

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: P249258

Luminaire Tested: **LD8B120D010 ER8B120935 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249258
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 ER8B120935 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10607.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

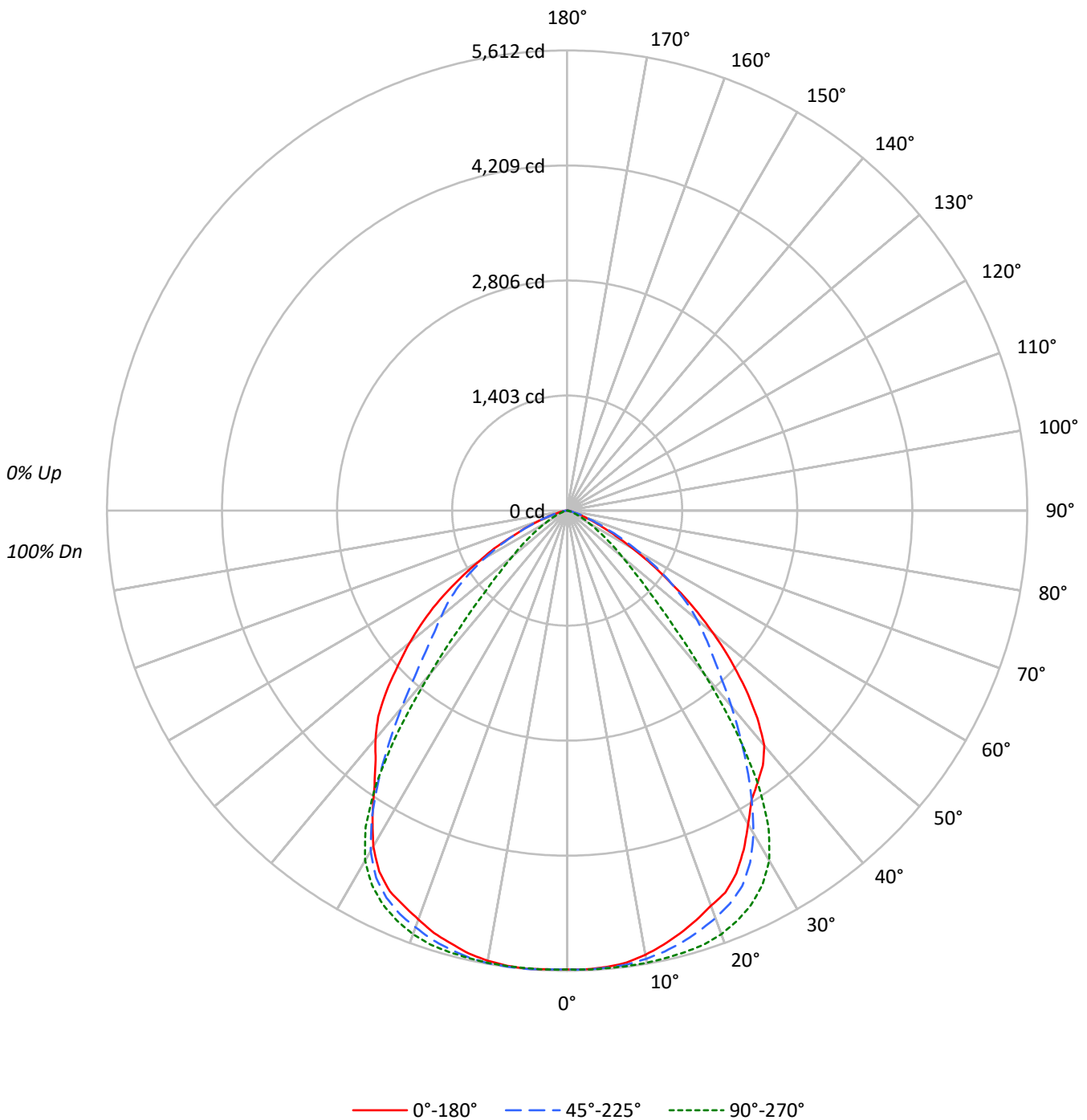
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	172575	172575	172575
5°	172953	173420	173606
10°	172225	175332	174577
15°	170318	177894	174539
20°	168274	180396	174089
25°	166089	180603	174268
30°	157129	175527	168359
35°	152436	152549	154134
40°	150550	104962	146319
45°	134146	63011	135982
50°	111542	41938	120191
55°	83658	28908	101905
60°	56689	19267	76887
65°	34199	12499	52819
70°	18961	6771	32502
75°	8590	2859	16823
80°	7458	3196	11738
85°	8491	4246	11711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.1	5.0
10°-20°	1551.1	14.6
20°-30°	2354.3	22.2
30°-40°	2472.7	23.3
40°-50°	1853.9	17.5
50°-60°	1189.5	11.2
60°-70°	508.8	4.8
70°-80°	120.2	1.1
80°-90°	22.4	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°	4439.5	41.9
0°-40°	6912.2	65.2
0°-60°	9955.6	93.9
0°-90°	10607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10607.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5596	5596	5596	5596	5596	
5°	5587	5596	5602	5612	5608	531
15°	5335	5446	5572	5536	5467	1505
25°	4882	5053	5308	5212	5122	2230
35°	4049	3824	4052	4004	4094	2541
45°	3076	2514	1445	2442	3118	2356
55°	1556	1556	538	1622	1896	1411
65°	469	553	171	712	724	500
75°	72	84	24	144	141	105
85°	24	15	12	24	33	25
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°	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5
2.5°	5599.5	5605.5	5602.5	5602.5	5599.5	5602.5	5602.5	5608.5	5608.5	5602.5	5599.5
5°	5587.4	5593.4	5593.4	5587.4	5587.4	5602.5	5593.4	5599.5	5599.5	5596.5	5596.5
7.5°	5560.4	5560.4	5572.4	5563.5	5563.5	5572.4	5569.4	5575.4	5581.5	5584.5	5584.5
10°	5500.3	5506.3	5509.4	5509.4	5512.4	5521.3	5527.4	5539.4	5545.4	5551.4	5554.4
12.5°	5425.3	5434.2	5437.3	5434.2	5443.3	5455.3	5470.3	5485.3	5494.4	5506.3	5515.4
15°	5335.1	5335.1	5341.1	5350.2	5356.2	5374.2	5389.2	5407.2	5431.2	5446.3	5461.3
17.5°	5236.0	5242.0	5251.0	5251.0	5263.0	5293.0	5302.1	5329.1	5356.2	5371.2	5401.2
20°	5127.9	5133.8	5142.9	5148.9	5163.9	5187.9	5205.9	5230.0	5260.0	5287.1	5317.1
22.5°	5043.7	5031.7	5037.7	5043.7	5058.8	5079.8	5100.8	5130.8	5160.9	5187.9	5218.0
25°	4881.5	4884.5	4893.5	4899.5	4917.6	4935.6	4959.6	4995.6	5022.7	5052.8	5085.8
27.5°	4662.2	4665.2	4680.2	4680.2	4695.2	4725.3	4740.3	4770.4	4806.4	4836.4	4875.5
30°	4412.9	4418.9	4418.9	4430.9	4439.9	4455.0	4470.0	4500.0	4518.0	4545.1	4599.2
32.5°	4184.6	4190.6	4187.6	4184.6	4175.6	4172.6	4169.5	4175.6	4181.6	4190.6	4211.6
35°	4049.4	4034.4	4022.4	4001.4	3977.3	3947.3	3920.2	3884.2	3851.1	3824.1	3794.1
37.5°	3920.2	3917.2	3899.2	3869.1	3821.1	3767.0	3704.0	3625.8	3547.7	3463.6	3382.5
40°	3740.0	3731.0	3716.0	3673.9	3619.8	3553.7	3469.6	3373.5	3247.3	3118.2	2986.0
42.5°	3433.6	3436.6	3418.6	3385.5	3334.5	3271.3	3184.2	3079.1	2943.9	2790.7	2619.5
45°	3076.1	3076.1	3070.1	3043.0	3007.0	2955.9	2889.9	2802.8	2670.6	2514.3	2331.1
47.5°	2703.6	2706.6	2697.6	2691.6	2676.5	2643.5	2595.5	2529.4	2436.3	2286.0	2102.8
50°	2325.1	2325.1	2340.1	2337.1	2337.1	2325.1	2304.1	2265.0	2183.9	2063.8	1892.6
52.5°	1946.6	1952.6	1961.7	1973.6	1988.6	2012.7	1988.6	1970.6	1919.5	1826.4	1679.3
55°	1556.1	1562.1	1577.1	1598.1	1616.2	1640.2	1646.2	1646.2	1619.1	1556.1	1444.9
57.5°	1222.7	1213.6	1225.7	1243.7	1267.7	1291.7	1309.8	1330.8	1327.8	1285.7	1195.6
60°	919.2	922.2	931.2	949.3	967.3	988.3	1012.4	1030.4	1039.4	1018.4	961.3
62.5°	669.9	669.9	681.9	699.9	708.9	739.0	754.0	763.0	772.0	769.0	733.0
65°	468.7	474.6	480.6	489.7	498.6	516.7	525.7	543.7	549.7	552.7	525.7
67.5°	330.5	321.4	327.5	333.4	342.5	354.5	372.5	372.5	381.5	381.5	363.5
70°	210.3	210.3	213.3	222.3	228.3	231.3	237.3	243.3	252.3	249.3	249.3
72.5°	141.2	138.2	141.2	144.2	147.2	156.2	156.2	159.2	165.2	168.2	156.2
75°	72.1	75.1	81.1	78.1	87.1	81.1	84.1	93.1	90.1	84.1	84.1
77.5°	60.1	60.1	60.1	57.1	63.1	63.1	60.1	66.1	63.1	63.1	60.1
80°	42.0	45.1	42.0	39.0	42.0	39.0	39.0	39.0	39.0	39.0	36.0
82.5°	33.1	27.0	30.1	27.0	30.1	30.1	27.0	24.0	24.0	27.0	24.0
85°	24.0	18.0	21.0	21.0	18.0	18.0	18.0	18.0	18.0	15.0	15.0
87.5°	15.0	9.0	9.0	9.0	12.0	12.0	12.0	9.0	12.0	12.0	6.0
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°	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5
2.5°	5605.5	5602.5	5608.5	5605.5	5605.5	5602.5	5605.5	5602.5	5608.5	5596.5	5599.5
5°	5605.5	5599.5	5602.5	5605.5	5608.5	5602.5	5602.5	5602.5	5608.5	5602.5	5605.5
7.5°	5593.4	5590.4	5599.5	5605.5	5602.5	5599.5	5605.5	5602.5	5608.5	5605.5	5611.5
10°	5569.4	5572.4	5578.5	5587.4	5590.4	5593.4	5599.5	5599.5	5608.5	5596.5	5602.5
12.5°	5533.4	5545.4	5560.4	5566.4	5578.5	5578.5	5584.5	5587.4	5593.4	5590.4	5599.5
15°	5488.3	5503.3	5521.3	5536.4	5551.4	5560.4	5569.4	5572.4	5581.5	5572.4	5575.4
17.5°	5434.2	5452.2	5479.3	5497.3	5521.3	5530.4	5542.4	5548.4	5557.4	5551.4	5554.4
20°	5359.1	5380.2	5410.2	5437.3	5452.2	5473.3	5488.3	5497.3	5503.3	5497.3	5500.3
22.5°	5254.0	5284.1	5323.1	5344.1	5374.2	5392.2	5395.2	5416.2	5431.2	5416.2	5422.3
25°	5130.8	5160.9	5190.9	5236.0	5263.0	5284.1	5305.1	5308.1	5323.1	5320.1	5317.1
27.5°	4926.6	4965.7	5016.7	5052.8	5088.8	5121.9	5145.9	5151.8	5166.9	5160.9	5163.9
30°	4647.2	4689.3	4737.4	4794.4	4845.5	4878.5	4908.5	4929.6	4944.6	4935.6	4932.6
32.5°	4250.7	4292.7	4343.8	4400.9	4461.0	4509.0	4545.1	4572.1	4590.1	4584.1	4569.1
35°	3797.1	3809.1	3842.2	3887.2	3938.2	3989.3	4022.4	4052.4	4073.4	4079.4	4079.4
37.5°	3331.5	3292.4	3268.4	3268.4	3298.4	3319.4	3349.5	3367.5	3400.6	3412.5	3421.6
40°	2880.8	2790.7	2706.6	2643.5	2601.5	2598.5	2598.5	2607.5	2637.5	2676.5	2712.6
42.5°	2478.3	2334.1	2204.9	2087.8	2003.7	1955.6	1934.6	1937.6	1961.7	1997.7	2057.7
45°	2156.9	1976.6	1814.4	1673.2	1559.1	1484.0	1447.9	1444.9	1462.9	1505.0	1571.1
47.5°	1907.6	1715.3	1532.0	1369.8	1246.7	1165.5	1123.5	1111.5	1123.5	1162.5	1240.7
50°	1700.3	1502.0	1312.8	1144.5	1012.4	928.3	889.2	874.2	889.2	922.2	1000.3
52.5°	1508.0	1303.7	1126.5	964.3	823.1	751.0	708.9	699.9	708.9	748.0	811.1
55°	1285.7	1111.5	937.2	775.0	651.9	579.8	546.7	537.7	546.7	582.8	648.9
57.5°	1066.5	916.2	763.0	615.8	510.7	447.6	417.6	405.5	426.5	450.6	528.7
60°	862.1	742.0	612.8	483.7	396.5	339.4	315.4	312.4	318.4	348.5	402.5
62.5°	675.9	576.8	474.6	369.5	297.4	273.4	243.3	240.4	246.3	264.3	306.4
65°	486.7	423.6	345.5	270.3	213.3	180.2	168.2	171.3	177.2	189.3	228.3
67.5°	339.4	294.4	240.4	189.3	147.2	132.2	120.2	117.2	120.2	141.2	162.2
70°	228.3	201.3	162.2	144.2	102.2	81.1	84.1	75.1	87.1	87.1	105.1
72.5°	150.2	132.2	108.1	84.1	72.1	57.1	57.1	54.1	60.1	63.1	78.1
75°	78.1	60.1	60.1	42.0	30.1	15.0	27.0	24.0	21.0	24.0	30.1
77.5°	54.1	45.1	42.0	33.1	30.1	24.0	24.0	24.0	24.0	27.0	30.1
80°	33.1	33.1	24.0	21.0	18.0	15.0	18.0	18.0	18.0	18.0	21.0
82.5°	21.0	18.0	18.0	15.0	15.0	12.0	12.0	12.0	12.0	12.0	18.0
85°	18.0	12.0	12.0	9.0	12.0	21.0	9.0	12.0	12.0	12.0	9.0
87.5°	6.0	9.0	9.0	9.0	6.0	3.0	6.0	9.0	9.0	15.0	12.0
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°	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5	5596.5
2.5°	5605.5	5608.5	5608.5	5605.5	5605.5	5599.5	5611.5	5602.5	5605.5	5617.5	5608.5
5°	5611.5	5614.5	5614.5	5611.5	5611.5	5611.5	5614.5	5614.5	5611.5	5608.5	5614.5
7.5°	5623.5	5620.5	5620.5	5614.5	5614.5	5608.5	5614.5	5605.5	5611.5	5605.5	5614.5
10°	5608.5	5611.5	5608.5	5605.5	5605.5	5602.5	5602.5	5593.4	5596.5	5587.4	5593.4
12.5°	5599.5	5596.5	5596.5	5590.4	5584.5	5578.5	5575.4	5566.4	5566.4	5545.4	5554.4
15°	5575.4	5578.5	5569.4	5557.4	5551.4	5536.4	5530.4	5518.3	5506.3	5491.4	5494.4
17.5°	5554.4	5545.4	5533.4	5521.3	5497.3	5485.3	5473.3	5455.3	5449.2	5431.2	5425.3
20°	5491.4	5485.3	5470.3	5449.2	5434.2	5407.2	5395.2	5377.2	5362.1	5344.1	5335.1
22.5°	5410.2	5404.2	5386.2	5365.1	5341.1	5329.1	5317.1	5284.1	5269.0	5251.0	5248.0
25°	5308.1	5299.1	5281.1	5257.0	5245.0	5212.0	5199.9	5175.9	5169.9	5151.8	5148.9
27.5°	5151.8	5139.9	5118.8	5088.8	5067.8	5046.7	5034.7	5016.7	5010.7	4992.6	4989.7
30°	4917.6	4902.5	4860.5	4848.5	4812.4	4791.4	4791.4	4767.3	4770.4	4758.4	4758.4
32.5°	4548.1	4524.0	4491.0	4466.9	4442.9	4430.9	4430.9	4421.9	4427.9	4427.9	4433.9
35°	4058.4	4025.4	4007.3	3992.3	3992.3	4004.3	4040.4	4049.4	4067.4	4082.4	4094.5
37.5°	3430.5	3427.6	3448.6	3466.6	3511.7	3562.8	3625.8	3679.9	3731.0	3767.0	3803.1
40°	2751.7	2826.8	2886.8	2971.0	3040.0	3139.2	3253.3	3346.5	3433.6	3496.7	3562.8
42.5°	2147.8	2244.0	2370.2	2493.3	2616.5	2751.7	2901.9	3031.1	3145.2	3232.3	3301.4
45°	1673.2	1805.4	1958.6	2114.8	2274.0	2442.3	2598.5	2730.6	2850.8	2940.9	3010.0
47.5°	1348.8	1493.0	1667.2	1838.5	2018.7	2195.9	2370.2	2484.3	2583.4	2655.5	2718.7
50°	1114.5	1267.7	1451.0	1646.2	1826.4	2003.7	2153.9	2265.0	2346.1	2409.2	2448.2
52.5°	931.2	1093.4	1288.7	1484.0	1664.2	1826.4	1961.7	2045.7	2111.8	2156.9	2192.9
55°	769.0	925.3	1108.5	1291.7	1469.0	1622.1	1733.3	1796.4	1847.4	1874.5	1895.5
57.5°	627.9	772.0	940.3	1108.5	1261.7	1387.9	1475.0	1538.1	1562.1	1583.1	1580.1
60°	492.7	627.9	781.0	925.3	1057.4	1159.5	1222.7	1258.7	1276.7	1285.7	1279.7
62.5°	387.5	510.7	627.9	754.0	850.1	937.2	997.4	997.4	1006.3	1009.3	1018.4
65°	288.4	381.5	483.7	576.8	654.8	712.0	745.0	754.0	766.0	763.0	757.0
67.5°	213.3	282.4	357.4	426.5	480.6	516.7	540.7	561.8	558.8	552.7	549.7
70°	147.2	192.3	258.4	300.4	339.4	375.5	381.5	384.5	387.5	390.5	384.5
72.5°	102.2	135.2	171.3	207.3	231.3	246.3	261.4	264.3	264.3	264.3	261.4
75°	51.1	69.1	102.2	117.2	138.2	144.2	156.2	156.2	165.2	153.2	150.2
77.5°	45.1	54.1	72.1	84.1	93.1	102.2	105.1	114.2	111.1	105.1	108.1
80°	27.0	33.1	45.1	51.1	63.1	66.1	69.1	72.1	69.1	72.1	72.1
82.5°	21.0	24.0	30.1	30.1	39.0	39.0	42.0	42.0	45.1	45.1	45.1
85°	12.0	21.0	18.0	36.0	24.0	24.0	30.1	36.0	30.1	30.1	36.0
87.5°	12.0	12.0	9.0	12.0	12.0	12.0	15.0	18.0	18.0	21.0	18.0
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: P249258

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5596.5	5596.5	5596.5	5596.5
2.5°	5605.5	5611.5	5602.5	5599.5
5°	5614.5	5614.5	5608.5	5608.5
7.5°	5614.5	5614.5	5605.5	5599.5
10°	5590.4	5590.4	5581.5	5575.4
12.5°	5545.4	5545.4	5542.4	5533.4
15°	5488.3	5488.3	5476.3	5467.3
17.5°	5410.2	5416.2	5401.2	5401.2
20°	5326.1	5323.1	5311.1	5305.1
22.5°	5239.0	5233.0	5230.0	5212.0
25°	5145.9	5139.9	5130.8	5121.9
27.5°	4986.7	4983.7	4974.6	4962.6
30°	4743.3	4740.3	4728.3	4728.3
32.5°	4427.9	4424.9	4412.9	4415.9
35°	4100.5	4112.5	4106.5	4094.5
37.5°	3827.1	3836.1	3842.2	3836.1
40°	3598.8	3625.8	3628.9	3634.9
42.5°	3355.5	3391.5	3403.6	3409.5
45°	3064.1	3097.1	3124.2	3118.2
47.5°	2766.7	2790.7	2814.7	2796.7
50°	2481.3	2496.3	2505.4	2505.4
52.5°	2211.0	2211.0	2208.0	2211.0
55°	1901.5	1901.5	1889.5	1895.5
57.5°	1577.1	1583.1	1574.1	1559.1
60°	1276.7	1261.7	1255.7	1246.7
62.5°	994.4	994.4	973.3	1000.3
65°	745.0	736.0	726.9	723.9
67.5°	540.7	537.7	528.7	525.7
70°	381.5	369.5	366.5	360.5
72.5°	255.3	255.3	249.3	249.3
75°	156.2	141.2	138.2	141.2
77.5°	108.1	105.1	105.1	102.2
80°	72.1	69.1	75.1	66.1
82.5°	45.1	48.1	45.1	48.1
85°	30.1	36.0	33.1	33.1
87.5°	18.0	18.0	18.0	18.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)