

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: P250231

Luminaire Tested: **LD8B200D010 ER8B200840 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250231
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: LD8B200D010 ER8B200840 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21902.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

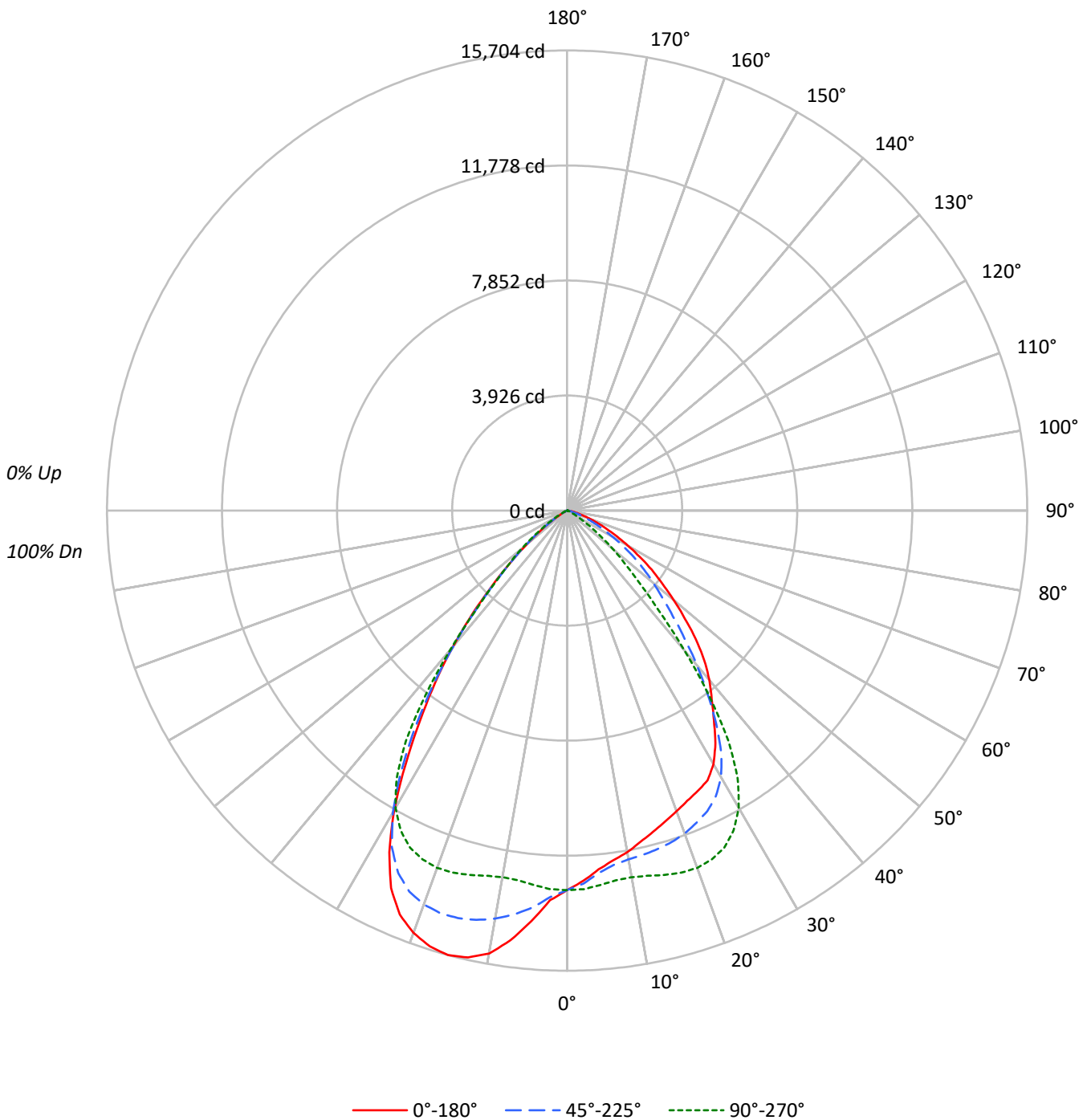
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	399352	399352	399352
5°	380460	397129	435351
10°	370647	397744	480552
15°	362243	410927	501342
20°	358255	425775	503223
25°	359097	431786	483673
30°	355764	416962	420626
35°	328739	360853	329187
40°	303780	250186	244100
45°	270507	150962	155968
50°	227607	97260	88260
55°	189359	53353	40348
60°	147798	23133	12692
65°	109068	11485	6180
70°	75842	7096	2714
75°	46144	1454	0
80°	33314	2166	0
85°	21405	2123	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1245.0	5.7
10°-20°	3726.1	17.0
20°-30°	5706.2	26.1
30°-40°	5594.0	25.5
40°-50°	3368.7	15.4
50°-60°	1550.5	7.1
60°-70°	544.7	2.5
70°-80°	142.5	0.7
80°-90°	24.3	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°	10677.4	48.8
0°-40°	16271.4	74.3
0°-60°	21190.6	96.8
0°-90°	21902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21902.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12951	12951	12951	12951	12951	
5°	12291	12406	12830	13598	14064	###
15°	11347	11958	12872	14397	15704	3206
25°	10554	11317	12691	13647	14216	4861
35°	8733	8854	9586	9035	8745	5469
45°	6203	5108	3462	3486	3576	4757
55°	3522	2790	992	781	750	3143
65°	1495	1035	157	79	85	1523
75°	387	224	12	0	0	470
85°	60	30	6	0	0	83
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°	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7
2.5°	12648.0	12660.3	12660.3	12660.3	12684.4	12690.6	12684.4	12690.6	12702.6	12744.9	12763.1
5°	12291.1	12272.9	12285.1	12278.9	12309.3	12327.5	12315.3	12333.4	12375.8	12406.2	12436.3
7.5°	12037.0	12037.0	12037.0	12049.0	12067.2	12103.5	12097.5	12109.5	12151.9	12194.2	12236.5
10°	11837.2	11831.3	11831.3	11861.4	11885.6	11927.9	11940.1	11976.5	12030.8	12085.3	12133.7
12.5°	11576.9	11583.2	11613.3	11643.7	11698.0	11764.5	11800.9	11849.4	11934.1	12024.8	12079.4
15°	11347.0	11353.0	11377.4	11437.7	11504.5	11583.2	11661.6	11740.3	11843.2	11958.3	12055.2
17.5°	11123.1	11129.1	11147.3	11214.0	11298.7	11401.6	11492.2	11595.1	11728.4	11861.4	11982.5
20°	10917.3	10911.4	10941.5	11002.0	11111.1	11207.8	11298.7	11419.8	11565.0	11728.4	11867.4
22.5°	10717.6	10717.6	10748.0	10808.5	10905.4	11002.0	11098.9	11226.0	11371.2	11528.6	11692.0
25°	10554.2	10548.2	10590.5	10620.9	10693.4	10790.3	10893.2	10996.1	11141.3	11316.9	11474.1
27.5°	10378.8	10372.8	10378.8	10415.2	10481.7	10554.2	10632.9	10723.8	10844.8	10990.1	11141.3
30°	9991.5	9997.4	9997.4	10027.8	10064.2	10142.7	10185.0	10275.9	10384.8	10505.8	10639.1
32.5°	9416.5	9422.5	9422.5	9434.7	9464.9	9501.2	9537.6	9604.1	9688.8	9791.7	9912.7
35°	8732.8	8732.8	8726.5	8732.8	8751.0	8751.0	8781.1	8751.0	8793.3	8853.8	8944.5
37.5°	8103.3	8091.1	8079.1	8066.9	8048.8	8018.6	7976.3	7903.5	7885.4	7861.2	7867.2
40°	7546.6	7540.6	7504.2	7473.8	7413.3	7340.8	7238.0	7110.9	7008.0	6887.0	6784.1
42.5°	6929.3	6923.1	6893.0	6838.4	6771.9	6663.0	6499.6	6330.3	6124.5	5942.9	5755.3
45°	6203.0	6221.1	6178.8	6118.3	6039.6	5936.7	5755.3	5549.3	5343.6	5107.7	4871.6
47.5°	5446.5	5440.5	5410.3	5374.0	5307.5	5204.6	5083.5	4859.6	4641.6	4423.9	4181.8
50°	4744.5	4720.4	4708.1	4672.0	4629.7	4545.0	4417.7	4236.1	4042.6	3836.8	3612.9
52.5°	4078.9	4078.9	4048.5	4024.4	3988.0	3921.5	3812.6	3667.4	3504.0	3310.2	3074.3
55°	3522.2	3510.0	3479.9	3449.5	3413.1	3370.8	3274.1	3153.0	2977.4	2789.9	2584.1
57.5°	2929.1	2922.9	2910.9	2874.6	2856.4	2814.0	2705.2	2584.1	2432.9	2269.5	2099.9
60°	2396.5	2372.4	2348.0	2323.8	2293.7	2251.3	2178.6	2075.7	1948.7	1803.4	1634.1
62.5°	1918.5	1954.6	1882.2	1882.2	1821.6	1785.3	1718.8	1658.2	1525.0	1391.9	1246.7
65°	1494.8	1494.8	1464.4	1440.3	1403.9	1361.6	1295.0	1234.5	1137.6	1034.7	931.9
67.5°	1143.8	1137.6	1107.5	1083.3	1052.9	1028.8	980.4	907.7	835.2	750.5	665.6
70°	841.2	835.2	829.0	786.6	762.5	732.3	696.0	647.6	593.1	532.6	453.9
72.5°	605.1	605.1	587.1	568.9	544.8	520.4	484.2	453.9	405.5	363.2	308.6
75°	387.3	381.4	381.4	351.0	351.0	314.6	290.4	272.3	248.1	223.9	175.6
77.5°	278.5	272.3	266.3	254.1	242.1	229.9	211.7	187.6	169.4	145.2	127.0
80°	187.6	175.6	169.4	169.4	151.2	145.2	151.2	115.1	108.9	90.7	78.7
82.5°	115.1	115.1	108.9	108.9	102.9	96.9	78.7	78.7	72.7	66.5	54.6
85°	60.5	78.7	54.6	60.5	54.6	60.5	54.6	42.3	36.4	30.1	30.1
87.5°	36.4	24.2	24.2	36.4	30.1	24.2	24.2	24.2	18.2	12.2	12.2
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°	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7
2.5°	12751.2	12793.5	12787.3	12841.8	12860.0	12902.4	12902.4	12932.5	12950.7	12993.0	13029.4
5°	12448.5	12515.0	12533.2	12599.7	12654.3	12720.8	12763.1	12829.6	12890.2	12981.1	13065.8
7.5°	12261.0	12315.3	12351.6	12430.3	12490.9	12563.4	12636.1	12726.8	12811.5	12920.6	13041.6
10°	12170.0	12242.8	12297.1	12375.8	12448.5	12527.2	12599.7	12702.6	12799.5	12938.7	13071.8
12.5°	12145.9	12230.6	12297.1	12406.2	12478.7	12563.4	12648.0	12763.1	12866.0	13011.2	13162.7
15°	12145.9	12261.0	12351.6	12472.7	12557.4	12666.2	12757.2	12872.0	12987.1	13138.3	13283.5
17.5°	12121.7	12261.0	12375.8	12515.0	12623.9	12733.0	12847.8	12956.9	13077.7	13223.2	13386.4
20°	12024.8	12200.4	12339.4	12502.8	12617.9	12739.0	12854.1	12974.9	13102.1	13253.3	13392.6
22.5°	11855.4	12061.2	12218.6	12394.0	12527.2	12648.0	12763.1	12884.2	13023.4	13168.7	13313.9
25°	11631.5	11825.0	11994.7	12176.0	12309.3	12442.3	12551.4	12690.6	12817.7	12956.9	13071.8
27.5°	11292.5	11498.2	11661.6	11849.4	11970.3	12097.5	12188.2	12303.3	12424.4	12539.2	12630.1
30°	10784.3	10971.9	11141.3	11310.7	11431.7	11522.6	11619.3	11710.2	11788.9	11867.4	11946.1
32.5°	10039.8	10209.4	10372.8	10530.0	10626.9	10705.6	10778.1	10832.6	10875.0	10917.3	10923.3
35°	9017.2	9156.2	9259.1	9398.4	9489.3	9561.8	9561.8	9585.9	9579.9	9561.8	9543.6
37.5°	7873.4	7927.7	7970.0	8024.6	8030.6	8030.6	7994.5	7964.1	7915.7	7903.5	7867.2
40°	6681.2	6608.5	6553.9	6481.5	6439.1	6348.2	6269.7	6215.2	6136.5	6124.5	6112.3
42.5°	5549.3	5380.0	5228.8	5101.7	4956.5	4829.2	4714.4	4629.7	4569.1	4562.9	4569.1
45°	4629.7	4435.9	4211.9	4036.6	3873.2	3715.8	3564.5	3461.7	3407.1	3394.9	3407.1
47.5°	3933.7	3709.8	3491.8	3292.0	3116.7	2941.1	2789.9	2650.6	2584.1	2565.9	2559.9
50°	3383.0	3153.0	2922.9	2717.1	2523.6	2348.0	2160.4	2027.4	1942.7	1912.3	1888.1
52.5°	2844.4	2638.7	2402.5	2190.8	1997.0	1791.2	1597.7	1446.2	1361.6	1325.4	1301.0
55°	2372.4	2166.6	1948.7	1742.9	1537.2	1331.4	1137.6	992.4	901.7	859.4	829.0
57.5°	1894.1	1700.6	1513.0	1307.3	1137.6	938.1	744.3	617.3	538.5	490.2	466.1
60°	1464.4	1313.2	1149.8	980.4	817.0	653.6	496.2	375.1	314.6	278.5	248.1
62.5°	1107.5	980.4	871.3	726.1	599.1	459.8	339.0	242.1	187.6	157.4	145.2
65°	798.8	701.9	605.1	514.4	423.7	320.8	229.9	157.4	108.9	90.7	84.7
67.5°	568.9	490.2	417.5	357.0	290.4	229.9	163.4	108.9	84.7	72.7	66.5
70°	399.3	339.0	290.4	236.1	193.5	151.2	127.0	78.7	48.3	54.6	42.3
72.5°	266.3	223.9	199.8	163.4	133.0	108.9	78.7	54.6	54.6	42.3	36.4
75°	145.2	133.0	102.9	78.7	66.5	60.5	24.2	12.2	6.0	18.2	6.0
77.5°	102.9	90.7	78.7	66.5	54.6	42.3	24.2	24.2	18.2	24.2	12.2
80°	66.5	54.6	48.3	48.3	30.1	18.2	12.2	12.2	18.2	6.0	6.0
82.5°	42.3	36.4	30.1	30.1	30.1	18.2	18.2	18.2	18.2	12.2	12.2
85°	24.2	18.2	12.2	12.2	6.0	12.2	0.0	6.0	6.0	0.0	0.0
87.5°	12.2	6.0	6.0	6.0	6.0	0.0	0.0	6.0	0.0	6.0	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°	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7	12950.7
2.5°	13053.6	13077.7	13108.1	13132.3	13186.8	13198.8	13223.2	13247.4	13265.6	13283.5	13289.7
5°	13138.3	13229.2	13313.9	13404.6	13519.6	13598.3	13689.0	13767.7	13846.4	13913.0	13961.3
7.5°	13162.7	13301.7	13429.0	13586.1	13755.5	13901.0	14052.2	14203.4	14360.8	14481.9	14584.8
10°	13211.0	13380.4	13543.8	13731.4	13949.3	14142.9	14330.4	14530.2	14730.0	14899.4	15050.8
12.5°	13295.7	13483.3	13658.9	13864.6	14088.6	14306.3	14512.0	14736.0	14947.9	15135.5	15304.9
15°	13434.9	13610.3	13779.9	13973.5	14197.4	14397.2	14602.9	14820.7	15032.6	15226.2	15383.6
17.5°	13525.6	13689.0	13858.4	14034.0	14221.6	14403.2	14596.7	14790.5	14984.1	15159.7	15304.9
20°	13525.6	13683.0	13810.1	13967.5	14142.9	14300.3	14457.7	14627.1	14796.5	14941.7	15081.0
22.5°	13416.8	13568.0	13664.9	13785.9	13937.1	14070.4	14155.1	14342.6	14469.7	14596.7	14699.6
25°	13162.7	13271.5	13350.2	13434.9	13556.0	13646.7	13719.4	13828.3	13955.3	14003.9	14076.4
27.5°	12702.6	12781.3	12823.7	12841.8	12902.4	12950.7	12962.9	13011.2	13065.8	13077.7	13108.1
30°	11976.5	11982.5	11964.3	11958.3	11927.9	11891.8	11885.6	11879.6	11855.4	11831.3	11837.2
32.5°	10881.0	10850.8	10778.1	10699.6	10620.9	10536.2	10487.6	10427.1	10390.7	10354.6	10312.3
35°	9464.9	9392.4	9289.5	9192.6	9101.9	9035.2	8926.3	8890.0	8853.8	8805.3	8793.3
37.5°	7800.7	7758.3	7661.4	7588.9	7540.6	7510.2	7455.7	7419.5	7419.5	7401.4	7389.2
40°	6081.9	6069.9	6033.6	6051.8	6027.6	6039.6	6033.6	6021.4	6051.8	6051.8	6064.0
42.5°	4562.9	4569.1	4587.3	4599.3	4635.7	4641.6	4672.0	4672.0	4690.2	4708.1	4720.4
45°	3394.9	3419.3	3419.3	3443.5	3479.9	3485.8	3497.8	3504.0	3516.0	3546.4	3558.3
47.5°	2547.7	2553.7	2553.7	2559.9	2571.9	2584.1	2578.1	2584.1	2602.3	2590.1	2602.3
50°	1882.2	1888.1	1870.0	1851.8	1870.0	1870.0	1864.0	1845.8	1864.0	1839.8	1851.8
52.5°	1283.1	1276.9	1258.7	1264.9	1252.7	1246.7	1246.7	1234.5	1234.5	1234.5	1210.4
55°	811.1	811.1	798.8	798.8	792.9	780.7	774.7	768.5	762.5	756.5	756.5
57.5°	453.9	459.8	441.9	435.7	441.9	435.7	423.7	423.7	423.7	405.5	417.5
60°	248.1	242.1	236.1	229.9	223.9	229.9	229.9	218.0	218.0	218.0	223.9
62.5°	133.0	133.0	127.0	127.0	121.1	121.1	133.0	115.1	121.1	115.1	121.1
65°	72.7	90.7	66.5	66.5	84.7	78.7	72.7	72.7	78.7	66.5	72.7
67.5°	78.7	54.6	48.3	54.6	48.3	48.3	48.3	60.5	54.6	42.3	54.6
70°	36.4	42.3	42.3	30.1	48.3	24.2	42.3	24.2	36.4	30.1	36.4
72.5°	36.4	36.4	36.4	24.2	36.4	24.2	30.1	30.1	24.2	24.2	36.4
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°	12.2	12.2	6.0	6.0	6.0	6.0	12.2	12.2	12.2	0.0	6.0
80°	12.2	12.2	0.0	6.0	0.0	0.0	6.0	0.0	6.0	0.0	12.2
82.5°	6.0	12.2	6.0	6.0	12.2	12.2	12.2	6.0	6.0	6.0	6.0
85°	0.0	6.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.0	6.0
87.5°	0.0	6.0	0.0	0.0	0.0	0.0	6.0	6.0	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: P250231

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	12950.7	12950.7	12950.7	12950.7
2.5°	13295.7	13301.7	13313.9	13307.9
5°	13997.6	14046.2	14070.4	14064.4
7.5°	14657.2	14742.2	14790.5	14790.5
10°	15165.7	15262.5	15335.0	15347.2
12.5°	15437.9	15547.0	15643.9	15619.5
15°	15516.6	15625.7	15722.4	15704.2
17.5°	15426.0	15534.8	15607.5	15595.3
20°	15177.9	15268.5	15341.3	15335.0
22.5°	14790.5	14869.2	14929.8	14923.5
25°	14136.9	14191.4	14239.8	14215.6
27.5°	13132.3	13150.5	13180.6	13144.5
30°	11794.9	11806.9	11819.1	11813.1
32.5°	10294.1	10287.9	10275.9	10263.7
35°	8775.1	8775.1	8781.1	8744.7
37.5°	7395.1	7389.2	7407.3	7389.2
40°	6075.9	6069.9	6094.1	6064.0
42.5°	4738.5	4756.7	4762.7	4762.7
45°	3564.5	3570.5	3576.5	3576.5
47.5°	2602.3	2608.3	2638.7	2602.3
50°	1839.8	1845.8	1851.8	1839.8
52.5°	1216.3	1222.6	1216.3	1198.1
55°	744.3	750.5	750.5	750.5
57.5°	399.3	405.5	405.5	399.3
60°	218.0	211.7	218.0	205.8
62.5°	115.1	127.0	121.1	108.9
65°	72.7	72.7	72.7	84.7
67.5°	60.5	48.3	54.6	42.3
70°	36.4	42.3	42.3	30.1
72.5°	30.1	30.1	30.1	36.4
75°	0.0	0.0	0.0	0.0
77.5°	12.2	12.2	12.2	6.0
80°	6.0	0.0	6.0	0.0
82.5°	6.0	6.0	12.2	6.0
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)