

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: P250283

Luminaire Tested: **LD8B100D010 ER8B100930 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100930 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9156.4 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

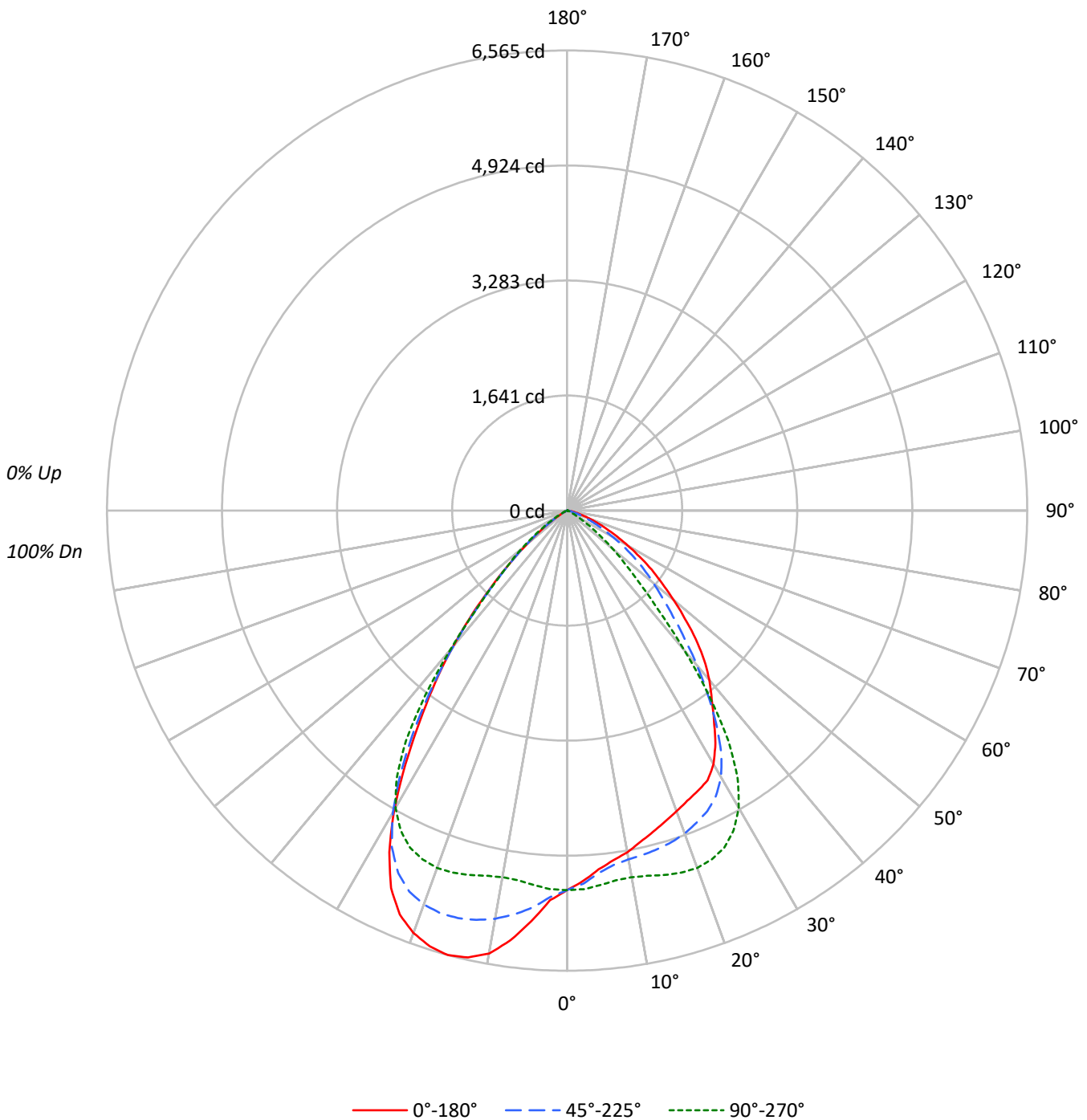
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

**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°	520.5	5.7
10°-20°	1557.8	17.0
20°-30°	2385.5	26.1
30°-40°	2338.6	25.5
40°-50°	1408.3	15.4
50°-60°	648.2	7.1
60°-70°	227.7	2.5
70°-80°	59.6	0.7
80°-90°	10.2	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°	4463.8	48.8
0°-40°	6802.4	74.3
0°-60°	8858.9	96.8
0°-90°	9156.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9156.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5414	5414	5414	5414	5414	
5°	5138	5186	5364	5685	5880	485
15°	4744	4999	5381	6019	6565	1340
25°	4412	4731	5306	5705	5943	2032
35°	3651	3701	4008	3777	3656	2286
45°	2593	2135	1447	1457	1495	1989
55°	1472	1166	415	326	314	1314
65°	625	433	66	33	35	637
75°	162	94	5	0	0	196
85°	25	13	2	0	0	35
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°	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2
2.5°	5287.6	5292.7	5292.7	5292.7	5302.8	5305.5	5302.8	5305.5	5310.4	5328.1	5335.7
5°	5138.4	5130.8	5135.9	5133.3	5146.0	5153.6	5148.5	5156.2	5173.9	5186.5	5199.1
7.5°	5032.2	5032.2	5032.2	5037.2	5044.8	5060.0	5057.5	5062.4	5080.1	5097.9	5115.6
10°	4948.7	4946.2	4946.2	4958.7	4968.8	4986.5	4991.7	5006.8	5029.6	5052.3	5072.6
12.5°	4839.8	4842.5	4855.1	4867.7	4890.5	4918.3	4933.4	4953.8	4989.1	5027.1	5049.9
15°	4743.7	4746.2	4756.4	4781.6	4809.5	4842.5	4875.2	4908.2	4951.1	4999.3	5039.8
17.5°	4650.1	4652.6	4660.2	4688.1	4723.6	4766.5	4804.4	4847.4	4903.1	4958.7	5009.4
20°	4564.0	4561.6	4574.2	4599.5	4645.1	4685.6	4723.6	4774.1	4834.9	4903.1	4961.3
22.5°	4480.5	4480.5	4493.3	4518.6	4559.1	4599.5	4640.0	4693.1	4753.8	4819.6	4888.0
25°	4412.3	4409.8	4427.5	4440.2	4470.4	4511.0	4554.0	4597.0	4657.8	4731.2	4796.9
27.5°	4338.9	4336.5	4338.9	4354.2	4382.0	4412.3	4445.2	4483.2	4533.8	4594.5	4657.8
30°	4177.1	4179.5	4179.5	4192.2	4207.4	4240.2	4257.9	4295.9	4341.4	4392.1	4447.8
32.5°	3936.6	3939.2	3939.2	3944.2	3956.9	3972.0	3987.3	4015.1	4050.5	4093.4	4144.1
35°	3650.8	3650.8	3648.2	3650.8	3658.4	3658.4	3671.1	3658.4	3676.1	3701.4	3739.3
37.5°	3387.7	3382.5	3377.6	3372.4	3364.9	3352.2	3334.5	3304.1	3296.5	3286.4	3288.9
40°	3154.9	3152.4	3137.2	3124.6	3099.2	3068.8	3025.9	2972.8	2929.7	2879.2	2836.1
42.5°	2896.9	2894.3	2881.6	2858.9	2831.1	2785.6	2717.2	2646.5	2560.4	2484.5	2406.1
45°	2593.2	2600.8	2583.1	2557.8	2524.9	2481.9	2406.1	2319.9	2233.9	2135.3	2036.6
47.5°	2277.0	2274.4	2261.8	2246.6	2218.8	2175.9	2125.2	2031.6	1940.5	1849.4	1748.2
50°	1983.5	1973.4	1968.3	1953.2	1935.5	1900.1	1846.8	1771.0	1690.0	1604.0	1510.4
52.5°	1705.3	1705.3	1692.5	1682.4	1667.3	1639.5	1593.9	1533.2	1464.9	1383.9	1285.2
55°	1472.4	1467.4	1454.8	1442.1	1426.9	1409.2	1368.7	1318.2	1244.8	1166.3	1080.3
57.5°	1224.6	1221.9	1217.0	1201.7	1194.1	1176.4	1131.0	1080.3	1017.1	948.8	877.9
60°	1001.9	991.7	981.5	971.5	958.9	941.2	910.8	867.8	814.6	754.0	683.1
62.5°	802.1	817.2	786.8	786.8	761.5	746.4	718.6	693.2	637.5	581.9	521.2
65°	625.0	625.0	612.2	602.1	587.0	569.2	541.4	516.1	475.6	432.6	389.5
67.5°	478.2	475.6	463.0	452.9	440.2	430.1	409.8	379.5	349.2	313.8	278.2
70°	351.7	349.2	346.6	328.9	318.8	306.1	291.0	270.7	248.0	222.6	189.8
72.5°	252.9	252.9	245.5	237.9	227.8	217.6	202.5	189.8	169.5	151.8	129.0
75°	162.0	159.4	159.4	146.7	146.7	131.5	121.4	113.8	103.7	93.6	73.4
77.5°	116.5	113.8	111.3	106.3	101.2	96.1	88.6	78.5	70.8	60.8	53.1
80°	78.5	73.4	70.8	70.8	63.2	60.8	63.2	48.1	45.5	37.9	33.0
82.5°	48.1	48.1	45.5	45.5	43.0	40.5	33.0	33.0	30.4	27.8	22.8
85°	25.3	33.0	22.8	25.3	22.8	25.3	22.8	17.7	15.2	12.6	12.6
87.5°	15.2	10.1	10.1	15.2	12.6	10.1	10.1	10.1	7.6	5.2	5.2
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°	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2
2.5°	5330.7	5348.4	5345.8	5368.7	5376.2	5393.9	5393.9	5406.6	5414.2	5431.8	5447.1
5°	5204.2	5232.0	5239.7	5267.5	5290.2	5318.0	5335.7	5363.5	5388.9	5426.9	5462.3
7.5°	5125.8	5148.5	5163.7	5196.6	5222.0	5252.2	5282.6	5320.5	5355.9	5401.5	5452.2
10°	5087.8	5118.1	5140.9	5173.9	5204.2	5237.1	5267.5	5310.4	5351.0	5409.2	5464.8
12.5°	5077.7	5113.1	5140.9	5186.5	5216.8	5252.2	5287.6	5335.7	5378.8	5439.4	5502.8
15°	5077.7	5125.8	5163.7	5214.3	5249.8	5295.3	5333.3	5381.2	5429.3	5492.6	5553.3
17.5°	5067.6	5125.8	5173.9	5232.0	5277.6	5323.2	5371.2	5416.8	5467.2	5528.1	5596.3
20°	5027.1	5100.6	5158.6	5226.9	5275.0	5325.6	5373.7	5424.3	5477.4	5540.7	5598.9
22.5°	4956.3	5042.3	5108.1	5181.4	5237.1	5287.6	5335.7	5386.4	5444.6	5505.2	5566.0
25°	4862.7	4943.6	5014.5	5090.2	5146.0	5201.7	5247.2	5305.5	5358.5	5416.8	5464.8
27.5°	4720.9	4807.0	4875.2	4953.8	5004.3	5057.5	5095.4	5143.5	5194.2	5242.1	5280.1
30°	4508.4	4586.9	4657.8	4728.5	4779.2	4817.2	4857.5	4895.5	4928.5	4961.3	4994.2
32.5°	4197.2	4268.1	4336.5	4402.2	4442.6	4475.6	4505.9	4528.7	4546.4	4564.0	4566.6
35°	3769.7	3827.9	3870.8	3929.1	3967.1	3997.4	3997.4	4007.5	4005.0	3997.4	3989.8
37.5°	3291.6	3314.2	3331.9	3354.7	3357.3	3357.3	3342.1	3329.5	3309.2	3304.1	3288.9
40°	2793.2	2762.7	2739.9	2709.7	2692.0	2654.0	2621.1	2598.3	2565.4	2560.4	2555.3
42.5°	2319.9	2249.2	2186.0	2132.8	2072.1	2018.9	1970.8	1935.5	1910.2	1907.6	1910.2
45°	1935.5	1854.5	1760.9	1687.6	1619.2	1553.4	1490.1	1447.2	1424.3	1419.3	1424.3
47.5°	1644.5	1550.9	1459.8	1376.3	1302.9	1229.5	1166.3	1108.1	1080.3	1072.7	1070.2
50°	1414.3	1318.2	1221.9	1135.9	1055.0	981.5	903.2	847.6	812.2	799.5	789.4
52.5°	1189.2	1103.1	1004.4	915.9	834.8	748.8	667.9	604.7	569.2	554.1	543.9
55°	991.7	905.8	814.6	728.6	642.7	556.6	475.6	414.9	377.0	359.3	346.6
57.5°	791.9	710.9	632.6	546.5	475.6	392.1	311.2	258.1	225.1	204.9	194.8
60°	612.2	549.0	480.7	409.8	341.6	273.3	207.4	156.8	131.5	116.5	103.7
62.5°	463.0	409.8	364.3	303.6	250.4	192.3	141.7	101.2	78.5	65.8	60.8
65°	333.9	293.5	252.9	215.0	177.1	134.2	96.1	65.8	45.5	37.9	35.4
67.5°	237.9	204.9	174.5	149.2	121.4	96.1	68.3	45.5	35.4	30.4	27.8
70°	166.9	141.7	121.4	98.8	80.9	63.2	53.1	33.0	20.2	22.8	17.7
72.5°	111.3	93.6	83.5	68.3	55.6	45.5	33.0	22.8	22.8	17.7	15.2
75°	60.8	55.6	43.0	33.0	27.8	25.3	10.1	5.2	2.5	7.6	2.5
77.5°	43.0	37.9	33.0	27.8	22.8	17.7	10.1	10.1	7.6	10.1	5.2
80°	27.8	22.8	20.2	20.2	12.6	7.6	5.2	5.2	7.6	2.5	2.5
82.5°	17.7	15.2	12.6	12.6	12.6	7.6	7.6	7.6	7.6	5.2	5.2
85°	10.1	7.6	5.2	5.2	2.5	5.2	0.0	2.5	2.5	0.0	0.0
87.5°	5.2	2.5	2.5	2.5	2.5	0.0	0.0	2.5	0.0	2.5	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2	5414.2
2.5°	5457.1	5467.2	5480.0	5490.1	5512.9	5517.9	5528.1	5538.2	5545.8	5553.3	5555.9
5°	5492.6	5530.6	5566.0	5603.9	5652.0	5684.9	5722.8	5755.8	5788.6	5816.4	5836.6
7.5°	5502.8	5560.8	5614.1	5679.8	5750.6	5811.5	5874.6	5937.8	6003.6	6054.3	6097.3
10°	5522.9	5593.8	5662.1	5740.5	5831.7	5912.6	5991.0	6074.5	6158.0	6228.8	6292.2
12.5°	5558.4	5636.8	5710.3	5796.2	5889.8	5980.9	6066.9	6160.5	6249.1	6327.5	6398.3
15°	5616.5	5689.9	5760.8	5841.8	5935.4	6018.9	6104.9	6195.9	6284.6	6365.5	6431.3
17.5°	5654.5	5722.8	5793.7	5867.1	5945.4	6021.3	6102.3	6183.3	6264.3	6337.7	6398.3
20°	5654.5	5720.4	5773.4	5839.3	5912.6	5978.4	6044.2	6114.9	6185.8	6246.5	6304.7
22.5°	5609.0	5672.3	5712.7	5763.3	5826.5	5882.2	5917.6	5996.1	6049.1	6102.3	6145.3
25°	5502.8	5548.3	5581.2	5616.5	5667.2	5705.1	5735.5	5781.0	5834.1	5854.4	5884.8
27.5°	5310.4	5343.4	5361.1	5368.7	5393.9	5414.2	5419.3	5439.4	5462.3	5467.2	5480.0
30°	5006.8	5009.4	5001.8	4999.3	4986.5	4971.5	4968.8	4966.4	4956.3	4946.2	4948.7
32.5°	4548.9	4536.2	4505.9	4473.1	4440.2	4404.7	4384.5	4359.1	4344.0	4328.9	4311.1
35°	3956.9	3926.5	3883.6	3843.0	3805.1	3777.2	3731.7	3716.6	3701.4	3681.1	3676.1
37.5°	3261.1	3243.4	3202.9	3172.7	3152.4	3139.7	3116.9	3101.8	3101.8	3094.2	3089.1
40°	2542.5	2537.6	2522.4	2530.0	2519.9	2524.9	2522.4	2517.3	2530.0	2530.0	2535.1
42.5°	1907.6	1910.2	1917.8	1922.7	1938.0	1940.5	1953.2	1953.2	1960.7	1968.3	1973.4
45°	1419.3	1429.5	1429.5	1439.6	1454.8	1457.3	1462.2	1464.9	1469.9	1482.6	1487.6
47.5°	1065.1	1067.6	1067.6	1070.2	1075.3	1080.3	1077.8	1080.3	1087.9	1082.8	1087.9
50°	786.8	789.4	781.8	774.2	781.8	781.8	779.2	771.7	779.2	769.1	774.2
52.5°	536.4	533.8	526.2	528.8	523.7	521.2	521.2	516.1	516.1	516.1	506.0
55°	339.1	339.1	333.9	333.9	331.5	326.3	323.9	321.3	318.8	316.2	316.2
57.5°	189.8	192.3	184.7	182.2	184.7	182.2	177.1	177.1	177.1	169.5	174.5
60°	103.7	101.2	98.8	96.1	93.6	96.1	96.1	91.1	91.1	91.1	93.6
62.5°	55.6	55.6	53.1	53.1	50.6	50.6	55.6	48.1	50.6	48.1	50.6
65°	30.4	37.9	27.8	27.8	35.4	33.0	30.4	30.4	33.0	27.8	30.4
67.5°	33.0	22.8	20.2	22.8	20.2	20.2	20.2	25.3	22.8	17.7	22.8
70°	15.2	17.7	17.7	12.6	20.2	10.1	17.7	10.1	15.2	12.6	15.2
72.5°	15.2	15.2	15.2	10.1	15.2	10.1	12.6	12.6	10.1	10.1	15.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.2	5.2	2.5	2.5	2.5	2.5	5.2	5.2	5.2	0.0	2.5
80°	5.2	5.2	0.0	2.5	0.0	0.0	2.5	0.0	2.5	0.0	5.2
82.5°	2.5	5.2	2.5	2.5	5.2	5.2	5.2	2.5	2.5	2.5	2.5
85°	0.0	2.5	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	2.5
87.5°	0.0	2.5	0.0	0.0	0.0	0.0	2.5	2.5	0.0	0.0	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





TEST NUMBER: P250283

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	5414.2	5414.2	5414.2	5414.2
2.5°	5558.4	5560.8	5566.0	5563.5
5°	5851.8	5872.1	5882.2	5879.8
7.5°	6127.6	6163.1	6183.3	6183.3
10°	6340.2	6380.6	6411.0	6416.0
12.5°	6453.9	6499.6	6540.0	6529.8
15°	6486.9	6532.5	6572.9	6565.2
17.5°	6449.0	6494.5	6524.9	6519.7
20°	6345.2	6383.2	6413.6	6411.0
22.5°	6183.3	6216.2	6241.5	6238.9
25°	5910.0	5932.9	5953.1	5943.0
27.5°	5490.1	5497.7	5510.3	5495.1
30°	4930.9	4936.0	4941.0	4938.6
32.5°	4303.5	4300.9	4295.9	4290.9
35°	3668.5	3668.5	3671.1	3655.8
37.5°	3091.6	3089.1	3096.7	3089.1
40°	2540.1	2537.6	2547.7	2535.1
42.5°	1981.0	1988.5	1991.1	1991.1
45°	1490.1	1492.7	1495.2	1495.2
47.5°	1087.9	1090.4	1103.1	1087.9
50°	769.1	771.7	774.2	769.1
52.5°	508.5	511.1	508.5	500.9
55°	311.2	313.8	313.8	313.8
57.5°	166.9	169.5	169.5	166.9
60°	91.1	88.6	91.1	86.0
62.5°	48.1	53.1	50.6	45.5
65°	30.4	30.4	30.4	35.4
67.5°	25.3	20.2	22.8	17.7
70°	15.2	17.7	17.7	12.6
72.5°	12.6	12.6	12.6	15.2
75°	0.0	0.0	0.0	0.0
77.5°	5.2	5.2	5.2	2.5
80°	2.5	0.0	2.5	0.0
82.5°	2.5	2.5	5.2	2.5
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)