

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: P248448

Luminaire Tested: **LD8B120D010 ER8B120830 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248448
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 ER8B120830 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12117.0 lumens
Efficiency: N/A
Efficacy: 102.4 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

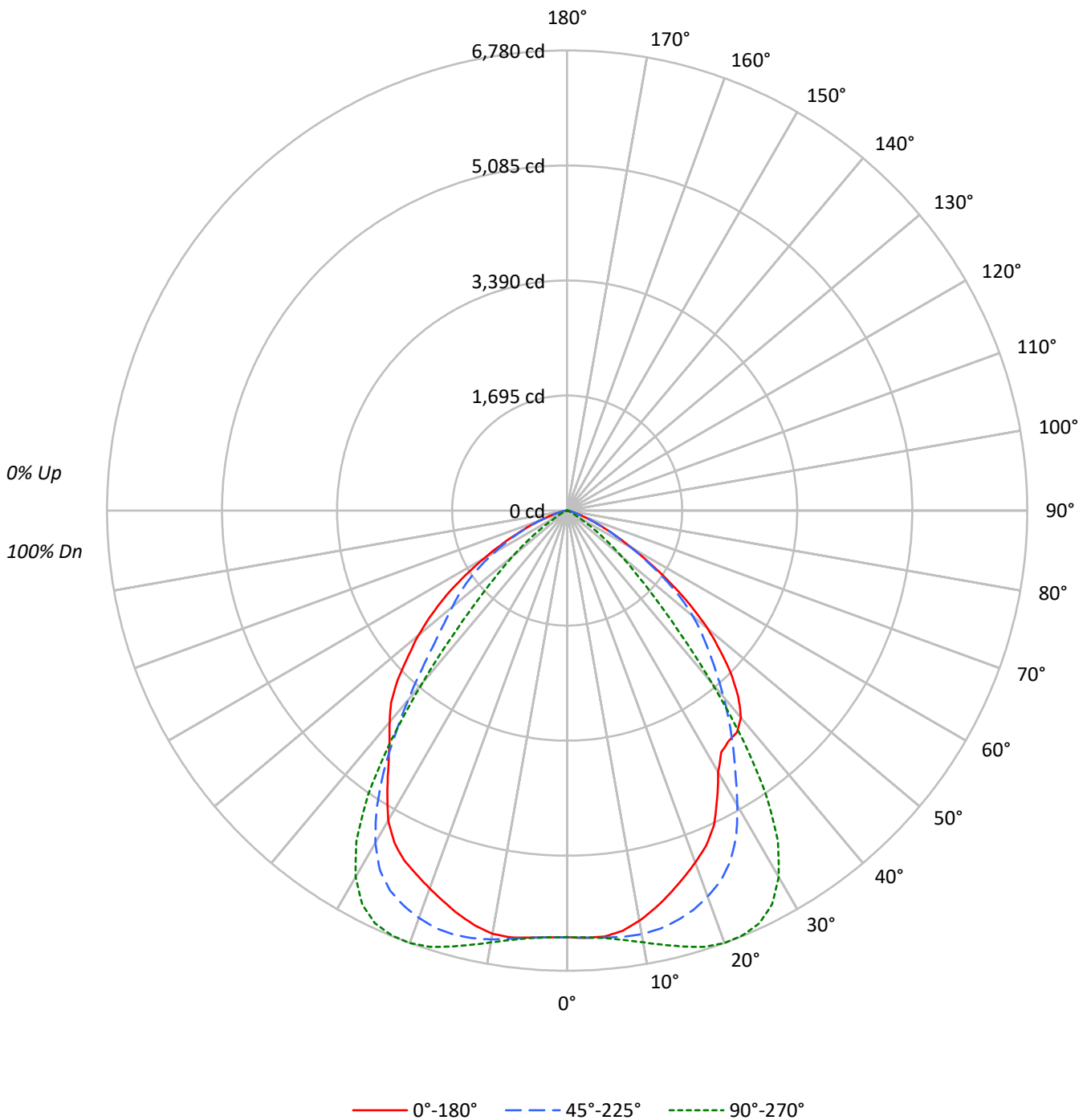
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	193834	193834	193834
5°	194989	195710	195503
10°	192121	202257	198286
15°	186507	212283	196729
20°	181095	222478	194342
25°	174139	228176	193437
30°	158478	221922	187704
35°	156118	192294	172696
40°	160364	133365	163717
45°	149283	80607	153940
50°	129488	49777	137173
55°	99373	26010	116415
60°	67698	10491	87865
65°	42115	5356	60612
70°	22864	3309	37001
75°	11926	1585	21863
80°	5327	1776	11845
85°	3538	1168	10614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.5	5.0
10°-20°	1790.8	14.8
20°-30°	2732.0	22.5
30°-40°	2850.9	23.5
40°-50°	2141.4	17.7
50°-60°	1317.5	10.9
60°-70°	536.2	4.4
70°-80°	126.3	1.0
80°-90°	17.4	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°	5127.3	42.3
0°-40°	7978.2	65.8
0°-60°	11437.1	94.4
0°-90°	12117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12117.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6286	6286	6286	6286	6286	
5°	6299	6316	6323	6316	6316	596
15°	5842	6253	6650	6466	6162	1646
25°	5118	5692	6706	6176	5685	2327
35°	4147	4264	5108	4721	4588	2619
45°	3423	2963	1848	2759	3530	2612
55°	1848	1755	484	1755	2165	1661
65°	577	584	73	784	831	602
75°	100	100	13	177	184	121
85°	10	10	3	23	30	14
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°	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9
2.5°	6302.6	6292.6	6302.6	6302.6	6306.0	6299.3	6302.6	6306.0	6299.3	6299.3	6299.3
5°	6299.3	6292.6	6299.3	6295.9	6302.6	6302.6	6309.3	6309.3	6315.9	6315.9	6326.0
7.5°	6245.9	6232.6	6245.9	6255.9	6262.5	6275.9	6292.6	6306.0	6319.3	6332.6	6349.3
10°	6135.7	6135.7	6145.8	6165.8	6185.8	6209.1	6239.2	6272.6	6306.0	6335.9	6366.0
12.5°	5999.0	5989.0	6009.0	6035.7	6065.7	6102.4	6149.1	6199.2	6252.6	6312.6	6359.3
15°	5842.2	5832.1	5855.5	5882.2	5918.9	5972.3	6029.0	6095.7	6172.5	6252.6	6329.3
17.5°	5682.0	5678.6	5702.0	5738.7	5768.8	5825.4	5898.9	5978.9	6065.7	6172.5	6272.6
20°	5518.6	5515.2	5538.6	5568.6	5608.6	5662.0	5735.4	5828.8	5932.2	6052.4	6169.1
22.5°	5348.3	5351.7	5371.7	5405.1	5438.5	5495.1	5571.9	5665.3	5778.7	5908.9	6039.0
25°	5118.1	5101.5	5128.2	5161.6	5218.2	5264.9	5338.4	5438.5	5555.2	5692.0	5845.5
27.5°	4784.5	4781.1	4804.6	4834.5	4884.6	4941.3	5021.4	5124.8	5248.3	5398.4	5548.5
30°	4450.8	4457.5	4467.6	4497.6	4530.9	4587.6	4667.7	4754.5	4871.2	5014.7	5174.9
32.5°	4223.9	4223.9	4237.3	4257.3	4280.7	4310.7	4367.5	4430.8	4520.9	4621.0	4737.8
35°	4147.2	4133.9	4147.2	4150.6	4153.9	4160.6	4170.6	4190.6	4220.6	4264.0	4307.4
37.5°	4113.9	4103.9	4103.9	4090.5	4073.8	4053.8	4027.1	3997.1	3963.8	3920.3	3887.0
40°	3983.8	3977.1	3970.4	3957.1	3920.3	3880.3	3836.9	3766.9	3690.1	3583.3	3476.6
42.5°	3733.5	3726.8	3723.5	3696.8	3663.4	3616.7	3566.7	3493.3	3396.5	3259.7	3106.2
45°	3423.2	3409.9	3399.9	3376.5	3353.1	3313.1	3266.4	3199.6	3102.9	2962.8	2779.3
47.5°	3062.9	3056.2	3052.8	3042.9	3019.5	2996.1	2966.1	2912.8	2826.0	2692.5	2502.4
50°	2699.2	2685.9	2692.5	2689.2	2679.2	2662.5	2642.5	2605.8	2539.0	2418.9	2245.4
52.5°	2282.1	2282.1	2278.8	2288.8	2292.1	2288.8	2292.1	2252.1	2195.4	2105.3	1958.5
55°	1848.4	1848.4	1858.4	1871.8	1885.1	1888.4	1885.1	1868.4	1828.4	1755.0	1624.8
57.5°	1441.3	1434.7	1454.7	1474.7	1488.1	1501.4	1491.4	1478.1	1454.7	1394.6	1294.5
60°	1097.7	1097.7	1111.0	1124.4	1137.7	1151.1	1147.7	1144.4	1124.4	1084.3	1004.3
62.5°	807.4	810.7	810.7	820.8	834.1	847.5	857.4	847.5	837.4	810.7	757.4
65°	577.2	573.8	577.2	587.2	597.3	610.6	617.3	613.9	603.9	583.9	543.9
67.5°	387.0	383.7	397.0	400.4	407.0	420.4	417.1	420.4	417.1	400.4	367.0
70°	253.6	246.9	253.6	250.2	260.3	263.6	270.2	273.6	270.2	260.3	250.2
72.5°	156.8	153.5	156.8	160.2	163.5	166.8	173.5	173.5	170.1	163.5	150.1
75°	100.1	90.0	93.4	86.8	93.4	93.4	100.1	103.4	100.1	100.1	93.4
77.5°	60.1	60.1	60.1	60.1	60.1	60.1	60.1	63.4	66.7	60.1	56.7
80°	30.0	30.0	33.4	33.4	33.4	36.7	33.4	33.4	33.4	36.7	26.7
82.5°	23.3	20.0	20.0	20.0	23.3	20.0	20.0	20.0	20.0	20.0	20.0
85°	10.0	13.3	10.0	6.7	10.0	10.0	13.3	10.0	10.0	10.0	13.3
87.5°	3.3	3.3	0.0	0.0	0.0	3.3	0.0	3.3	3.3	6.7	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°	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9
2.5°	6302.6	6295.9	6295.9	6292.6	6299.3	6292.6	6295.9	6292.6	6292.6	6299.3	6292.6
5°	6326.0	6329.3	6322.6	6319.3	6329.3	6329.3	6329.3	6322.6	6322.6	6326.0	6322.6
7.5°	6359.3	6366.0	6369.3	6372.7	6379.3	6382.7	6382.7	6379.3	6376.0	6386.0	6372.7
10°	6396.0	6406.0	6426.0	6436.1	6452.7	6452.7	6459.4	6459.4	6452.7	6459.4	6456.1
12.5°	6382.7	6442.7	6476.1	6499.4	6522.8	6542.8	6549.5	6552.8	6549.5	6562.9	6549.5
15°	6406.0	6456.1	6509.5	6549.5	6592.8	6616.2	6622.9	6649.6	6656.3	6659.6	6639.6
17.5°	6369.3	6459.4	6516.1	6576.2	6639.6	6683.0	6723.0	6739.7	6743.0	6749.7	6723.0
20°	6285.9	6386.0	6472.7	6559.5	6632.9	6699.6	6733.0	6779.7	6766.4	6793.1	6756.4
22.5°	6172.5	6285.9	6396.0	6509.5	6586.2	6666.3	6736.3	6769.7	6786.4	6786.4	6746.3
25°	5992.3	6125.8	6245.9	6362.6	6479.4	6576.2	6656.3	6706.3	6716.3	6713.0	6666.3
27.5°	5712.0	5855.5	5995.6	6129.1	6272.6	6386.0	6479.4	6539.4	6556.2	6556.2	6506.1
30°	5325.0	5478.5	5615.3	5775.4	5922.3	6049.0	6179.2	6232.6	6262.5	6262.5	6205.9
32.5°	4864.6	4994.7	5121.5	5278.3	5438.5	5581.9	5705.3	5778.7	5815.5	5812.1	5762.1
35°	4364.1	4427.5	4524.3	4641.0	4784.5	4917.9	5038.0	5108.2	5171.5	5168.2	5121.5
37.5°	3863.6	3846.9	3857.0	3900.3	3990.4	4083.9	4177.2	4244.0	4297.3	4320.8	4310.7
40°	3373.2	3286.4	3203.0	3173.0	3179.6	3213.0	3263.1	3313.1	3373.2	3403.2	3416.5
42.5°	2932.8	2786.0	2639.1	2529.1	2465.6	2445.6	2469.0	2485.6	2522.4	2565.7	2609.1
45°	2579.1	2382.3	2188.7	2018.6	1911.8	1848.4	1835.1	1848.4	1868.4	1911.8	1968.5
47.5°	2288.8	2058.6	1841.7	1651.5	1494.7	1411.4	1388.0	1381.3	1401.3	1441.3	1518.1
50°	2031.9	1801.7	1561.5	1341.2	1177.8	1084.3	1051.0	1037.6	1061.0	1091.0	1161.1
52.5°	1751.6	1524.8	1277.9	1064.3	894.2	797.4	760.7	740.7	754.0	794.1	864.1
55°	1448.0	1237.8	1014.3	794.1	630.6	540.5	497.1	483.8	497.1	540.5	610.6
57.5°	1144.4	967.6	780.7	573.8	427.0	337.0	293.6	280.3	317.0	333.7	407.0
60°	894.2	750.7	590.6	420.4	293.6	223.5	180.2	170.1	186.9	216.8	276.9
62.5°	670.7	580.5	453.7	300.3	216.8	143.4	120.1	110.1	120.1	143.4	190.2
65°	487.1	417.1	317.0	220.2	146.8	106.8	80.1	73.4	83.4	100.1	140.2
67.5°	333.7	280.3	220.2	153.5	100.1	66.7	56.7	56.7	60.1	73.4	103.4
70°	216.8	183.5	140.2	100.1	66.7	50.0	43.4	36.7	43.4	53.4	70.0
72.5°	136.8	116.7	90.0	70.0	50.0	36.7	30.0	26.7	33.4	40.0	53.4
75°	83.4	63.4	46.7	36.7	26.7	26.7	26.7	13.3	16.7	26.7	33.4
77.5°	50.0	43.4	36.7	30.0	23.3	13.3	13.3	13.3	16.7	20.0	30.0
80°	26.7	23.3	16.7	16.7	13.3	10.0	13.3	10.0	6.7	16.7	20.0
82.5°	16.7	13.3	13.3	13.3	16.7	6.7	10.0	6.7	10.0	13.3	10.0
85°	10.0	10.0	10.0	6.7	16.7	6.7	6.7	3.3	3.3	6.7	6.7
87.5°	0.0	3.3	3.3	0.0	3.3	0.0	3.3	3.3	3.3	3.3	3.3
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°	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9	6285.9
2.5°	6295.9	6292.6	6295.9	6292.6	6292.6	6292.6	6295.9	6295.9	6292.6	6292.6	6299.3
5°	6322.6	6322.6	6322.6	6319.3	6315.9	6315.9	6322.6	6322.6	6312.6	6322.6	6322.6
7.5°	6379.3	6369.3	6379.3	6366.0	6359.3	6362.6	6366.0	6359.3	6352.7	6356.0	6356.0
10°	6452.7	6442.7	6442.7	6432.7	6422.7	6416.0	6409.4	6392.7	6376.0	6372.7	6359.3
12.5°	6539.4	6522.8	6512.8	6492.7	6476.1	6452.7	6432.7	6406.0	6372.7	6349.3	6326.0
15°	6626.2	6599.5	6576.2	6542.8	6506.1	6466.0	6422.7	6379.3	6326.0	6279.3	6239.2
17.5°	6696.3	6659.6	6616.2	6562.9	6509.5	6449.4	6386.0	6322.6	6245.9	6185.8	6139.1
20°	6719.6	6666.3	6609.6	6539.4	6469.4	6386.0	6306.0	6222.5	6135.7	6072.4	6019.0
22.5°	6689.7	6626.2	6556.2	6482.8	6389.3	6299.3	6205.9	6109.0	6032.3	5945.6	5895.6
25°	6606.2	6529.5	6452.7	6366.0	6275.9	6175.8	6075.7	5975.6	5882.2	5835.5	5772.1
27.5°	6436.1	6352.7	6269.2	6179.2	6075.7	5975.6	5872.2	5775.4	5695.4	5632.0	5595.3
30°	6135.7	6039.0	5942.3	5845.5	5755.4	5652.0	5555.2	5475.1	5395.0	5345.0	5308.3
32.5°	5675.3	5588.6	5491.9	5398.4	5315.0	5228.3	5148.2	5078.1	5021.4	4988.0	4961.3
35°	5054.8	4968.0	4894.6	4827.9	4757.8	4721.1	4671.1	4631.0	4607.6	4594.3	4591.0
37.5°	4274.0	4223.9	4200.6	4187.3	4173.9	4163.9	4170.6	4187.3	4200.6	4223.9	4250.6
40°	3439.9	3483.2	3496.6	3543.3	3586.7	3643.4	3706.8	3780.2	3840.2	3917.0	3970.4
42.5°	2679.2	2759.3	2852.7	2952.8	3059.5	3163.0	3289.8	3406.5	3513.3	3610.0	3693.5
45°	2058.6	2182.0	2322.2	2465.6	2609.1	2759.3	2912.8	3056.2	3183.0	3286.4	3373.2
47.5°	1604.8	1741.7	1921.8	2098.7	2272.1	2449.0	2619.1	2769.2	2876.0	2976.1	3052.8
50°	1271.2	1428.0	1624.8	1828.4	2018.6	2205.4	2385.5	2525.7	2632.5	2712.6	2769.2
52.5°	984.2	1171.1	1371.3	1584.8	1788.4	1991.9	2158.7	2288.8	2375.6	2445.6	2489.0
55°	734.0	917.5	1131.1	1351.3	1558.1	1755.0	1911.8	2025.3	2102.0	2142.0	2165.4
57.5°	530.5	697.3	910.8	1131.1	1317.9	1504.7	1631.5	1735.0	1778.3	1801.7	1811.7
60°	387.0	540.5	730.7	920.9	1097.7	1247.8	1358.0	1428.0	1461.4	1474.7	1471.4
62.5°	283.6	417.1	580.5	740.7	884.1	1007.6	1094.4	1141.1	1157.8	1164.4	1154.4
65°	216.8	320.3	460.4	583.9	694.0	784.1	847.5	877.5	887.5	884.1	877.5
67.5°	160.2	240.3	343.7	437.1	517.2	587.2	620.6	647.3	653.9	644.0	633.9
70°	113.5	176.8	250.2	313.7	373.7	413.7	450.4	453.7	453.7	450.4	443.8
72.5°	80.1	123.4	170.1	213.6	250.2	280.3	293.6	303.6	300.3	296.9	290.3
75°	53.4	76.7	123.4	133.5	166.8	176.8	190.2	190.2	193.5	183.5	183.5
77.5°	33.4	53.4	73.4	86.8	100.1	113.5	120.1	120.1	123.4	120.1	120.1
80°	20.0	33.4	40.0	60.1	60.1	70.0	73.4	76.7	70.0	80.1	70.0
82.5°	13.3	20.0	30.0	30.0	36.7	43.4	43.4	46.7	46.7	43.4	43.4
85°	10.0	13.3	16.7	20.0	20.0	23.3	20.0	20.0	23.3	26.7	23.3
87.5°	3.3	6.7	3.3	6.7	6.7	13.3	10.0	10.0	10.0	13.3	13.3
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: P248448

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6285.9	6285.9	6285.9	6285.9
2.5°	6292.6	6295.9	6292.6	6292.6
5°	6322.6	6319.3	6322.6	6315.9
7.5°	6346.0	6346.0	6342.6	6342.6
10°	6346.0	6332.6	6332.6	6332.6
12.5°	6295.9	6279.3	6269.2	6262.5
15°	6209.1	6179.2	6165.8	6162.4
17.5°	6095.7	6069.0	6052.4	6042.3
20°	5965.6	5938.9	5918.9	5922.3
22.5°	5852.1	5822.2	5808.8	5802.1
25°	5738.7	5702.0	5692.0	5685.3
27.5°	5555.2	5535.2	5525.2	5515.2
30°	5274.9	5264.9	5248.3	5271.6
32.5°	4951.3	4934.6	4921.3	4931.3
35°	4594.3	4584.3	4594.3	4587.6
37.5°	4267.4	4277.3	4290.7	4297.3
40°	4010.5	4047.1	4060.5	4067.1
42.5°	3753.5	3796.9	3823.6	3840.2
45°	3436.5	3479.9	3509.9	3530.0
47.5°	3109.6	3146.3	3176.3	3173.0
50°	2812.7	2832.7	2846.0	2859.4
52.5°	2512.3	2512.3	2515.7	2515.7
55°	2172.1	2165.4	2162.0	2165.4
57.5°	1798.3	1791.7	1788.4	1778.3
60°	1458.1	1438.0	1424.7	1424.7
62.5°	1141.1	1117.7	1107.7	1104.4
65°	857.4	854.1	834.1	830.7
67.5°	620.6	607.2	593.9	597.3
70°	437.1	417.1	417.1	410.4
72.5°	283.6	273.6	270.2	270.2
75°	176.8	176.8	170.1	183.5
77.5°	116.7	116.7	113.5	116.7
80°	70.0	70.0	70.0	66.7
82.5°	43.4	46.7	43.4	43.4
85°	23.3	26.7	20.0	30.0
87.5°	13.3	16.7	13.3	16.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)