

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: P249297

Luminaire Tested: **LD8B200D010 ER8B200930 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249297
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 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18002.2 lumens
Efficiency: N/A
Efficacy: 80.6 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

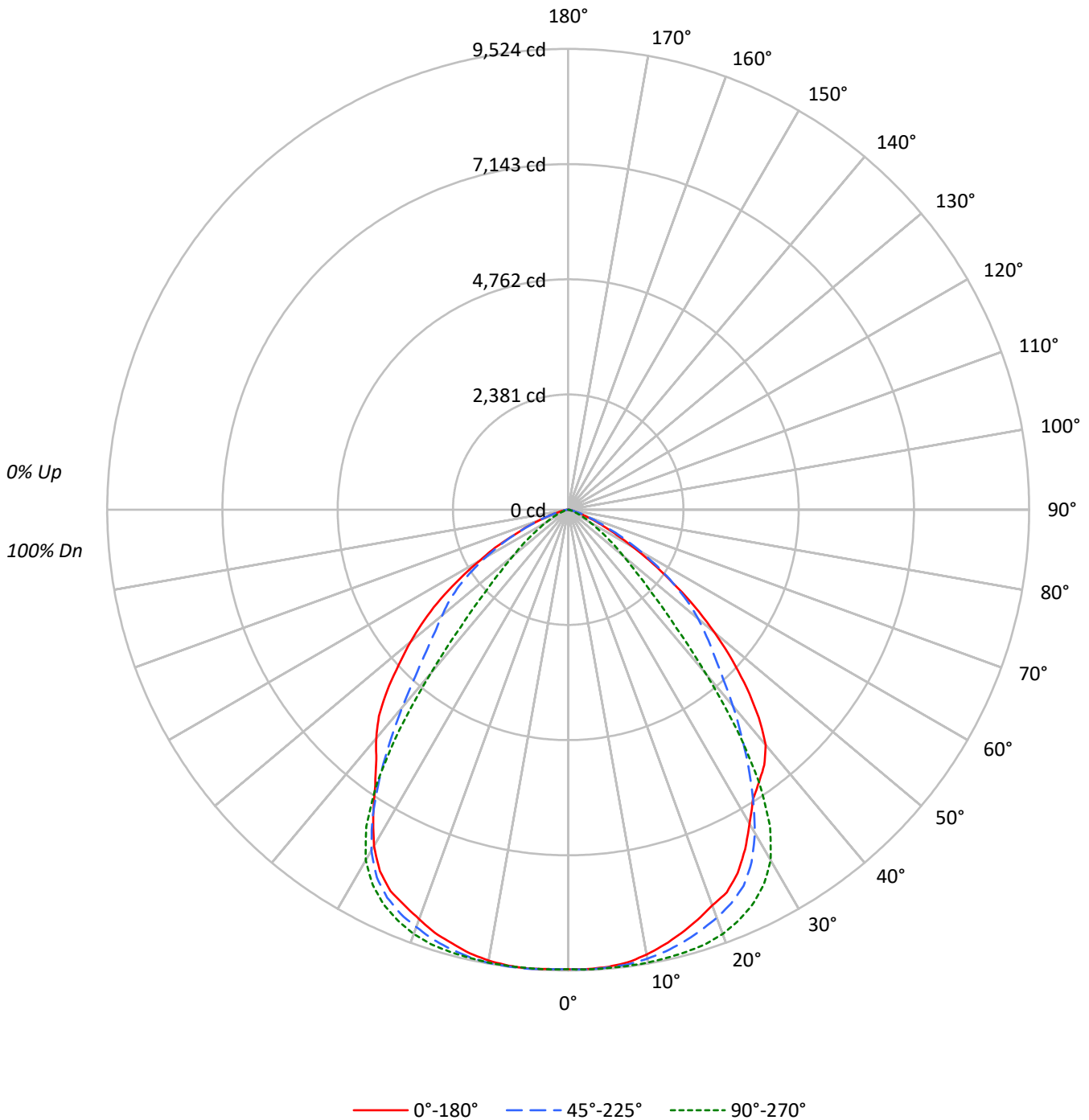
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	906.5	5.0
10°-20°	2632.5	14.6
20°-30°	3995.7	22.2
30°-40°	4196.7	23.3
40°-50°	3146.4	17.5
50°-60°	2018.8	11.2
60°-70°	863.6	4.8
70°-80°	204.0	1.1
80°-90°	38.0	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°	7534.7	41.9
0°-40°	11731.4	65.2
0°-60°	16896.5	93.9
0°-90°	18002.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18002.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9498	9498	9498	9498	9498	
5°	9483	9498	9508	9524	9519	901
15°	9055	9243	9458	9396	9279	2554
25°	8285	8576	9009	8846	8693	3785
35°	6873	6490	6878	6796	6949	4313
45°	5221	4267	2452	4145	5292	3998
55°	2641	2641	913	2753	3217	2396
65°	795	938	291	1208	1229	849
75°	122	143	41	245	240	178
85°	41	25	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°	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2
2.5°	9503.4	9513.6	9508.5	9508.5	9503.4	9508.5	9508.5	9518.7	9518.7	9508.5	9503.4
5°	9483.0	9493.2	9493.2	9483.0	9483.0	9508.5	9493.2	9503.4	9503.4	9498.2	9498.2
7.5°	9437.1	9437.1	9457.5	9442.3	9442.3	9457.5	9452.4	9462.6	9472.8	9477.9	9477.9
10°	9335.1	9345.3	9350.5	9350.5	9355.5	9370.8	9381.0	9401.5	9411.6	9421.8	9426.9
12.5°	9207.8	9222.9	9228.1	9222.9	9238.3	9258.7	9284.2	9309.7	9325.0	9345.3	9360.7
15°	9054.7	9054.7	9064.9	9080.2	9090.5	9121.0	9146.5	9177.1	9217.9	9243.4	9268.9
17.5°	8886.5	8896.7	8912.0	8912.0	8932.5	8983.4	8998.7	9044.6	9090.5	9116.0	9167.0
20°	8703.0	8713.1	8728.4	8738.6	8764.1	8804.9	8835.5	8876.3	8927.3	8973.2	9024.2
22.5°	8560.2	8539.8	8550.0	8560.2	8585.7	8621.4	8657.1	8708.0	8759.0	8804.9	8855.9
25°	8284.9	8289.9	8305.3	8315.5	8346.1	8376.7	8417.5	8478.6	8524.5	8575.5	8631.5
27.5°	7912.7	7917.8	7943.3	7943.3	7968.7	8019.7	8045.2	8096.2	8157.5	8208.4	8274.8
30°	7489.5	7499.7	7499.7	7520.1	7535.4	7560.9	7586.4	7637.4	7668.0	7713.8	7805.6
32.5°	7102.1	7112.2	7107.1	7102.1	7086.7	7081.7	7076.5	7086.7	7096.9	7112.2	7147.8
35°	6872.6	6847.1	6826.8	6791.1	6750.3	6699.3	6653.4	6592.3	6536.1	6490.3	6439.2
37.5°	6653.4	6648.3	6617.7	6566.7	6485.1	6393.4	6286.3	6153.7	6021.1	5878.4	5740.9
40°	6347.4	6332.2	6306.7	6235.3	6143.5	6031.4	5888.6	5725.5	5511.3	5292.1	5067.8
42.5°	5827.4	5832.6	5802.0	5745.8	5659.3	5552.1	5404.2	5225.9	4996.4	4736.3	4445.8
45°	5220.7	5220.7	5210.5	5164.7	5103.5	5016.8	4904.6	4756.9	4532.5	4267.3	3956.3
47.5°	4588.5	4593.6	4578.3	4568.2	4542.6	4486.6	4405.0	4292.9	4134.8	3879.8	3568.8
50°	3946.1	3946.1	3971.6	3966.5	3966.5	3946.1	3910.5	3844.1	3706.6	3502.6	3212.0
52.5°	3303.7	3314.0	3329.3	3349.7	3375.1	3415.9	3375.1	3344.5	3257.9	3099.8	2850.0
55°	2641.0	2651.2	2676.6	2712.3	2743.0	2783.8	2793.9	2793.9	2748.0	2641.0	2452.3
57.5°	2075.1	2059.7	2080.2	2110.7	2151.5	2192.3	2222.9	2258.6	2253.4	2182.1	2029.1
60°	1560.1	1565.3	1580.5	1611.1	1641.7	1677.4	1718.2	1748.8	1764.1	1728.4	1631.5
62.5°	1136.9	1136.9	1157.3	1187.8	1203.2	1254.2	1279.7	1295.0	1310.2	1305.2	1244.0
65°	795.3	805.6	815.8	831.1	846.4	876.8	892.2	922.8	933.0	938.2	892.2
67.5°	560.8	545.5	555.8	565.9	581.2	601.6	632.2	632.2	647.5	647.5	616.9
70°	356.9	356.9	362.0	377.2	387.4	392.6	402.8	413.0	428.2	423.2	423.2
72.5°	239.7	234.5	239.7	244.7	249.9	265.1	265.1	270.2	280.5	285.5	265.1
75°	122.4	127.5	137.5	132.6	147.9	137.5	142.7	158.1	152.9	142.7	142.7
77.5°	101.9	101.9	101.9	97.0	107.1	107.1	101.9	112.1	107.1	107.1	101.9
80°	71.4	76.5	71.4	66.3	71.4	66.3	66.3	66.3	66.3	66.3	61.1
82.5°	56.2	46.0	51.0	46.0	51.0	51.0	46.0	40.8	40.8	46.0	40.8
85°	40.8	30.6	35.6	35.6	30.6	30.6	30.6	30.6	30.6	25.4	25.4
87.5°	25.4	15.4	15.4	15.4	20.3	20.3	20.3	15.4	20.3	20.3	10.2
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°	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2
2.5°	9513.6	9508.5	9518.7	9513.6	9513.6	9508.5	9513.6	9508.5	9518.7	9498.2	9503.4
5°	9513.6	9503.4	9508.5	9513.6	9518.7	9508.5	9508.5	9508.5	9518.7	9508.5	9513.6
7.5°	9493.2	9488.0	9503.4	9513.6	9508.5	9503.4	9513.6	9508.5	9518.7	9513.6	9523.7
10°	9452.4	9457.5	9467.7	9483.0	9488.0	9493.2	9503.4	9503.4	9518.7	9498.2	9508.5
12.5°	9391.3	9411.6	9437.1	9447.2	9467.7	9467.7	9477.9	9483.0	9493.2	9488.0	9503.4
15°	9314.7	9340.2	9370.8	9396.3	9421.8	9437.1	9452.4	9457.5	9472.8	9457.5	9462.6
17.5°	9222.9	9253.5	9299.5	9330.0	9370.8	9386.1	9406.4	9416.7	9432.1	9421.8	9426.9
20°	9095.5	9131.2	9182.2	9228.1	9253.5	9289.2	9314.7	9330.0	9340.2	9330.0	9335.1
22.5°	8917.1	8968.1	9034.4	9070.0	9121.0	9151.6	9156.7	9192.4	9217.9	9192.4	9202.6
25°	8708.0	8759.0	8810.1	8886.5	8932.5	8968.1	9003.8	9008.9	9034.4	9029.2	9024.2
27.5°	8361.3	8427.7	8514.2	8575.5	8636.6	8692.8	8733.6	8743.7	8769.2	8759.0	8764.1
30°	7887.1	7958.7	8040.3	8137.0	8223.8	8279.7	8330.7	8366.5	8391.9	8376.7	8371.5
32.5°	7214.2	7285.6	7372.3	7469.1	7571.1	7652.6	7713.8	7759.8	7790.4	7780.1	7754.6
35°	6444.4	6464.8	6520.9	6597.3	6684.0	6770.6	6826.8	6877.7	6913.3	6923.6	6923.6
37.5°	5654.1	5587.8	5547.0	5547.0	5598.0	5633.7	5684.7	5715.3	5771.4	5791.8	5807.1
40°	4889.4	4736.3	4593.6	4486.6	4415.3	4410.1	4410.1	4425.4	4476.4	4542.6	4603.8
42.5°	4206.2	3961.4	3742.2	3543.4	3400.7	3319.1	3283.4	3288.6	3329.3	3390.5	3492.4
45°	3660.6	3354.7	3079.4	2839.8	2646.0	2518.6	2457.5	2452.3	2482.9	2554.2	2666.5
47.5°	3237.4	2911.1	2600.2	2324.8	2115.9	1978.1	1906.8	1886.4	1906.8	1973.1	2105.7
50°	2885.7	2549.3	2228.0	1942.5	1718.2	1575.5	1509.1	1483.6	1509.1	1565.3	1697.8
52.5°	2559.4	2212.6	1911.9	1636.5	1397.0	1274.6	1203.2	1187.8	1203.2	1269.4	1376.6
55°	2182.1	1886.4	1590.7	1315.4	1106.4	984.0	927.9	912.7	927.9	989.2	1101.3
57.5°	1810.0	1555.1	1295.0	1045.1	866.8	759.6	708.7	688.3	723.9	764.7	897.4
60°	1463.2	1259.3	1040.1	820.8	673.0	576.1	535.3	530.2	540.4	591.4	683.1
62.5°	1147.2	978.9	805.6	627.1	504.8	464.0	413.0	407.9	418.0	448.6	520.0
65°	826.0	718.9	586.3	458.8	362.0	305.9	285.5	290.7	300.8	321.3	387.4
67.5°	576.1	499.6	407.9	321.3	249.9	224.3	203.9	198.9	203.9	239.7	275.3
70°	387.4	341.6	275.3	244.7	173.4	137.5	142.7	127.5	147.9	147.9	178.4
72.5°	254.9	224.3	183.5	142.7	122.4	97.0	97.0	91.8	101.9	107.1	132.6
75°	132.6	101.9	101.9	71.4	51.0	25.4	46.0	40.8	35.6	40.8	51.0
77.5°	91.8	76.5	71.4	56.2	51.0	40.8	40.8	40.8	40.8	46.0	51.0
80°	56.2	56.2	40.8	35.6	30.6	25.4	30.6	30.6	30.6	30.6	35.6
82.5°	35.6	30.6	30.6	25.4	25.4	20.3	20.3	20.3	20.3	20.3	30.6
85°	30.6	20.3	20.3	15.4	20.3	35.6	15.4	20.3	20.3	20.3	15.4
87.5°	10.2	15.4	15.4	15.4	10.2	5.2	10.2	15.4	15.4	25.4	20.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2	9498.2
2.5°	9513.6	9518.7	9518.7	9513.6	9513.6	9503.4	9523.7	9508.5	9513.6	9534.0	9518.7
5°	9523.7	9528.8	9528.8	9523.7	9523.7	9523.7	9528.8	9528.8	9523.7	9518.7	9528.8
7.5°	9544.2	9539.0	9539.0	9528.8	9528.8	9518.7	9528.8	9513.6	9523.7	9513.6	9528.8
10°	9518.7	9523.7	9518.7	9513.6	9513.6	9508.5	9508.5	9493.2	9498.2	9483.0	9493.2
12.5°	9503.4	9498.2	9498.2	9488.0	9477.9	9467.7	9462.6	9447.2	9447.2	9411.6	9426.9
15°	9462.6	9467.7	9452.4	9432.1	9421.8	9396.3	9386.1	9365.7	9345.3	9319.9	9325.0
17.5°	9426.9	9411.6	9391.3	9370.8	9330.0	9309.7	9289.2	9258.7	9248.4	9217.9	9207.8
20°	9319.9	9309.7	9284.2	9248.4	9222.9	9177.1	9156.7	9126.2	9100.6	9070.0	9054.7
22.5°	9182.2	9171.9	9141.4	9105.7	9064.9	9044.6	9024.2	8968.1	8942.6	8912.0	8906.8
25°	9008.9	8993.6	8963.0	8922.2	8901.7	8845.7	8825.3	8784.5	8774.4	8743.7	8738.6
27.5°	8743.7	8723.3	8687.6	8636.6	8601.0	8565.3	8544.9	8514.2	8504.1	8473.4	8468.5
30°	8346.1	8320.5	8249.2	8228.8	8167.6	8132.0	8132.0	8091.2	8096.2	8075.9	8075.9
32.5°	7719.0	7678.2	7622.0	7581.2	7540.5	7520.1	7520.1	7504.8	7515.1	7515.1	7525.3
35°	6887.9	6831.9	6801.2	6775.8	6775.8	6796.1	6857.4	6872.6	6903.2	6928.7	6949.2
37.5°	5822.2	5817.3	5853.0	5883.6	5960.0	6046.7	6153.7	6245.5	6332.2	6393.4	6454.5
40°	4670.1	4797.7	4899.6	5042.4	5159.5	5327.8	5521.5	5679.5	5827.4	5934.6	6046.7
42.5°	3645.3	3808.5	4022.7	4231.7	4440.7	4670.1	4925.1	5144.3	5338.0	5485.8	5603.1
45°	2839.8	3064.1	3324.2	3589.3	3859.5	4145.0	4410.1	4634.4	4838.3	4991.4	5108.6
47.5°	2289.2	2533.9	2829.5	3120.2	3426.1	3726.9	4022.7	4216.4	4384.6	4507.0	4614.1
50°	1891.5	2151.5	2462.5	2793.9	3099.8	3400.7	3655.6	3844.1	3981.9	4089.0	4155.1
52.5°	1580.5	1855.8	2187.2	2518.6	2824.5	3099.8	3329.3	3472.1	3584.2	3660.6	3721.7
55°	1305.2	1570.3	1881.4	2192.3	2493.1	2753.1	2941.7	3048.9	3135.4	3181.4	3217.0
57.5°	1065.6	1310.2	1595.7	1881.4	2141.3	2355.6	2503.3	2610.4	2651.2	2686.8	2681.8
60°	836.2	1065.6	1325.6	1570.3	1794.6	1967.9	2075.1	2136.2	2166.8	2182.1	2171.9
62.5°	657.7	866.8	1065.6	1279.7	1442.8	1590.7	1692.7	1692.7	1708.0	1713.1	1728.4
65°	489.4	647.5	820.8	978.9	1111.4	1208.3	1264.5	1279.7	1300.1	1295.0	1284.8
67.5°	362.0	479.3	606.7	723.9	815.8	876.8	917.7	953.4	948.4	938.2	933.0
70°	249.9	326.3	438.5	509.8	576.1	637.3	647.5	652.5	657.7	662.8	652.5
72.5°	173.4	229.5	290.7	351.8	392.6	418.0	443.6	448.6	448.6	448.6	443.6
75°	86.7	117.3	173.4	198.9	234.5	244.7	265.1	265.1	280.5	260.0	254.9
77.5°	76.5	91.8	122.4	142.7	158.1	173.4	178.4	193.7	188.7	178.4	183.5
80°	46.0	56.2	76.5	86.7	107.1	112.1	117.3	122.4	117.3	122.4	122.4
82.5°	35.6	40.8	51.0	51.0	66.3	66.3	71.4	71.4	76.5	76.5	76.5
85°	20.3	35.6	30.6	61.1	40.8	40.8	51.0	61.1	51.0	51.0	61.1
87.5°	20.3	20.3	15.4	20.3	20.3	20.3	25.4	30.6	30.6	35.6	30.6
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: P249297

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9498.2	9498.2	9498.2	9498.2
2.5°	9513.6	9523.7	9508.5	9503.4
5°	9528.8	9528.8	9518.7	9518.7
7.5°	9528.8	9528.8	9513.6	9503.4
10°	9488.0	9488.0	9472.8	9462.6
12.5°	9411.6	9411.6	9406.4	9391.3
15°	9314.7	9314.7	9294.3	9279.1
17.5°	9182.2	9192.4	9167.0	9167.0
20°	9039.4	9034.4	9014.0	9003.8
22.5°	8891.7	8881.3	8876.3	8845.7
25°	8733.6	8723.3	8708.0	8692.8
27.5°	8463.3	8458.3	8442.9	8422.5
30°	8050.3	8045.2	8024.9	8024.9
32.5°	7515.1	7509.9	7489.5	7494.7
35°	6959.3	6979.7	6969.5	6949.2
37.5°	6495.3	6510.7	6520.9	6510.7
40°	6107.9	6153.7	6158.9	6169.1
42.5°	5694.9	5756.1	5776.5	5786.6
45°	5200.3	5256.5	5302.3	5292.1
47.5°	4695.5	4736.3	4777.1	4746.5
50°	4211.3	4236.7	4252.1	4252.1
52.5°	3752.4	3752.4	3747.4	3752.4
55°	3227.2	3227.2	3207.0	3217.0
57.5°	2676.6	2686.8	2671.5	2646.0
60°	2166.8	2141.3	2131.1	2115.9
62.5°	1687.6	1687.6	1651.9	1697.8
65°	1264.5	1249.1	1233.8	1228.6
67.5°	917.7	912.7	897.4	892.2
70°	647.5	627.1	622.0	611.7
72.5°	433.4	433.4	423.2	423.2
75°	265.1	239.7	234.5	239.7
77.5°	183.5	178.4	178.4	173.4
80°	122.4	117.3	127.5	112.1
82.5°	76.5	81.6	76.5	81.6
85°	51.0	61.1	56.2	56.2
87.5°	30.6	30.6	30.6	30.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)