

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: P250287

Luminaire Tested: **LD8B200D010 ER8B200930 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250287
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 ER8B200930 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18206.2 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

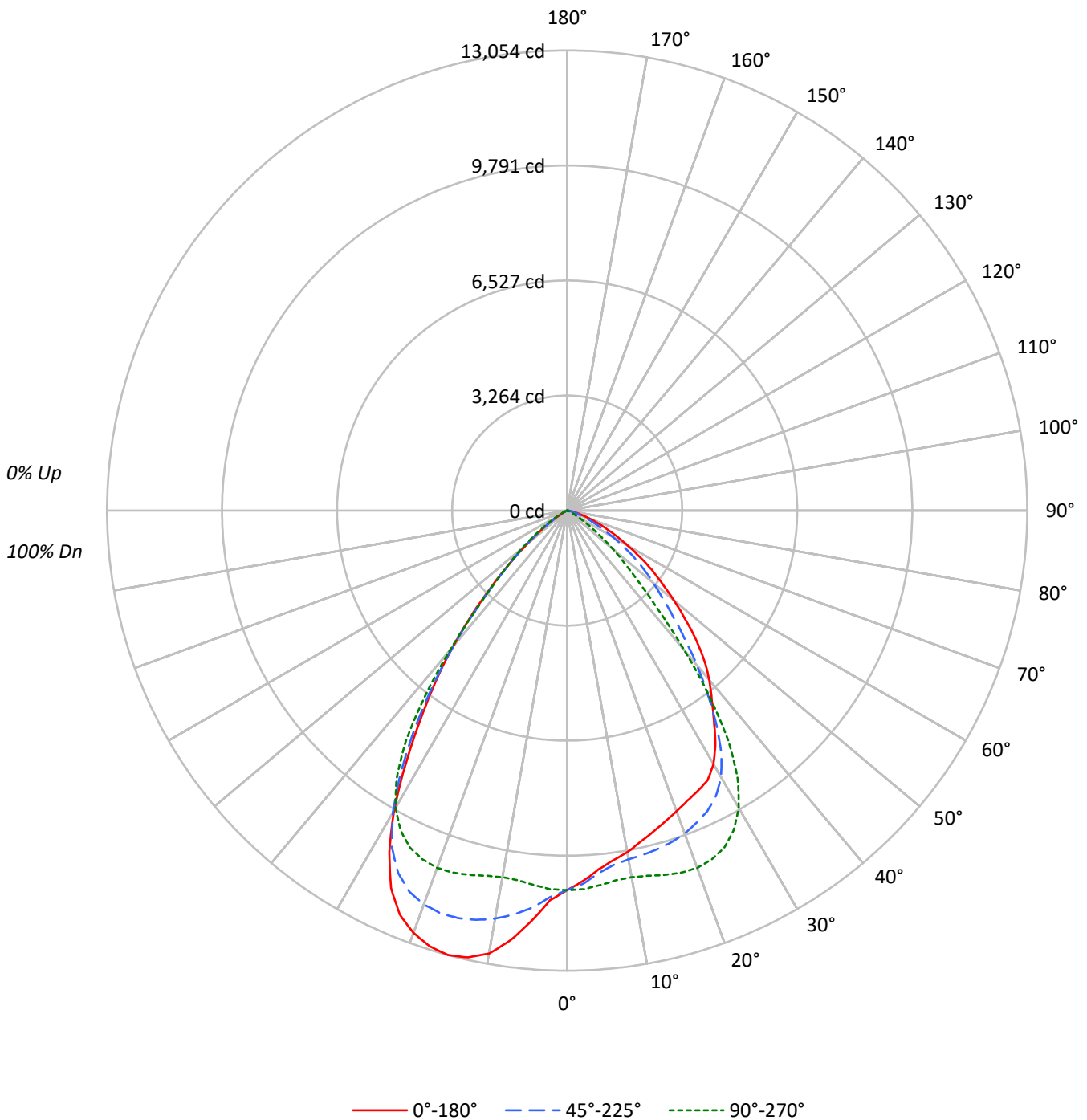
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1034.9	5.7
10°-20°	3097.4	17.0
20°-30°	4743.3	26.1
30°-40°	4650.0	25.5
40°-50°	2800.3	15.4
50°-60°	1288.9	7.1
60°-70°	452.8	2.5
70°-80°	118.4	0.7
80°-90°	20.2	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°	8875.6	48.8
0°-40°	13525.7	74.3
0°-60°	17614.8	96.8
0°-90°	18206.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18206.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10765	10765	10765	10765	10765	
5°	10217	10313	10665	11304	11691	965
15°	9432	9940	10700	11968	13054	2665
25°	8773	9407	10549	11344	11817	4041
35°	7259	7360	7968	7511	7269	4546
45°	5156	4246	2878	2898	2973	3954
55°	2928	2319	825	649	624	2612
65°	1243	860	131	66	70	1266
75°	322	186	10	0	0	390
85°	50	25	5	0	0	69
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°	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3
2.5°	10513.7	10523.9	10523.9	10523.9	10544.0	10549.2	10544.0	10549.2	10559.1	10594.3	10609.4
5°	10217.0	10201.9	10212.1	10206.9	10232.2	10247.3	10237.1	10252.2	10287.4	10312.8	10337.7
7.5°	10005.8	10005.8	10005.8	10015.8	10030.9	10061.1	10056.2	10066.1	10101.3	10136.5	10171.7
10°	9839.8	9834.8	9834.8	9859.9	9879.9	9915.1	9925.3	9955.5	10000.7	10046.0	10086.2
12.5°	9623.4	9628.6	9653.6	9678.9	9724.0	9779.3	9809.5	9849.9	9920.3	9995.7	10041.0
15°	9432.3	9437.3	9457.5	9507.6	9563.1	9628.6	9693.8	9759.2	9844.7	9940.4	10021.0
17.5°	9246.1	9251.1	9266.2	9321.7	9392.1	9477.6	9553.0	9638.5	9749.3	9859.9	9960.5
20°	9075.1	9070.1	9095.2	9145.5	9236.1	9316.5	9392.1	9492.7	9613.5	9749.3	9864.8
22.5°	8909.0	8909.0	8934.3	8984.6	9065.2	9145.5	9226.1	9331.7	9452.4	9583.2	9719.1
25°	8773.2	8768.2	8803.4	8828.7	8889.0	8969.5	9055.0	9140.5	9261.3	9407.2	9537.9
27.5°	8627.4	8622.5	8627.4	8657.7	8713.0	8773.2	8838.6	8914.2	9014.9	9135.6	9261.3
30°	8305.5	8310.4	8310.4	8335.6	8365.9	8431.2	8466.4	8541.9	8632.4	8733.0	8843.8
32.5°	7827.6	7832.5	7832.5	7842.6	7867.7	7898.0	7928.2	7983.4	8053.8	8139.4	8240.0
35°	7259.1	7259.1	7254.0	7259.1	7274.3	7274.3	7299.4	7274.3	7309.5	7359.8	7435.1
37.5°	6736.0	6725.8	6715.8	6705.7	6690.6	6665.5	6630.3	6569.8	6554.7	6534.6	6539.6
40°	6273.1	6268.2	6237.9	6212.7	6162.4	6102.1	6016.6	5911.0	5825.5	5724.8	5639.3
42.5°	5760.0	5754.9	5729.8	5684.5	5629.2	5538.6	5402.9	5262.1	5091.0	4940.0	4784.2
45°	5156.3	5171.4	5136.2	5085.9	5020.4	4934.9	4784.2	4612.9	4441.9	4245.8	4049.5
47.5°	4527.4	4522.5	4497.3	4467.2	4411.8	4326.4	4225.7	4039.5	3858.4	3677.4	3476.1
50°	3943.9	3923.8	3913.6	3883.6	3848.4	3778.0	3672.3	3521.3	3360.4	3189.4	3003.3
52.5°	3390.7	3390.7	3365.4	3345.3	3315.0	3259.8	3169.3	3048.6	2912.7	2751.6	2555.5
55°	2927.8	2917.7	2892.6	2867.4	2837.1	2801.9	2721.6	2621.0	2475.1	2319.1	2148.1
57.5°	2434.8	2429.7	2419.7	2389.5	2374.4	2339.2	2248.7	2148.1	2022.4	1886.5	1745.5
60°	1992.1	1972.1	1951.8	1931.7	1906.6	1871.4	1811.0	1725.4	1619.8	1499.1	1358.3
62.5°	1594.7	1624.8	1564.6	1564.6	1514.2	1484.0	1428.7	1378.4	1267.6	1157.1	1036.4
65°	1242.6	1242.6	1217.3	1197.2	1167.0	1131.8	1076.5	1026.2	945.7	860.1	774.6
67.5°	950.8	945.7	920.6	900.5	875.3	855.2	815.0	754.5	694.2	623.8	553.2
70°	699.3	694.2	689.1	653.9	633.8	608.8	578.5	538.4	493.0	442.7	377.2
72.5°	503.0	503.0	488.1	472.9	452.9	432.6	402.6	377.2	337.1	301.9	256.6
75°	322.0	317.0	317.0	291.8	291.8	261.5	241.5	226.3	206.3	186.2	146.0
77.5°	231.5	226.3	221.4	211.2	201.2	191.1	176.0	155.9	140.8	120.7	105.6
80°	155.9	146.0	140.8	140.8	125.7	120.7	125.7	95.6	90.5	75.3	65.5
82.5°	95.6	95.6	90.5	90.5	85.5	80.6	65.5	65.5	60.4	55.3	45.4
85°	50.3	65.5	45.4	50.3	45.4	50.3	45.4	35.2	30.3	25.1	25.1
87.5°	30.3	20.1	20.1	30.3	25.1	20.1	20.1	20.1	15.1	10.2	10.2
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°	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3
2.5°	10599.5	10634.7	10629.5	10674.8	10690.0	10725.2	10725.2	10750.3	10765.3	10800.5	10830.8
5°	10348.0	10403.2	10418.3	10473.6	10518.9	10574.2	10609.4	10664.7	10715.1	10790.6	10861.0
7.5°	10192.0	10237.1	10267.4	10332.8	10383.2	10443.3	10503.8	10579.2	10649.6	10740.3	10841.0
10°	10116.5	10176.9	10222.1	10287.4	10348.0	10413.3	10473.6	10559.1	10639.6	10755.4	10866.0
12.5°	10096.3	10166.7	10222.1	10312.8	10372.9	10443.3	10513.7	10609.4	10694.9	10815.6	10941.5
15°	10096.3	10192.0	10267.4	10368.0	10438.4	10528.9	10604.4	10699.9	10795.6	10921.2	11042.0
17.5°	10076.2	10192.0	10287.4	10403.2	10493.7	10584.4	10679.9	10770.6	10870.9	10991.9	11127.5
20°	9995.7	10141.7	10257.3	10393.0	10488.7	10589.3	10685.0	10785.5	10891.2	11017.0	11132.7
22.5°	9854.9	10025.9	10156.8	10302.6	10413.3	10513.7	10609.4	10710.0	10825.8	10946.6	11067.2
25°	9668.7	9829.6	9970.6	10121.4	10232.2	10342.7	10433.4	10549.2	10654.8	10770.6	10866.0
27.5°	9386.9	9558.0	9693.8	9849.9	9950.3	10056.2	10131.5	10227.2	10327.8	10423.3	10498.8
30°	8964.5	9120.5	9261.3	9402.1	9502.7	9578.3	9658.6	9734.2	9799.6	9864.8	9930.3
32.5°	8345.6	8486.6	8622.5	8753.1	8833.7	8899.1	8959.4	9004.7	9039.9	9075.1	9080.1
35°	7495.7	7611.1	7696.7	7812.5	7888.0	7948.2	7948.2	7968.4	7963.4	7948.2	7933.2
37.5°	6544.8	6589.9	6625.1	6670.5	6675.4	6675.4	6645.4	6620.2	6580.0	6569.8	6539.6
40°	5553.8	5493.3	5447.9	5387.8	5352.6	5277.0	5211.8	5166.4	5101.0	5091.0	5080.9
42.5°	4612.9	4472.1	4346.5	4240.9	4120.1	4014.3	3918.9	3848.4	3798.2	3792.9	3798.2
45°	3848.4	3687.3	3501.2	3355.5	3219.6	3088.7	2963.0	2877.5	2832.2	2822.0	2832.2
47.5°	3270.0	3083.8	2902.6	2736.5	2590.7	2444.8	2319.1	2203.3	2148.1	2132.9	2128.0
50°	2812.1	2621.0	2429.7	2258.6	2097.7	1951.8	1795.8	1685.3	1614.9	1589.6	1569.5
52.5°	2364.4	2193.3	1997.1	1821.1	1660.0	1489.0	1328.0	1202.2	1131.8	1101.8	1081.4
55°	1972.1	1801.0	1619.8	1448.8	1277.8	1106.8	945.7	824.9	749.6	714.4	689.1
57.5°	1574.4	1413.6	1257.6	1086.7	945.7	779.8	618.7	513.1	447.6	407.5	387.4
60°	1217.3	1091.6	955.8	815.0	679.2	543.3	412.4	311.9	261.5	231.5	206.3
62.5°	920.6	815.0	724.3	603.5	497.9	382.3	281.8	201.2	155.9	130.8	120.7
65°	664.1	583.5	503.0	427.5	352.2	266.7	191.1	130.8	90.5	75.3	70.4
67.5°	472.9	407.5	347.1	296.7	241.5	191.1	135.9	90.5	70.4	60.4	55.3
70°	331.9	281.8	241.5	196.3	160.9	125.7	105.6	65.5	40.1	45.4	35.2
72.5°	221.4	186.2	166.0	135.9	110.5	90.5	65.5	45.4	45.4	35.2	30.3
75°	120.7	110.5	85.5	65.5	55.3	50.3	20.1	10.2	4.9	15.1	4.9
77.5°	85.5	75.3	65.5	55.3	45.4	35.2	20.1	20.1	15.1	20.1	10.2
80°	55.3	45.4	40.1	40.1	25.1	15.1	10.2	10.2	15.1	4.9	4.9
82.5°	35.2	30.3	25.1	25.1	25.1	15.1	15.1	15.1	15.1	10.2	10.2
85°	20.1	15.1	10.2	10.2	4.9	10.2	0.0	4.9	4.9	0.0	0.0
87.5°	10.2	4.9	4.9	4.9	4.9	0.0	0.0	4.9	0.0	4.9	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°	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3	10765.3
2.5°	10850.8	10870.9	10896.2	10916.3	10961.6	10971.6	10991.9	11011.9	11027.1	11042.0	11047.1
5°	10921.2	10996.8	11067.2	11142.6	11238.2	11303.7	11379.0	11444.5	11510.0	11565.2	11605.4
7.5°	10941.5	11057.1	11162.9	11293.5	11434.3	11555.3	11680.9	11806.7	11937.5	12038.2	12123.6
10°	10981.8	11122.6	11258.3	11414.2	11595.4	11756.4	11912.3	12078.3	12244.3	12385.1	12511.0
12.5°	11052.2	11208.1	11354.0	11525.0	11711.2	11892.1	12063.2	12249.4	12425.6	12581.4	12722.2
15°	11167.9	11313.7	11454.6	11615.6	11801.7	11967.8	12138.7	12319.8	12496.0	12656.9	12787.7
17.5°	11243.3	11379.0	11519.8	11665.8	11821.7	11972.7	12133.6	12294.7	12455.5	12601.6	12722.2
20°	11243.3	11374.1	11479.7	11610.5	11756.4	11887.2	12018.0	12158.8	12299.7	12420.3	12536.1
22.5°	11152.7	11278.5	11359.0	11459.6	11585.3	11696.1	11766.5	11922.4	12028.0	12133.6	12219.1
25°	10941.5	11032.0	11097.5	11167.9	11268.5	11343.8	11404.4	11494.8	11600.4	11640.8	11701.0
27.5°	10559.1	10624.5	10659.7	10674.8	10725.2	10765.3	10775.5	10815.6	10861.0	10870.9	10896.2
30°	9955.5	9960.5	9945.4	9940.4	9915.1	9885.1	9879.9	9875.0	9854.9	9834.8	9839.8
32.5°	9044.9	9019.8	8959.4	8894.1	8828.7	8758.3	8717.9	8667.6	8637.4	8607.4	8572.2
35°	7867.7	7807.4	7721.9	7641.4	7566.1	7510.6	7420.0	7389.9	7359.8	7319.5	7309.5
37.5°	6484.3	6449.1	6368.6	6308.3	6268.2	6243.0	6197.6	6167.5	6167.5	6152.4	6142.3
40°	5055.6	5045.7	5015.5	5030.6	5010.4	5020.4	5015.5	5005.3	5030.6	5030.6	5040.7
42.5°	3792.9	3798.2	3813.2	3823.2	3853.4	3858.4	3883.6	3883.6	3898.7	3913.6	3923.8
45°	2822.0	2842.3	2842.3	2862.5	2892.6	2897.7	2907.5	2912.7	2922.7	2947.9	2957.9
47.5°	2117.8	2122.8	2122.8	2128.0	2137.9	2148.1	2143.1	2148.1	2163.2	2153.0	2163.2
50°	1564.6	1569.5	1554.4	1539.2	1554.4	1554.4	1549.4	1534.3	1549.4	1529.4	1539.2
52.5°	1066.5	1061.4	1046.2	1051.5	1041.3	1036.4	1036.4	1026.2	1026.2	1026.2	1006.1
55°	674.2	674.2	664.1	664.1	659.0	648.9	644.0	638.7	633.8	628.9	628.9
57.5°	377.2	382.3	367.4	362.2	367.4	362.2	352.2	352.2	352.2	337.1	347.1
60°	206.3	201.2	196.3	191.1	186.2	191.1	191.1	181.2	181.2	181.2	186.2
62.5°	110.5	110.5	105.6	105.6	100.7	100.7	110.5	95.6	100.7	95.6	100.7
65°	60.4	75.3	55.3	55.3	70.4	65.5	60.4	60.4	65.5	55.3	60.4
67.5°	65.5	45.4	40.1	45.4	40.1	40.1	40.1	50.3	45.4	35.2	45.4
70°	30.3	35.2	35.2	25.1	40.1	20.1	35.2	20.1	30.3	25.1	30.3
72.5°	30.3	30.3	30.3	20.1	30.3	20.1	25.1	25.1	20.1	20.1	30.3
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°	10.2	10.2	4.9	4.9	4.9	4.9	10.2	10.2	10.2	0.0	4.9
80°	10.2	10.2	0.0	4.9	0.0	0.0	4.9	0.0	4.9	0.0	10.2
82.5°	4.9	10.2	4.9	4.9	10.2	10.2	10.2	4.9	4.9	4.9	4.9
85°	0.0	4.9	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	4.9
87.5°	0.0	4.9	0.0	0.0	0.0	0.0	4.9	4.9	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: P250287

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10765.3	10765.3	10765.3	10765.3
2.5°	11052.2	11057.1	11067.2	11062.3
5°	11635.6	11676.0	11696.1	11691.1
7.5°	12183.9	12254.5	12294.7	12294.7
10°	12606.5	12687.0	12747.3	12757.4
12.5°	12832.9	12923.6	13004.0	12983.8
15°	12898.3	12989.0	13069.3	13054.2
17.5°	12822.9	12913.4	12973.9	12963.7
20°	12616.6	12692.1	12752.5	12747.3
22.5°	12294.7	12360.1	12410.5	12405.3
25°	11751.3	11796.7	11836.9	11816.8
27.5°	10916.3	10931.4	10956.4	10926.4
30°	9804.6	9814.5	9824.7	9819.7
32.5°	8557.0	8551.9	8541.9	8531.8
35°	7294.3	7294.3	7299.4	7269.1
37.5°	6147.2	6142.3	6157.4	6142.3
40°	5050.7	5045.7	5065.8	5040.7
42.5°	3939.0	3954.1	3959.0	3959.0
45°	2963.0	2968.1	2973.0	2973.0
47.5°	2163.2	2168.1	2193.3	2163.2
50°	1529.4	1534.3	1539.2	1529.4
52.5°	1011.0	1016.3	1011.0	996.0
55°	618.7	623.8	623.8	623.8
57.5°	331.9	337.1	337.1	331.9
60°	181.2	176.0	181.2	171.1
62.5°	95.6	105.6	100.7	90.5
65°	60.4	60.4	60.4	70.4
67.5°	50.3	40.1	45.4	35.2
70°	30.3	35.2	35.2	25.1
72.5°	25.1	25.1	25.1	30.3
75°	0.0	0.0	0.0	0.0
77.5°	10.2	10.2	10.2	4.9
80°	4.9	0.0	4.9	0.0
82.5°	4.9	4.9	10.2	4.9
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)