

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: P249402

Luminaire Tested: **LD8B120D010 ER8B120930 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249402
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: LD8B120D010 ER8B120930 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10093.5 lumens
Efficiency: N/A
Efficacy: 85.3 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

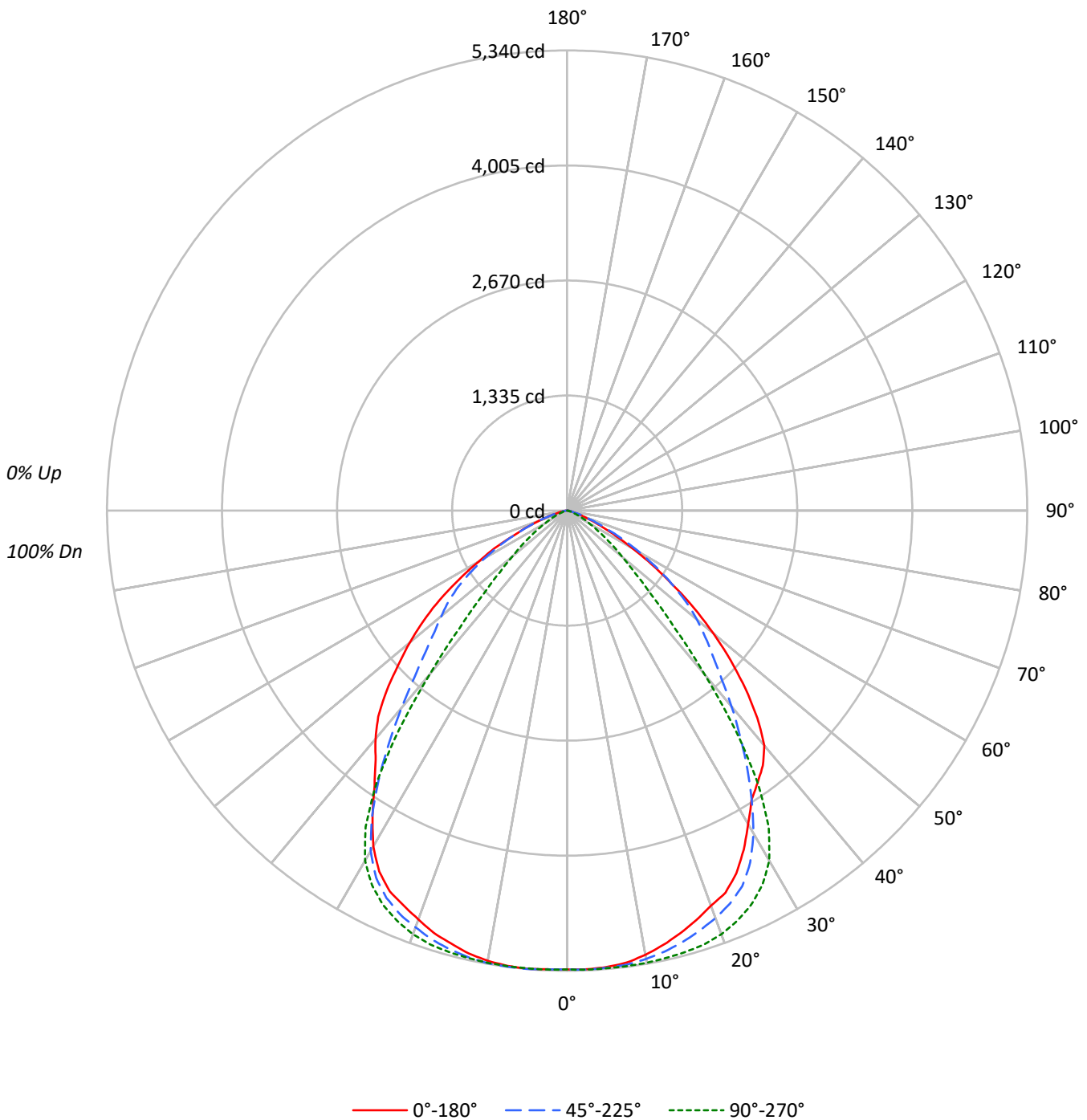
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	508.2	5.0
10°-20°	1476.0	14.6
20°-30°	2240.3	22.2
30°-40°	2353.0	23.3
40°-50°	1764.1	17.5
50°-60°	1131.9	11.2
60°-70°	484.2	4.8
70°-80°	114.4	1.1
80°-90°	21.3	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°	4224.6	41.9
0°-40°	6577.6	65.2
0°-60°	9473.6	93.9
0°-90°	10093.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10093.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5326	5326	5326	5326	5326	
5°	5317	5326	5331	5340	5337	505
15°	5077	5183	5303	5268	5203	1432
25°	4645	4808	5051	4960	4874	2122
35°	3853	3639	3856	3810	3896	2418
45°	2927	2393	1375	2324	2967	2242
55°	1481	1481	512	1544	1804	1343
65°	446	526	163	678	689	476
75°	69	80	23	137	134	100
85°	23	14	11	23	32	24
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°	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5
2.5°	5328.3	5334.2	5331.3	5331.3	5328.3	5331.3	5331.3	5337.0	5337.0	5331.3	5328.3
5°	5316.9	5322.6	5322.6	5316.9	5316.9	5331.3	5322.6	5328.3	5328.3	5325.5	5325.5
7.5°	5291.2	5291.2	5302.7	5294.1	5294.1	5302.7	5299.8	5305.5	5311.3	5314.1	5314.1
10°	5234.1	5239.8	5242.6	5242.6	5245.5	5254.0	5259.7	5271.3	5276.9	5282.6	5285.5
12.5°	5162.7	5171.2	5174.0	5171.2	5179.8	5191.1	5205.5	5219.7	5228.3	5239.8	5248.4
15°	5076.8	5076.8	5082.5	5091.1	5096.9	5114.0	5128.2	5145.4	5168.3	5182.6	5196.8
17.5°	4982.5	4988.2	4996.7	4996.7	5008.3	5036.8	5045.4	5071.2	5096.9	5111.1	5139.8
20°	4879.6	4885.3	4893.8	4899.7	4913.9	4936.8	4953.9	4976.8	5005.4	5031.2	5059.6
22.5°	4799.6	4788.1	4793.8	4799.6	4813.9	4833.9	4853.9	4882.4	4911.0	4936.8	4965.4
25°	4645.2	4648.0	4656.6	4662.4	4679.5	4696.7	4719.5	4753.8	4779.5	4808.2	4839.6
27.5°	4436.5	4439.4	4453.6	4453.6	4468.0	4496.6	4510.8	4539.4	4573.8	4602.3	4639.5
30°	4199.3	4205.0	4205.0	4216.4	4224.9	4239.3	4253.5	4282.1	4299.3	4325.0	4376.5
32.5°	3982.0	3987.7	3984.8	3982.0	3973.4	3970.6	3967.7	3973.4	3979.1	3987.7	4007.7
35°	3853.4	3839.1	3827.7	3807.7	3784.8	3756.1	3730.5	3696.2	3664.7	3639.0	3610.4
37.5°	3730.5	3727.5	3710.4	3681.8	3636.1	3584.6	3524.6	3450.3	3376.0	3296.0	3218.8
40°	3559.0	3550.3	3536.1	3496.1	3444.6	3381.7	3301.7	3210.2	3090.0	2967.2	2841.4
42.5°	3267.4	3270.2	3253.0	3221.5	3173.0	3112.9	3030.1	2930.1	2801.4	2655.5	2492.7
45°	2927.2	2927.2	2921.4	2895.8	2861.5	2812.8	2749.9	2667.1	2541.3	2392.6	2218.2
47.5°	2572.7	2575.6	2567.0	2561.3	2546.9	2515.5	2469.8	2406.9	2318.3	2175.3	2001.0
50°	2212.5	2212.5	2226.9	2224.0	2224.0	2212.5	2192.6	2155.3	2078.2	1963.9	1800.9
52.5°	1852.3	1858.1	1866.7	1878.1	1892.4	1915.2	1892.4	1875.2	1826.6	1738.0	1598.0
55°	1480.7	1486.4	1500.7	1520.7	1537.9	1560.8	1566.5	1566.5	1540.7	1480.7	1375.0
57.5°	1163.5	1154.9	1166.3	1183.4	1206.3	1229.2	1246.3	1266.4	1263.5	1223.5	1137.7
60°	874.7	877.6	886.2	903.3	920.5	940.5	963.4	980.5	989.1	969.1	914.7
62.5°	637.5	637.5	648.8	666.0	674.6	703.2	717.4	726.1	734.6	731.8	697.5
65°	445.9	451.7	457.4	466.0	474.5	491.7	500.2	517.3	523.2	526.0	500.2
67.5°	314.4	305.9	311.6	317.2	325.9	337.3	354.5	354.5	363.0	363.0	345.8
70°	200.1	200.1	203.0	211.5	217.2	220.2	225.9	231.5	240.1	237.2	237.2
72.5°	134.4	131.5	134.4	137.2	140.1	148.6	148.6	151.4	157.3	160.1	148.6
75°	68.6	71.5	77.1	74.3	82.8	77.1	80.0	88.7	85.8	80.0	80.0
77.5°	57.2	57.2	57.2	54.4	60.0	60.0	57.2	62.9	60.0	60.0	57.2
80°	40.0	42.8	40.0	37.1	40.0	37.1	37.1	37.1	37.1	37.1	34.3
82.5°	31.5	25.8	28.6	25.8	28.6	28.6	25.8	22.9	22.9	25.8	22.9
85°	22.9	17.2	20.0	20.0	17.2	17.2	17.2	17.2	17.2	14.2	14.2
87.5°	14.2	8.6	8.6	8.6	11.4	11.4	11.4	8.6	11.4	11.4	5.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5
2.5°	5334.2	5331.3	5337.0	5334.2	5334.2	5331.3	5334.2	5331.3	5337.0	5325.5	5328.3
5°	5334.2	5328.3	5331.3	5334.2	5337.0	5331.3	5331.3	5331.3	5337.0	5331.3	5334.2
7.5°	5322.6	5319.8	5328.3	5334.2	5331.3	5328.3	5334.2	5331.3	5337.0	5334.2	5339.8
10°	5299.8	5302.7	5308.4	5316.9	5319.8	5322.6	5328.3	5328.3	5337.0	5325.5	5331.3
12.5°	5265.6	5276.9	5291.2	5296.9	5308.4	5308.4	5314.1	5316.9	5322.6	5319.8	5328.3
15°	5222.6	5236.9	5254.0	5268.4	5282.6	5291.2	5299.8	5302.7	5311.3	5302.7	5305.5
17.5°	5171.2	5188.3	5214.0	5231.1	5254.0	5262.6	5274.1	5279.8	5288.4	5282.6	5285.5
20°	5099.7	5119.7	5148.3	5174.0	5188.3	5208.3	5222.6	5231.1	5236.9	5231.1	5234.1
22.5°	4999.7	5028.2	5065.4	5085.4	5114.0	5131.2	5134.0	5154.0	5168.3	5154.0	5159.7
25°	4882.4	4911.0	4939.7	4982.5	5008.3	5028.2	5048.3	5051.1	5065.4	5062.5	5059.6
27.5°	4688.0	4725.2	4773.8	4808.2	4842.4	4873.9	4896.8	4902.5	4916.8	4911.0	4913.9
30°	4422.2	4462.3	4508.0	4562.2	4610.9	4642.3	4670.9	4690.9	4705.2	4696.7	4693.7
32.5°	4044.9	4084.9	4133.6	4187.8	4245.0	4290.7	4325.0	4350.8	4367.9	4362.1	4347.9
35°	3613.3	3624.6	3656.1	3699.1	3747.6	3796.2	3827.7	3856.2	3876.2	3881.9	3881.9
37.5°	3170.2	3133.1	3110.2	3110.2	3138.7	3158.8	3187.3	3204.5	3235.9	3247.3	3255.9
40°	2741.3	2655.5	2575.6	2515.5	2475.5	2472.7	2472.7	2481.2	2509.8	2546.9	2581.3
42.5°	2358.4	2221.1	2098.2	1986.7	1906.7	1861.0	1840.9	1843.8	1866.7	1901.0	1958.1
45°	2052.4	1880.9	1726.6	1592.3	1483.6	1412.1	1377.8	1375.0	1392.1	1432.1	1495.1
47.5°	1815.2	1632.2	1457.9	1303.5	1186.4	1109.1	1069.1	1057.7	1069.1	1106.2	1180.6
50°	1617.9	1429.3	1249.2	1089.2	963.4	883.3	846.1	831.9	846.1	877.6	951.8
52.5°	1435.0	1240.6	1072.0	917.7	783.2	714.6	674.6	666.0	674.6	711.7	771.8
55°	1223.5	1057.7	891.9	737.5	620.4	551.8	520.3	511.7	520.3	554.6	617.4
57.5°	1014.8	871.9	726.1	585.9	486.0	425.9	397.4	385.8	405.9	428.8	503.1
60°	820.3	706.1	583.1	460.3	377.3	323.0	300.1	297.3	303.0	331.6	383.0
62.5°	643.2	548.8	451.7	351.7	282.9	260.1	231.5	228.7	234.4	251.6	291.6
65°	463.1	403.1	328.8	257.3	203.0	171.5	160.1	163.0	168.6	180.1	217.2
67.5°	323.0	280.1	228.7	180.1	140.1	125.8	114.3	111.5	114.3	134.4	154.4
70°	217.2	191.5	154.4	137.2	97.2	77.1	80.0	71.5	82.8	82.8	100.0
72.5°	142.9	125.8	102.9	80.0	68.6	54.4	54.4	51.5	57.2	60.0	74.3
75°	74.3	57.2	57.2	40.0	28.6	14.2	25.8	22.9	20.0	22.9	28.6
77.5°	51.5	42.8	40.0	31.5	28.6	22.9	22.9	22.9	22.9	25.8	28.6
80°	31.5	31.5	22.9	20.0	17.2	14.2	17.2	17.2	17.2	17.2	20.0
82.5°	20.0	17.2	17.2	14.2	14.2	11.4	11.4	11.4	11.4	11.4	17.2
85°	17.2	11.4	11.4	8.6	11.4	20.0	8.6	11.4	11.4	11.4	8.6
87.5°	5.7	8.6	8.6	8.6	5.7	2.9	5.7	8.6	8.6	14.2	11.4
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°	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5	5325.5
2.5°	5334.2	5337.0	5337.0	5334.2	5334.2	5328.3	5339.8	5331.3	5334.2	5345.5	5337.0
5°	5339.8	5342.7	5342.7	5339.8	5339.8	5339.8	5342.7	5342.7	5339.8	5337.0	5342.7
7.5°	5351.2	5348.4	5348.4	5342.7	5342.7	5337.0	5342.7	5334.2	5339.8	5334.2	5342.7
10°	5337.0	5339.8	5337.0	5334.2	5334.2	5331.3	5331.3	5322.6	5325.5	5316.9	5322.6
12.5°	5328.3	5325.5	5325.5	5319.8	5314.1	5308.4	5305.5	5296.9	5296.9	5276.9	5285.5
15°	5305.5	5308.4	5299.8	5288.4	5282.6	5268.4	5262.6	5251.2	5239.8	5225.5	5228.3
17.5°	5285.5	5276.9	5265.6	5254.0	5231.1	5219.7	5208.3	5191.1	5185.4	5168.3	5162.7
20°	5225.5	5219.7	5205.5	5185.4	5171.2	5145.4	5134.0	5116.9	5102.6	5085.4	5076.8
22.5°	5148.3	5142.6	5125.4	5105.4	5082.5	5071.2	5059.6	5028.2	5013.9	4996.7	4993.9
25°	5051.1	5042.5	5025.4	5002.5	4991.0	4959.6	4948.2	4925.3	4919.6	4902.5	4899.7
27.5°	4902.5	4891.0	4871.0	4842.4	4822.4	4802.4	4791.0	4773.8	4768.2	4750.9	4748.1
30°	4679.5	4665.2	4625.1	4613.8	4579.4	4559.4	4559.4	4536.6	4539.4	4528.1	4528.1
32.5°	4327.8	4305.0	4273.6	4250.7	4227.9	4216.4	4216.4	4207.8	4213.5	4213.5	4219.2
35°	3862.0	3830.6	3813.3	3799.1	3799.1	3810.5	3844.8	3853.4	3870.5	3884.8	3896.3
37.5°	3264.5	3261.7	3281.6	3298.8	3341.7	3390.2	3450.3	3501.8	3550.3	3584.6	3618.9
40°	2618.4	2690.0	2747.1	2827.2	2892.9	2987.2	3095.9	3184.4	3267.4	3327.5	3390.2
42.5°	2043.8	2135.4	2255.5	2372.6	2489.9	2618.4	2761.5	2884.3	2993.0	3075.8	3141.6
45°	1592.3	1717.9	1863.8	2012.4	2164.0	2324.1	2472.7	2598.5	2712.8	2798.6	2864.3
47.5°	1283.4	1420.8	1586.4	1749.4	1920.9	2089.5	2255.5	2364.1	2458.4	2527.0	2587.0
50°	1060.5	1206.3	1380.7	1566.5	1738.0	1906.7	2049.6	2155.3	2232.6	2292.6	2329.8
52.5°	886.2	1040.5	1226.4	1412.1	1583.6	1738.0	1866.7	1946.7	2009.6	2052.4	2086.7
55°	731.8	880.4	1054.9	1229.2	1397.9	1543.6	1649.3	1709.4	1758.0	1783.7	1803.7
57.5°	597.5	734.6	894.8	1054.9	1200.6	1320.7	1403.6	1463.6	1486.4	1506.5	1503.6
60°	468.8	597.5	743.2	880.4	1006.2	1103.4	1163.5	1197.8	1214.8	1223.5	1217.7
62.5°	368.7	486.0	597.5	717.4	809.0	891.9	949.0	949.0	957.6	960.5	969.1
65°	274.4	363.0	460.3	548.8	623.2	677.5	708.9	717.4	729.0	726.1	720.4
67.5°	203.0	268.7	340.1	405.9	457.4	491.7	514.5	534.6	531.7	526.0	523.2
70°	140.1	182.9	245.8	285.9	323.0	357.4	363.0	365.9	368.7	371.6	365.9
72.5°	97.2	128.6	163.0	197.3	220.2	234.4	248.7	251.6	251.6	251.6	248.7
75°	48.7	65.8	97.2	111.5	131.5	137.2	148.6	148.6	157.3	145.7	142.9
77.5°	42.8	51.5	68.6	80.0	88.7	97.2	100.0	108.6	105.7	100.0	102.9
80°	25.8	31.5	42.8	48.7	60.0	62.9	65.8	68.6	65.8	68.6	68.6
82.5°	20.0	22.9	28.6	28.6	37.1	37.1	40.0	40.0	42.8	42.8	42.8
85°	11.4	20.0	17.2	34.3	22.9	22.9	28.6	34.3	28.6	28.6	34.3
87.5°	11.4	11.4	8.6	11.4	11.4	11.4	14.2	17.2	17.2	20.0	17.2
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: P249402

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5325.5	5325.5	5325.5	5325.5
2.5°	5334.2	5339.8	5331.3	5328.3
5°	5342.7	5342.7	5337.0	5337.0
7.5°	5342.7	5342.7	5334.2	5328.3
10°	5319.8	5319.8	5311.3	5305.5
12.5°	5276.9	5276.9	5274.1	5265.6
15°	5222.6	5222.6	5211.2	5202.7
17.5°	5148.3	5154.0	5139.8	5139.8
20°	5068.3	5065.4	5054.0	5048.3
22.5°	4985.4	4979.6	4976.8	4959.6
25°	4896.8	4891.0	4882.4	4873.9
27.5°	4745.3	4742.4	4733.8	4722.4
30°	4513.7	4510.8	4499.4	4499.4
32.5°	4213.5	4210.7	4199.3	4202.2
35°	3902.0	3913.4	3907.7	3896.3
37.5°	3641.8	3650.4	3656.1	3650.4
40°	3424.5	3450.3	3453.1	3459.0
42.5°	3193.1	3227.4	3238.8	3244.5
45°	2915.7	2947.2	2972.9	2967.2
47.5°	2632.7	2655.5	2678.5	2661.4
50°	2361.2	2375.5	2384.0	2384.0
52.5°	2103.9	2103.9	2101.1	2103.9
55°	1809.5	1809.5	1798.1	1803.7
57.5°	1500.7	1506.5	1497.9	1483.6
60°	1214.8	1200.6	1194.9	1186.4
62.5°	946.2	946.2	926.2	951.8
65°	708.9	700.4	691.8	688.9
67.5°	514.5	511.7	503.1	500.2
70°	363.0	351.7	348.7	343.0
72.5°	243.0	243.0	237.2	237.2
75°	148.6	134.4	131.5	134.4
77.5°	102.9	100.0	100.0	97.2
80°	68.6	65.8	71.5	62.9
82.5°	42.8	45.7	42.8	45.7
85°	28.6	34.3	31.5	31.5
87.5°	17.2	17.2	17.2	17.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)