

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: P248511

Luminaire Tested: **LD8B120D010 ER8B120940 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248511
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: LD8B120D010 ER8B120940 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11223.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

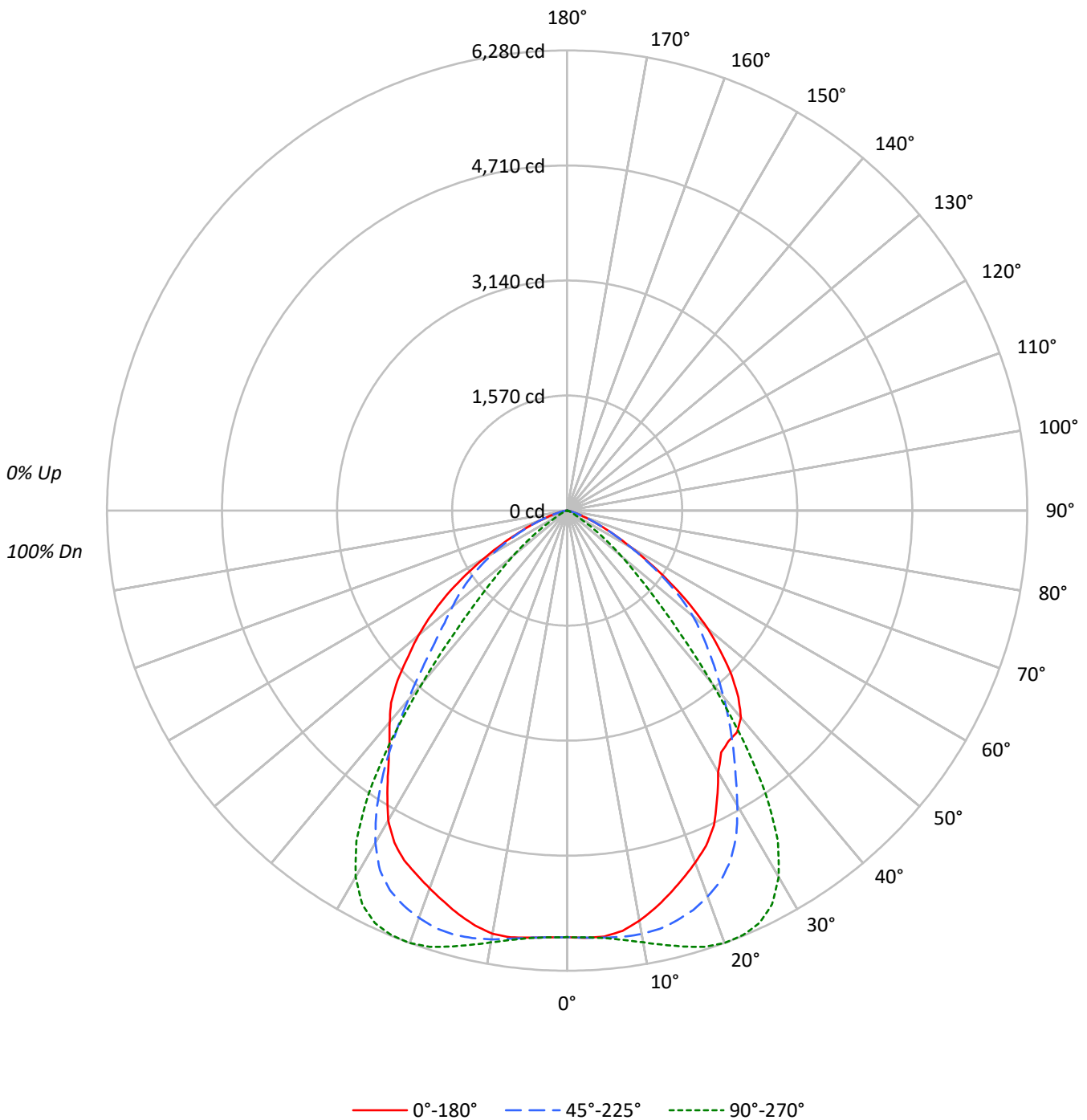
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	179532	179532	179532
5°	180602	181270	181078
10°	177946	187337	183657
15°	172745	196621	182216
20°	167732	206064	180002
25°	161291	211341	179168
30°	146785	205547	173857
35°	144599	178106	159958
40°	148529	123527	151637
45°	138271	74659	142584
50°	119932	46107	127051
55°	92040	24091	107824
60°	62703	9720	81383
65°	39007	4962	56147
70°	21178	3065	34270
75°	11044	1465	20254
80°	4937	1651	10974
85°	3290	1097	9836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.9	5.0
10°-20°	1658.6	14.8
20°-30°	2530.4	22.5
30°-40°	2640.5	23.5
40°-50°	1983.4	17.7
50°-60°	1220.3	10.9
60°-70°	496.6	4.4
70°-80°	117.0	1.0
80°-90°	16.1	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°	4749.0	42.3
0°-40°	7389.5	65.8
0°-60°	10593.2	94.4
0°-90°	11223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11223.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5822	5822	5822	5822	5822	
5°	5834	5850	5856	5850	5850	552
15°	5411	5791	6159	5989	5708	1524
25°	4740	5272	6212	5720	5266	2155
35°	3841	3949	4731	4373	4249	2425
45°	3171	2744	1712	2556	3270	2419
55°	1712	1626	448	1626	2006	1539
65°	535	541	68	726	770	558
75°	93	93	12	164	170	112
85°	9	9	3	22	28	13
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°	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1
2.5°	5837.6	5828.3	5837.6	5837.6	5840.7	5834.5	5837.6	5840.7	5834.5	5834.5	5834.5
5°	5834.5	5828.3	5834.5	5831.4	5837.6	5837.6	5843.8	5843.8	5849.9	5849.9	5859.2
7.5°	5785.0	5772.7	5785.0	5794.3	5800.5	5812.9	5828.3	5840.7	5853.0	5865.4	5880.8
10°	5683.0	5683.0	5692.3	5710.9	5729.4	5751.0	5778.8	5809.8	5840.7	5868.4	5896.3
12.5°	5556.4	5547.1	5565.6	5590.3	5618.2	5652.2	5695.4	5741.8	5791.2	5846.8	5890.1
15°	5411.1	5401.8	5423.5	5448.2	5482.2	5531.7	5584.2	5646.0	5717.1	5791.2	5862.3
17.5°	5262.8	5259.7	5281.3	5315.3	5343.2	5395.6	5463.7	5537.8	5618.2	5717.1	5809.8
20°	5111.4	5108.3	5129.9	5157.7	5194.8	5244.2	5312.2	5398.7	5494.5	5605.8	5714.0
22.5°	4953.7	4956.8	4975.4	5006.3	5037.2	5089.7	5160.8	5247.3	5352.4	5472.9	5593.4
25°	4740.5	4725.1	4749.8	4780.7	4833.2	4876.5	4944.5	5037.2	5145.3	5272.1	5414.2
27.5°	4431.5	4428.4	4450.1	4477.8	4524.2	4576.7	4650.9	4746.7	4861.0	5000.1	5139.1
30°	4122.4	4128.6	4137.9	4165.8	4196.6	4249.2	4323.3	4403.7	4511.8	4644.7	4793.1
32.5°	3912.3	3912.3	3924.7	3943.2	3964.9	3992.7	4045.2	4103.9	4187.4	4280.1	4388.2
35°	3841.2	3828.9	3841.2	3844.3	3847.4	3853.6	3862.8	3881.4	3909.2	3949.4	3989.6
37.5°	3810.4	3801.1	3801.1	3788.7	3773.2	3754.7	3730.0	3702.2	3671.3	3631.1	3600.2
40°	3689.8	3683.6	3677.4	3665.1	3631.1	3594.0	3553.8	3488.9	3417.9	3319.0	3220.1
42.5°	3458.1	3451.9	3448.8	3424.1	3393.1	3349.9	3303.5	3235.5	3145.9	3019.2	2877.1
45°	3170.7	3158.3	3149.0	3127.4	3105.7	3068.7	3025.4	2963.6	2874.0	2744.2	2574.2
47.5°	2836.9	2830.7	2827.6	2818.4	2796.8	2775.1	2747.3	2697.9	2617.5	2493.8	2317.7
50°	2500.0	2487.7	2493.8	2490.8	2481.5	2466.1	2447.5	2413.5	2351.7	2240.5	2079.8
52.5°	2113.7	2113.7	2110.7	2119.9	2123.0	2119.9	2123.0	2086.0	2033.4	1950.0	1814.0
55°	1712.0	1712.0	1721.3	1733.7	1746.0	1749.1	1746.0	1730.6	1693.5	1625.5	1505.0
57.5°	1335.0	1328.8	1347.4	1365.9	1378.3	1390.6	1381.3	1369.0	1347.4	1291.7	1199.0
60°	1016.7	1016.7	1029.0	1041.4	1053.8	1066.2	1063.1	1060.0	1041.4	1004.3	930.2
62.5°	747.8	750.9	750.9	760.2	772.6	785.0	794.2	785.0	775.7	750.9	701.5
65°	534.6	531.5	534.6	543.9	553.2	565.5	571.7	568.6	559.3	540.8	503.7
67.5°	358.5	355.4	367.7	370.8	377.0	389.4	386.3	389.4	386.3	370.8	340.0
70°	234.9	228.7	234.9	231.8	241.1	244.2	250.3	253.4	250.3	241.1	231.8
72.5°	145.3	142.2	145.3	148.4	151.5	154.5	160.7	160.7	157.6	151.5	139.1
75°	92.7	83.4	86.5	80.4	86.5	86.5	92.7	95.8	92.7	92.7	86.5
77.5°	55.7	55.7	55.7	55.7	55.7	55.7	55.7	58.8	61.8	55.7	52.6
80°	27.8	27.8	30.9	30.9	30.9	34.0	30.9	30.9	30.9	34.0	24.7
82.5°	21.6	18.5	18.5	18.5	21.6	18.5	18.5	18.5	18.5	18.5	18.5
85°	9.3	12.3	9.3	6.2	9.3	9.3	12.3	9.3	9.3	9.3	12.3
87.5°	3.1	3.1	0.0	0.0	0.0	3.1	0.0	3.1	3.1	6.2	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°	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1
2.5°	5837.6	5831.4	5831.4	5828.3	5834.5	5828.3	5831.4	5828.3	5828.3	5834.5	5828.3
5°	5859.2	5862.3	5856.1	5853.0	5862.3	5862.3	5862.3	5856.1	5856.1	5859.2	5856.1
7.5°	5890.1	5896.3	5899.4	5902.5	5908.7	5911.8	5911.8	5908.7	5905.6	5914.9	5902.5
10°	5924.1	5933.4	5951.9	5961.2	5976.7	5976.7	5982.9	5982.9	5976.7	5982.9	5979.8
12.5°	5911.8	5967.4	5998.3	6019.9	6041.5	6060.1	6066.3	6069.4	6066.3	6078.7	6066.3
15°	5933.4	5979.8	6029.2	6066.3	6106.4	6128.0	6134.2	6159.0	6165.2	6168.3	6149.7
17.5°	5899.4	5982.9	6035.3	6091.0	6149.7	6189.9	6226.9	6242.4	6245.5	6251.7	6226.9
20°	5822.1	5914.9	5995.2	6075.6	6143.5	6205.3	6236.2	6279.5	6267.2	6291.9	6257.9
22.5°	5717.1	5822.1	5924.1	6029.2	6100.3	6174.5	6239.3	6270.2	6285.7	6285.7	6248.6
25°	5550.2	5673.8	5785.0	5893.2	6001.4	6091.0	6165.2	6211.5	6220.8	6217.7	6174.5
27.5°	5290.6	5423.5	5553.3	5676.9	5809.8	5914.9	6001.4	6057.0	6072.5	6072.5	6026.1
30°	4932.1	5074.3	5201.0	5349.3	5485.3	5602.7	5723.3	5772.7	5800.5	5800.5	5748.0
32.5°	4505.6	4626.2	4743.6	4888.9	5037.2	5170.1	5284.4	5352.4	5386.4	5383.3	5337.0
35°	4042.1	4100.8	4190.5	4298.6	4431.5	4555.1	4666.3	4731.3	4790.0	4786.9	4743.6
37.5°	3578.5	3563.1	3572.4	3612.6	3696.0	3782.5	3869.0	3930.9	3980.3	4002.0	3992.7
40°	3124.3	3043.9	2966.7	2938.9	2945.0	2976.0	3022.3	3068.7	3124.3	3152.1	3164.5
42.5°	2716.4	2580.4	2444.4	2342.5	2283.7	2265.2	2286.8	2302.2	2336.3	2376.4	2416.6
45°	2388.8	2206.5	2027.2	1869.6	1770.7	1712.0	1699.7	1712.0	1730.6	1770.7	1823.3
47.5°	2119.9	1906.7	1705.9	1529.7	1384.4	1307.2	1285.6	1279.4	1297.9	1335.0	1406.1
50°	1882.0	1668.7	1446.3	1242.3	1090.9	1004.3	973.5	961.1	982.7	1010.5	1075.4
52.5°	1622.4	1412.3	1183.6	985.8	828.2	738.6	704.6	686.1	698.4	735.5	800.4
55°	1341.2	1146.5	939.4	735.5	584.0	500.6	460.4	448.1	460.4	500.6	565.5
57.5°	1060.0	896.2	723.1	531.5	395.5	312.1	271.9	259.6	293.6	309.0	377.0
60°	828.2	695.4	547.0	389.4	271.9	207.0	166.9	157.6	173.1	200.8	256.5
62.5°	621.2	537.7	420.3	278.1	200.8	132.9	111.2	102.0	111.2	132.9	176.2
65°	451.2	386.3	293.6	203.9	136.0	98.9	74.2	68.0	77.3	92.7	129.8
67.5°	309.0	259.6	203.9	142.2	92.7	61.8	52.6	52.6	55.7	68.0	95.8
70°	200.8	170.0	129.8	92.7	61.8	46.4	40.2	34.0	40.2	49.5	64.9
72.5°	126.7	108.1	83.4	64.9	46.4	34.0	27.8	24.7	30.9	37.1	49.5
75°	77.3	58.8	43.3	34.0	24.7	24.7	24.7	12.3	15.4	24.7	30.9
77.5°	46.4	40.2	34.0	27.8	21.6	12.3	12.3	12.3	15.4	18.5	27.8
80°	24.7	21.6	15.4	15.4	12.3	9.3	12.3	9.3	6.2	15.4	18.5
82.5°	15.4	12.3	12.3	12.3	15.4	6.2	9.3	6.2	9.3	12.3	9.3
85°	9.3	9.3	9.3	6.2	15.4	6.2	6.2	3.1	3.1	6.2	6.2
87.5°	0.0	3.1	3.1	0.0	3.1	0.0	3.1	3.1	3.1	3.1	3.1
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°	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1	5822.1
2.5°	5831.4	5828.3	5831.4	5828.3	5828.3	5828.3	5831.4	5831.4	5828.3	5828.3	5834.5
5°	5856.1	5856.1	5856.1	5853.0	5849.9	5849.9	5856.1	5856.1	5846.8	5856.1	5856.1
7.5°	5908.7	5899.4	5908.7	5896.3	5890.1	5893.2	5896.3	5890.1	5883.9	5887.0	5887.0
10°	5976.7	5967.4	5967.4	5958.1	5948.8	5942.6	5936.5	5921.0	5905.6	5902.5	5890.1
12.5°	6057.0	6041.5	6032.3	6013.7	5998.3	5976.7	5958.1	5933.4	5902.5	5880.8	5859.2
15°	6137.3	6112.6	6091.0	6060.1	6026.1	5989.0	5948.8	5908.7	5859.2	5816.0	5778.8
17.5°	6202.2	6168.3	6128.0	6078.7	6029.2	5973.6	5914.9	5856.1	5785.0	5729.4	5686.1
20°	6223.8	6174.5	6121.9	6057.0	5992.1	5914.9	5840.7	5763.4	5683.0	5624.4	5574.9
22.5°	6196.1	6137.3	6072.5	6004.5	5917.9	5834.5	5748.0	5658.3	5587.2	5506.9	5460.6
25°	6118.8	6047.7	5976.7	5896.3	5812.9	5720.2	5627.5	5534.8	5448.2	5404.9	5346.3
27.5°	5961.2	5883.9	5806.7	5723.3	5627.5	5534.8	5439.0	5349.3	5275.2	5216.4	5182.5
30°	5683.0	5593.4	5503.8	5414.2	5330.8	5234.9	5145.3	5071.2	4997.0	4950.6	4916.7
32.5°	5256.6	5176.3	5086.7	5000.1	4922.9	4842.5	4768.3	4703.5	4650.9	4620.0	4595.3
35°	4681.8	4601.4	4533.5	4471.7	4406.7	4372.8	4326.4	4289.3	4267.7	4255.4	4252.3
37.5°	3958.7	3912.3	3890.7	3878.3	3865.9	3856.7	3862.8	3878.3	3890.7	3912.3	3937.0
40°	3186.1	3226.2	3238.6	3281.9	3322.1	3374.6	3433.4	3501.3	3556.9	3628.0	3677.4
42.5°	2481.5	2555.7	2642.2	2734.9	2833.8	2929.6	3047.0	3155.2	3254.1	3343.7	3421.0
45°	1906.7	2021.0	2150.9	2283.7	2416.6	2555.7	2697.9	2830.7	2948.1	3043.9	3124.3
47.5°	1486.4	1613.2	1780.0	1943.8	2104.5	2268.3	2425.9	2564.9	2663.8	2756.5	2827.6
50°	1177.4	1322.7	1505.0	1693.5	1869.6	2042.7	2209.5	2339.4	2438.3	2512.4	2564.9
52.5°	911.6	1084.7	1270.1	1467.9	1656.4	1844.9	1999.4	2119.9	2200.3	2265.2	2305.3
55°	679.9	849.8	1047.6	1251.6	1443.2	1625.5	1770.7	1875.8	1946.9	1984.0	2005.6
57.5°	491.3	645.9	843.6	1047.6	1220.6	1393.7	1511.2	1607.0	1647.1	1668.7	1678.0
60°	358.5	500.6	676.8	852.9	1016.7	1155.8	1257.8	1322.7	1353.6	1365.9	1362.8
62.5°	262.7	386.3	537.7	686.1	818.9	933.2	1013.6	1056.9	1072.4	1078.5	1069.3
65°	200.8	296.6	426.5	540.8	642.8	726.2	785.0	812.8	822.0	818.9	812.8
67.5°	148.4	222.5	318.3	404.8	479.0	543.9	574.8	599.5	605.7	596.4	587.1
70°	105.1	163.8	231.8	290.5	346.1	383.2	417.2	420.3	420.3	417.2	411.0
72.5°	74.2	114.3	157.6	197.8	231.8	259.6	271.9	281.2	278.1	275.0	268.9
75°	49.5	71.1	114.3	123.6	154.5	163.8	176.2	176.2	179.2	170.0	170.0
77.5°	30.9	49.5	68.0	80.4	92.7	105.1	111.2	111.2	114.3	111.2	111.2
80°	18.5	30.9	37.1	55.7	55.7	64.9	68.0	71.1	64.9	74.2	64.9
82.5°	12.3	18.5	27.8	27.8	34.0	40.2	40.2	43.3	43.3	40.2	40.2
85°	9.3	12.3	15.4	18.5	18.5	21.6	18.5	18.5	21.6	24.7	21.6
87.5°	3.1	6.2	3.1	6.2	6.2	12.3	9.3	9.3	9.3	12.3	12.3
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: P248511

CATALOG NUMBER: LD8B120D010 ER8B120940 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5822.1	5822.1	5822.1	5822.1
2.5°	5828.3	5831.4	5828.3	5828.3
5°	5856.1	5853.0	5856.1	5849.9
7.5°	5877.7	5877.7	5874.6	5874.6
10°	5877.7	5865.4	5865.4	5865.4
12.5°	5831.4	5816.0	5806.7	5800.5
15°	5751.0	5723.3	5710.9	5707.8
17.5°	5646.0	5621.3	5605.8	5596.5
20°	5525.5	5500.7	5482.2	5485.3
22.5°	5420.4	5392.6	5380.2	5374.0
25°	5315.3	5281.3	5272.1	5265.9
27.5°	5145.3	5126.8	5117.5	5108.3
30°	4885.8	4876.5	4861.0	4882.7
32.5°	4586.0	4570.5	4558.2	4567.5
35°	4255.4	4246.1	4255.4	4249.2
37.5°	3952.5	3961.8	3974.1	3980.3
40°	3714.6	3748.5	3760.9	3767.0
42.5°	3476.6	3516.8	3541.5	3556.9
45°	3183.0	3223.1	3251.0	3269.6
47.5°	2880.2	2914.2	2941.9	2938.9
50°	2605.1	2623.7	2636.0	2648.4
52.5°	2327.0	2327.0	2330.1	2330.1
55°	2011.8	2005.6	2002.5	2005.6
57.5°	1665.6	1659.5	1656.4	1647.1
60°	1350.5	1331.9	1319.6	1319.6
62.5°	1056.9	1035.2	1026.0	1022.9
65°	794.2	791.1	772.6	769.5
67.5°	574.8	562.4	550.1	553.2
70°	404.8	386.3	386.3	380.1
72.5°	262.7	253.4	250.3	250.3
75°	163.8	163.8	157.6	170.0
77.5°	108.1	108.1	105.1	108.1
80°	64.9	64.9	64.9	61.8
82.5°	40.2	43.3	40.2	40.2
85°	21.6	24.7	18.5	27.8
87.5°	12.3	15.4	12.3	15.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)