

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: P248532

Luminaire Tested: **LD8B200D010 ER8B200927 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248532
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 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17299.1 lumens
Efficiency: N/A
Efficacy: 77.5 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

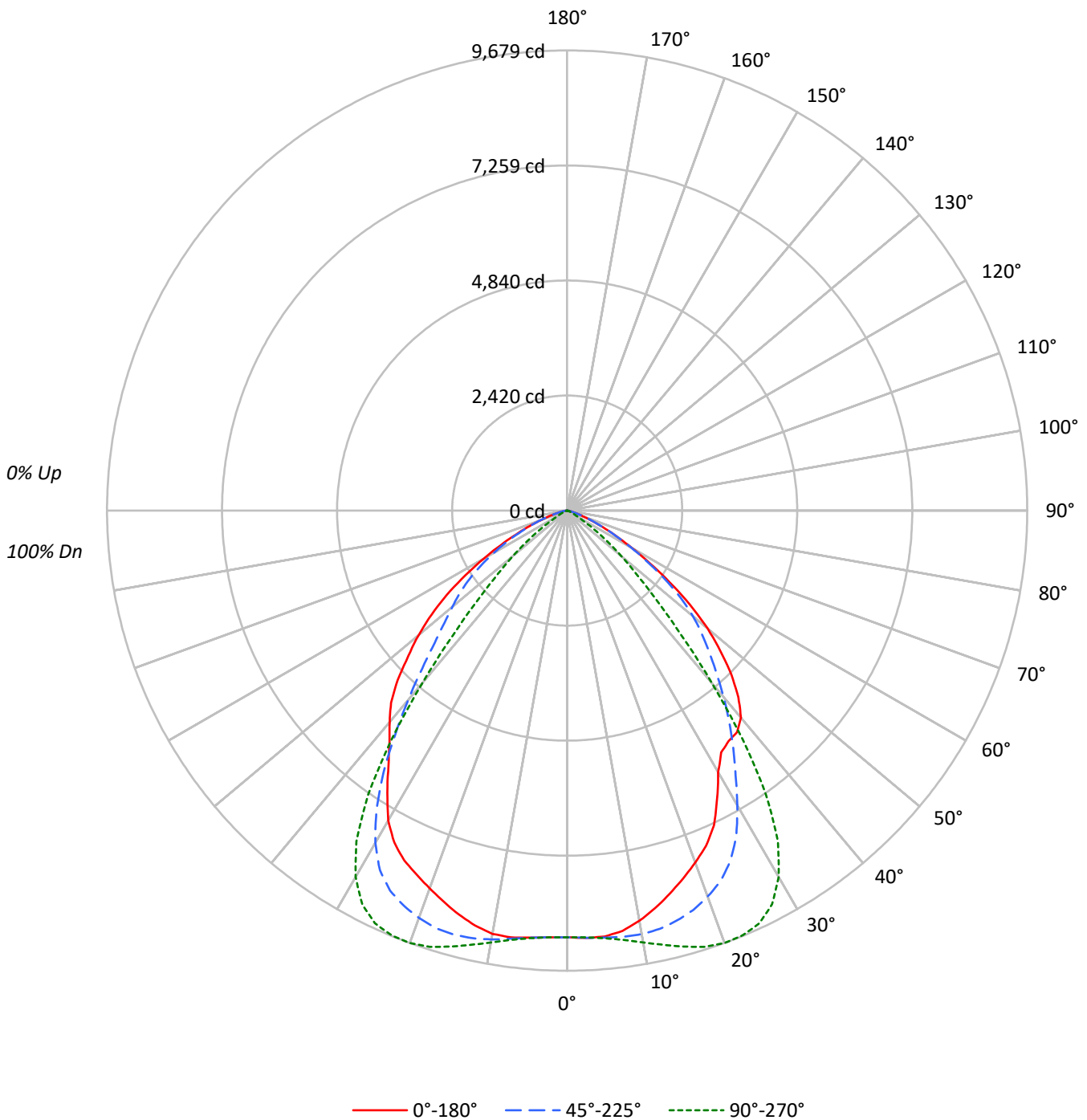
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	863.0	5.0
10°-20°	2556.6	14.8
20°-30°	3900.4	22.5
30°-40°	4070.1	23.5
40°-50°	3057.2	17.7
50°-60°	1881.0	10.9
60°-70°	765.5	4.4
70°-80°	180.4	1.0
80°-90°	24.8	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°	7320.1	42.3
0°-40°	11390.2	65.8
0°-60°	16328.4	94.4
0°-90°	17299.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17299.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8974	8974	8974	8974	8974	
5°	8993	9017	9027	9017	9017	851
15°	8341	8927	9493	9231	8798	2350
25°	7307	8126	9574	8817	8117	3322
35°	5921	6088	7293	6740	6550	3738
45°	4887	4230	2639	3939	5040	3729
55°	2639	2506	691	2506	3091	2372
65°	824	834	105	1119	1186	859
75°	143	143	19	252	262	172
85°	14	14	5	33	43	20
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°	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1
2.5°	8998.1	8983.7	8998.1	8998.1	9002.8	8993.2	8998.1	9002.8	8993.2	8993.2	8993.2
5°	8993.2	8983.7	8993.2	8988.5	8998.1	8998.1	9007.6	9007.6	9017.1	9017.1	9031.4
7.5°	8917.1	8898.1	8917.1	8931.4	8940.8	8959.9	8983.7	9002.8	9021.8	9040.9	9064.7
10°	8759.8	8759.8	8774.2	8802.7	8831.2	8864.7	8907.5	8955.2	9002.8	9045.7	9088.5
12.5°	8564.6	8550.2	8578.8	8616.9	8659.8	8712.2	8778.9	8850.4	8926.6	9012.3	9079.1
15°	8340.8	8326.4	8359.8	8397.8	8450.3	8526.5	8607.5	8702.8	8812.2	8926.6	9036.2
17.5°	8112.0	8107.3	8140.6	8193.0	8235.9	8316.8	8421.8	8535.9	8659.8	8812.2	8955.2
20°	7878.7	7873.9	7907.3	7950.2	8007.3	8083.5	8188.3	8321.6	8469.2	8640.8	8807.5
22.5°	7635.7	7640.4	7669.0	7716.7	7764.4	7845.3	7954.8	8088.3	8250.2	8435.9	8621.8
25°	7307.0	7283.2	7321.4	7369.0	7449.9	7516.6	7621.4	7764.4	7931.0	8126.3	8345.5
27.5°	6830.7	6825.9	6859.4	6902.1	6973.5	7054.5	7169.0	7316.6	7492.8	7707.2	7921.5
30°	6354.3	6363.9	6378.2	6421.0	6468.6	6549.6	6663.9	6787.9	6954.5	7159.4	7388.0
32.5°	6030.4	6030.4	6049.6	6078.0	6111.4	6154.3	6235.3	6325.8	6454.5	6597.3	6764.0
35°	5920.9	5901.9	5920.9	5925.6	5930.4	5940.0	5954.2	5982.9	6025.6	6087.6	6149.5
37.5°	5873.3	5859.0	5859.0	5840.0	5816.0	5787.6	5749.4	5706.6	5659.0	5597.0	5549.4
40°	5687.6	5678.0	5668.4	5649.4	5597.0	5539.8	5477.8	5377.8	5268.3	5115.8	4963.5
42.5°	5330.2	5320.7	5316.0	5277.8	5230.1	5163.5	5092.1	4987.2	4849.2	4653.8	4434.8
45°	4887.2	4868.1	4853.9	4820.6	4787.1	4730.1	4663.3	4568.1	4429.9	4229.9	3967.9
47.5°	4372.8	4363.2	4358.5	4344.3	4310.9	4277.5	4234.7	4158.4	4034.6	3844.0	3572.6
50°	3853.6	3834.6	3844.0	3839.4	3825.0	3801.3	3772.6	3720.3	3624.9	3453.4	3205.8
52.5°	3258.1	3258.1	3253.4	3267.7	3272.4	3267.7	3272.4	3215.4	3134.4	3005.7	2796.1
55°	2638.9	2638.9	2653.2	2672.3	2691.3	2696.1	2691.3	2667.5	2610.3	2505.5	2319.8
57.5°	2057.7	2048.3	2076.9	2105.4	2124.6	2143.5	2129.2	2110.2	2076.9	1991.0	1848.2
60°	1567.1	1567.1	1586.1	1605.3	1624.3	1643.4	1638.6	1633.8	1605.3	1548.0	1433.8
62.5°	1152.7	1157.5	1157.5	1171.8	1190.8	1209.9	1224.1	1209.9	1195.6	1157.5	1081.2
65°	824.1	819.2	824.1	838.4	852.8	871.6	881.2	876.5	862.1	833.6	776.5
67.5°	552.6	547.8	566.8	571.6	581.2	600.2	595.5	600.2	595.5	571.6	524.0
70°	362.0	352.5	362.0	357.2	371.6	376.3	385.8	390.6	385.8	371.6	357.2
72.5°	223.9	219.2	223.9	228.7	233.4	238.2	247.7	247.7	242.9	233.4	214.3
75°	142.9	128.6	133.3	123.9	133.3	133.3	142.9	147.7	142.9	142.9	133.3
77.5°	85.7	85.7	85.7	85.7	85.7	85.7	85.7	90.6	95.2	85.7	81.0
80°	42.9	42.9	47.7	47.7	47.7	52.4	47.7	47.7	47.7	52.4	38.1
82.5°	33.3	28.6	28.6	28.6	33.3	28.6	28.6	28.6	28.6	28.6	28.6
85°	14.3	19.0	14.3	9.6	14.3	14.3	19.0	14.3	14.3	14.3	19.0
87.5°	4.7	4.7	0.0	0.0	0.0	4.7	0.0	4.7	4.7	9.6	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°	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1
2.5°	8998.1	8988.5	8988.5	8983.7	8993.2	8983.7	8988.5	8983.7	8983.7	8993.2	8983.7
5°	9031.4	9036.2	9026.7	9021.8	9036.2	9036.2	9036.2	9026.7	9026.7	9031.4	9026.7
7.5°	9079.1	9088.5	9093.3	9098.1	9107.7	9112.4	9112.4	9107.7	9102.8	9117.2	9098.1
10°	9131.4	9145.7	9174.3	9188.7	9212.4	9212.4	9222.0	9222.0	9212.4	9222.0	9217.2
12.5°	9112.4	9198.1	9245.7	9279.1	9312.4	9341.0	9350.6	9355.3	9350.6	9369.7	9350.6
15°	9145.7	9217.2	9293.4	9350.6	9412.4	9445.7	9455.3	9493.4	9503.0	9507.7	9479.1
17.5°	9093.3	9222.0	9302.8	9388.7	9479.1	9541.1	9598.2	9622.1	9626.8	9636.3	9598.2
20°	8974.1	9117.2	9241.0	9364.8	9469.7	9564.9	9612.6	9679.2	9660.2	9698.3	9645.9
22.5°	8812.2	8974.1	9131.4	9293.4	9403.0	9517.3	9617.3	9664.9	9688.7	9688.7	9631.6
25°	8555.1	8745.6	8917.1	9083.7	9250.5	9388.7	9503.0	9574.4	9588.7	9584.0	9517.3
27.5°	8154.9	8359.8	8559.8	8750.4	8955.2	9117.2	9250.5	9336.2	9360.1	9360.1	9288.7
30°	7602.3	7821.4	8016.9	8245.4	8455.1	8636.1	8821.8	8898.1	8940.8	8940.8	8859.9
32.5°	6945.0	7130.8	7311.8	7535.7	7764.4	7969.2	8145.3	8250.2	8302.6	8297.8	8226.3
35°	6230.6	6320.9	6459.2	6625.9	6830.7	7021.2	7192.7	7292.8	7383.3	7378.4	7311.8
37.5°	5516.0	5492.1	5506.5	5568.4	5697.0	5830.4	5963.7	6059.1	6135.2	6168.6	6154.3
40°	4815.8	4691.9	4572.8	4530.0	4539.5	4587.2	4658.6	4730.1	4815.8	4858.8	4877.7
42.5°	4187.0	3977.4	3767.7	3610.7	3520.1	3491.6	3524.8	3548.7	3601.1	3663.0	3725.0
45°	3682.1	3401.1	3124.8	2881.9	2729.5	2638.9	2619.9	2638.9	2667.5	2729.5	2810.5
47.5°	3267.7	2939.0	2629.5	2357.9	2134.0	2015.0	1981.6	1972.0	2000.6	2057.7	2167.3
50°	2900.9	2572.2	2229.3	1914.9	1681.5	1548.0	1500.5	1481.4	1514.7	1557.6	1657.6
52.5°	2500.8	2176.9	1824.4	1519.5	1276.6	1138.5	1086.1	1057.5	1076.5	1133.7	1233.7
55°	2067.3	1767.2	1448.1	1133.7	900.2	771.6	709.6	690.6	709.6	771.6	871.6
57.5°	1633.8	1381.4	1114.5	819.2	609.6	481.2	419.2	400.2	452.6	476.3	581.2
60°	1276.6	1071.8	843.2	600.2	419.2	319.2	257.2	242.9	266.7	309.6	395.3
62.5°	957.5	828.8	647.8	428.6	309.6	204.8	171.5	157.3	171.5	204.8	271.6
65°	695.5	595.5	452.6	314.3	209.6	152.4	114.3	104.7	119.1	142.9	200.1
67.5°	476.3	400.2	314.3	219.2	142.9	95.2	81.0	81.0	85.7	104.7	147.7
70°	309.6	262.0	200.1	142.9	95.2	71.4	61.9	52.4	61.9	76.3	100.0
72.5°	195.3	166.7	128.6	100.0	71.4	52.4	42.9	38.1	47.7	57.2	76.3
75°	119.1	90.6	66.7	52.4	38.1	38.1	38.1	19.0	23.7	38.1	47.7
77.5°	71.4	61.9	52.4	42.9	33.3	19.0	19.0	19.0	23.7	28.6	42.9
80°	38.1	33.3	23.7	23.7	19.0	14.3	19.0	14.3	9.6	23.7	28.6
82.5°	23.7	19.0	19.0	19.0	23.7	9.6	14.3	9.6	14.3	19.0	14.3
85°	14.3	14.3	14.3	9.6	23.7	9.6	9.6	4.7	4.7	9.6	9.6
87.5°	0.0	4.7	4.7	0.0	4.7	0.0	4.7	4.7	4.7	4.7	4.7
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°	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1	8974.1
2.5°	8988.5	8983.7	8988.5	8983.7	8983.7	8983.7	8988.5	8988.5	8983.7	8983.7	8993.2
5°	9026.7	9026.7	9026.7	9021.8	9017.1	9017.1	9026.7	9026.7	9012.3	9026.7	9026.7
7.5°	9107.7	9093.3	9107.7	9088.5	9079.1	9083.7	9088.5	9079.1	9069.5	9074.2	9074.2
10°	9212.4	9198.1	9198.1	9183.8	9169.5	9160.0	9150.5	9126.7	9102.8	9098.1	9079.1
12.5°	9336.2	9312.4	9298.2	9269.6	9245.7	9212.4	9183.8	9145.7	9098.1	9064.7	9031.4
15°	9460.1	9422.0	9388.7	9341.0	9288.7	9231.4	9169.5	9107.7	9031.4	8964.8	8907.5
17.5°	9560.1	9507.7	9445.7	9369.7	9293.4	9207.7	9117.2	9026.7	8917.1	8831.2	8764.6
20°	9593.4	9517.3	9436.3	9336.2	9236.1	9117.2	9002.8	8883.7	8759.8	8669.4	8593.2
22.5°	9550.7	9460.1	9360.1	9255.3	9121.8	8993.2	8859.9	8721.7	8612.2	8488.4	8416.9
25°	9431.6	9322.0	9212.4	9088.5	8959.9	8817.1	8674.2	8531.3	8397.8	8331.2	8240.7
27.5°	9188.7	9069.5	8950.4	8821.8	8674.2	8531.3	8383.6	8245.4	8131.2	8040.6	7988.3
30°	8759.8	8621.8	8483.6	8345.5	8216.8	8069.2	7931.0	7816.7	7702.3	7630.9	7578.6
32.5°	8102.5	7978.7	7840.6	7707.2	7588.1	7464.3	7349.8	7250.0	7169.0	7121.2	7083.1
35°	7216.5	7092.7	6987.9	6892.6	6792.5	6740.2	6668.8	6611.5	6578.2	6559.2	6554.5
37.5°	6101.9	6030.4	5997.0	5978.0	5959.0	5944.7	5954.2	5978.0	5997.0	6030.4	6068.5
40°	4911.1	4973.0	4992.1	5058.7	5120.7	5201.7	5292.2	5397.0	5482.6	5592.2	5668.4
42.5°	3825.0	3939.3	4072.7	4215.6	4368.0	4515.8	4696.8	4863.4	5015.8	5154.0	5273.1
45°	2939.0	3115.2	3315.4	3520.1	3725.0	3939.3	4158.4	4363.2	4544.2	4691.9	4815.8
47.5°	2291.2	2486.5	2743.8	2996.2	3243.9	3496.4	3739.3	3953.6	4106.0	4248.9	4358.5
50°	1814.8	2038.7	2319.8	2610.3	2881.9	3148.5	3405.8	3605.8	3758.3	3872.7	3953.6
52.5°	1405.1	1672.0	1957.7	2262.6	2553.2	2843.8	3081.8	3267.7	3391.5	3491.6	3553.4
55°	1047.9	1310.0	1614.8	1929.2	2224.5	2505.5	2729.5	2891.5	3000.9	3058.1	3091.4
57.5°	757.4	995.6	1300.4	1614.8	1881.4	2148.3	2329.3	2476.9	2538.9	2572.2	2586.5
60°	552.6	771.6	1043.1	1314.7	1567.1	1781.6	1938.7	2038.7	2086.4	2105.4	2100.6
62.5°	404.9	595.5	828.8	1057.5	1262.2	1438.5	1562.4	1629.0	1653.0	1662.4	1648.1
65°	309.6	457.2	657.3	833.6	990.8	1119.4	1209.9	1252.8	1267.1	1262.2	1252.8
67.5°	228.7	343.0	490.7	624.0	738.3	838.4	886.0	924.2	933.6	919.4	905.1
70°	162.0	252.4	357.2	447.8	533.5	590.7	643.1	647.8	647.8	643.1	633.6
72.5°	114.3	176.2	242.9	304.9	357.2	400.2	419.2	433.5	428.6	423.9	414.4
75°	76.3	109.6	176.2	190.6	238.2	252.4	271.6	271.6	276.2	262.0	262.0
77.5°	47.7	76.3	104.7	123.9	142.9	162.0	171.5	171.5	176.2	171.5	171.5
80°	28.6	47.7	57.2	85.7	85.7	100.0	104.7	109.6	100.0	114.3	100.0
82.5°	19.0	28.6	42.9	42.9	52.4	61.9	61.9	66.7	66.7	61.9	61.9
85°	14.3	19.0	23.7	28.6	28.6	33.3	28.6	28.6	33.3	38.1	33.3
87.5°	4.7	9.6	4.7	9.6	9.6	19.0	14.3	14.3	14.3	19.0	19.0
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: P248532

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8974.1	8974.1	8974.1	8974.1
2.5°	8983.7	8988.5	8983.7	8983.7
5°	9026.7	9021.8	9026.7	9017.1
7.5°	9060.0	9060.0	9055.1	9055.1
10°	9060.0	9040.9	9040.9	9040.9
12.5°	8988.5	8964.8	8950.4	8940.8
15°	8864.7	8821.8	8802.7	8797.9
17.5°	8702.8	8664.6	8640.8	8626.5
20°	8516.9	8478.8	8450.3	8455.1
22.5°	8354.9	8312.2	8293.1	8283.5
25°	8193.0	8140.6	8126.3	8116.8
27.5°	7931.0	7902.4	7888.2	7873.9
30°	7530.9	7516.6	7492.8	7526.1
32.5°	7068.9	7045.0	7026.0	7040.4
35°	6559.2	6544.9	6559.2	6549.6
37.5°	6092.4	6106.6	6125.7	6135.2
40°	5725.6	5778.0	5797.1	5806.6
42.5°	5358.8	5420.7	5458.8	5482.6
45°	4906.2	4968.1	5011.1	5039.7
47.5°	4439.5	4491.9	4534.7	4530.0
50°	4015.6	4044.2	4063.2	4082.3
52.5°	3586.8	3586.8	3591.6	3591.6
55°	3101.0	3091.4	3086.7	3091.4
57.5°	2567.4	2558.0	2553.2	2538.9
60°	2081.6	2053.0	2034.0	2034.0
62.5°	1629.0	1595.7	1581.5	1576.7
65°	1224.1	1219.4	1190.8	1186.1
67.5°	886.0	866.9	847.9	852.8
70°	624.0	595.5	595.5	585.9
72.5°	404.9	390.6	385.8	385.8
75°	252.4	252.4	242.9	262.0
77.5°	166.7	166.7	162.0	166.7
80°	100.0	100.0	100.0	95.2
82.5°	61.9	66.7	61.9	61.9
85°	33.3	38.1	28.6	42.9
87.5°	19.0	23.7	19.0	23.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)