

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: P248424

Luminaire Tested: **LD8B200D010 ER8B200927 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248424
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: LD8B200D010 ER8B200927 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17788.5 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

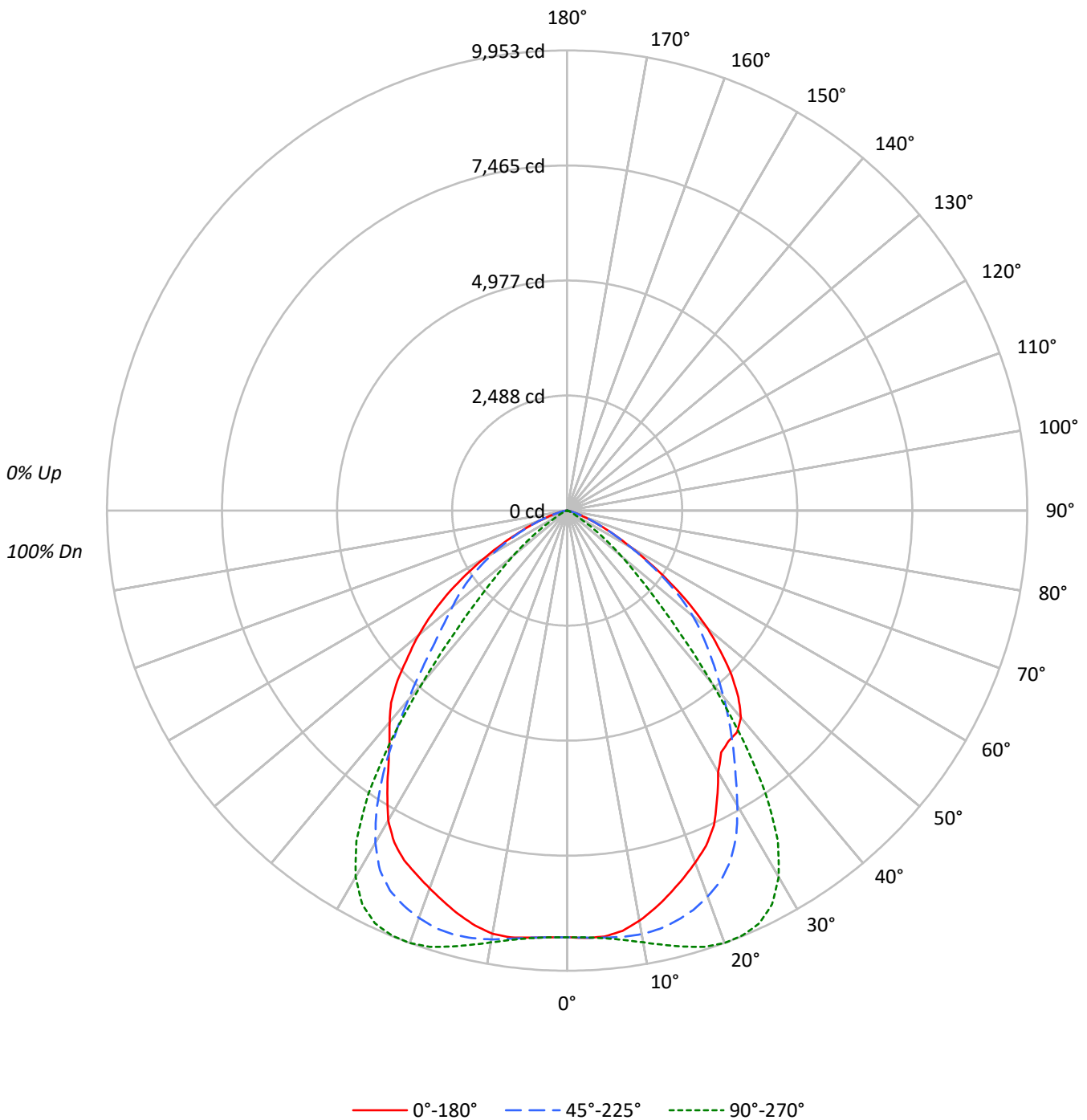
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.4	5.0
10°-20°	2629.0	14.8
20°-30°	4010.7	22.5
30°-40°	4185.3	23.5
40°-50°	3143.7	17.7
50°-60°	1934.2	10.9
60°-70°	787.2	4.4
70°-80°	185.5	1.0
80°-90°	25.6	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°	7527.1	42.3
0°-40°	11712.4	65.8
0°-60°	16790.3	94.4
0°-90°	17788.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17788.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9228	9228	9228	9228	9228	
5°	9248	9272	9282	9272	9272	875
15°	8577	9179	9762	9492	9047	2416
25°	7514	8356	9845	9066	8346	3416
35°	6088	6260	7499	6931	6735	3844
45°	5026	4350	2714	4051	5182	3834
55°	2714	2576	710	2576	3179	2439
65°	847	857	108	1151	1220	884
75°	147	147	20	260	269	177
85°	15	15	5	34	44	21
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°	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0
2.5°	9252.6	9237.8	9252.6	9252.6	9257.5	9247.7	9252.6	9257.5	9247.7	9247.7	9247.7
5°	9247.7	9237.8	9247.7	9242.8	9252.6	9252.6	9262.5	9262.5	9272.1	9272.1	9286.9
7.5°	9169.3	9149.7	9169.3	9184.1	9193.7	9213.4	9237.8	9257.5	9277.1	9296.7	9321.2
10°	9007.6	9007.6	9022.4	9051.8	9081.1	9115.4	9159.5	9208.5	9257.5	9301.5	9345.6
12.5°	8806.8	8792.1	8821.5	8860.7	8904.8	8958.7	9027.3	9100.8	9179.1	9267.2	9335.9
15°	8576.7	8561.9	8596.2	8635.4	8689.3	8767.7	8851.1	8948.9	9061.5	9179.1	9291.8
17.5°	8341.5	8336.6	8370.9	8424.8	8468.9	8552.1	8659.9	8777.4	8904.8	9061.5	9208.5
20°	8101.6	8096.6	8130.9	8175.0	8233.8	8312.2	8419.9	8557.0	8708.8	8885.2	9056.7
22.5°	7851.7	7856.7	7886.0	7935.0	7984.0	8067.2	8179.9	8317.0	8483.5	8674.5	8865.7
25°	7513.8	7489.2	7528.5	7577.4	7660.7	7729.2	7837.1	7984.0	8155.4	8356.3	8581.6
27.5°	7023.9	7019.0	7053.4	7097.4	7170.9	7254.1	7371.7	7523.6	7704.8	7925.2	8145.6
30°	6534.1	6543.9	6558.6	6602.7	6651.7	6734.9	6852.5	6980.0	7151.3	7361.9	7597.0
32.5°	6201.0	6201.0	6220.7	6250.0	6284.2	6328.5	6411.7	6504.8	6637.0	6784.0	6955.3
35°	6088.4	6068.8	6088.4	6093.2	6098.2	6108.0	6122.6	6152.1	6196.0	6259.8	6323.5
37.5°	6039.4	6024.7	6024.7	6005.1	5980.6	5951.2	5912.1	5868.0	5819.1	5755.3	5706.3
40°	5848.4	5838.6	5828.7	5809.3	5755.3	5696.6	5632.8	5529.9	5417.3	5260.5	5103.9
42.5°	5481.1	5471.2	5466.4	5427.1	5378.2	5309.6	5236.1	5128.3	4986.3	4785.4	4560.2
45°	5025.5	5005.9	4991.3	4957.0	4922.6	4863.8	4795.3	4697.2	4555.2	4349.6	4080.2
47.5°	4496.5	4486.7	4481.8	4467.2	4432.8	4398.5	4354.5	4276.1	4148.7	3952.8	3673.6
50°	3962.6	3943.0	3952.8	3948.0	3933.2	3908.8	3879.3	3825.4	3727.5	3551.2	3296.5
52.5°	3350.2	3350.2	3345.5	3360.2	3365.0	3360.2	3365.0	3306.3	3223.0	3090.7	2875.2
55°	2713.5	2713.5	2728.2	2747.9	2767.4	2772.3	2767.4	2743.0	2684.1	2576.4	2385.3
57.5°	2115.9	2106.2	2135.6	2165.0	2184.6	2204.1	2189.4	2169.9	2135.6	2047.4	1900.5
60°	1611.4	1611.4	1631.0	1650.7	1670.2	1689.9	1684.9	1680.1	1650.7	1591.9	1474.4
62.5°	1185.3	1190.2	1190.2	1205.0	1224.4	1244.1	1258.8	1244.1	1229.4	1190.2	1111.8
65°	847.4	842.4	847.4	862.1	876.8	896.4	906.2	901.2	886.5	857.1	798.4
67.5°	568.2	563.3	582.9	587.7	597.6	617.2	612.3	617.2	612.3	587.7	538.9
70°	372.3	362.5	372.3	367.3	382.0	387.0	396.7	401.6	396.7	382.0	367.3
72.5°	230.2	225.3	230.2	235.1	240.1	244.8	254.7	254.7	249.8	240.1	220.4
75°	146.9	132.2	137.1	127.4	137.1	137.1	146.9	151.9	146.9	146.9	137.1
77.5°	88.2	88.2	88.2	88.2	88.2	88.2	88.2	93.1	97.9	88.2	83.2
80°	44.1	44.1	49.1	49.1	49.1	53.9	49.1	49.1	49.1	53.9	39.2
82.5°	34.3	29.4	29.4	29.4	34.3	29.4	29.4	29.4	29.4	29.4	29.4
85°	14.7	19.6	14.7	9.8	14.7	14.7	19.6	14.7	14.7	14.7	19.6
87.5°	5.0	5.0	0.0	0.0	0.0	5.0	0.0	5.0	5.0	9.8	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°	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0
2.5°	9252.6	9242.8	9242.8	9237.8	9247.7	9237.8	9242.8	9237.8	9237.8	9247.7	9237.8
5°	9286.9	9291.8	9281.9	9277.1	9291.8	9291.8	9291.8	9281.9	9281.9	9286.9	9281.9
7.5°	9335.9	9345.6	9350.6	9355.5	9365.3	9370.2	9370.2	9365.3	9360.3	9375.1	9355.5
10°	9389.7	9404.4	9433.8	9448.5	9473.1	9473.1	9482.8	9482.8	9473.1	9482.8	9477.9
12.5°	9370.2	9458.3	9507.3	9541.6	9575.9	9605.2	9615.0	9620.0	9615.0	9634.7	9615.0
15°	9404.4	9477.9	9556.3	9615.0	9678.7	9712.9	9722.8	9762.0	9771.8	9776.7	9747.3
17.5°	9350.6	9482.8	9566.0	9654.2	9747.3	9811.0	9869.7	9894.3	9899.2	9908.9	9869.7
20°	9228.0	9375.1	9502.4	9629.8	9737.6	9835.4	9884.5	9953.0	9933.5	9972.7	9918.8
22.5°	9061.5	9228.0	9389.7	9556.3	9668.9	9786.5	9889.4	9938.2	9962.9	9962.9	9904.1
25°	8797.1	8993.0	9169.3	9340.6	9512.2	9654.2	9771.8	9845.3	9860.1	9855.1	9786.5
27.5°	8385.6	8596.2	8802.0	8998.0	9208.5	9375.1	9512.2	9600.3	9624.8	9624.8	9551.4
30°	7817.4	8042.7	8243.6	8478.7	8694.2	8880.4	9071.4	9149.7	9193.7	9193.7	9110.6
32.5°	7141.5	7332.5	7518.6	7748.9	7984.0	8194.6	8375.8	8483.5	8537.5	8532.6	8459.1
35°	6406.8	6499.8	6641.9	6813.3	7023.9	7219.8	7396.2	7499.1	7592.1	7587.2	7518.6
37.5°	5672.0	5647.5	5662.2	5725.9	5858.1	5995.3	6132.5	6230.5	6308.8	6343.2	6328.5
40°	4952.0	4824.7	4702.2	4658.2	4667.8	4716.9	4790.4	4863.8	4952.0	4996.1	5015.7
42.5°	4305.5	4089.9	3874.4	3712.8	3619.7	3590.3	3624.6	3649.0	3702.9	3766.6	3830.4
45°	3786.3	3497.3	3213.1	2963.4	2806.6	2713.5	2693.9	2713.5	2743.0	2806.6	2889.9
47.5°	3360.2	3022.1	2703.8	2424.6	2194.3	2071.9	2037.7	2027.8	2057.2	2115.9	2228.6
50°	2982.9	2645.0	2292.4	1969.0	1729.0	1591.9	1542.9	1523.2	1557.6	1601.7	1704.5
52.5°	2571.5	2238.4	1876.0	1562.5	1312.8	1170.7	1116.8	1087.4	1106.9	1165.7	1268.7
55°	2125.8	1817.2	1489.0	1165.7	925.8	793.6	729.8	710.2	729.8	793.6	896.4
57.5°	1680.1	1420.4	1146.1	842.4	627.0	494.8	431.0	411.4	465.4	489.8	597.6
60°	1312.8	1102.2	867.0	617.2	431.0	328.2	264.5	249.8	274.4	318.4	406.6
62.5°	984.6	852.3	666.1	440.8	318.4	210.6	176.3	161.7	176.3	210.6	279.2
65°	715.2	612.3	465.4	323.2	215.4	156.7	117.6	107.8	122.5	146.9	205.8
67.5°	489.8	411.4	323.2	225.3	146.9	97.9	83.2	83.2	88.2	107.8	151.9
70°	318.4	269.4	205.8	146.9	97.9	73.5	63.7	53.9	63.7	78.4	102.8
72.5°	200.8	171.3	132.2	102.8	73.5	53.9	44.1	39.2	49.1	58.7	78.4
75°	122.5	93.1	68.5	53.9	39.2	39.2	39.2	19.6	24.4	39.2	49.1
77.5°	73.5	63.7	53.9	44.1	34.3	19.6	19.6	19.6	24.4	29.4	44.1
80°	39.2	34.3	24.4	24.4	19.6	14.7	19.6	14.7	9.8	24.4	29.4
82.5°	24.4	19.6	19.6	19.6	24.4	9.8	14.7	9.8	14.7	19.6	14.7
85°	14.7	14.7	14.7	9.8	24.4	9.8	9.8	5.0	5.0	9.8	9.8
87.5°	0.0	5.0	5.0	0.0	5.0	0.0	5.0	5.0	5.0	5.0	5.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0	9228.0
2.5°	9242.8	9237.8	9242.8	9237.8	9237.8	9237.8	9242.8	9242.8	9237.8	9237.8	9247.7
5°	9281.9	9281.9	9281.9	9277.1	9272.1	9272.1	9281.9	9281.9	9267.2	9281.9	9281.9
7.5°	9365.3	9350.6	9365.3	9345.6	9335.9	9340.6	9345.6	9335.9	9326.0	9331.0	9331.0
10°	9473.1	9458.3	9458.3	9443.7	9429.0	9419.1	9409.4	9384.9	9360.3	9355.5	9335.9
12.5°	9600.3	9575.9	9561.3	9531.8	9507.3	9473.1	9443.7	9404.4	9355.5	9321.2	9286.9
15°	9727.6	9688.5	9654.2	9605.2	9551.4	9492.5	9429.0	9365.3	9286.9	9218.4	9159.5
17.5°	9830.5	9776.7	9712.9	9634.7	9556.3	9468.1	9375.1	9281.9	9169.3	9081.1	9012.6
20°	9864.8	9786.5	9703.2	9600.3	9497.5	9375.1	9257.5	9135.0	9007.6	8914.6	8836.3
22.5°	9820.8	9727.6	9624.8	9517.2	9379.9	9247.7	9110.6	8968.5	8855.8	8728.5	8655.1
25°	9698.3	9585.7	9473.1	9345.6	9213.4	9066.5	8919.6	8772.6	8635.4	8566.9	8473.8
27.5°	9448.5	9326.0	9203.6	9071.4	8919.6	8772.6	8620.8	8478.7	8361.2	8268.1	8214.2
30°	9007.6	8865.7	8723.6	8581.6	8449.3	8297.4	8155.4	8037.8	7920.2	7846.8	7793.0
32.5°	8331.6	8204.4	8062.4	7925.2	7802.8	7675.4	7557.9	7455.0	7371.7	7322.6	7283.5
35°	7420.7	7293.3	7185.6	7087.6	6984.7	6930.9	6857.4	6798.6	6764.3	6744.7	6739.9
37.5°	6274.5	6201.0	6166.7	6147.2	6127.5	6112.9	6122.6	6147.2	6166.7	6201.0	6240.2
40°	5050.0	5113.6	5133.3	5201.8	5265.4	5348.8	5441.8	5549.6	5637.7	5750.3	5828.7
42.5°	3933.2	4050.8	4187.9	4334.8	4491.6	4643.4	4829.6	5001.0	5157.7	5299.8	5422.3
45°	3022.1	3203.3	3409.1	3619.7	3830.4	4050.8	4276.1	4486.7	4672.8	4824.7	4952.0
47.5°	2356.0	2556.9	2821.4	3080.9	3335.6	3595.3	3845.0	4065.4	4222.1	4369.2	4481.8
50°	1866.2	2096.4	2385.3	2684.1	2963.4	3237.6	3502.1	3707.9	3864.7	3982.3	4065.4
52.5°	1445.0	1719.2	2013.1	2326.6	2625.4	2924.2	3169.0	3360.2	3487.5	3590.3	3654.0
55°	1077.5	1347.0	1660.5	1983.7	2287.5	2576.4	2806.6	2973.3	3085.9	3144.6	3178.9
57.5°	778.8	1023.8	1337.2	1660.5	1934.8	2209.0	2395.2	2547.0	2610.7	2645.0	2659.7
60°	568.2	793.6	1072.7	1351.9	1611.4	1832.0	1993.6	2096.4	2145.4	2165.0	2160.0
62.5°	416.4	612.3	852.3	1087.4	1298.0	1479.1	1606.6	1675.1	1699.6	1709.4	1694.8
65°	318.4	470.1	675.9	857.1	1018.8	1151.0	1244.1	1288.2	1302.9	1298.0	1288.2
67.5°	235.1	352.7	504.6	641.7	759.3	862.1	911.1	950.3	960.0	945.3	930.6
70°	166.6	259.7	367.3	460.5	548.6	607.4	661.2	666.1	666.1	661.2	651.5
72.5°	117.6	181.2	249.8	313.5	367.3	411.4	431.0	445.7	440.8	435.9	426.2
75°	78.4	112.6	181.2	196.0	244.8	259.7	279.2	279.2	284.1	269.4	269.4
77.5°	49.1	78.4	107.8	127.4	146.9	166.6	176.3	176.3	181.2	176.3	176.3
80°	29.4	49.1	58.7	88.2	88.2	102.8	107.8	112.6	102.8	117.6	102.8
82.5°	19.6	29.4	44.1	44.1	53.9	63.7	63.7	68.5	68.5	63.7	63.7
85°	14.7	19.6	24.4	29.4	29.4	34.3	29.4	29.4	34.3	39.2	34.3
87.5°	5.0	9.8	5.0	9.8	9.8	19.6	14.7	14.7	14.7	19.6	19.6
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: P248424

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9228.0	9228.0	9228.0	9228.0
2.5°	9237.8	9242.8	9237.8	9237.8
5°	9281.9	9277.1	9281.9	9272.1
7.5°	9316.2	9316.2	9311.3	9311.3
10°	9316.2	9296.7	9296.7	9296.7
12.5°	9242.8	9218.4	9203.6	9193.7
15°	9115.4	9071.4	9051.8	9046.8
17.5°	8948.9	8909.8	8885.2	8870.5
20°	8757.9	8718.6	8689.3	8694.2
22.5°	8591.3	8547.3	8527.6	8517.8
25°	8424.8	8370.9	8356.3	8346.5
27.5°	8155.4	8126.0	8111.2	8096.6
30°	7743.9	7729.2	7704.8	7739.0
32.5°	7268.8	7244.3	7224.8	7239.5
35°	6744.7	6730.0	6744.7	6734.9
37.5°	6264.8	6279.4	6299.0	6308.8
40°	5887.6	5941.5	5961.0	5970.8
42.5°	5510.5	5574.0	5613.3	5637.7
45°	5045.1	5108.7	5152.8	5182.3
47.5°	4565.0	4619.0	4663.0	4658.2
50°	4129.2	4158.6	4178.0	4197.7
52.5°	3688.2	3688.2	3693.2	3693.2
55°	3188.7	3178.9	3174.0	3178.9
57.5°	2640.0	2630.4	2625.4	2610.7
60°	2140.5	2111.2	2091.5	2091.5
62.5°	1675.1	1640.8	1626.2	1621.4
65°	1258.8	1253.8	1224.4	1219.6
67.5°	911.1	891.4	871.9	876.8
70°	641.7	612.3	612.3	602.4
72.5°	416.4	401.6	396.7	396.7
75°	259.7	259.7	249.8	269.4
77.5°	171.3	171.3	166.6	171.3
80°	102.8	102.8	102.8	97.9
82.5°	63.7	68.5	63.7	63.7
85°	34.3	39.2	29.4	44.1
87.5°	19.6	24.4	19.6	24.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)