

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: P250220

Luminaire Tested: **LD8B100D010 ER8B100835 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100835 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11088.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

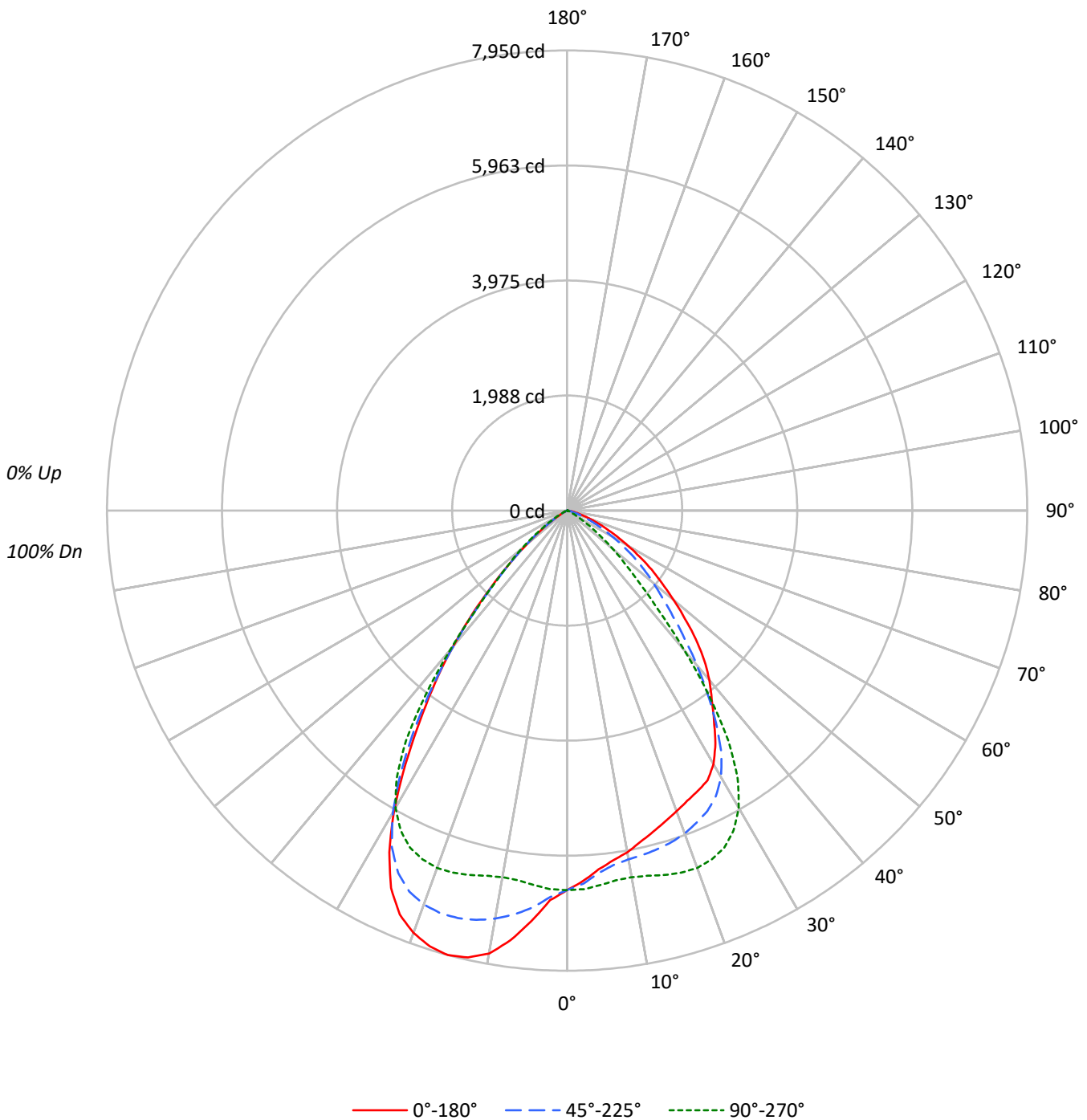
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	202175	202175	202175
5°	192609	201050	220399
10°	187644	201361	243282
15°	183388	208033	253806
20°	181370	215551	254758
25°	181794	218595	244861
30°	180106	211091	212942
35°	166425	182683	166655
40°	153790	126659	123576
45°	136946	76425	78959
50°	115226	49239	44682
55°	95862	27010	20429
60°	74827	11712	6426
65°	55220	5815	3130
70°	38399	3588	1379
75°	23364	739	0
80°	16870	1101	0
85°	10826	1061	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.3	5.7
10°-20°	1886.4	17.0
20°-30°	2888.8	26.1
30°-40°	2832.0	25.5
40°-50°	1705.4	15.4
50°-60°	785.0	7.1
60°-70°	275.7	2.5
70°-80°	72.1	0.7
80°-90°	12.3	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°	5405.5	48.8
0°-40°	8237.5	74.3
0°-60°	10727.8	96.8
0°-90°	11088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11088.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6556	6556	6556	6556	6556	
5°	6222	6281	6495	6884	7120	588
15°	5744	6054	6516	7289	7950	1623
25°	5343	5729	6425	6909	7197	2461
35°	4421	4482	4853	4574	4427	2769
45°	3140	2586	1752	1765	1811	2408
55°	1783	1412	502	395	380	1591
65°	757	524	80	40	43	771
75°	196	113	6	0	0	238
85°	31	15	3	0	0	42
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°	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4
2.5°	6403.1	6409.3	6409.3	6409.3	6421.6	6424.7	6421.6	6424.7	6430.8	6452.2	6461.4
5°	6222.4	6213.2	6219.4	6216.3	6231.6	6240.8	6234.7	6243.9	6265.3	6280.7	6295.9
7.5°	6093.8	6093.8	6093.8	6099.9	6109.1	6127.5	6124.4	6130.5	6151.9	6173.4	6194.8
10°	5992.7	5989.6	5989.6	6004.9	6017.1	6038.6	6044.7	6063.2	6090.6	6118.3	6142.7
12.5°	5860.9	5864.0	5879.3	5894.7	5922.2	5955.8	5974.3	5998.8	6041.7	6087.6	6115.2
15°	5744.5	5747.5	5759.9	5790.4	5824.2	5864.0	5903.8	5943.6	5995.7	6054.0	6103.0
17.5°	5631.1	5634.1	5643.4	5677.1	5720.0	5772.1	5818.0	5870.1	5937.6	6004.9	6066.2
20°	5527.0	5523.9	5539.2	5569.8	5625.1	5674.0	5720.0	5781.3	5854.8	5937.6	6007.9
22.5°	5425.8	5425.8	5441.2	5471.8	5520.9	5569.8	5618.9	5683.2	5756.7	5836.4	5919.1
25°	5343.1	5340.1	5361.5	5376.9	5413.6	5462.6	5514.7	5566.8	5640.3	5729.2	5808.8
27.5°	5254.3	5251.3	5254.3	5272.7	5306.4	5343.1	5382.9	5429.0	5490.3	5563.8	5640.3
30°	5058.2	5061.2	5061.2	5076.6	5095.0	5134.8	5156.2	5202.2	5257.3	5318.6	5386.1
32.5°	4767.2	4770.2	4770.2	4776.4	4791.6	4810.0	4828.5	4862.1	4905.0	4957.1	5018.4
35°	4421.0	4421.0	4417.9	4421.0	4430.2	4430.2	4445.5	4430.2	4451.7	4482.3	4528.2
37.5°	4102.3	4096.2	4090.1	4083.9	4074.7	4059.5	4038.0	4001.2	3992.0	3979.8	3982.8
40°	3820.5	3817.5	3799.1	3783.7	3753.0	3716.3	3664.3	3599.9	3547.9	3486.6	3434.5
42.5°	3508.0	3504.9	3489.6	3462.0	3428.3	3373.2	3290.5	3204.7	3100.6	3008.6	2913.7
45°	3140.3	3149.5	3128.1	3097.4	3057.6	3005.5	2913.7	2809.4	2705.2	2585.8	2466.2
47.5°	2757.3	2754.3	2739.0	2720.6	2686.9	2634.9	2573.6	2460.2	2349.9	2239.6	2117.1
50°	2401.9	2389.7	2383.5	2365.2	2343.8	2300.9	2236.5	2144.6	2046.6	1942.4	1829.0
52.5°	2065.0	2065.0	2049.6	2037.4	2019.0	1985.3	1930.2	1856.7	1773.9	1675.8	1556.4
55°	1783.1	1777.0	1761.7	1746.3	1727.9	1706.5	1657.5	1596.2	1507.3	1412.4	1308.2
57.5°	1482.9	1479.7	1473.7	1455.3	1446.1	1424.6	1369.5	1308.2	1231.7	1148.9	1063.1
60°	1213.3	1201.0	1188.7	1176.4	1161.2	1139.7	1102.9	1050.8	986.5	913.0	827.3
62.5°	971.3	989.6	952.9	952.9	922.2	903.8	870.1	839.5	772.0	704.7	631.2
65°	756.8	756.8	741.4	729.1	710.7	689.3	655.6	625.0	575.9	523.8	471.8
67.5°	579.1	575.9	560.7	548.4	533.0	520.8	496.4	459.5	422.8	380.0	337.0
70°	425.9	422.8	419.7	398.2	386.0	370.8	352.3	327.9	300.3	269.6	229.8
72.5°	306.3	306.3	297.2	288.0	275.8	263.4	245.1	229.8	205.3	183.9	156.2
75°	196.1	193.1	193.1	177.7	177.7	159.3	147.0	137.8	125.6	113.4	88.9
77.5°	141.0	137.8	134.8	128.6	122.6	116.4	107.2	95.0	85.8	73.5	64.3
80°	95.0	88.9	85.8	85.8	76.5	73.5	76.5	58.3	55.1	45.9	39.8
82.5°	58.3	58.3	55.1	55.1	52.1	49.1	39.8	39.8	36.8	33.7	27.6
85°	30.6	39.8	27.6	30.6	27.6	30.6	27.6	21.4	18.4	15.3	15.3
87.5°	18.4	12.2	12.2	18.4	15.3	12.2	12.2	12.2	9.2	6.2	6.2
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°	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4
2.5°	6455.3	6476.8	6473.6	6501.2	6510.5	6531.9	6531.9	6547.2	6556.4	6577.8	6596.2
5°	6302.1	6335.8	6345.0	6378.7	6406.3	6440.0	6461.4	6495.1	6525.7	6571.7	6614.6
7.5°	6207.2	6234.7	6253.1	6292.9	6323.6	6360.3	6397.1	6443.0	6485.9	6541.1	6602.4
10°	6161.1	6198.0	6225.5	6265.3	6302.1	6342.0	6378.7	6430.8	6479.8	6550.3	6617.6
12.5°	6148.9	6191.8	6225.5	6280.7	6317.4	6360.3	6403.1	6461.4	6513.5	6587.0	6663.7
15°	6148.9	6207.2	6253.1	6314.4	6357.2	6412.3	6458.4	6516.5	6574.8	6651.3	6724.8
17.5°	6136.7	6207.2	6265.3	6335.8	6390.9	6446.1	6504.3	6559.5	6620.7	6694.3	6776.9
20°	6087.6	6176.5	6246.9	6329.6	6387.9	6449.2	6507.4	6568.6	6633.0	6709.6	6780.1
22.5°	6001.9	6106.0	6185.7	6274.5	6342.0	6403.1	6461.4	6522.7	6593.2	6666.7	6740.2
25°	5888.5	5986.5	6072.4	6164.2	6231.6	6299.0	6354.2	6424.7	6489.0	6559.5	6617.6
27.5°	5716.9	5821.0	5903.8	5998.8	6060.0	6124.4	6170.3	6228.6	6289.9	6348.0	6394.1
30°	5459.6	5554.6	5640.3	5726.1	5787.4	5833.4	5882.3	5928.4	5968.2	6007.9	6047.8
32.5°	5082.7	5168.6	5251.3	5330.9	5379.9	5419.8	5456.5	5484.1	5505.5	5527.0	5530.0
35°	4565.0	4635.4	4687.5	4758.0	4804.0	4840.7	4840.7	4852.9	4849.9	4840.7	4831.5
37.5°	3985.9	4013.4	4034.9	4062.5	4065.5	4065.5	4047.2	4031.8	4007.4	4001.2	3982.8
40°	3382.4	3345.6	3318.0	3281.3	3259.8	3213.8	3174.1	3146.5	3106.6	3100.6	3094.4
42.5°	2809.4	2723.6	2647.1	2582.8	2509.2	2444.8	2386.7	2343.8	2313.2	2310.0	2313.2
45°	2343.8	2245.7	2132.3	2043.5	1960.8	1881.1	1804.6	1752.5	1724.9	1718.7	1724.9
47.5°	1991.5	1878.1	1767.7	1666.6	1577.8	1488.9	1412.4	1341.9	1308.2	1299.0	1296.0
50°	1712.6	1596.2	1479.7	1375.6	1277.6	1188.7	1093.7	1026.4	983.5	968.1	955.9
52.5°	1440.0	1335.8	1216.3	1109.1	1011.0	906.8	808.8	732.2	689.3	671.0	658.6
55°	1201.0	1096.9	986.5	882.4	778.2	674.0	575.9	502.4	456.5	435.1	419.7
57.5°	958.9	860.9	766.0	661.8	575.9	474.9	376.8	312.5	272.6	248.2	235.9
60°	741.4	664.8	582.1	496.4	413.6	330.9	251.2	189.9	159.3	141.0	125.6
62.5°	560.7	496.4	441.1	367.6	303.3	232.8	171.6	122.6	95.0	79.7	73.5
65°	404.4	355.4	306.3	260.4	214.5	162.4	116.4	79.7	55.1	45.9	42.9
67.5°	288.0	248.2	211.4	180.7	147.0	116.4	82.7	55.1	42.9	36.8	33.7
70°	202.1	171.6	147.0	119.5	98.0	76.5	64.3	39.8	24.5	27.6	21.4
72.5°	134.8	113.4	101.1	82.7	67.3	55.1	39.8	27.6	27.6	21.4	18.4
75°	73.5	67.3	52.1	39.8	33.7	30.6	12.2	6.2	3.0	9.2	3.0
77.5°	52.1	45.9	39.8	33.7	27.6	21.4	12.2	12.2	9.2	12.2	6.2
80°	33.7	27.6	24.5	24.5	15.3	9.2	6.2	6.2	9.2	3.0	3.0
82.5°	21.4	18.4	15.3	15.3	15.3	9.2	9.2	9.2	9.2	6.2	6.2
85°	12.2	9.2	6.2	6.2	3.0	6.2	0.0	3.0	3.0	0.0	0.0
87.5°	6.2	3.0	3.0	3.0	3.0	0.0	0.0	3.0	0.0	3.0	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4	6556.4
2.5°	6608.4	6620.7	6636.1	6648.3	6675.9	6682.0	6694.3	6706.5	6715.8	6724.8	6728.0
5°	6651.3	6697.3	6740.2	6786.1	6844.4	6884.2	6930.1	6970.0	7009.8	7043.5	7068.0
7.5°	6663.7	6734.0	6798.5	6878.1	6963.8	7037.5	7114.0	7190.5	7270.2	7331.5	7383.6
10°	6688.1	6773.9	6856.6	6951.6	7061.9	7159.9	7254.9	7356.0	7457.1	7542.9	7619.6
12.5°	6731.0	6826.0	6914.9	7019.0	7132.4	7242.6	7346.8	7460.2	7567.5	7662.4	7748.2
15°	6801.5	6890.3	6976.2	7074.1	7187.5	7288.7	7392.8	7503.0	7610.3	7708.3	7788.0
17.5°	6847.4	6930.1	7015.9	7104.8	7199.7	7291.7	7389.7	7487.8	7585.8	7674.7	7748.2
20°	6847.4	6927.1	6991.4	7071.1	7159.9	7239.6	7319.3	7405.0	7490.8	7564.3	7634.8
22.5°	6792.3	6868.8	6917.9	6979.2	7055.7	7123.2	7166.1	7261.0	7325.4	7389.7	7441.7
25°	6663.7	6718.8	6758.6	6801.5	6862.8	6908.7	6945.5	7000.6	7064.9	7089.5	7126.2
27.5°	6430.8	6470.6	6492.0	6501.2	6531.9	6556.4	6562.5	6587.0	6614.6	6620.7	6636.1
30°	6063.2	6066.2	6057.0	6054.0	6038.6	6020.3	6017.1	6014.1	6001.9	5989.6	5992.7
32.5°	5508.5	5493.3	5456.5	5416.7	5376.9	5334.0	5309.4	5278.8	5260.4	5242.1	5220.6
35°	4791.6	4754.9	4702.9	4653.8	4607.9	4574.1	4519.0	4500.6	4482.3	4457.7	4451.7
37.5°	3949.1	3927.7	3878.6	3841.9	3817.5	3802.1	3774.5	3756.2	3756.2	3747.0	3740.8
40°	3079.0	3072.9	3054.5	3063.7	3051.5	3057.6	3054.5	3048.4	3063.7	3063.7	3069.9
42.5°	2310.0	2313.2	2322.4	2328.4	2346.8	2349.9	2365.2	2365.2	2374.4	2383.5	2389.7
45°	1718.7	1731.1	1731.1	1743.3	1761.7	1764.7	1770.8	1773.9	1780.0	1795.4	1801.4
47.5°	1289.8	1292.8	1292.8	1296.0	1302.0	1308.2	1305.2	1308.2	1317.4	1311.2	1317.4
50°	952.9	955.9	946.7	937.5	946.7	946.7	943.6	934.4	943.6	931.4	937.5
52.5°	649.6	646.4	637.2	640.4	634.2	631.2	631.2	625.0	625.0	625.0	612.7
55°	410.6	410.6	404.4	404.4	401.4	395.2	392.2	389.0	386.0	383.0	383.0
57.5°	229.8	232.8	223.7	220.6	223.7	220.6	214.5	214.5	214.5	205.3	211.4
60°	125.6	122.6	119.5	116.4	113.4	116.4	116.4	110.3	110.3	110.3	113.4
62.5°	67.3	67.3	64.3	64.3	61.3	61.3	67.3	58.3	61.3	58.3	61.3
65°	36.8	45.9	33.7	33.7	42.9	39.8	36.8	36.8	39.8	33.7	36.8
67.5°	39.8	27.6	24.5	27.6	24.5	24.5	24.5	30.6	27.6	21.4	27.6
70°	18.4	21.4	21.4	15.3	24.5	12.2	21.4	12.2	18.4	15.3	18.4
72.5°	18.4	18.4	18.4	12.2	18.4	12.2	15.3	15.3	12.2	12.2	18.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.2	6.2	3.0	3.0	3.0	3.0	6.2	6.2	6.2	0.0	3.0
80°	6.2	6.2	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	6.2
82.5°	3.0	6.2	3.0	3.0	6.2	6.2	6.2	3.0	3.0	3.0	3.0
85°	0.0	3.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	3.0
87.5°	0.0	3.0	0.0	0.0	0.0	0.0	3.0	3.0	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: P250220

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6556.4	6556.4	6556.4	6556.4
2.5°	6731.0	6734.0	6740.2	6737.2
5°	7086.4	7111.0	7123.2	7120.2
7.5°	7420.3	7463.3	7487.8	7487.8
10°	7677.7	7726.7	7763.4	7769.6
12.5°	7815.5	7870.8	7919.8	7907.5
15°	7855.4	7910.6	7959.5	7950.3
17.5°	7809.5	7864.6	7901.4	7895.2
20°	7683.9	7729.8	7766.6	7763.4
22.5°	7487.8	7527.6	7558.3	7555.1
25°	7156.9	7184.5	7209.0	7196.7
27.5°	6648.3	6657.5	6672.8	6654.5
30°	5971.2	5977.3	5983.5	5980.4
32.5°	5211.4	5208.3	5202.2	5196.1
35°	4442.4	4442.4	4445.5	4427.1
37.5°	3743.8	3740.8	3750.0	3740.8
40°	3076.0	3072.9	3085.2	3069.9
42.5°	2398.9	2408.1	2411.1	2411.1
45°	1804.6	1807.6	1810.6	1810.6
47.5°	1317.4	1320.5	1335.8	1317.4
50°	931.4	934.4	937.5	931.4
52.5°	615.8	618.9	615.8	606.6
55°	376.8	380.0	380.0	380.0
57.5°	202.1	205.3	205.3	202.1
60°	110.3	107.2	110.3	104.2
62.5°	58.3	64.3	61.3	55.1
65°	36.8	36.8	36.8	42.9
67.5°	30.6	24.5	27.6	21.4
70°	18.4	21.4	21.4	15.3
72.5°	15.3	15.3	15.3	18.4
75°	0.0	0.0	0.0	0.0
77.5°	6.2	6.2	6.2	3.0
80°	3.0	0.0	3.0	0.0
82.5°	3.0	3.0	6.2	3.0
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)