

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: P249189

Luminaire Tested: **LD8B200D010 ER8B200930 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200930 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18096.3 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

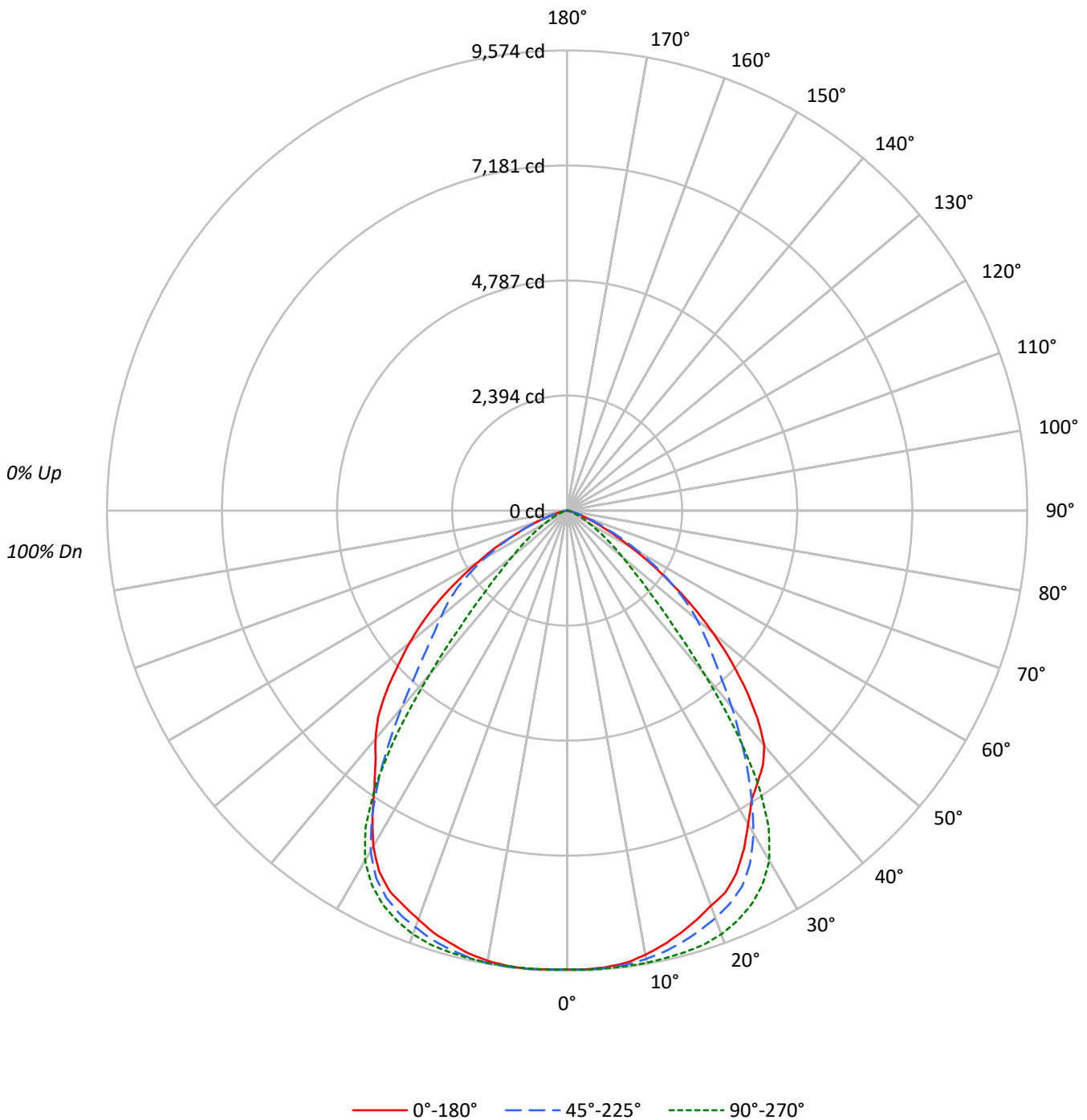
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	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°	911.2	5.0
10°-20°	2646.3	14.6
20°-30°	4016.6	22.2
30°-40°	4218.6	23.3
40°-50°	3162.8	17.5
50°-60°	2029.4	11.2
60°-70°	868.1	4.8
70°-80°	205.1	1.1
80°-90°	38.2	0.2
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°	7574.1	41.9
0°-40°	11792.7	65.2
0°-60°	16984.9	93.9
0°-90°	18096.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18096.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9548	9548	9548	9548	9548	
5°	9532	9548	9558	9574	9568	905
15°	9102	9292	9507	9446	9328	2567
25°	8328	8620	9056	8892	8738	3805
35°	6909	6524	6914	6832	6986	4336
45°	5248	4290	2465	4167	5320	4019
55°	2655	2655	917	2768	3234	2408
65°	800	943	292	1215	1235	853
75°	123	144	41	246	241	179
85°	41	26	20	41	56	43
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°	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0
2.5°	9553.2	9563.4	9558.2	9558.2	9553.2	9558.2	9558.2	9568.5	9568.5	9558.2	9553.2
5°	9532.5	9542.8	9542.8	9532.5	9532.5	9558.2	9542.8	9553.2	9553.2	9548.0	9548.0
7.5°	9486.5	9486.5	9507.0	9491.6	9491.6	9507.0	9501.8	9512.1	9522.3	9527.5	9527.5
10°	9383.9	9394.2	9399.4	9399.4	9404.5	9419.8	9430.1	9450.7	9460.8	9471.1	9476.3
12.5°	9255.9	9271.2	9276.4	9271.2	9286.6	9307.1	9332.8	9358.3	9373.8	9394.2	9409.7
15°	9102.1	9102.1	9112.3	9127.7	9138.1	9168.8	9194.3	9225.0	9266.1	9291.7	9317.3
17.5°	8933.0	8943.2	8958.6	8958.6	8979.1	9030.3	9045.7	9091.9	9138.1	9163.6	9214.8
20°	8748.5	8758.7	8774.1	8784.4	8809.9	8851.0	8881.7	8922.7	8974.1	9020.1	9071.4
22.5°	8604.9	8584.5	8594.7	8604.9	8630.7	8666.6	8702.4	8753.6	8804.8	8851.0	8902.3
25°	8328.1	8333.3	8348.8	8359.0	8389.8	8420.5	8461.5	8523.0	8569.0	8620.4	8676.7
27.5°	7954.1	7959.2	7984.9	7984.9	8010.4	8061.7	8087.3	8138.6	8200.1	8251.3	8318.0
30°	7528.7	7538.9	7538.9	7559.5	7574.8	7600.5	7626.1	7677.4	7708.1	7754.2	7846.6
32.5°	7139.2	7149.4	7144.2	7139.2	7123.8	7118.7	7113.5	7123.8	7134.2	7149.4	7185.3
35°	6908.6	6882.9	6862.5	6826.7	6785.6	6734.3	6688.2	6626.7	6570.3	6524.1	6473.0
37.5°	6688.2	6683.1	6652.4	6601.0	6519.1	6426.8	6319.2	6185.9	6052.6	5909.1	5770.9
40°	6380.7	6365.3	6339.7	6268.0	6175.7	6062.9	5919.4	5755.4	5540.1	5319.8	5094.3
42.5°	5857.9	5863.1	5832.3	5775.8	5688.9	5581.1	5432.5	5253.2	5022.6	4761.1	4469.1
45°	5248.1	5248.1	5237.8	5191.7	5130.1	5043.0	4930.3	4781.7	4556.2	4289.6	3977.0
47.5°	4612.6	4617.6	4602.3	4592.1	4566.4	4510.1	4428.1	4315.3	4156.4	3900.1	3587.5
50°	3966.9	3966.9	3992.4	3987.3	3987.3	3966.9	3931.0	3864.3	3726.0	3520.9	3228.8
52.5°	3321.0	3331.3	3346.7	3367.1	3392.7	3433.7	3392.7	3362.0	3274.9	3115.9	2864.9
55°	2654.8	2665.1	2690.6	2726.5	2757.3	2798.4	2808.6	2808.6	2762.4	2654.8	2465.2
57.5°	2086.0	2070.5	2091.1	2121.8	2162.9	2203.8	2234.5	2270.4	2265.2	2193.6	2039.8
60°	1568.3	1573.4	1588.7	1619.5	1650.3	1686.1	1727.1	1757.8	1773.3	1737.4	1640.0
62.5°	1142.9	1142.9	1163.4	1194.1	1209.4	1260.8	1286.3	1301.8	1317.1	1311.9	1250.5
65°	799.6	809.7	820.0	835.4	850.7	881.4	896.9	927.6	937.8	943.0	896.9
67.5°	563.8	548.4	558.7	568.8	584.3	604.8	635.5	635.5	650.9	650.9	620.1
70°	358.7	358.7	363.9	379.2	389.5	394.6	404.9	415.1	430.5	425.4	425.4
72.5°	240.9	235.7	240.9	246.1	251.2	266.5	266.5	271.6	281.9	287.1	266.5
75°	123.0	128.1	138.3	133.3	148.6	138.3	143.5	158.8	153.7	143.5	143.5
77.5°	102.5	102.5	102.5	97.4	107.6	107.6	102.5	112.8	107.6	107.6	102.5
80°	71.7	76.9	71.7	66.6	71.7	66.6	66.6	66.6	66.6	66.6	61.4
82.5°	56.4	46.2	51.3	46.2	51.3	51.3	46.2	41.0	41.0	46.2	41.0
85°	41.0	30.7	35.9	35.9	30.7	30.7	30.7	30.7	30.7	25.6	25.6
87.5°	25.6	15.5	15.5	15.5	20.4	20.4	20.4	15.5	20.4	20.4	10.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0
2.5°	9563.4	9558.2	9568.5	9563.4	9563.4	9558.2	9563.4	9558.2	9568.5	9548.0	9553.2
5°	9563.4	9553.2	9558.2	9563.4	9568.5	9558.2	9558.2	9558.2	9568.5	9558.2	9563.4
7.5°	9542.8	9537.7	9553.2	9563.4	9558.2	9553.2	9563.4	9558.2	9568.5	9563.4	9573.6
10°	9501.8	9507.0	9517.3	9532.5	9537.7	9542.8	9553.2	9553.2	9568.5	9548.0	9558.2
12.5°	9440.4	9460.8	9486.5	9496.7	9517.3	9517.3	9527.5	9532.5	9542.8	9537.7	9553.2
15°	9363.5	9389.0	9419.8	9445.5	9471.1	9486.5	9501.8	9507.0	9522.3	9507.0	9512.1
17.5°	9271.2	9301.9	9348.1	9378.8	9419.8	9435.2	9455.6	9465.9	9481.4	9471.1	9476.3
20°	9143.1	9179.1	9230.2	9276.4	9301.9	9337.8	9363.5	9378.8	9389.0	9378.8	9383.9
22.5°	8963.7	9015.0	9081.6	9117.4	9168.8	9199.5	9204.6	9240.5	9266.1	9240.5	9250.7
25°	8753.6	8804.8	8856.1	8933.0	8979.1	9015.0	9050.8	9056.0	9081.6	9076.4	9071.4
27.5°	8405.0	8471.7	8558.8	8620.4	8681.8	8738.2	8779.2	8789.4	8815.1	8804.8	8809.9
30°	7928.4	8000.2	8082.3	8179.6	8266.7	8323.1	8374.3	8410.2	8435.7	8420.5	8415.3
32.5°	7252.0	7323.7	7410.8	7508.2	7610.8	7692.6	7754.2	7800.4	7831.1	7820.8	7795.2
35°	6478.1	6498.5	6555.0	6631.8	6718.9	6806.0	6862.5	6913.7	6949.5	6959.8	6959.8
37.5°	5683.7	5617.1	5576.1	5576.1	5627.3	5663.2	5714.4	5745.1	5801.6	5822.0	5837.5
40°	4914.9	4761.1	4617.6	4510.1	4438.4	4433.2	4433.2	4448.5	4499.8	4566.4	4627.9
42.5°	4228.2	3982.1	3761.9	3561.9	3418.5	3336.4	3300.6	3305.7	3346.7	3408.2	3510.6
45°	3679.8	3372.3	3095.5	2854.6	2659.9	2531.8	2470.2	2465.2	2495.9	2567.7	2680.4
47.5°	3254.4	2926.4	2613.7	2336.9	2127.0	1988.5	1916.8	1896.3	1916.8	1983.4	2116.7
50°	2900.8	2562.6	2239.6	1952.7	1727.1	1583.7	1516.9	1491.4	1516.9	1573.4	1706.6
52.5°	2572.7	2224.3	1922.0	1645.2	1404.3	1281.2	1209.4	1194.1	1209.4	1276.1	1383.8
55°	2193.6	1896.3	1599.0	1322.2	1112.1	989.2	932.8	917.4	932.8	994.3	1107.1
57.5°	1819.5	1563.1	1301.8	1050.6	871.2	763.6	712.4	691.9	727.8	768.7	902.1
60°	1470.9	1265.9	1045.4	825.2	676.5	579.1	538.1	532.9	543.2	594.6	686.7
62.5°	1153.2	984.0	809.7	630.3	507.4	466.3	415.1	410.1	420.3	451.0	522.8
65°	830.3	722.7	589.4	461.2	363.9	307.5	287.1	292.1	302.3	323.0	389.5
67.5°	579.1	502.2	410.1	323.0	251.2	225.4	205.0	199.9	205.0	240.9	276.8
70°	389.5	343.4	276.8	246.1	174.3	138.3	143.5	128.1	148.6	148.6	179.4
72.5°	256.1	225.4	184.5	143.5	123.0	97.4	97.4	92.3	102.5	107.6	133.3
75°	133.3	102.5	102.5	71.7	51.3	25.6	46.2	41.0	35.9	41.0	51.3
77.5°	92.3	76.9	71.7	56.4	51.3	41.0	41.0	41.0	41.0	46.2	51.3
80°	56.4	56.4	41.0	35.9	30.7	25.6	30.7	30.7	30.7	30.7	35.9
82.5°	35.9	30.7	30.7	25.6	25.6	20.4	20.4	20.4	20.4	20.4	30.7
85°	30.7	20.4	20.4	15.5	20.4	35.9	15.5	20.4	20.4	20.4	15.5
87.5°	10.3	15.5	15.5	15.5	10.3	5.2	10.3	15.5	15.5	25.6	20.4
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°	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0	9548.0
2.5°	9563.4	9568.5	9568.5	9563.4	9563.4	9553.2	9573.6	9558.2	9563.4	9583.9	9568.5
5°	9573.6	9578.7	9578.7	9573.6	9573.6	9573.6	9578.7	9578.7	9573.6	9568.5	9578.7
7.5°	9594.1	9588.9	9588.9	9578.7	9578.7	9568.5	9578.7	9563.4	9573.6	9563.4	9578.7
10°	9568.5	9573.6	9568.5	9563.4	9563.4	9558.2	9558.2	9542.8	9548.0	9532.5	9542.8
12.5°	9553.2	9548.0	9548.0	9537.7	9527.5	9517.3	9512.1	9496.7	9496.7	9460.8	9476.3
15°	9512.1	9517.3	9501.8	9481.4	9471.1	9445.5	9435.2	9414.7	9394.2	9368.6	9373.8
17.5°	9476.3	9460.8	9440.4	9419.8	9378.8	9358.3	9337.8	9307.1	9296.8	9266.1	9255.9
20°	9368.6	9358.3	9332.8	9296.8	9271.2	9225.0	9204.6	9173.9	9148.1	9117.4	9102.1
22.5°	9230.2	9219.9	9189.2	9153.3	9112.3	9091.9	9071.4	9015.0	8989.3	8958.6	8953.4
25°	9056.0	9040.6	9009.8	8968.9	8948.3	8892.0	8871.4	8830.5	8820.3	8789.4	8784.4
27.5°	8789.4	8769.0	8733.2	8681.8	8645.9	8610.1	8589.7	8558.8	8548.6	8517.8	8512.8
30°	8389.8	8364.0	8292.4	8271.9	8210.3	8174.4	8174.4	8133.4	8138.6	8118.2	8118.2
32.5°	7759.3	7718.3	7661.9	7620.9	7579.9	7559.5	7559.5	7544.0	7554.3	7554.3	7564.6
35°	6924.0	6867.6	6836.8	6811.2	6811.2	6831.6	6893.3	6908.6	6939.3	6964.9	6985.5
37.5°	5852.7	5847.7	5883.6	5914.3	5991.2	6078.4	6185.9	6278.3	6365.3	6426.8	6488.2
40°	4694.5	4822.7	4925.1	5068.7	5186.5	5355.7	5550.4	5709.3	5857.9	5965.6	6078.4
42.5°	3664.3	3828.4	4043.7	4253.7	4463.9	4694.5	4950.9	5171.2	5365.9	5514.5	5632.5
45°	2854.6	3080.2	3341.6	3608.1	3879.7	4166.8	4433.2	4658.7	4863.7	5017.5	5135.3
47.5°	2301.1	2547.1	2844.3	3136.6	3444.0	3746.4	4043.7	4238.5	4407.5	4530.5	4638.2
50°	1901.3	2162.9	2475.4	2808.6	3115.9	3418.5	3674.6	3864.3	4002.6	4110.3	4176.8
52.5°	1588.7	1865.5	2198.6	2531.8	2839.3	3115.9	3346.7	3490.2	3602.9	3679.8	3741.2
55°	1311.9	1578.6	1891.1	2203.8	2506.1	2767.5	2957.1	3064.8	3151.8	3198.0	3233.9
57.5°	1071.2	1317.1	1604.2	1891.1	2152.5	2367.9	2516.4	2624.0	2665.1	2700.9	2695.8
60°	840.5	1071.2	1332.5	1578.6	1804.0	1978.2	2086.0	2147.4	2178.1	2193.6	2183.3
62.5°	661.2	871.2	1071.2	1286.3	1450.3	1599.0	1701.6	1701.6	1716.9	1722.0	1737.4
65°	492.0	650.9	825.2	984.0	1117.2	1214.6	1271.1	1286.3	1307.0	1301.8	1291.5
67.5°	363.9	481.8	609.8	727.8	820.0	881.4	922.5	958.5	953.3	943.0	937.8
70°	251.2	328.0	440.8	512.5	579.1	640.7	650.9	656.0	661.2	666.2	656.0
72.5°	174.3	230.6	292.1	353.7	394.6	420.3	445.9	451.0	451.0	451.0	445.9
75°	87.1	117.9	174.3	199.9	235.7	246.1	266.5	266.5	281.9	261.3	256.1
77.5°	76.9	92.3	123.0	143.5	158.8	174.3	179.4	194.7	189.6	179.4	184.5
80°	46.2	56.4	76.9	87.1	107.6	112.8	117.9	123.0	117.9	123.0	123.0
82.5°	35.9	41.0	51.3	51.3	66.6	66.6	71.7	71.7	76.9	76.9	76.9
85°	20.4	35.9	30.7	61.4	41.0	41.0	51.3	61.4	51.3	51.3	61.4
87.5°	20.4	20.4	15.5	20.4	20.4	20.4	25.6	30.7	30.7	35.9	30.7
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: P249189

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9548.0	9548.0	9548.0	9548.0
2.5°	9563.4	9573.6	9558.2	9553.2
5°	9578.7	9578.7	9568.5	9568.5
7.5°	9578.7	9578.7	9563.4	9553.2
10°	9537.7	9537.7	9522.3	9512.1
12.5°	9460.8	9460.8	9455.6	9440.4
15°	9363.5	9363.5	9343.0	9327.6
17.5°	9230.2	9240.5	9214.8	9214.8
20°	9086.7	9081.6	9061.2	9050.8
22.5°	8938.2	8927.9	8922.7	8892.0
25°	8779.2	8769.0	8753.6	8738.2
27.5°	8507.6	8502.4	8487.1	8466.6
30°	8092.4	8087.3	8066.8	8066.8
32.5°	7554.3	7549.2	7528.7	7533.9
35°	6995.7	7016.2	7005.9	6985.5
37.5°	6529.3	6544.7	6555.0	6544.7
40°	6139.8	6185.9	6191.1	6201.4
42.5°	5724.7	5786.2	5806.8	5816.9
45°	5227.4	5283.9	5330.1	5319.8
47.5°	4720.1	4761.1	4802.1	4771.4
50°	4233.3	4258.9	4274.4	4274.4
52.5°	3772.1	3772.1	3766.9	3772.1
55°	3244.2	3244.2	3223.7	3233.9
57.5°	2690.6	2700.9	2685.5	2659.9
60°	2178.1	2152.5	2142.2	2127.0
62.5°	1696.4	1696.4	1660.5	1706.6
65°	1271.1	1255.6	1240.3	1235.1
67.5°	922.5	917.4	902.1	896.9
70°	650.9	630.3	625.3	615.0
72.5°	435.6	435.6	425.4	425.4
75°	266.5	240.9	235.7	240.9
77.5°	184.5	179.4	179.4	174.3
80°	123.0	117.9	128.1	112.8
82.5°	76.9	82.1	76.9	82.1
85°	51.3	61.4	56.4	56.4
87.5°	30.7	30.7	30.7	30.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)