

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: P248953

Luminaire Tested: **LD8B150D010 ER8B150950 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248953
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: LD8B150D010 ER8B150950 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: 11451.0 lumens
Efficiency: N/A
Efficacy: 72.2 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

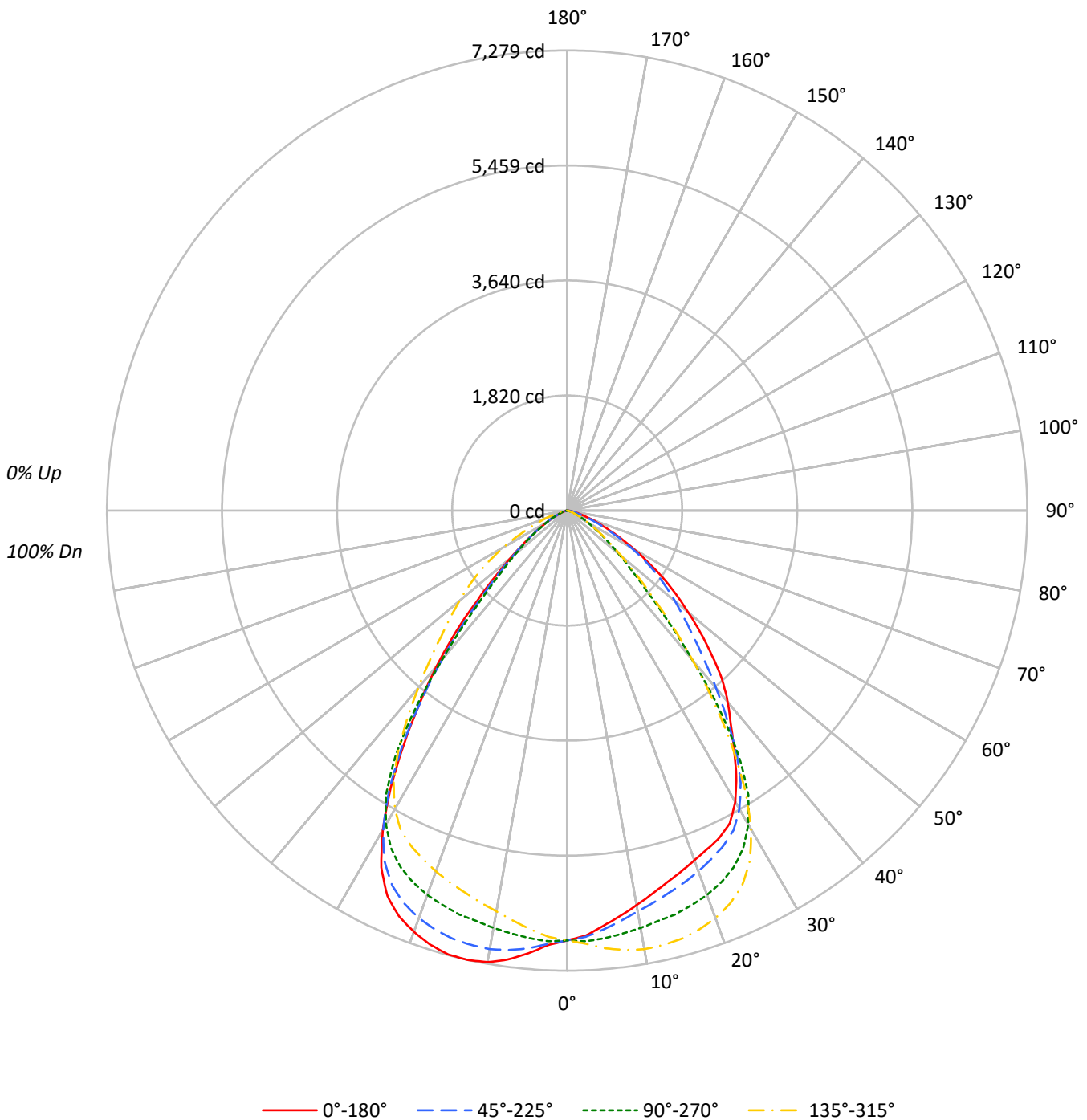
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	209628	209628	209628	209628
5°	204059	210120	217623	210120
10°	198415	209847	227100	209847
15°	194450	211092	232072	211092
20°	193128	212299	232667	212299
25°	194142	211872	228928	211872
30°	189342	204115	207783	204115
35°	173190	178061	168940	178061
40°	159007	123861	129344	123861
45°	141281	75562	87432	75562
50°	119587	50477	56051	50477
55°	99045	34445	36402	34445
60°	75543	22930	23127	22930
65°	53527	14287	13083	14287
70°	38606	9575	8682	9575
75°	24519	4754	3956	4754
80°	17101	3534	2930	3534
85°	15284	0	1168	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.1	5.7
10°-20°	1873.7	16.4
20°-30°	2837.2	24.8
30°-40°	2843.6	24.8
40°-50°	1785.6	15.6
50°-60°	951.6	8.3
60°-70°	391.3	3.4
70°-80°	103.4	0.9
80°-90°	17.5	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°	5358.0	46.8
0°-40°	8201.6	71.6
0°-60°	10938.8	95.5
0°-90°	11451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11451.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6798	6798	6798	6798	6798	
5°	6592	6788	7030	6788	6592	622
15°	6091	6612	7270	6612	6091	1723
25°	5706	6227	6728	6227	5706	2617
35°	4601	4730	4488	4730	4601	2882
45°	3240	1733	2005	1733	3240	2492
55°	1842	641	677	641	1842	1643
65°	734	196	179	196	734	761
75°	206	40	33	40	206	233
85°	43	0	3	0	43	47
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°	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1
2.5°	6728.4	6721.7	6718.4	6725.1	6728.4	6741.7	6738.4	6744.9	6744.9	6748.4	6754.9
5°	6592.3	6588.9	6592.3	6592.3	6605.6	6618.8	6615.6	6625.5	6632.1	6648.8	6655.3
7.5°	6466.2	6466.2	6462.8	6476.1	6482.8	6502.7	6499.3	6516.0	6525.9	6542.5	6565.7
10°	6336.7	6336.7	6340.0	6350.0	6353.4	6383.2	6383.2	6406.4	6419.6	6436.3	6466.2
12.5°	6210.6	6210.6	6230.5	6223.8	6237.1	6260.3	6270.3	6293.5	6313.5	6346.7	6376.6
15°	6091.0	6091.0	6097.7	6114.3	6124.2	6154.2	6170.7	6197.3	6220.6	6253.8	6296.9
17.5°	5988.2	5984.9	5988.2	6008.1	6028.1	6054.6	6067.8	6101.0	6124.2	6167.4	6207.3
20°	5885.3	5892.0	5892.0	5908.5	5921.8	5955.0	5968.2	6004.8	6031.3	6071.1	6117.7
22.5°	5795.7	5792.4	5792.4	5815.6	5825.6	5855.4	5868.6	5901.8	5931.7	5964.9	6008.1
25°	5706.0	5699.3	5712.7	5716.0	5722.6	5755.8	5765.7	5789.0	5818.9	5848.8	5892.0
27.5°	5573.2	5566.7	5569.9	5583.2	5593.2	5619.7	5626.4	5649.6	5672.8	5699.3	5735.9
30°	5317.6	5311.0	5307.8	5331.0	5341.0	5360.8	5370.7	5410.6	5417.2	5447.1	5473.6
32.5°	4979.0	4975.7	4982.4	5002.2	5012.2	5038.9	5052.1	5075.3	5091.9	5108.5	5135.1
35°	4600.7	4594.0	4600.7	4620.6	4620.6	4643.9	4653.8	4663.7	4660.4	4663.7	4657.1
37.5°	4248.9	4245.5	4248.9	4258.7	4248.9	4258.7	4248.9	4228.9	4192.5	4152.6	4112.7
40°	3950.1	3953.4	3933.5	3946.8	3910.2	3903.6	3867.1	3817.3	3744.3	3664.7	3551.8
42.5°	3631.5	3621.5	3608.2	3614.8	3585.0	3561.6	3501.9	3438.9	3345.9	3213.2	3077.0
45°	3239.7	3236.5	3229.8	3226.5	3206.5	3183.3	3133.4	3060.5	2957.6	2821.5	2658.8
47.5°	2858.0	2848.0	2848.0	2851.3	2828.1	2824.8	2784.9	2721.9	2632.3	2499.5	2330.2
50°	2492.8	2489.5	2496.2	2509.5	2492.8	2486.2	2459.7	2416.6	2336.9	2224.0	2064.6
52.5°	2164.2	2160.9	2167.6	2184.1	2177.5	2184.1	2157.6	2124.4	2071.3	1961.7	1822.4
55°	1842.3	1842.3	1842.3	1862.1	1862.1	1862.1	1848.9	1829.0	1779.2	1699.5	1570.1
57.5°	1507.0	1510.3	1530.2	1533.5	1530.2	1536.9	1533.5	1513.6	1480.5	1424.1	1324.5
60°	1224.9	1224.9	1234.8	1244.8	1241.4	1244.8	1244.8	1234.8	1201.6	1155.2	1075.5
62.5°	969.2	979.2	972.5	979.2	992.5	979.2	972.5	966.0	942.7	912.8	846.4
65°	733.6	740.3	740.3	743.5	736.8	740.3	727.0	717.0	703.8	670.6	627.4
67.5°	557.7	557.7	557.7	557.7	554.3	551.0	547.7	537.8	514.5	501.3	454.7
70°	428.2	408.2	408.2	408.2	408.2	411.7	401.7	388.4	381.7	358.5	325.3
72.5°	285.4	292.1	285.4	285.4	278.9	282.1	268.9	262.2	255.6	242.4	222.4
75°	205.8	189.2	195.8	199.2	189.2	195.8	182.5	169.3	169.3	159.3	149.3
77.5°	132.8	129.5	132.8	136.1	132.8	129.5	122.8	116.1	116.1	112.9	102.9
80°	96.3	92.9	92.9	92.9	89.6	92.9	86.3	86.3	79.7	76.4	69.7
82.5°	63.1	63.1	59.7	63.1	59.7	63.1	53.1	53.1	53.1	49.7	43.2
85°	43.2	36.5	36.5	39.9	33.2	39.9	36.5	33.2	29.9	29.9	26.5
87.5°	19.9	23.2	19.9	23.2	19.9	19.9	23.2	19.9	19.9	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1
2.5°	6764.9	6768.2	6768.2	6781.6	6788.1	6791.4	6791.4	6818.0	6808.1	6814.8	6821.3
5°	6668.7	6688.5	6695.2	6695.2	6731.7	6744.9	6758.2	6788.1	6791.4	6811.3	6834.6
7.5°	6575.7	6598.9	6612.3	6642.1	6665.3	6688.5	6728.4	6748.4	6768.2	6794.8	6824.6
10°	6486.0	6512.7	6539.2	6562.4	6598.9	6628.8	6655.3	6701.8	6725.1	6761.6	6801.4
12.5°	6399.8	6436.3	6459.5	6499.3	6539.2	6565.7	6605.6	6648.8	6685.2	6721.7	6768.2
15°	6323.4	6366.6	6393.1	6436.3	6479.5	6516.0	6559.1	6612.3	6638.8	6682.0	6725.1
17.5°	6240.4	6287.0	6320.2	6359.9	6413.1	6452.8	6489.5	6542.5	6575.7	6622.1	6672.0
20°	6154.2	6200.6	6240.4	6280.3	6333.4	6373.2	6416.4	6469.5	6506.0	6552.4	6592.3
22.5°	6051.3	6094.5	6137.5	6184.0	6237.1	6270.3	6320.2	6366.6	6406.4	6449.6	6489.5
25°	5918.5	5971.6	6004.8	6047.9	6091.0	6127.5	6180.7	6227.1	6260.3	6300.2	6336.7
27.5°	5762.5	5802.3	5828.9	5865.3	5908.5	5941.7	5981.5	6028.1	6061.3	6097.7	6124.2
30°	5496.8	5533.5	5556.7	5583.2	5626.4	5656.3	5689.5	5732.5	5755.8	5782.4	5805.6
32.5°	5148.3	5178.2	5191.5	5211.4	5241.3	5271.1	5297.8	5334.3	5344.2	5360.8	5360.8
35°	4643.9	4650.4	4647.2	4653.8	4667.1	4683.6	4706.9	4730.1	4743.3	4743.3	4733.5
37.5°	4053.0	4013.2	3970.0	3936.8	3926.8	3920.1	3933.5	3943.4	3956.8	3963.3	3946.8
40°	3438.9	3349.3	3253.0	3166.6	3106.9	3080.4	3070.5	3077.0	3077.0	3100.2	3100.2
42.5°	2911.1	2771.6	2629.0	2499.5	2413.1	2346.9	2316.9	2316.9	2320.2	2336.9	2346.9
45°	2473.0	2297.0	2131.0	1988.4	1868.8	1782.5	1742.7	1732.7	1729.4	1736.0	1759.2
47.5°	2137.7	1955.2	1782.5	1606.6	1480.5	1394.2	1357.7	1344.3	1331.0	1344.3	1347.7
50°	1875.5	1686.3	1503.7	1327.8	1195.0	1118.6	1072.1	1052.2	1048.9	1048.9	1055.6
52.5°	1636.4	1460.6	1278.0	1098.8	959.3	886.3	843.1	833.2	819.9	833.2	833.2
55°	1410.7	1234.8	1055.6	886.3	770.0	693.8	653.9	640.7	634.0	643.9	643.9
57.5°	1165.2	1015.7	849.8	697.1	580.9	527.8	497.9	481.3	477.9	484.6	477.9
60°	956.0	829.9	687.1	547.7	458.1	401.7	378.5	371.8	365.1	371.8	371.8
62.5°	756.8	650.6	534.4	428.2	351.8	312.1	285.4	285.4	282.1	282.1	285.4
65°	561.0	477.9	395.0	305.4	245.7	215.7	195.8	195.8	192.5	195.8	192.5
67.5°	408.2	351.8	285.4	222.4	176.0	159.3	146.1	136.1	142.8	136.1	132.8
70°	298.8	252.2	205.8	169.3	136.1	119.6	109.6	106.2	99.6	99.6	99.6
72.5°	199.2	169.3	139.4	109.6	89.6	73.0	69.7	63.1	56.4	59.7	66.4
75°	132.8	112.9	99.6	79.7	59.7	59.7	39.9	39.9	33.2	39.9	29.9
77.5°	92.9	76.4	59.7	49.7	39.9	36.5	26.5	26.5	23.2	23.2	23.2
80°	66.4	56.4	43.2	36.5	26.5	26.5	23.2	19.9	16.5	16.5	19.9
82.5°	39.9	29.9	29.9	26.5	16.5	13.3	10.0	13.3	6.7	6.7	6.7
85°	23.2	19.9	16.5	10.0	6.7	6.7	3.3	0.0	3.3	3.3	0.0
87.5°	13.3	6.7	6.7	3.3	0.0	3.3	3.3	0.0	0.0	0.0	6.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1
2.5°	6838.0	6834.6	6841.3	6841.3	6861.2	6857.8	6867.8	6867.8	6861.2	6864.5	6877.8
5°	6861.2	6871.2	6891.0	6907.7	6937.5	6950.8	6967.4	6984.0	6987.3	6997.3	7007.3
7.5°	6861.2	6894.4	6917.6	6947.4	6987.3	7010.6	7047.0	7077.0	7090.2	7106.7	7126.7
10°	6847.8	6881.0	6924.2	6957.4	7007.3	7043.8	7080.2	7126.7	7146.6	7173.1	7199.8
12.5°	6821.3	6857.8	6904.3	6947.4	7003.9	7037.1	7083.5	7126.7	7156.6	7193.1	7223.0
15°	6781.6	6824.6	6867.8	6911.0	6970.7	7010.6	7053.7	7103.5	7133.4	7173.1	7199.8
17.5°	6718.4	6764.9	6804.8	6844.5	6901.0	6947.4	6987.3	7033.8	7063.7	7096.9	7133.4
20°	6642.1	6685.2	6728.4	6761.6	6818.0	6857.8	6901.0	6944.2	6967.4	6974.1	7030.5
22.5°	6545.9	6575.7	6608.9	6662.0	6695.2	6731.7	6771.6	6811.3	6834.6	6871.2	6891.0
25°	6386.4	6416.4	6452.8	6476.1	6516.0	6545.9	6585.6	6628.8	6642.1	6668.7	6688.5
27.5°	6164.1	6180.7	6197.3	6217.2	6240.4	6257.0	6280.3	6300.2	6313.5	6326.7	6340.0
30°	5812.2	5812.2	5812.2	5798.9	5808.9	5818.9	5822.2	5818.9	5818.9	5815.6	5815.6
32.5°	5347.5	5321.0	5291.1	5264.6	5254.6	5241.3	5234.7	5224.7	5208.1	5198.2	5201.5
35°	4720.1	4660.4	4623.9	4590.7	4564.2	4544.3	4534.3	4524.3	4521.0	4507.8	4494.4
37.5°	3936.8	3893.6	3867.1	3847.2	3824.0	3804.0	3807.3	3810.7	3820.5	3814.0	3817.3
40°	3106.9	3097.0	3106.9	3083.7	3077.0	3083.7	3100.2	3123.6	3136.9	3150.1	3173.3
42.5°	2363.4	2379.9	2403.3	2403.3	2413.1	2426.5	2446.3	2483.0	2502.8	2526.0	2552.6
45°	1779.2	1799.1	1829.0	1838.9	1845.6	1862.1	1885.5	1915.3	1928.5	1948.5	1971.7
47.5°	1370.9	1384.2	1400.7	1417.4	1433.9	1440.6	1463.8	1463.8	1480.5	1493.8	1500.3
50°	1068.8	1082.1	1095.4	1105.3	1112.0	1122.0	1128.6	1138.5	1141.8	1148.5	1151.8
52.5°	836.4	853.1	853.1	859.7	869.6	879.6	876.3	879.6	882.9	882.9	892.9
55°	653.9	653.9	663.9	663.9	670.6	667.2	670.6	670.6	670.6	670.6	673.9
57.5°	487.9	491.3	501.3	494.6	491.3	497.9	491.3	497.9	494.6	501.3	491.3
60°	375.0	375.0	378.5	378.5	381.7	381.7	381.7	378.5	378.5	375.0	375.0
62.5°	282.1	285.4	288.8	285.4	285.4	285.4	282.1	282.1	278.9	275.4	275.4
65°	189.2	186.0	192.5	186.0	189.2	189.2	186.0	189.2	179.3	182.5	179.3
67.5°	136.1	132.8	129.5	132.8	129.5	126.1	126.1	129.5	132.8	122.8	122.8
70°	89.6	92.9	89.6	92.9	96.3	96.3	92.9	89.6	92.9	86.3	89.6
72.5°	56.4	56.4	56.4	56.4	56.4	59.7	59.7	59.7	53.1	53.1	49.7
75°	26.5	36.5	29.9	26.5	36.5	36.5	33.2	33.2	29.9	29.9	29.9
77.5°	26.5	19.9	19.9	19.9	19.9	19.9	19.9	19.9	16.5	19.9	16.5
80°	13.3	13.3	13.3	10.0	13.3	13.3	16.5	13.3	13.3	10.0	16.5
82.5°	6.7	6.7	6.7	0.0	3.3	6.7	6.7	3.3	6.7	6.7	3.3
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: P248953

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1
2.5°	6874.5	6871.2	6874.5	6877.8	6874.5	6871.2	6874.5	6877.8	6864.5	6861.2	6867.8
5°	7020.5	7020.5	7027.1	7030.5	7027.1	7020.5	7020.5	7007.3	6997.3	6987.3	6984.0
7.5°	7146.6	7153.3	7159.9	7163.2	7159.9	7153.3	7146.6	7126.7	7106.7	7090.2	7077.0
10°	7223.0	7233.0	7246.2	7252.8	7246.2	7233.0	7223.0	7199.8	7173.1	7146.6	7126.7
12.5°	7256.2	7266.2	7282.7	7279.4	7282.7	7266.2	7256.2	7223.0	7193.1	7156.6	7126.7
15°	7233.0	7246.2	7262.8	7269.5	7262.8	7246.2	7233.0	7199.8	7173.1	7133.4	7103.5
17.5°	7159.9	7179.8	7189.8	7199.8	7189.8	7179.8	7159.9	7133.4	7096.9	7063.7	7033.8
20°	7060.3	7073.7	7086.9	7090.2	7086.9	7073.7	7060.3	7030.5	6974.1	6967.4	6944.2
22.5°	6917.6	6927.6	6957.4	6947.4	6957.4	6927.6	6917.6	6891.0	6871.2	6834.6	6811.3
25°	6711.7	6721.7	6725.1	6728.4	6725.1	6721.7	6711.7	6688.5	6668.7	6642.1	6628.8
27.5°	6356.6	6356.6	6363.2	6366.6	6363.2	6356.6	6356.6	6340.0	6326.7	6313.5	6300.2
30°	5818.9	5818.9	5818.9	5835.5	5818.9	5818.9	5818.9	5815.6	5815.6	5818.9	5818.9
32.5°	5198.2	5191.5	5184.9	5191.5	5184.9	5191.5	5198.2	5201.5	5198.2	5208.1	5224.7
35°	4494.4	4491.1	4501.1	4487.8	4501.1	4491.1	4494.4	4494.4	4507.8	4521.0	4524.3
37.5°	3820.5	3814.0	3827.2	3814.0	3827.2	3814.0	3820.5	3817.3	3814.0	3820.5	3810.7
40°	3180.0	3186.6	3186.6	3213.2	3186.6	3186.6	3180.0	3173.3	3150.1	3136.9	3123.6
42.5°	2565.9	2585.8	2579.1	2599.1	2579.1	2585.8	2565.9	2552.6	2526.0	2502.8	2483.0
45°	1984.9	1998.3	1998.3	2004.9	1998.3	1998.3	1984.9	1971.7	1948.5	1928.5	1915.3
47.5°	1523.5	1523.5	1523.5	1527.0	1523.5	1523.5	1523.5	1500.3	1493.8	1480.5	1463.8
50°	1158.5	1161.8	1165.2	1168.4	1165.2	1161.8	1158.5	1151.8	1148.5	1141.8	1138.5
52.5°	889.6	892.9	886.3	892.9	886.3	892.9	889.6	892.9	882.9	882.9	879.6
55°	673.9	670.6	673.9	677.1	673.9	670.6	673.9	673.9	670.6	670.6	670.6
57.5°	494.6	487.9	487.9	487.9	487.9	487.9	494.6	491.3	501.3	494.6	497.9
60°	368.5	371.8	371.8	375.0	371.8	371.8	368.5	375.0	375.0	378.5	378.5
62.5°	272.2	282.1	275.4	282.1	275.4	282.1	272.2	275.4	275.4	278.9	282.1
65°	176.0	176.0	176.0	179.3	176.0	176.0	176.0	179.3	182.5	179.3	189.2
67.5°	119.6	122.8	129.5	126.1	129.5	122.8	119.6	122.8	122.8	132.8	129.5
70°	96.3	86.3	86.3	96.3	86.3	86.3	96.3	89.6	86.3	92.9	89.6
72.5°	56.4	49.7	56.4	56.4	56.4	49.7	56.4	49.7	53.1	53.1	59.7
75°	29.9	26.5	23.2	33.2	23.2	26.5	29.9	29.9	29.9	29.9	33.2
77.5°	19.9	16.5	23.2	23.2	23.2	16.5	19.9	16.5	19.9	16.5	19.9
80°	10.0	13.3	10.0	16.5	10.0	13.3	10.0	16.5	10.0	13.3	13.3
82.5°	3.3	6.7	6.7	6.7	6.7	6.7	3.3	3.3	6.7	6.7	3.3
85°	0.0	6.7	3.3	3.3	3.3	6.7	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	0.0	0.0	3.3	0.0	0.0	3.3	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: P248953

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1
2.5°	6867.8	6857.8	6861.2	6841.3	6841.3	6834.6	6838.0	6821.3	6814.8	6808.1	6818.0
5°	6967.4	6950.8	6937.5	6907.7	6891.0	6871.2	6861.2	6834.6	6811.3	6791.4	6788.1
7.5°	7047.0	7010.6	6987.3	6947.4	6917.6	6894.4	6861.2	6824.6	6794.8	6768.2	6748.4
10°	7080.2	7043.8	7007.3	6957.4	6924.2	6881.0	6847.8	6801.4	6761.6	6725.1	6701.8
12.5°	7083.5	7037.1	7003.9	6947.4	6904.3	6857.8	6821.3	6768.2	6721.7	6685.2	6648.8
15°	7053.7	7010.6	6970.7	6911.0	6867.8	6824.6	6781.6	6725.1	6682.0	6638.8	6612.3
17.5°	6987.3	6947.4	6901.0	6844.5	6804.8	6764.9	6718.4	6672.0	6622.1	6575.7	6542.5
20°	6901.0	6857.8	6818.0	6761.6	6728.4	6685.2	6642.1	6592.3	6552.4	6506.0	6469.5
22.5°	6771.6	6731.7	6695.2	6662.0	6608.9	6575.7	6545.9	6489.5	6449.6	6406.4	6366.6
25°	6585.6	6545.9	6516.0	6476.1	6452.8	6416.4	6386.4	6336.7	6300.2	6260.3	6227.1
27.5°	6280.3	6257.0	6240.4	6217.2	6197.3	6180.7	6164.1	6124.2	6097.7	6061.3	6028.1
30°	5822.2	5818.9	5808.9	5798.9	5812.2	5812.2	5812.2	5805.6	5782.4	5755.8	5732.5
32.5°	5234.7	5241.3	5254.6	5264.6	5291.1	5321.0	5347.5	5360.8	5360.8	5344.2	5334.3
35°	4534.3	4544.3	4564.2	4590.7	4623.9	4660.4	4720.1	4733.5	4743.3	4743.3	4730.1
37.5°	3807.3	3804.0	3824.0	3847.2	3867.1	3893.6	3936.8	3946.8	3963.3	3956.8	3943.4
40°	3100.2	3083.7	3077.0	3083.7	3106.9	3097.0	3106.9	3100.2	3100.2	3077.0	3077.0
42.5°	2446.3	2426.5	2413.1	2403.3	2403.3	2379.9	2363.4	2346.9	2336.9	2320.2	2316.9
45°	1885.5	1862.1	1845.6	1838.9	1829.0	1799.1	1779.2	1759.2	1736.0	1729.4	1732.7
47.5°	1463.8	1440.6	1433.9	1417.4	1400.7	1384.2	1370.9	1347.7	1344.3	1331.0	1344.3
50°	1128.6	1122.0	1112.0	1105.3	1095.4	1082.1	1068.8	1055.6	1048.9	1048.9	1052.2
52.5°	876.3	879.6	869.6	859.7	853.1	853.1	836.4	833.2	833.2	819.9	833.2
55°	670.6	667.2	670.6	663.9	663.9	653.9	653.9	643.9	643.9	634.0	640.7
57.5°	491.3	497.9	491.3	494.6	501.3	491.3	487.9	477.9	484.6	477.9	481.3
60°	381.7	381.7	381.7	378.5	378.5	375.0	375.0	371.8	371.8	365.1	371.8
62.5°	282.1	285.4	285.4	285.4	288.8	285.4	282.1	285.4	282.1	282.1	285.4
65°	186.0	189.2	189.2	186.0	192.5	186.0	189.2	192.5	195.8	192.5	195.8
67.5°	126.1	126.1	129.5	132.8	129.5	132.8	136.1	132.8	136.1	142.8	136.1
70°	92.9	96.3	96.3	92.9	89.6	92.9	89.6	99.6	99.6	99.6	106.2
72.5°	59.7	59.7	56.4	56.4	56.4	56.4	56.4	66.4	59.7	56.4	63.1
75°	33.2	36.5	36.5	26.5	29.9	36.5	26.5	29.9	39.9	33.2	39.9
77.5°	19.9	19.9	19.9	19.9	19.9	19.9	26.5	23.2	23.2	23.2	26.5
80°	16.5	13.3	13.3	10.0	13.3	13.3	13.3	19.9	16.5	16.5	19.9
82.5°	6.7	6.7	3.3	0.0	6.7	6.7	6.7	6.7	6.7	6.7	13.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	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: P248953

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1
2.5°	6791.4	6791.4	6788.1	6781.6	6768.2	6768.2	6764.9	6754.9	6748.4	6744.9	6744.9
5°	6758.2	6744.9	6731.7	6695.2	6695.2	6688.5	6668.7	6655.3	6648.8	6632.1	6625.5
7.5°	6728.4	6688.5	6665.3	6642.1	6612.3	6598.9	6575.7	6565.7	6542.5	6525.9	6516.0
10°	6655.3	6628.8	6598.9	6562.4	6539.2	6512.7	6486.0	6466.2	6436.3	6419.6	6406.4
12.5°	6605.6	6565.7	6539.2	6499.3	6459.5	6436.3	6399.8	6376.6	6346.7	6313.5	6293.5
15°	6559.1	6516.0	6479.5	6436.3	6393.1	6366.6	6323.4	6296.9	6253.8	6220.6	6197.3
17.5°	6489.5	6452.8	6413.1	6359.9	6320.2	6287.0	6240.4	6207.3	6167.4	6124.2	6101.0
20°	6416.4	6373.2	6333.4	6280.3	6240.4	6200.6	6154.2	6117.7	6071.1	6031.3	6004.8
22.5°	6320.2	6270.3	6237.1	6184.0	6137.5	6094.5	6051.3	6008.1	5964.9	5931.7	5901.8
25°	6180.7	6127.5	6091.0	6047.9	6004.8	5971.6	5918.5	5892.0	5848.8	5818.9	5789.0
27.5°	5981.5	5941.7	5908.5	5865.3	5828.9	5802.3	5762.5	5735.9	5699.3	5672.8	5649.6
30°	5689.5	5656.3	5626.4	5583.2	5556.7	5533.5	5496.8	5473.6	5447.1	5417.2	5410.6
32.5°	5297.8	5271.1	5241.3	5211.4	5191.5	5178.2	5148.3	5135.1	5108.5	5091.9	5075.3
35°	4706.9	4683.6	4667.1	4653.8	4647.2	4650.4	4643.9	4657.1	4663.7	4660.4	4663.7
37.5°	3933.5	3920.1	3926.8	3936.8	3970.0	4013.2	4053.0	4112.7	4152.6	4192.5	4228.9
40°	3070.5	3080.4	3106.9	3166.6	3253.0	3349.3	3438.9	3551.8	3664.7	3744.3	3817.3
42.5°	2316.9	2346.9	2413.1	2499.5	2629.0	2771.6	2911.1	3077.0	3213.2	3345.9	3438.9
45°	1742.7	1782.5	1868.8	1988.4	2131.0	2297.0	2473.0	2658.8	2821.5	2957.6	3060.5
47.5°	1357.7	1394.2	1480.5	1606.6	1782.5	1955.2	2137.7	2330.2	2499.5	2632.3	2721.9
50°	1072.1	1118.6	1195.0	1327.8	1503.7	1686.3	1875.5	2064.6	2224.0	2336.9	2416.6
52.5°	843.1	886.3	959.3	1098.8	1278.0	1460.6	1636.4	1822.4	1961.7	2071.3	2124.4
55°	653.9	693.8	770.0	886.3	1055.6	1234.8	1410.7	1570.1	1699.5	1779.2	1829.0
57.5°	497.9	527.8	580.9	697.1	849.8	1015.7	1165.2	1324.5	1424.1	1480.5	1513.6
60°	378.5	401.7	458.1	547.7	687.1	829.9	956.0	1075.5	1155.2	1201.6	1234.8
62.5°	285.4	312.1	351.8	428.2	534.4	650.6	756.8	846.4	912.8	942.7	966.0
65°	195.8	215.7	245.7	305.4	395.0	477.9	561.0	627.4	670.6	703.8	717.0
67.5°	146.1	159.3	176.0	222.4	285.4	351.8	408.2	454.7	501.3	514.5	537.8
70°	109.6	119.6	136.1	169.3	205.8	252.2	298.8	325.3	358.5	381.7	388.4
72.5°	69.7	73.0	89.6	109.6	139.4	169.3	199.2	222.4	242.4	255.6	262.2
75°	39.9	59.7	59.7	79.7	99.6	112.9	132.8	149.3	159.3	169.3	169.3
77.5°	26.5	36.5	39.9	49.7	59.7	76.4	92.9	102.9	112.9	116.1	116.1
80°	23.2	26.5	26.5	36.5	43.2	56.4	66.4	69.7	76.4	79.7	86.3
82.5°	10.0	13.3	16.5	26.5	29.9	29.9	39.9	43.2	49.7	53.1	53.1
85°	3.3	6.7	6.7	10.0	16.5	19.9	23.2	26.5	29.9	29.9	33.2
87.5°	3.3	3.3	0.0	3.3	6.7	6.7	13.3	13.3	13.3	19.9	19.9
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: P248953

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1	6798.1
2.5°	6738.4	6741.7	6728.4	6725.1	6718.4	6721.7	6728.4
5°	6615.6	6618.8	6605.6	6592.3	6592.3	6588.9	6592.3
7.5°	6499.3	6502.7	6482.8	6476.1	6462.8	6466.2	6466.2
10°	6383.2	6383.2	6353.4	6350.0	6340.0	6336.7	6336.7
12.5°	6270.3	6260.3	6237.1	6223.8	6230.5	6210.6	6210.6
15°	6170.7	6154.2	6124.2	6114.3	6097.7	6091.0	6091.0
17.5°	6067.8	6054.6	6028.1	6008.1	5988.2	5984.9	5988.2
20°	5968.2	5955.0	5921.8	5908.5	5892.0	5892.0	5885.3
22.5°	5868.6	5855.4	5825.6	5815.6	5792.4	5792.4	5795.7
25°	5765.7	5755.8	5722.6	5716.0	5712.7	5699.3	5706.0
27.5°	5626.4	5619.7	5593.2	5583.2	5569.9	5566.7	5573.2
30°	5370.7	5360.8	5341.0	5331.0	5307.8	5311.0	5317.6
32.5°	5052.1	5038.9	5012.2	5002.2	4982.4	4975.7	4979.0
35°	4653.8	4643.9	4620.6	4620.6	4600.7	4594.0	4600.7
37.5°	4248.9	4258.7	4248.9	4258.7	4248.9	4245.5	4248.9
40°	3867.1	3903.6	3910.2	3946.8	3933.5	3953.4	3950.1
42.5°	3501.9	3561.6	3585.0	3614.8	3608.2	3621.5	3631.5
45°	3133.4	3183.3	3206.5	3226.5	3229.8	3236.5	3239.7
47.5°	2784.9	2824.8	2828.1	2851.3	2848.0	2848.0	2858.0
50°	2459.7	2486.2	2492.8	2509.5	2496.2	2489.5	2492.8
52.5°	2157.6	2184.1	2177.5	2184.1	2167.6	2160.9	2164.2
55°	1848.9	1862.1	1862.1	1862.1	1842.3	1842.3	1842.3
57.5°	1533.5	1536.9	1530.2	1533.5	1530.2	1510.3	1507.0
60°	1244.8	1244.8	1241.4	1244.8	1234.8	1224.9	1224.9
62.5°	972.5	979.2	992.5	979.2	972.5	979.2	969.2
65°	727.0	740.3	736.8	743.5	740.3	740.3	733.6
67.5°	547.7	551.0	554.3	557.7	557.7	557.7	557.7
70°	401.7	411.7	408.2	408.2	408.2	408.2	428.2
72.5°	268.9	282.1	278.9	285.4	285.4	292.1	285.4
75°	182.5	195.8	189.2	199.2	195.8	189.2	205.8
77.5°	122.8	129.5	132.8	136.1	132.8	129.5	132.8
80°	86.3	92.9	89.6	92.9	92.9	92.9	96.3
82.5°	53.1	63.1	59.7	63.1	59.7	63.1	63.1
85°	36.5	39.9	33.2	39.9	36.5	36.5	43.2
87.5°	23.2	19.9	19.9	23.2	19.9	23.2	19.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)