

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: P248952

Luminaire Tested: **LD8B120D010 ER8B120950 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B120D010 ER8B120950 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8688.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

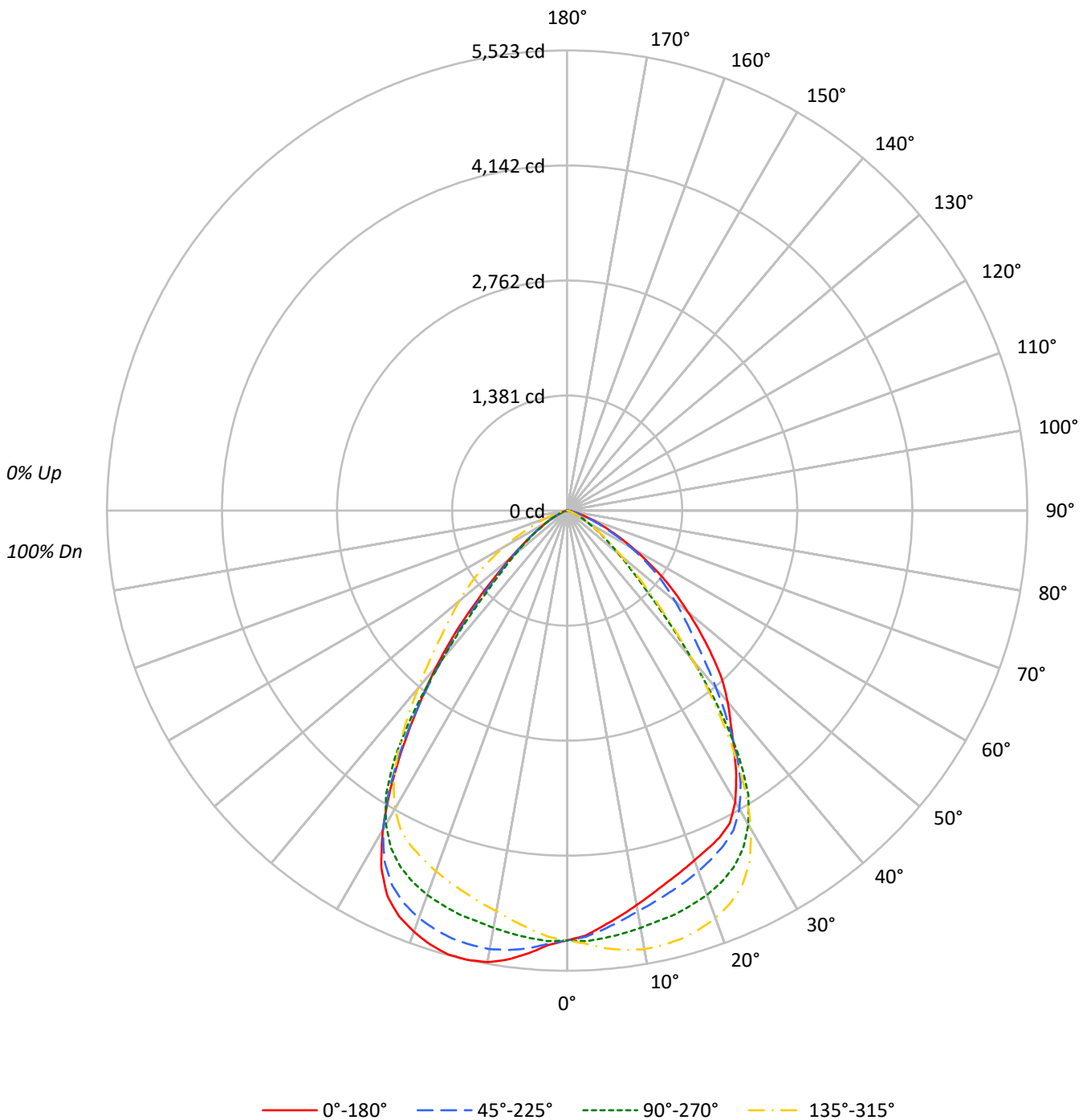
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	159048	159048	159048	159048
5°	154823	159420	165112	159420
10°	150539	159212	172304	159212
15°	147531	160157	176074	160157
20°	146527	161074	176527	161074
25°	147297	160750	173690	160750
30°	143655	154864	157649	154864
35°	131401	135097	128178	135097
40°	120641	93977	98135	93977
45°	107191	57329	66334	57329
50°	90731	38297	42528	38297
55°	75148	26133	27617	26133
60°	57312	17398	17552	17398
65°	40612	10835	9923	10835
70°	29293	7258	6591	7258
75°	18598	3610	3002	3610
80°	12981	2681	2220	2681
85°	11605	0	885	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.9	5.7
10°-20°	1421.6	16.4
20°-30°	2152.6	24.8
30°-40°	2157.5	24.8
40°-50°	1354.8	15.6
50°-60°	722.0	8.3
60°-70°	296.9	3.4
70°-80°	78.4	0.9
80°-90°	13.3	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°	4065.2	46.8
0°-40°	6222.7	71.6
0°-60°	8299.4	95.5
0°-90°	8688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8688.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5158	5158	5158	5158	5158	
5°	5002	5150	5334	5150	5002	472
15°	4621	5017	5515	5017	4621	1307
25°	4329	4725	5105	4725	4329	1986
35°	3491	3589	3405	3589	3491	2187
45°	2458	1315	1521	1315	2458	1890
55°	1398	486	514	486	1398	1246
65°	557	148	136	148	557	577
75°	156	30	25	30	156	177
85°	33	0	2	0	33	36
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°	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8
2.5°	5104.9	5099.8	5097.4	5102.4	5104.9	5115.0	5112.5	5117.5	5117.5	5120.1	5125.0
5°	5001.7	4999.1	5001.7	5001.7	5011.7	5021.8	5019.3	5026.9	5031.8	5044.5	5049.5
7.5°	4906.0	4906.0	4903.4	4913.5	4918.5	4933.7	4931.1	4943.7	4951.3	4963.8	4981.5
10°	4807.7	4807.7	4810.2	4817.8	4820.4	4843.0	4843.0	4860.6	4870.6	4883.3	4906.0
12.5°	4712.0	4712.0	4727.2	4722.1	4732.2	4749.8	4757.3	4775.0	4790.1	4815.3	4838.0
15°	4621.3	4621.3	4626.4	4639.0	4646.5	4669.2	4681.8	4702.0	4719.6	4744.8	4777.6
17.5°	4543.3	4540.8	4543.3	4558.4	4573.6	4593.7	4603.7	4628.9	4646.5	4679.3	4709.6
20°	4465.2	4470.3	4470.3	4482.8	4492.9	4518.1	4528.1	4555.9	4576.0	4606.2	4641.6
22.5°	4397.2	4394.7	4394.7	4412.4	4419.9	4442.5	4452.6	4477.8	4500.5	4525.7	4558.4
25°	4329.2	4324.1	4334.3	4336.8	4341.8	4367.0	4374.5	4392.1	4414.8	4437.5	4470.3
27.5°	4228.5	4223.5	4226.0	4236.0	4243.6	4263.7	4268.8	4286.4	4304.0	4324.1	4351.9
30°	4034.5	4029.5	4027.0	4044.7	4052.2	4067.3	4074.8	4105.1	4110.1	4132.8	4152.9
32.5°	3777.6	3775.2	3780.2	3795.3	3802.8	3823.0	3833.1	3850.7	3863.3	3875.9	3896.0
35°	3490.6	3485.5	3490.6	3505.7	3505.7	3523.4	3530.9	3538.4	3535.9	3538.4	3533.4
37.5°	3223.7	3221.1	3223.7	3231.1	3223.7	3231.1	3223.7	3208.5	3180.9	3150.6	3120.3
40°	2997.0	2999.5	2984.4	2994.5	2966.7	2961.7	2934.0	2896.2	2840.8	2780.4	2694.8
42.5°	2755.2	2747.7	2737.6	2742.6	2720.0	2702.3	2657.0	2609.2	2538.6	2437.9	2334.6
45°	2458.0	2455.5	2450.5	2448.0	2432.8	2415.2	2377.4	2322.0	2244.0	2140.7	2017.3
47.5°	2168.4	2160.8	2160.8	2163.3	2145.7	2143.2	2112.9	2065.1	1997.1	1896.4	1767.9
50°	1891.3	1888.8	1893.9	1904.0	1891.3	1886.3	1866.2	1833.5	1773.0	1687.4	1566.4
52.5°	1642.0	1639.5	1644.6	1657.1	1652.1	1657.1	1637.0	1611.8	1571.5	1488.4	1382.6
55°	1397.8	1397.8	1397.8	1412.8	1412.8	1412.8	1402.7	1387.7	1349.9	1289.4	1191.3
57.5°	1143.4	1145.9	1161.0	1163.5	1161.0	1166.1	1163.5	1148.4	1123.3	1080.5	1004.9
60°	929.3	929.3	936.9	944.5	941.9	944.5	944.5	936.9	911.7	876.5	816.0
62.5°	735.4	742.9	737.9	742.9	753.0	742.9	737.9	732.9	715.3	692.6	642.2
65°	556.6	561.6	561.6	564.1	559.0	561.6	551.6	544.0	534.0	508.8	476.0
67.5°	423.1	423.1	423.1	423.1	420.6	418.1	415.6	408.0	390.4	380.3	345.0
70°	324.9	309.7	309.7	309.7	309.7	312.3	304.8	294.7	289.6	272.0	246.8
72.5°	216.5	221.6	216.5	216.5	211.6	214.1	204.0	198.9	194.0	183.9	168.8
75°	156.1	143.6	148.5	151.1	143.6	148.5	138.5	128.4	128.4	120.9	113.3
77.5°	100.8	98.3	100.8	103.2	100.8	98.3	93.2	88.1	88.1	85.6	78.1
80°	73.1	70.5	70.5	70.5	68.0	70.5	65.5	65.5	60.4	57.9	52.9
82.5°	47.9	47.9	45.3	47.9	45.3	47.9	40.3	40.3	40.3	37.7	32.8
85°	32.8	27.7	27.7	30.3	25.2	30.3	27.7	25.2	22.7	22.7	20.1
87.5°	15.1	17.6	15.1	17.6	15.1	15.1	17.6	15.1	15.1	10.1	10.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8
2.5°	5132.6	5135.1	5135.1	5145.2	5150.2	5152.7	5152.7	5172.9	5165.4	5170.4	5175.4
5°	5059.6	5074.7	5079.7	5079.7	5107.4	5117.5	5127.5	5150.2	5152.7	5167.8	5185.5
7.5°	4989.0	5006.7	5016.8	5039.4	5057.0	5074.7	5104.9	5120.1	5135.1	5155.3	5177.9
10°	4921.0	4941.2	4961.4	4979.0	5006.7	5029.4	5049.5	5084.7	5102.4	5130.1	5160.3
12.5°	4855.6	4883.3	4900.9	4931.1	4961.4	4981.5	5011.7	5044.5	5072.2	5099.8	5135.1
15°	4797.7	4830.4	4850.5	4883.3	4916.1	4943.7	4976.5	5016.8	5036.9	5069.7	5102.4
17.5°	4734.6	4770.0	4795.2	4825.3	4865.7	4895.8	4923.6	4963.8	4989.0	5024.3	5062.1
20°	4669.2	4704.5	4734.6	4764.9	4805.2	4835.4	4868.2	4908.5	4936.2	4971.4	5001.7
22.5°	4591.2	4623.9	4656.6	4691.8	4732.2	4757.3	4795.2	4830.4	4860.6	4893.3	4923.6
25°	4490.4	4530.7	4555.9	4588.6	4621.3	4649.0	4689.3	4724.6	4749.8	4780.0	4807.7
27.5°	4372.0	4402.3	4422.4	4450.1	4482.8	4508.0	4538.2	4573.6	4598.7	4626.4	4646.5
30°	4170.5	4198.3	4215.9	4236.0	4268.8	4291.5	4316.7	4349.3	4367.0	4387.2	4404.8
32.5°	3906.1	3928.8	3938.8	3954.0	3976.7	3999.3	4019.5	4047.2	4054.7	4067.3	4067.3
35°	3523.4	3528.3	3525.8	3530.9	3541.0	3553.5	3571.1	3588.8	3598.8	3598.8	3591.4
37.5°	3075.0	3044.9	3012.1	2986.9	2979.3	2974.3	2984.4	2991.9	3002.0	3007.0	2994.5
40°	2609.2	2541.2	2468.1	2402.6	2357.3	2337.2	2329.6	2334.6	2334.6	2352.2	2352.2
42.5°	2208.7	2102.9	1994.7	1896.4	1830.9	1780.6	1757.9	1757.9	1760.4	1773.0	1780.6
45°	1876.3	1742.8	1616.8	1508.6	1417.9	1352.4	1322.2	1314.6	1312.1	1317.1	1334.7
47.5°	1621.9	1483.4	1352.4	1219.0	1123.3	1057.8	1030.1	1019.9	1009.9	1019.9	1022.5
50°	1423.0	1279.4	1140.9	1007.4	906.6	848.7	813.4	798.3	795.8	795.8	800.9
52.5°	1241.6	1108.1	969.7	833.6	727.8	672.5	639.7	632.1	622.1	632.1	632.1
55°	1070.3	936.9	800.9	672.5	584.2	526.4	496.1	486.1	481.0	488.6	488.6
57.5°	884.0	770.6	644.8	528.9	440.8	400.4	377.7	365.2	362.6	367.7	362.6
60°	725.3	629.6	521.3	415.6	347.6	304.8	287.1	282.1	277.0	282.1	282.1
62.5°	574.2	493.6	405.4	324.9	266.9	236.8	216.5	216.5	214.1	214.1	216.5
65°	425.6	362.6	299.7	231.7	186.4	163.7	148.5	148.5	146.1	148.5	146.1
67.5°	309.7	266.9	216.5	168.8	133.5	120.9	110.8	103.2	108.3	103.2	100.8
70°	226.7	191.4	156.1	128.4	103.2	90.7	83.1	80.5	75.6	75.6	75.6
72.5°	151.1	128.4	105.7	83.1	68.0	55.4	52.9	47.9	42.8	45.3	50.4
75°	100.8	85.6	75.6	60.4	45.3	45.3	30.3	30.3	25.2	30.3	22.7
77.5°	70.5	57.9	45.3	37.7	30.3	27.7	20.1	20.1	17.6	17.6	17.6
80°	50.4	42.8	32.8	27.7	20.1	20.1	17.6	15.1	12.5	12.5	15.1
82.5°	30.3	22.7	22.7	20.1	12.5	10.1	7.6	10.1	5.1	5.1	5.1
85°	17.6	15.1	12.5	7.6	5.1	5.1	2.5	0.0	2.5	2.5	0.0
87.5°	10.1	5.1	5.1	2.5	0.0	2.5	2.5	0.0	0.0	0.0	5.1
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°	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8
2.5°	5188.1	5185.5	5190.5	5190.5	5205.7	5203.1	5210.7	5210.7	5205.7	5208.2	5218.2
5°	5205.7	5213.2	5228.3	5240.9	5263.5	5273.7	5286.2	5298.9	5301.4	5308.9	5316.5
7.5°	5205.7	5230.9	5248.5	5271.1	5301.4	5319.0	5346.7	5369.4	5379.4	5392.0	5407.1
10°	5195.5	5220.7	5253.5	5278.7	5316.5	5344.2	5371.9	5407.1	5422.2	5442.3	5462.6
12.5°	5175.4	5203.1	5238.3	5271.1	5313.9	5339.1	5374.3	5407.1	5429.8	5457.5	5480.2
15°	5145.2	5177.9	5210.7	5243.4	5288.7	5319.0	5351.7	5389.5	5412.2	5442.3	5462.6
17.5°	5097.4	5132.6	5162.9	5193.0	5235.8	5271.1	5301.4	5336.6	5359.3	5384.5	5412.2
20°	5039.4	5072.2	5104.9	5130.1	5172.9	5203.1	5235.8	5268.6	5286.2	5291.3	5334.1
22.5°	4966.4	4989.0	5014.2	5054.5	5079.7	5107.4	5137.7	5167.8	5185.5	5213.2	5228.3
25°	4845.5	4868.2	4895.8	4913.5	4943.7	4966.4	4996.6	5029.4	5039.4	5059.6	5074.7
27.5°	4676.8	4689.3	4702.0	4717.0	4734.6	4747.3	4764.9	4780.0	4790.1	4800.2	4810.2
30°	4409.8	4409.8	4409.8	4399.7	4407.3	4414.8	4417.3	4414.8	4414.8	4412.4	4412.4
32.5°	4057.2	4037.1	4014.4	3994.3	3986.7	3976.7	3971.6	3964.0	3951.5	3943.9	3946.4
35°	3581.2	3535.9	3508.2	3483.0	3462.9	3447.8	3440.2	3432.7	3430.2	3420.1	3410.0
37.5°	2986.9	2954.2	2934.0	2918.9	2901.3	2886.1	2888.6	2891.2	2898.7	2893.7	2896.2
40°	2357.3	2349.7	2357.3	2339.6	2334.6	2339.6	2352.2	2369.9	2380.0	2390.0	2407.6
42.5°	1793.1	1805.7	1823.4	1823.4	1830.9	1841.0	1856.1	1883.8	1898.9	1916.5	1936.7
45°	1349.9	1365.0	1387.7	1395.2	1400.3	1412.8	1430.5	1453.1	1463.2	1478.3	1495.9
47.5°	1040.1	1050.2	1062.7	1075.4	1087.9	1093.0	1110.6	1110.6	1123.3	1133.3	1138.3
50°	810.9	821.0	831.1	838.6	843.7	851.3	856.2	863.8	866.3	871.4	873.9
52.5°	634.6	647.3	647.3	652.2	659.8	667.4	664.9	667.4	669.9	669.9	677.4
55°	496.1	496.1	503.7	503.7	508.8	506.2	508.8	508.8	508.8	508.8	511.3
57.5°	370.2	372.8	380.3	375.3	372.8	377.7	372.8	377.7	375.3	380.3	372.8
60°	284.6	284.6	287.1	287.1	289.6	289.6	289.6	287.1	287.1	284.6	284.6
62.5°	214.1	216.5	219.1	216.5	216.5	216.5	214.1	214.1	211.6	209.0	209.0
65°	143.6	141.1	146.1	141.1	143.6	143.6	141.1	143.6	136.0	138.5	136.0
67.5°	103.2	100.8	98.3	100.8	98.3	95.7	95.7	98.3	100.8	93.2	93.2
70°	68.0	70.5	68.0	70.5	73.1	73.1	70.5	68.0	70.5	65.5	68.0
72.5°	42.8	42.8	42.8	42.8	42.8	45.3	45.3	45.3	40.3	40.3	37.7
75°	20.1	27.7	22.7	20.1	27.7	27.7	25.2	25.2	22.7	22.7	22.7
77.5°	20.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	12.5	15.1	12.5
80°	10.1	10.1	10.1	7.6	10.1	10.1	12.5	10.1	10.1	7.6	12.5
82.5°	5.1	5.1	5.1	0.0	2.5	5.1	5.1	2.5	5.1	5.1	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P248952

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8
2.5°	5215.7	5213.2	5215.7	5218.2	5215.7	5213.2	5215.7	5218.2	5208.2	5205.7	5210.7
5°	5326.6	5326.6	5331.5	5334.1	5331.5	5326.6	5326.6	5316.5	5308.9	5301.4	5298.9
7.5°	5422.2	5427.3	5432.3	5434.8	5432.3	5427.3	5422.2	5407.1	5392.0	5379.4	5369.4
10°	5480.2	5487.7	5497.8	5502.8	5497.8	5487.7	5480.2	5462.6	5442.3	5422.2	5407.1
12.5°	5505.4	5512.9	5525.5	5523.0	5525.5	5512.9	5505.4	5480.2	5457.5	5429.8	5407.1
15°	5487.7	5497.8	5510.3	5515.4	5510.3	5497.8	5487.7	5462.6	5442.3	5412.2	5389.5
17.5°	5432.3	5447.4	5455.0	5462.6	5455.0	5447.4	5432.3	5412.2	5384.5	5359.3	5336.6
20°	5356.7	5366.9	5376.9	5379.4	5376.9	5366.9	5356.7	5334.1	5291.3	5286.2	5268.6
22.5°	5248.5	5256.1	5278.7	5271.1	5278.7	5256.1	5248.5	5228.3	5213.2	5185.5	5167.8
25°	5092.3	5099.8	5102.4	5104.9	5102.4	5099.8	5092.3	5074.7	5059.6	5039.4	5029.4
27.5°	4822.9	4822.9	4827.8	4830.4	4827.8	4822.9	4822.9	4810.2	4800.2	4790.1	4780.0
30°	4414.8	4414.8	4414.8	4427.5	4414.8	4414.8	4414.8	4412.4	4412.4	4414.8	4414.8
32.5°	3943.9	3938.8	3933.9	3938.8	3933.9	3938.8	3943.9	3946.4	3943.9	3951.5	3964.0
35°	3410.0	3407.5	3415.0	3405.0	3415.0	3407.5	3410.0	3410.0	3420.1	3430.2	3432.7
37.5°	2898.7	2893.7	2903.8	2893.7	2903.8	2893.7	2898.7	2896.2	2893.7	2898.7	2891.2
40°	2412.7	2417.7	2417.7	2437.9	2417.7	2417.7	2412.7	2407.6	2390.0	2380.0	2369.9
42.5°	1946.8	1961.9	1956.8	1972.0	1956.8	1961.9	1946.8	1936.7	1916.5	1898.9	1883.8
45°	1506.0	1516.2	1516.2	1521.1	1516.2	1516.2	1506.0	1495.9	1478.3	1463.2	1453.1
47.5°	1155.9	1155.9	1155.9	1158.5	1155.9	1155.9	1155.9	1138.3	1133.3	1123.3	1110.6
50°	878.9	881.4	884.0	886.5	884.0	881.4	878.9	873.9	871.4	866.3	863.8
52.5°	674.9	677.4	672.5	677.4	672.5	677.4	674.9	677.4	669.9	669.9	667.4
55°	511.3	508.8	511.3	513.7	511.3	508.8	511.3	511.3	508.8	508.8	508.8
57.5°	375.3	370.2	370.2	370.2	370.2	370.2	375.3	372.8	380.3	375.3	377.7
60°	279.6	282.1	282.1	284.6	282.1	282.1	279.6	284.6	284.6	287.1	287.1
62.5°	206.5	214.1	209.0	214.1	209.0	214.1	206.5	209.0	209.0	211.6	214.1
65°	133.5	133.5	133.5	136.0	133.5	133.5	133.5	136.0	138.5	136.0	143.6
67.5°	90.7	93.2	98.3	95.7	98.3	93.2	90.7	93.2	93.2	100.8	98.3
70°	73.1	65.5	65.5	73.1	65.5	65.5	73.1	68.0	65.5	70.5	68.0
72.5°	42.8	37.7	42.8	42.8	42.8	37.7	42.8	37.7	40.3	40.3	45.3
75°	22.7	20.1	17.6	25.2	17.6	20.1	22.7	22.7	22.7	22.7	25.2
77.5°	15.1	12.5	17.6	17.6	17.6	12.5	15.1	12.5	15.1	12.5	15.1
80°	7.6	10.1	7.6	12.5	7.6	10.1	7.6	12.5	7.6	10.1	10.1
82.5°	2.5	5.1	5.1	5.1	5.1	5.1	2.5	2.5	5.1	5.1	2.5
85°	0.0	5.1	2.5	2.5	2.5	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.0	0.0	2.5	0.0	0.0	2.5	0.0	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: P248952

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8
2.5°	5210.7	5203.1	5205.7	5190.5	5190.5	5185.5	5188.1	5175.4	5170.4	5165.4	5172.9
5°	5286.2	5273.7	5263.5	5240.9	5228.3	5213.2	5205.7	5185.5	5167.8	5152.7	5150.2
7.5°	5346.7	5319.0	5301.4	5271.1	5248.5	5230.9	5205.7	5177.9	5155.3	5135.1	5120.1
10°	5371.9	5344.2	5316.5	5278.7	5253.5	5220.7	5195.5	5160.3	5130.1	5102.4	5084.7
12.5°	5374.3	5339.1	5313.9	5271.1	5238.3	5203.1	5175.4	5135.1	5099.8	5072.2	5044.5
15°	5351.7	5319.0	5288.7	5243.4	5210.7	5177.9	5145.2	5102.4	5069.7	5036.9	5016.8
17.5°	5301.4	5271.1	5235.8	5193.0	5162.9	5132.6	5097.4	5062.1	5024.3	4989.0	4963.8
20°	5235.8	5203.1	5172.9	5130.1	5104.9	5072.2	5039.4	5001.7	4971.4	4936.2	4908.5
22.5°	5137.7	5107.4	5079.7	5054.5	5014.2	4989.0	4966.4	4923.6	4893.3	4860.6	4830.4
25°	4996.6	4966.4	4943.7	4913.5	4895.8	4868.2	4845.5	4807.7	4780.0	4749.8	4724.6
27.5°	4764.9	4747.3	4734.6	4717.0	4702.0	4689.3	4676.8	4646.5	4626.4	4598.7	4573.6
30°	4417.3	4414.8	4407.3	4399.7	4409.8	4409.8	4409.8	4404.8	4387.2	4367.0	4349.3
32.5°	3971.6	3976.7	3986.7	3994.3	4014.4	4037.1	4057.2	4067.3	4067.3	4054.7	4047.2
35°	3440.2	3447.8	3462.9	3483.0	3508.2	3535.9	3581.2	3591.4	3598.8	3598.8	3588.8
37.5°	2888.6	2886.1	2901.3	2918.9	2934.0	2954.2	2986.9	2994.5	3007.0	3002.0	2991.9
40°	2352.2	2339.6	2334.6	2339.6	2357.3	2349.7	2357.3	2352.2	2352.2	2334.6	2334.6
42.5°	1856.1	1841.0	1830.9	1823.4	1823.4	1805.7	1793.1	1780.6	1773.0	1760.4	1757.9
45°	1430.5	1412.8	1400.3	1395.2	1387.7	1365.0	1349.9	1334.7	1317.1	1312.1	1314.6
47.5°	1110.6	1093.0	1087.9	1075.4	1062.7	1050.2	1040.1	1022.5	1019.9	1009.9	1019.9
50°	856.2	851.3	843.7	838.6	831.1	821.0	810.9	800.9	795.8	795.8	798.3
52.5°	664.9	667.4	659.8	652.2	647.3	647.3	634.6	632.1	632.1	622.1	632.1
55°	508.8	506.2	508.8	503.7	503.7	496.1	496.1	488.6	488.6	481.0	486.1
57.5°	372.8	377.7	372.8	375.3	380.3	372.8	370.2	362.6	367.7	362.6	365.2
60°	289.6	289.6	289.6	287.1	287.1	284.6	284.6	282.1	282.1	277.0	282.1
62.5°	214.1	216.5	216.5	216.5	219.1	216.5	214.1	216.5	214.1	214.1	216.5
65°	141.1	143.6	143.6	141.1	146.1	141.1	143.6	146.1	148.5	146.1	148.5
67.5°	95.7	95.7	98.3	100.8	98.3	100.8	103.2	100.8	103.2	108.3	103.2
70°	70.5	73.1	73.1	70.5	68.0	70.5	68.0	75.6	75.6	75.6	80.5
72.5°	45.3	45.3	42.8	42.8	42.8	42.8	42.8	50.4	45.3	42.8	47.9
75°	25.2	27.7	27.7	20.1	22.7	27.7	20.1	22.7	30.3	25.2	30.3
77.5°	15.1	15.1	15.1	15.1	15.1	15.1	20.1	17.6	17.6	17.6	20.1
80°	12.5	10.1	10.1	7.6	10.1	10.1	10.1	15.1	12.5	12.5	15.1
82.5°	5.1	5.1	2.5	0.0	5.1	5.1	5.1	5.1	5.1	5.1	10.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	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: P248952

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8
2.5°	5152.7	5152.7	5150.2	5145.2	5135.1	5135.1	5132.6	5125.0	5120.1	5117.5	5117.5
5°	5127.5	5117.5	5107.4	5079.7	5079.7	5074.7	5059.6	5049.5	5044.5	5031.8	5026.9
7.5°	5104.9	5074.7	5057.0	5039.4	5016.8	5006.7	4989.0	4981.5	4963.8	4951.3	4943.7
10°	5049.5	5029.4	5006.7	4979.0	4961.4	4941.2	4921.0	4906.0	4883.3	4870.6	4860.6
12.5°	5011.7	4981.5	4961.4	4931.1	4900.9	4883.3	4855.6	4838.0	4815.3	4790.1	4775.0
15°	4976.5	4943.7	4916.1	4883.3	4850.5	4830.4	4797.7	4777.6	4744.8	4719.6	4702.0
17.5°	4923.6	4895.8	4865.7	4825.3	4795.2	4770.0	4734.6	4709.6	4679.3	4646.5	4628.9
20°	4868.2	4835.4	4805.2	4764.9	4734.6	4704.5	4669.2	4641.6	4606.2	4576.0	4555.9
22.5°	4795.2	4757.3	4732.2	4691.8	4656.6	4623.9	4591.2	4558.4	4525.7	4500.5	4477.8
25°	4689.3	4649.0	4621.3	4588.6	4555.9	4530.7	4490.4	4470.3	4437.5	4414.8	4392.1
27.5°	4538.2	4508.0	4482.8	4450.1	4422.4	4402.3	4372.0	4351.9	4324.1	4304.0	4286.4
30°	4316.7	4291.5	4268.8	4236.0	4215.9	4198.3	4170.5	4152.9	4132.8	4110.1	4105.1
32.5°	4019.5	3999.3	3976.7	3954.0	3938.8	3928.8	3906.1	3896.0	3875.9	3863.3	3850.7
35°	3571.1	3553.5	3541.0	3530.9	3525.8	3528.3	3523.4	3533.4	3538.4	3535.9	3538.4
37.5°	2984.4	2974.3	2979.3	2986.9	3012.1	3044.9	3075.0	3120.3	3150.6	3180.9	3208.5
40°	2329.6	2337.2	2357.3	2402.6	2468.1	2541.2	2609.2	2694.8	2780.4	2840.8	2896.2
42.5°	1757.9	1780.6	1830.9	1896.4	1994.7	2102.9	2208.7	2334.6	2437.9	2538.6	2609.2
45°	1322.2	1352.4	1417.9	1508.6	1616.8	1742.8	1876.3	2017.3	2140.7	2244.0	2322.0
47.5°	1030.1	1057.8	1123.3	1219.0	1352.4	1483.4	1621.9	1767.9	1896.4	1997.1	2065.1
50°	813.4	848.7	906.6	1007.4	1140.9	1279.4	1423.0	1566.4	1687.4	1773.0	1833.5
52.5°	639.7	672.5	727.8	833.6	969.7	1108.1	1241.6	1382.6	1488.4	1571.5	1611.8
55°	496.1	526.4	584.2	672.5	800.9	936.9	1070.3	1191.3	1289.4	1349.9	1387.7
57.5°	377.7	400.4	440.8	528.9	644.8	770.6	884.0	1004.9	1080.5	1123.3	1148.4
60°	287.1	304.8	347.6	415.6	521.3	629.6	725.3	816.0	876.5	911.7	936.9
62.5°	216.5	236.8	266.9	324.9	405.4	493.6	574.2	642.2	692.6	715.3	732.9
65°	148.5	163.7	186.4	231.7	299.7	362.6	425.6	476.0	508.8	534.0	544.0
67.5°	110.8	120.9	133.5	168.8	216.5	266.9	309.7	345.0	380.3	390.4	408.0
70°	83.1	90.7	103.2	128.4	156.1	191.4	226.7	246.8	272.0	289.6	294.7
72.5°	52.9	55.4	68.0	83.1	105.7	128.4	151.1	168.8	183.9	194.0	198.9
75°	30.3	45.3	45.3	60.4	75.6	85.6	100.8	113.3	120.9	128.4	128.4
77.5°	20.1	27.7	30.3	37.7	45.3	57.9	70.5	78.1	85.6	88.1	88.1
80°	17.6	20.1	20.1	27.7	32.8	42.8	50.4	52.9	57.9	60.4	65.5
82.5°	7.6	10.1	12.5	20.1	22.7	22.7	30.3	32.8	37.7	40.3	40.3
85°	2.5	5.1	5.1	7.6	12.5	15.1	17.6	20.1	22.7	22.7	25.2
87.5°	2.5	2.5	0.0	2.5	5.1	5.1	10.1	10.1	10.1	15.1	15.1
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: P248952

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8	5157.8
2.5°	5112.5	5115.0	5104.9	5102.4	5097.4	5099.8	5104.9
5°	5019.3	5021.8	5011.7	5001.7	5001.7	4999.1	5001.7
7.5°	4931.1	4933.7	4918.5	4913.5	4903.4	4906.0	4906.0
10°	4843.0	4843.0	4820.4	4817.8	4810.2	4807.7	4807.7
12.5°	4757.3	4749.8	4732.2	4722.1	4727.2	4712.0	4712.0
15°	4681.8	4669.2	4646.5	4639.0	4626.4	4621.3	4621.3
17.5°	4603.7	4593.7	4573.6	4558.4	4543.3	4540.8	4543.3
20°	4528.1	4518.1	4492.9	4482.8	4470.3	4470.3	4465.2
22.5°	4452.6	4442.5	4419.9	4412.4	4394.7	4394.7	4397.2
25°	4374.5	4367.0	4341.8	4336.8	4334.3	4324.1	4329.2
27.5°	4268.8	4263.7	4243.6	4236.0	4226.0	4223.5	4228.5
30°	4074.8	4067.3	4052.2	4044.7	4027.0	4029.5	4034.5
32.5°	3833.1	3823.0	3802.8	3795.3	3780.2	3775.2	3777.6
35°	3530.9	3523.4	3505.7	3505.7	3490.6	3485.5	3490.6
37.5°	3223.7	3231.1	3223.7	3231.1	3223.7	3221.1	3223.7
40°	2934.0	2961.7	2966.7	2994.5	2984.4	2999.5	2997.0
42.5°	2657.0	2702.3	2720.0	2742.6	2737.6	2747.7	2755.2
45°	2377.4	2415.2	2432.8	2448.0	2450.5	2455.5	2458.0
47.5°	2112.9	2143.2	2145.7	2163.3	2160.8	2160.8	2168.4
50°	1866.2	1886.3	1891.3	1904.0	1893.9	1888.8	1891.3
52.5°	1637.0	1657.1	1652.1	1657.1	1644.6	1639.5	1642.0
55°	1402.7	1412.8	1412.8	1412.8	1397.8	1397.8	1397.8
57.5°	1163.5	1166.1	1161.0	1163.5	1161.0	1145.9	1143.4
60°	944.5	944.5	941.9	944.5	936.9	929.3	929.3
62.5°	737.9	742.9	753.0	742.9	737.9	742.9	735.4
65°	551.6	561.6	559.0	564.1	561.6	561.6	556.6
67.5°	415.6	418.1	420.6	423.1	423.1	423.1	423.1
70°	304.8	312.3	309.7	309.7	309.7	309.7	324.9
72.5°	204.0	214.1	211.6	216.5	216.5	221.6	216.5
75°	138.5	148.5	143.6	151.1	148.5	143.6	156.1
77.5°	93.2	98.3	100.8	103.2	100.8	98.3	100.8
80°	65.5	70.5	68.0	70.5	70.5	70.5	73.1
82.5°	40.3	47.9	45.3	47.9	45.3	47.9	47.9
85°	27.7	30.3	25.2	30.3	27.7	27.7	32.8
87.5°	17.6	15.1	15.1	17.6	15.1	17.6	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)