5628.9	5540.1	5451.4	5362.6	5279.9	5185.0	5096.3	5022.8	4949.3	4903.4	4869.8
32.5°	5206.5	5126.9	5038.2	4952.4	4876.0	4796.3	4722.9	4658.6	4606.6	4575.9	4551.4
35°	4637.2	4557.6	4490.2	4429.1	4364.7	4331.1	4285.2	4248.4	4227.0	4214.8	4211.7
37.5°	3920.9	3875.0	3853.6	3841.4	3829.1	3820.0	3826.0	3841.4	3853.6	3875.0	3899.5
40°	3155.7	3195.5	3207.8	3250.6	3290.4	3342.4	3400.6	3468.0	3523.0	3593.4	3642.4
42.5°	2457.9	2531.3	2617.0	2708.8	2806.8	2901.7	3018.0	3125.1	3223.0	3311.8	3388.3
45°	1888.5	2001.8	2130.4	2261.9	2393.6	2531.3	2672.1	2803.7	2920.0	3014.9	3094.5
47.5°	1472.3	1597.8	1763.1	1925.3	2084.4	2246.7	2402.7	2540.5	2638.4	2730.2	2800.6
50°	1166.2	1310.0	1490.6	1677.3	1851.8	2023.2	2188.5	2317.1	2415.0	2488.5	2540.5
52.5°	902.9	1074.3	1258.0	1453.9	1640.6	1827.3	1980.3	2099.7	2179.3	2243.6	2283.4
55°	673.4	841.7	1037.7	1239.6	1429.4	1610.0	1753.9	1858.0	1928.4	1965.1	1986.5
57.5°	486.7	639.7	835.6	1037.7	1209.0	1380.4	1496.7	1591.6	1631.4	1652.8	1662.0
60°	355.1	495.9	670.3	844.8	1007.0	1144.7	1245.8	1310.0	1340.7	1352.9	1349.8
62.5°	260.2	382.6	532.6	679.5	811.1	924.3	1003.9	1046.8	1062.1	1068.2	1059.1
65°	198.9	293.8	422.4	535.6	636.7	719.3	777.5	805.0	814.2	811.1	805.0
67.5°	146.9	220.4	315.3	401.0	474.5	538.7	569.3	593.8	599.9	590.8	581.5
70°	104.1	162.2	229.5	287.7	342.8	379.6	413.2	416.3	416.3	413.2	407.1
72.5°	73.5	113.2	156.1	195.9	229.5	257.1	269.3	278.5	275.5	272.4	266.3
75°	49.0	70.4	113.2	122.5	153.0	162.2	174.5	174.5	177.5	168.4	168.4
77.5°	30.6	49.0	67.3	79.6	91.8	104.1	110.2	110.2	113.2	110.2	110.2
80°	18.3	30.6	36.7	55.1	55.1	64.3	67.3	70.4	64.3	73.5	64.3
82.5°	12.2	18.3	27.6	27.6	33.7	39.8	39.8	42.8	42.8	39.8	39.8
85°	9.2	12.2	15.3	18.3	18.3	21.4	18.3	18.3	21.4	24.5	21.4
87.5°	3.1	6.1	3.1	6.1	6.1	12.2	9.2	9.2	9.2	12.2	12.2
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: P248456

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5766.6	5766.6	5766.6	5766.6
2.5°	5772.7	5775.8	5772.7	5772.7
5°	5800.3	5797.2	5800.3	5794.1
7.5°	5821.7	5821.7	5818.6	5818.6
10°	5821.7	5809.5	5809.5	5809.5
12.5°	5775.8	5760.5	5751.3	5745.2
15°	5696.2	5668.7	5656.4	5653.3
17.5°	5592.2	5567.7	5552.4	5543.2
20°	5472.8	5448.3	5429.9	5433.0
22.5°	5368.7	5341.2	5328.9	5322.8
25°	5264.7	5230.9	5221.8	5215.7
27.5°	5096.3	5077.9	5068.7	5059.6
30°	4839.2	4830.0	4814.7	4836.1
32.5°	4542.3	4526.9	4514.7	4524.0
35°	4214.8	4205.6	4214.8	4208.6
37.5°	3914.8	3924.0	3936.3	3942.3
40°	3679.2	3712.8	3725.1	3731.1
42.5°	3443.5	3483.2	3507.7	3523.0
45°	3152.6	3192.4	3220.0	3238.4
47.5°	2852.7	2886.4	2913.9	2910.9
50°	2580.3	2598.7	2610.9	2623.2
52.5°	2304.8	2304.8	2307.8	2307.8
55°	1992.6	1986.5	1983.4	1986.5
57.5°	1649.8	1643.7	1640.6	1631.4
60°	1337.6	1319.3	1307.0	1307.0
62.5°	1046.8	1025.4	1016.2	1013.2
65°	786.6	783.5	765.2	762.1
67.5°	569.3	557.1	544.9	547.9
70°	401.0	382.6	382.6	376.5
72.5°	260.2	251.0	247.9	247.9
75°	162.2	162.2	156.1	168.4
77.5°	107.1	107.1	104.1	107.1
80°	64.3	64.3	64.3	61.2
82.5°	39.8	42.8	39.8	39.8
85°	21.4	24.5	18.3	27.6
87.5°	12.2	15.3	12.2	15.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)