

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: P248442

Luminaire Tested: **LD8B200D010 ER8B200827 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200827 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20718.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

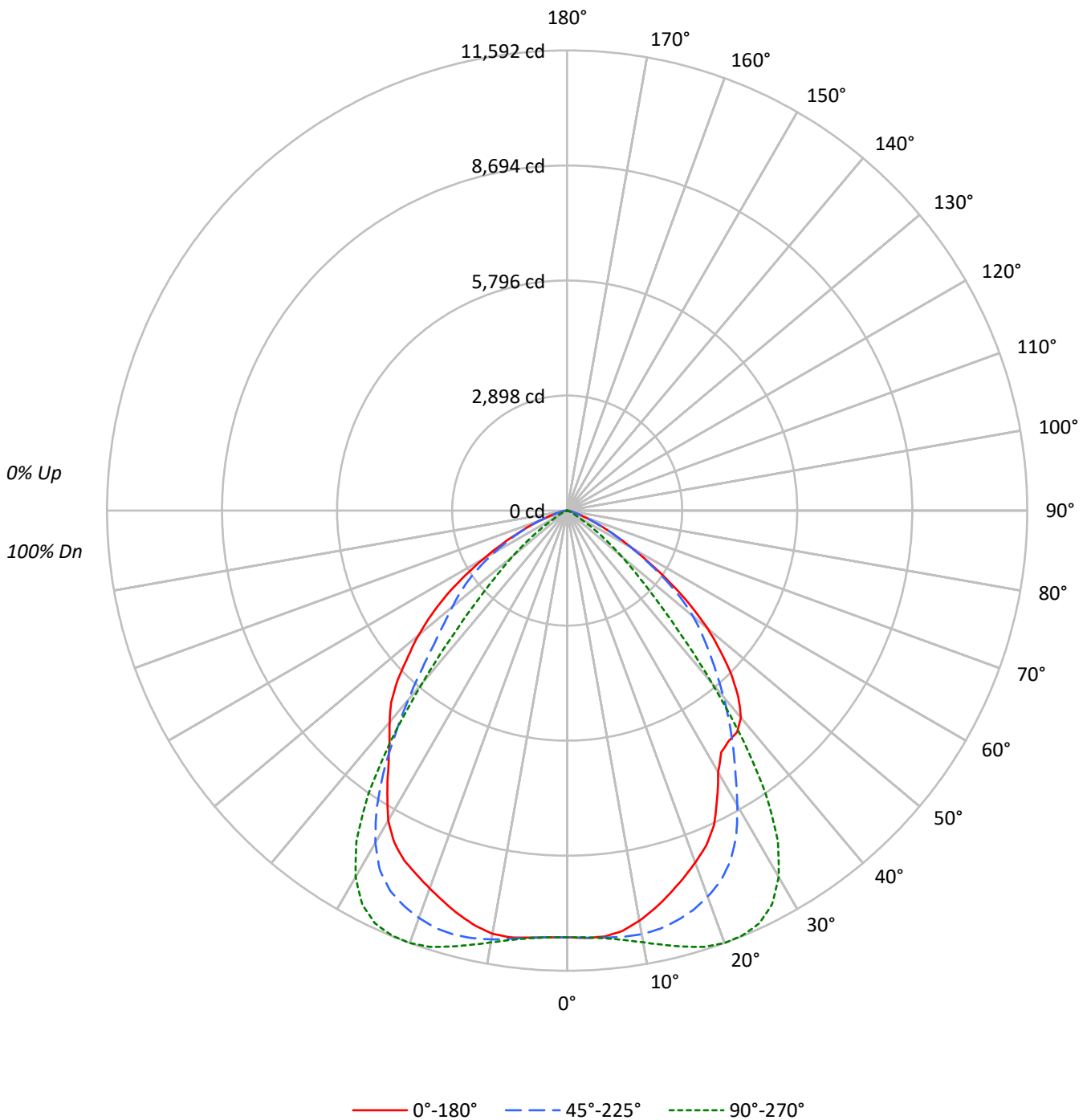
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	331423	331423	331423
5°	333397	334632	334276
10°	328497	345826	339037
15°	318893	362964	336375
20°	309639	380398	332288
25°	297748	390141	330748
30°	270971	379446	320941
35°	266935	328788	295285
40°	274194	228035	279930
45°	255253	137822	263212
50°	221404	85113	234539
55°	169908	44471	199046
60°	115753	17941	150228
65°	72009	9157	103639
70°	39093	5662	63265
75°	20385	2716	37387
80°	9128	3054	20244
85°	6085	2017	18186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1033.6	5.0
10°-20°	3061.9	14.8
20°-30°	4671.2	22.5
30°-40°	4874.5	23.5
40°-50°	3661.4	17.7
50°-60°	2252.8	10.9
60°-70°	916.8	4.4
70°-80°	216.0	1.0
80°-90°	29.7	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°	8766.8	42.3
0°-40°	13641.3	65.8
0°-60°	19555.5	94.4
0°-90°	20718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20718.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10748	10748	10748	10748	10748	
5°	10771	10799	10811	10799	10799	###
15°	9989	10691	11370	11056	10537	2814
25°	8751	9732	11467	10560	9721	3978
35°	7091	7291	8734	8072	7844	4477
45°	5853	5066	3160	4718	6036	4466
55°	3160	3001	827	3001	3702	2841
65°	987	998	126	1341	1420	1029
75°	171	171	23	302	314	206
85°	17	17	6	40	51	24
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°	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8
2.5°	10776.4	10759.2	10776.4	10776.4	10782.1	10770.7	10776.4	10782.1	10770.7	10770.7	10770.7
5°	10770.7	10759.2	10770.7	10764.9	10776.4	10776.4	10787.8	10787.8	10799.1	10799.1	10816.3
7.5°	10679.4	10656.6	10679.4	10696.5	10707.8	10730.7	10759.2	10782.1	10804.9	10827.7	10856.2
10°	10491.1	10491.1	10508.2	10542.4	10576.6	10616.6	10667.9	10725.0	10782.1	10833.3	10884.7
12.5°	10257.3	10240.1	10274.3	10319.9	10371.3	10434.1	10514.0	10599.5	10690.8	10793.4	10873.4
15°	9989.1	9971.9	10011.9	10057.5	10120.3	10211.6	10308.6	10422.7	10553.9	10690.8	10822.0
17.5°	9715.2	9709.5	9749.4	9812.3	9863.6	9960.5	10086.1	10222.9	10371.3	10553.9	10725.0
20°	9435.8	9430.1	9470.0	9521.4	9589.8	9681.0	9806.5	9966.2	10143.1	10348.5	10548.2
22.5°	9144.8	9150.5	9184.7	9241.8	9298.9	9395.7	9526.9	9686.8	9880.7	10103.2	10325.7
25°	8751.1	8722.6	8768.3	8825.4	8922.3	9002.1	9127.7	9298.9	9498.5	9732.4	9994.8
27.5°	8180.6	8174.9	8215.0	8266.2	8351.8	8448.8	8585.7	8762.6	8973.6	9230.3	9487.0
30°	7610.1	7621.6	7638.7	7690.1	7747.1	7844.1	7981.0	8129.4	8329.0	8574.3	8848.1
32.5°	7222.2	7222.2	7245.1	7279.3	7319.2	7370.6	7467.6	7575.9	7730.0	7901.2	8100.8
35°	7091.0	7068.3	7091.0	7096.7	7102.5	7113.9	7130.9	7165.3	7216.5	7290.8	7364.9
37.5°	7034.1	7016.9	7016.9	6994.1	6965.5	6931.3	6885.7	6834.3	6777.4	6703.1	6646.1
40°	6811.6	6800.1	6788.7	6765.9	6703.1	6634.7	6560.4	6440.7	6309.5	6126.9	5944.4
42.5°	6383.7	6372.3	6366.6	6320.9	6263.8	6184.0	6098.4	5972.9	5807.5	5573.6	5311.1
45°	5853.2	5830.3	5813.2	5773.3	5733.3	5664.9	5585.0	5470.8	5305.4	5065.9	4752.1
47.5°	5237.0	5225.6	5219.9	5202.8	5162.9	5122.8	5071.6	4980.3	4831.9	4603.7	4278.6
50°	4615.2	4592.4	4603.7	4598.1	4581.0	4552.5	4518.1	4455.5	4341.3	4136.0	3839.3
52.5°	3902.0	3902.0	3896.4	3913.5	3919.2	3913.5	3919.2	3850.8	3753.8	3599.7	3348.7
55°	3160.4	3160.4	3177.6	3200.4	3223.2	3228.9	3223.2	3194.7	3126.2	3000.7	2778.2
57.5°	2464.4	2453.1	2487.3	2521.5	2544.4	2567.1	2550.0	2527.2	2487.3	2384.6	2213.4
60°	1876.9	1876.9	1899.6	1922.5	1945.3	1968.2	1962.5	1956.7	1922.5	1854.0	1717.2
62.5°	1380.5	1386.2	1386.2	1403.4	1426.2	1449.0	1466.1	1449.0	1431.9	1386.2	1294.9
65°	986.9	981.2	986.9	1004.0	1021.2	1044.0	1055.4	1049.7	1032.5	998.3	929.9
67.5°	661.8	656.1	678.8	684.5	696.0	718.9	713.1	718.9	713.1	684.5	627.6
70°	433.6	422.1	433.6	427.8	445.0	450.7	462.0	467.8	462.0	445.0	427.8
72.5°	268.1	262.4	268.1	273.9	279.6	285.2	296.6	296.6	290.9	279.6	256.7
75°	171.1	154.0	159.7	148.4	159.7	159.7	171.1	176.9	171.1	171.1	159.7
77.5°	102.7	102.7	102.7	102.7	102.7	102.7	102.7	108.5	114.0	102.7	97.0
80°	51.4	51.4	57.1	57.1	57.1	62.8	57.1	57.1	57.1	62.8	45.6
82.5°	39.9	34.2	34.2	34.2	39.9	34.2	34.2	34.2	34.2	34.2	34.2
85°	17.2	22.8	17.2	11.4	17.2	17.2	22.8	17.2	17.2	17.2	22.8
87.5°	5.7	5.7	0.0	0.0	0.0	5.7	0.0	5.7	5.7	11.4	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8
2.5°	10776.4	10764.9	10764.9	10759.2	10770.7	10759.2	10764.9	10759.2	10759.2	10770.7	10759.2
5°	10816.3	10822.0	10810.6	10804.9	10822.0	10822.0	10822.0	10810.6	10810.6	10816.3	10810.6
7.5°	10873.4	10884.7	10890.4	10896.1	10907.6	10913.3	10913.3	10907.6	10901.9	10919.0	10896.1
10°	10936.1	10953.2	10987.4	11004.6	11033.1	11033.1	11044.5	11044.5	11033.1	11044.5	11038.8
12.5°	10913.3	11015.9	11073.0	11112.9	11152.8	11187.0	11198.5	11204.2	11198.5	11221.4	11198.5
15°	10953.2	11038.8	11130.1	11198.5	11272.6	11312.5	11324.0	11369.6	11381.1	11386.8	11352.6
17.5°	10890.4	11044.5	11141.4	11244.1	11352.6	11426.7	11495.1	11523.7	11529.4	11540.8	11495.1
20°	10747.8	10919.0	11067.3	11215.7	11341.1	11455.2	11512.3	11592.1	11569.4	11615.0	11552.2
22.5°	10553.9	10747.8	10936.1	11130.1	11261.3	11398.2	11518.0	11575.0	11603.6	11603.6	11535.0
25°	10245.8	10474.0	10679.4	10879.0	11078.7	11244.1	11381.1	11466.6	11483.8	11478.1	11398.2
27.5°	9766.6	10011.9	10251.5	10479.8	10725.0	10919.0	11078.7	11181.3	11209.9	11209.9	11124.4
30°	9104.8	9367.3	9601.2	9874.9	10126.0	10342.8	10565.3	10656.6	10707.8	10707.8	10611.0
32.5°	8317.6	8540.1	8756.8	9025.0	9298.9	9544.1	9755.2	9880.7	9943.5	9937.7	9852.2
35°	7461.9	7570.2	7735.8	7935.4	8180.6	8408.8	8614.2	8734.1	8842.4	8836.7	8756.8
37.5°	6606.1	6577.6	6594.8	6668.9	6822.9	6982.7	7142.4	7256.6	7347.7	7387.8	7370.6
40°	5767.6	5619.2	5476.6	5425.3	5436.6	5493.7	5579.3	5664.9	5767.6	5819.0	5841.7
42.5°	5014.5	4763.5	4512.4	4324.3	4215.8	4181.6	4221.5	4250.0	4312.8	4386.9	4461.2
45°	4409.8	4073.3	3742.3	3451.4	3268.8	3160.4	3137.6	3160.4	3194.7	3268.8	3365.9
47.5°	3913.5	3519.8	3149.1	2823.8	2555.7	2413.2	2373.3	2361.8	2396.0	2464.4	2595.6
50°	3474.2	3080.5	2669.9	2293.3	2013.8	1854.0	1797.0	1774.2	1814.1	1865.4	1985.2
52.5°	2995.0	2607.1	2185.0	1819.8	1528.9	1363.5	1300.7	1266.5	1289.2	1357.8	1477.5
55°	2475.9	2116.4	1734.2	1357.8	1078.2	924.2	849.9	827.2	849.9	924.2	1044.0
57.5°	1956.7	1654.4	1334.9	981.2	730.2	576.2	502.0	479.2	542.0	570.5	696.0
60°	1528.9	1283.6	1009.8	718.9	502.0	382.2	308.1	290.9	319.5	370.7	473.5
62.5°	1146.7	992.6	775.8	513.4	370.7	245.3	205.3	188.3	205.3	245.3	325.2
65°	832.9	713.1	542.0	376.5	251.0	182.6	136.9	125.5	142.7	171.1	239.7
67.5°	570.5	479.2	376.5	262.4	171.1	114.0	97.0	97.0	102.7	125.5	176.9
70°	370.7	313.8	239.7	171.1	114.0	85.6	74.1	62.8	74.1	91.3	119.8
72.5°	233.9	199.6	154.0	119.8	85.6	62.8	51.4	45.6	57.1	68.4	91.3
75°	142.7	108.5	79.8	62.8	45.6	45.6	45.6	22.8	28.5	45.6	57.1
77.5°	85.6	74.1	62.8	51.4	39.9	22.8	22.8	22.8	28.5	34.2	51.4
80°	45.6	39.9	28.5	28.5	22.8	17.2	22.8	17.2	11.4	28.5	34.2
82.5°	28.5	22.8	22.8	22.8	28.5	11.4	17.2	11.4	17.2	22.8	17.2
85°	17.2	17.2	17.2	11.4	28.5	11.4	11.4	5.7	5.7	11.4	11.4
87.5°	0.0	5.7	5.7	0.0	5.7	0.0	5.7	5.7	5.7	5.7	5.7
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°	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8	10747.8
2.5°	10764.9	10759.2	10764.9	10759.2	10759.2	10759.2	10764.9	10764.9	10759.2	10759.2	10770.7
5°	10810.6	10810.6	10810.6	10804.9	10799.1	10799.1	10810.6	10810.6	10793.4	10810.6	10810.6
7.5°	10907.6	10890.4	10907.6	10884.7	10873.4	10879.0	10884.7	10873.4	10861.9	10867.7	10867.7
10°	11033.1	11015.9	11015.9	10998.9	10981.7	10970.3	10959.0	10930.3	10901.9	10896.1	10873.4
12.5°	11181.3	11152.8	11135.8	11101.5	11073.0	11033.1	10998.9	10953.2	10896.1	10856.2	10816.3
15°	11329.7	11284.1	11244.1	11187.0	11124.4	11055.8	10981.7	10907.6	10816.3	10736.5	10667.9
17.5°	11449.5	11386.8	11312.5	11221.4	11130.1	11027.4	10919.0	10810.6	10679.4	10576.6	10496.8
20°	11489.4	11398.2	11301.2	11181.3	11061.6	10919.0	10782.1	10639.4	10491.1	10382.7	10291.5
22.5°	11438.2	11329.7	11209.9	11084.4	10924.6	10770.7	10611.0	10445.4	10314.2	10166.0	10080.4
25°	11295.5	11164.3	11033.1	10884.7	10730.7	10559.6	10388.5	10217.3	10057.5	9977.7	9869.3
27.5°	11004.6	10861.9	10719.3	10565.3	10388.5	10217.3	10040.5	9874.9	9738.1	9629.7	9567.0
30°	10491.1	10325.7	10160.2	9994.8	9840.7	9663.9	9498.5	9361.5	9224.6	9139.0	9076.4
32.5°	9703.8	9555.6	9390.1	9230.3	9087.8	8939.4	8802.5	8682.7	8585.7	8528.6	8483.0
35°	8642.8	8494.4	8368.9	8254.9	8135.0	8072.3	7986.7	7918.2	7878.3	7855.5	7849.8
37.5°	7307.8	7222.2	7182.3	7159.5	7136.7	7119.6	7130.9	7159.5	7182.3	7222.2	7267.9
40°	5881.6	5955.8	5978.6	6058.5	6132.6	6229.6	6338.1	6463.6	6566.2	6697.4	6788.7
42.5°	4581.0	4717.9	4877.6	5048.7	5231.3	5408.2	5624.9	5824.5	6007.1	6172.5	6315.2
45°	3519.8	3730.9	3970.5	4215.8	4461.2	4717.9	4980.3	5225.6	5442.4	5619.2	5767.6
47.5°	2744.0	2977.9	3286.0	3588.4	3885.0	4187.3	4478.2	4734.9	4917.5	5088.6	5219.9
50°	2173.5	2441.7	2778.2	3126.2	3451.4	3770.8	4078.9	4318.5	4501.1	4638.0	4734.9
52.5°	1682.9	2002.4	2344.6	2709.8	3057.8	3405.8	3691.0	3913.5	4061.8	4181.6	4255.7
55°	1255.0	1568.8	1934.0	2310.4	2664.2	3000.7	3268.8	3462.9	3594.1	3662.5	3702.4
57.5°	907.0	1192.3	1557.4	1934.0	2253.4	2572.9	2789.6	2966.5	3040.6	3080.5	3097.7
60°	661.8	924.2	1249.3	1574.5	1876.9	2133.6	2321.9	2441.7	2498.7	2521.5	2515.8
62.5°	484.9	713.1	992.6	1266.5	1511.7	1722.8	1871.2	1951.0	1979.6	1990.9	1973.9
65°	370.7	547.6	787.3	998.3	1186.6	1340.6	1449.0	1500.4	1517.4	1511.7	1500.4
67.5°	273.9	410.8	587.7	747.3	884.3	1004.0	1061.1	1106.8	1118.1	1101.1	1083.9
70°	194.0	302.3	427.8	536.3	638.9	707.4	770.1	775.8	775.8	770.1	758.8
72.5°	136.9	211.1	290.9	365.2	427.8	479.2	502.0	519.1	513.4	507.7	496.4
75°	91.3	131.2	211.1	228.2	285.2	302.3	325.2	325.2	330.8	313.8	313.8
77.5°	57.1	91.3	125.5	148.4	171.1	194.0	205.3	205.3	211.1	205.3	205.3
80°	34.2	57.1	68.4	102.7	102.7	119.8	125.5	131.2	119.8	136.9	119.8
82.5°	22.8	34.2	51.4	51.4	62.8	74.1	74.1	79.8	79.8	74.1	74.1
85°	17.2	22.8	28.5	34.2	34.2	39.9	34.2	34.2	39.9	45.6	39.9
87.5°	5.7	11.4	5.7	11.4	11.4	22.8	17.2	17.2	17.2	22.8	22.8
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: P248442

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10747.8	10747.8	10747.8	10747.8
2.5°	10759.2	10764.9	10759.2	10759.2
5°	10810.6	10804.9	10810.6	10799.1
7.5°	10850.5	10850.5	10844.8	10844.8
10°	10850.5	10827.7	10827.7	10827.7
12.5°	10764.9	10736.5	10719.3	10707.8
15°	10616.6	10565.3	10542.4	10536.7
17.5°	10422.7	10377.0	10348.5	10331.4
20°	10200.2	10154.5	10120.3	10126.0
22.5°	10006.1	9954.9	9932.0	9920.6
25°	9812.3	9749.4	9732.4	9721.0
27.5°	9498.5	9464.3	9447.1	9430.1
30°	9019.3	9002.1	8973.6	9013.5
32.5°	8465.9	8437.3	8414.6	8431.7
35°	7855.5	7838.4	7855.5	7844.1
37.5°	7296.5	7313.5	7336.4	7347.7
40°	6857.2	6919.9	6942.8	6954.1
42.5°	6417.9	6492.0	6537.7	6566.2
45°	5875.9	5950.0	6001.4	6035.7
47.5°	5316.9	5379.7	5430.9	5425.3
50°	4809.2	4843.4	4866.1	4889.0
52.5°	4295.6	4295.6	4301.4	4301.4
55°	3713.8	3702.4	3696.7	3702.4
57.5°	3074.8	3063.5	3057.8	3040.6
60°	2493.0	2458.8	2435.9	2435.9
62.5°	1951.0	1911.1	1894.1	1888.3
65°	1466.1	1460.4	1426.2	1420.4
67.5°	1061.1	1038.2	1015.5	1021.2
70°	747.3	713.1	713.1	701.7
72.5°	484.9	467.8	462.0	462.0
75°	302.3	302.3	290.9	313.8
77.5°	199.6	199.6	194.0	199.6
80°	119.8	119.8	119.8	114.0
82.5°	74.1	79.8	74.1	74.1
85°	39.9	45.6	34.2	51.4
87.5°	22.8	28.5	22.8	28.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)