

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: P248550

Luminaire Tested: **LD8B200D010 ER8B200827 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248550  
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: LD8B200D010 ER8B200827 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20291.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

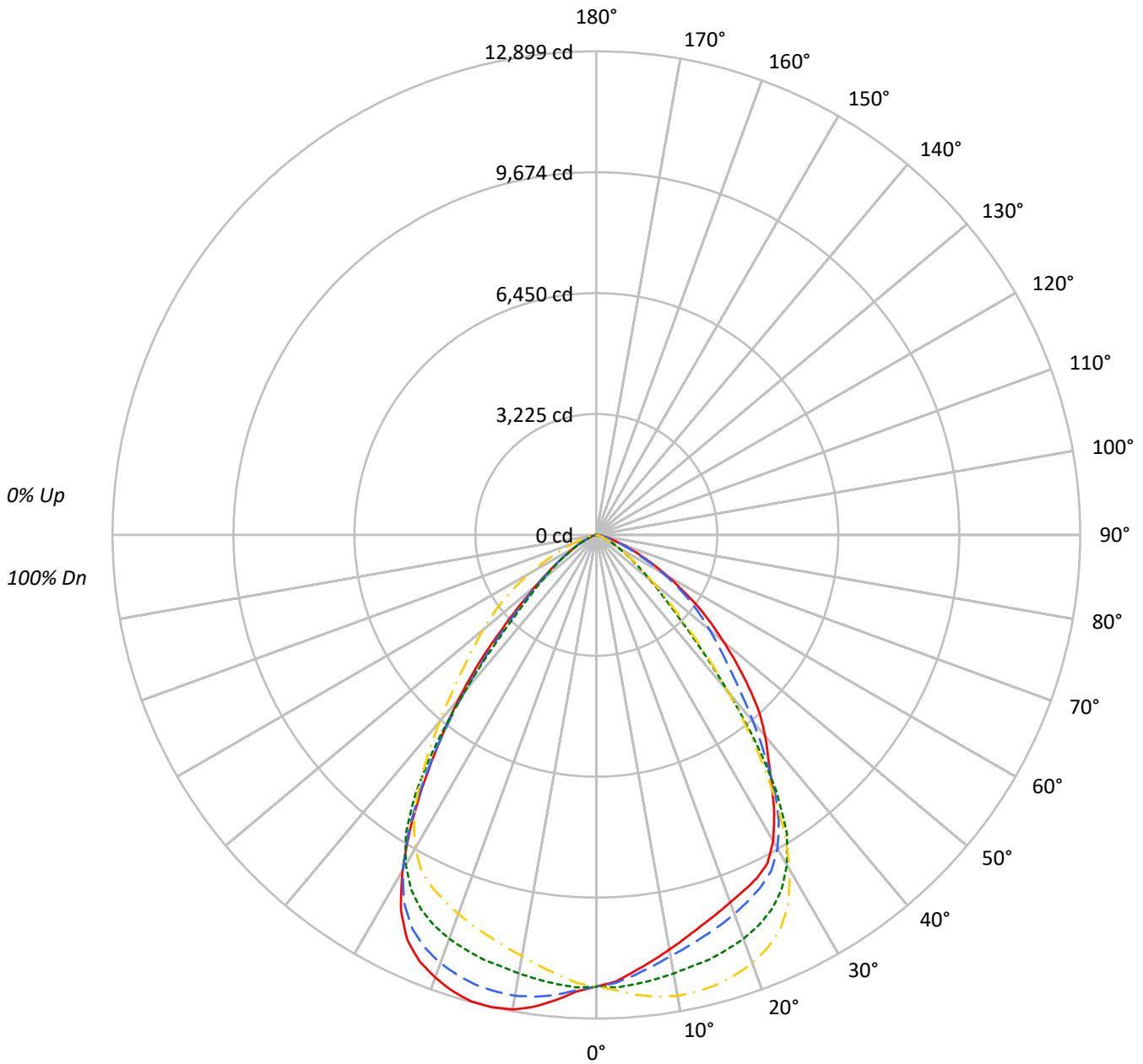
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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°	371457	371457	371457	371457
5°	361590	372331	385623	372331
10°	351587	371843	402416	371843
15°	344563	374052	411227	374052
20°	342218	376192	412282	376192
25°	344018	375436	405659	375436
30°	335511	361693	368191	361693
35°	306890	315519	299362	315519
40°	281758	219481	229198	219481
45°	250351	133897	154926	133897
50°	211905	89440	99328	89440
55°	175504	61030	64508	61030
60°	133860	40630	40988	40630
65°	94847	25312	23174	25312
70°	68413	16959	15390	16959
75°	43439	8423	7006	8423
80°	30313	6269	5203	6269
85°	27066	0	2052	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1146.6	5.7
10°-20°	3320.2	16.4
20°-30°	5027.5	24.8
30°-40°	5038.8	24.8
40°-50°	3164.1	15.6
50°-60°	1686.2	8.3
60°-70°	693.4	3.4
70°-80°	183.2	0.9
80°-90°	31.0	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°	9494.3	46.8
0°-40°	14533.2	71.6
0°-60°	19383.5	95.5
0°-90°	20291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20291.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	12046	12046	12046	12046	12046	
5°	11682	12028	12458	12028	11682	###
15°	10793	11717	12881	11717	10793	3053
25°	10111	11034	11923	11034	10111	4637
35°	8152	8382	7952	8382	8152	5107
45°	5741	3070	3553	3070	5741	4415
55°	3264	1135	1200	1135	3264	2911
65°	1300	347	318	347	1300	1348
75°	365	71	59	71	365	413
85°	76	0	6	0	76	84
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°	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1
2.5°	11922.7	11910.8	11905.0	11916.8	11922.7	11946.1	11940.3	11951.9	11951.9	11958.0	11969.6
5°	11681.5	11675.5	11681.5	11681.5	11705.0	11728.5	11722.7	11740.3	11752.0	11781.5	11793.1
7.5°	11458.1	11458.1	11452.0	11475.5	11487.3	11522.7	11516.6	11546.2	11563.9	11593.1	11634.3
10°	11228.5	11228.5	11234.3	11252.0	11258.1	11310.9	11310.9	11352.0	11375.5	11405.0	11458.1
12.5°	11005.1	11005.1	11040.4	11028.6	11052.0	11093.2	11110.9	11152.0	11187.4	11246.2	11299.2
15°	10793.2	10793.2	10805.1	10834.4	10852.1	10905.1	10934.4	10981.6	11022.8	11081.6	11158.1
17.5°	10610.9	10605.1	10610.9	10646.3	10681.6	10728.6	10752.1	10810.9	10852.1	10928.6	10999.3
20°	10428.6	10440.5	10440.5	10469.8	10493.3	10552.1	10575.6	10640.5	10687.4	10757.9	10840.4
22.5°	10269.8	10264.0	10264.0	10305.2	10322.8	10375.6	10399.1	10457.9	10510.9	10569.8	10646.3
25°	10111.0	10099.1	10122.9	10128.7	10140.3	10199.1	10216.8	10257.9	10311.0	10364.0	10440.5
27.5°	9875.7	9864.0	9869.9	9893.3	9911.0	9958.0	9969.8	10011.0	10052.2	10099.1	10164.0
30°	9422.7	9411.1	9405.3	9446.4	9464.1	9499.2	9516.9	9587.6	9599.2	9652.2	9699.2
32.5°	8822.8	8816.9	8828.8	8863.9	8881.6	8928.8	8952.3	8993.4	9022.7	9052.3	9099.2
35°	8152.4	8140.5	8152.4	8187.7	8187.7	8228.9	8246.5	8264.0	8258.2	8264.0	8252.4
37.5°	7528.9	7522.9	7528.9	7546.4	7528.9	7546.4	7528.9	7493.6	7429.0	7358.3	7287.6
40°	6999.5	7005.3	6970.2	6993.7	6928.8	6917.2	6852.5	6764.1	6634.9	6493.7	6293.7
42.5°	6434.9	6417.2	6393.7	6405.3	6352.6	6311.2	6205.4	6093.8	5928.9	5693.8	5452.4
45°	5740.8	5735.0	5723.1	5717.3	5681.9	5640.8	5552.4	5423.1	5240.8	4999.7	4711.3
47.5°	5064.3	5046.7	5046.7	5052.5	5011.3	5005.5	4934.8	4823.2	4664.4	4429.0	4129.1
50°	4417.2	4411.4	4423.2	4446.7	4417.2	4405.6	4358.6	4282.1	4140.9	3941.0	3658.4
52.5°	3834.9	3829.1	3841.0	3870.3	3858.4	3870.3	3823.3	3764.5	3670.3	3476.1	3229.2
55°	3264.5	3264.5	3264.5	3299.6	3299.6	3299.6	3276.2	3241.0	3152.7	3011.5	2782.3
57.5°	2670.4	2676.2	2711.6	2717.4	2711.6	2723.4	2717.4	2682.0	2623.4	2523.4	2347.0
60°	2170.5	2170.5	2188.1	2205.8	2199.8	2205.8	2205.8	2188.1	2129.3	2047.0	1905.8
62.5°	1717.5	1735.2	1723.3	1735.2	1758.6	1735.2	1723.3	1711.7	1670.5	1617.5	1499.8
65°	1299.9	1311.7	1311.7	1317.5	1305.7	1311.7	1288.2	1270.6	1247.1	1188.2	1111.7
67.5°	988.3	988.3	988.3	988.3	982.2	976.4	970.6	952.9	911.8	888.3	805.7
70°	758.8	723.4	723.4	723.4	723.4	729.5	711.8	688.3	676.4	635.3	576.4
72.5°	505.8	517.6	505.8	505.8	494.1	499.9	476.5	464.6	453.0	429.5	394.1
75°	364.6	335.3	346.9	353.0	335.3	346.9	323.5	300.0	300.0	282.3	264.6
77.5°	235.3	229.5	235.3	241.1	235.3	229.5	217.7	205.8	205.8	200.0	182.3
80°	170.7	164.6	164.6	164.6	158.8	164.6	153.0	153.0	141.1	135.3	123.5
82.5°	111.9	111.9	105.8	111.9	105.8	111.9	94.2	94.2	94.2	88.1	76.5
85°	76.5	64.6	64.6	70.7	58.8	70.7	64.6	58.8	53.0	53.0	47.0
87.5°	35.3	41.2	35.3	41.2	35.3	35.3	41.2	35.3	35.3	23.5	23.5
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°	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1
2.5°	11987.3	11993.1	11993.1	12016.8	12028.5	12034.3	12034.3	12081.5	12063.8	12075.7	12087.3
5°	11816.9	11852.0	11863.8	11863.8	11928.5	11951.9	11975.4	12028.5	12034.3	12069.6	12110.8
7.5°	11652.0	11693.1	11716.9	11769.6	11810.8	11852.0	11922.7	11958.0	11993.1	12040.3	12093.1
10°	11493.2	11540.4	11587.3	11628.5	11693.1	11746.2	11793.1	11875.4	11916.8	11981.5	12051.9
12.5°	11340.4	11405.0	11446.2	11516.6	11587.3	11634.3	11705.0	11781.5	11846.1	11910.8	11993.1
15°	11205.1	11281.6	11328.5	11405.0	11481.5	11546.2	11622.7	11716.9	11763.8	11840.3	11916.8
17.5°	11057.9	11140.4	11199.2	11269.7	11363.9	11434.3	11499.2	11593.1	11652.0	11734.3	11822.7
20°	10905.1	10987.4	11057.9	11128.6	11222.7	11293.2	11369.7	11463.9	11528.5	11610.8	11681.5
22.5°	10722.8	10799.3	10875.6	10957.9	11052.0	11110.9	11199.2	11281.6	11352.0	11428.5	11499.2
25°	10487.5	10581.6	10640.5	10716.7	10793.2	10857.9	10952.1	11034.4	11093.2	11163.9	11228.5
27.5°	10211.0	10281.7	10328.6	10393.3	10469.8	10528.6	10599.1	10681.6	10740.5	10805.1	10852.1
30°	9740.3	9805.2	9846.4	9893.3	9969.8	10022.9	10081.7	10158.0	10199.1	10246.3	10287.5
32.5°	9122.7	9175.7	9199.2	9234.6	9287.6	9340.4	9387.6	9452.2	9469.9	9499.2	9499.2
35°	8228.9	8240.5	8234.7	8246.5	8270.0	8299.3	8340.5	8381.6	8405.1	8405.1	8387.7
37.5°	7181.8	7111.3	7034.8	6976.0	6958.3	6946.4	6970.2	6987.6	7011.3	7023.0	6993.7
40°	6093.8	5934.9	5764.3	5611.2	5505.4	5458.5	5440.8	5452.4	5452.4	5493.6	5493.6
42.5°	5158.5	4911.3	4658.6	4429.0	4276.0	4158.6	4105.6	4105.6	4111.4	4140.9	4158.6
45°	4382.1	4070.3	3776.1	3523.3	3311.5	3158.5	3088.0	3070.4	3064.6	3076.2	3117.3
47.5°	3788.0	3464.5	3158.5	2846.9	2623.4	2470.4	2405.8	2382.1	2358.6	2382.1	2388.1
50°	3323.4	2988.0	2664.6	2352.8	2117.4	1982.1	1899.8	1864.4	1858.6	1858.6	1870.5
52.5°	2899.7	2588.1	2264.6	1947.0	1699.8	1570.5	1494.0	1476.3	1452.9	1476.3	1476.3
55°	2499.7	2188.1	1870.5	1570.5	1364.5	1229.4	1158.7	1135.2	1123.4	1141.0	1141.0
57.5°	2064.7	1799.8	1505.9	1235.2	1029.4	935.2	882.2	852.9	846.9	858.7	846.9
60°	1694.0	1470.5	1217.5	970.6	811.8	711.8	670.6	658.8	646.9	658.8	658.8
62.5°	1341.0	1152.9	946.9	758.8	623.4	553.0	505.8	505.8	499.9	499.9	505.8
65°	994.1	846.9	699.9	541.1	435.3	382.3	346.9	346.9	341.1	346.9	341.1
67.5°	723.4	623.4	505.8	394.1	311.8	282.3	258.8	241.1	253.0	241.1	235.3
70°	529.5	446.9	364.6	300.0	241.1	211.8	194.2	188.1	176.5	176.5	176.5
72.5°	353.0	300.0	246.9	194.2	158.8	129.3	123.5	111.9	100.0	105.8	117.7
75°	235.3	200.0	176.5	141.1	105.8	105.8	70.7	70.7	58.8	70.7	53.0
77.5°	164.6	135.3	105.8	88.1	70.7	64.6	47.0	47.0	41.2	41.2	41.2
80°	117.7	100.0	76.5	64.6	47.0	47.0	41.2	35.3	29.3	29.3	35.3
82.5°	70.7	53.0	53.0	47.0	29.3	23.5	17.7	23.5	11.9	11.9	11.9
85°	41.2	35.3	29.3	17.7	11.9	11.9	5.8	0.0	5.8	5.8	0.0
87.5°	23.5	11.9	11.9	5.8	0.0	5.8	5.8	0.0	0.0	0.0	11.9
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°	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1
2.5°	12116.8	12110.8	12122.6	12122.6	12158.0	12151.9	12169.6	12169.6	12158.0	12163.8	12187.3
5°	12158.0	12175.6	12210.8	12240.3	12293.1	12316.8	12346.1	12375.6	12381.4	12399.1	12416.8
7.5°	12158.0	12216.8	12258.0	12310.7	12381.4	12422.6	12487.2	12540.3	12563.7	12593.0	12628.4
10°	12134.2	12193.1	12269.6	12328.4	12416.8	12481.4	12546.1	12628.4	12663.7	12710.7	12757.9
12.5°	12087.3	12151.9	12234.2	12310.7	12410.7	12469.6	12551.9	12628.4	12681.4	12746.0	12799.1
15°	12016.8	12093.1	12169.6	12246.1	12351.9	12422.6	12499.1	12587.2	12640.2	12710.7	12757.9
17.5°	11905.0	11987.3	12058.0	12128.4	12228.4	12310.7	12381.4	12463.8	12516.8	12575.6	12640.2
20°	11769.6	11846.1	11922.7	11981.5	12081.5	12151.9	12228.4	12304.9	12346.1	12358.0	12457.9
22.5°	11599.2	11652.0	11710.8	11805.0	11863.8	11928.5	11999.2	12069.6	12110.8	12175.6	12210.8
25°	11316.7	11369.7	11434.3	11475.5	11546.2	11599.2	11669.7	11746.2	11769.6	11816.9	11852.0
27.5°	10922.8	10952.1	10981.6	11016.7	11057.9	11087.4	11128.6	11163.9	11187.4	11210.9	11234.3
30°	10299.1	10299.1	10299.1	10275.6	10293.3	10311.0	10316.8	10311.0	10311.0	10305.2	10305.2
32.5°	9475.7	9428.7	9375.7	9328.7	9311.1	9287.6	9275.7	9258.1	9228.8	9211.1	9216.9
35°	8364.0	8258.2	8193.5	8134.7	8087.7	8052.4	8034.7	8017.0	8011.2	7987.7	7964.0
37.5°	6976.0	6899.5	6852.5	6817.2	6776.0	6740.7	6746.5	6752.5	6770.0	6758.3	6764.1
40°	5505.4	5487.8	5505.4	5464.3	5452.4	5464.3	5493.6	5535.0	5558.5	5581.9	5623.1
42.5°	4187.9	4217.2	4258.6	4258.6	4276.0	4299.8	4334.9	4399.8	4434.9	4476.0	4523.2
45°	3152.7	3188.0	3241.0	3258.5	3270.3	3299.6	3341.0	3393.8	3417.3	3452.6	3493.8
47.5°	2429.3	2452.8	2482.0	2511.6	2540.9	2552.7	2593.9	2593.9	2623.4	2646.9	2658.5
50°	1894.0	1917.5	1940.9	1958.6	1970.5	1988.2	1999.8	2017.5	2023.3	2035.1	2040.9
52.5°	1482.2	1511.7	1511.7	1523.3	1541.0	1558.7	1552.9	1558.7	1564.5	1564.5	1582.1
55°	1158.7	1158.7	1176.4	1176.4	1188.2	1182.2	1188.2	1188.2	1188.2	1188.2	1194.1
57.5°	864.6	870.6	888.3	876.4	870.6	882.2	870.6	882.2	876.4	888.3	870.6
60°	664.6	664.6	670.6	670.6	676.4	676.4	676.4	670.6	670.6	664.6	664.6
62.5°	499.9	505.8	511.8	505.8	505.8	505.8	499.9	499.9	494.1	488.1	488.1
65°	335.3	329.5	341.1	329.5	335.3	335.3	329.5	335.3	317.6	323.5	317.6
67.5°	241.1	235.3	229.5	235.3	229.5	223.5	223.5	229.5	235.3	217.7	217.7
70°	158.8	164.6	158.8	164.6	170.7	170.7	164.6	158.8	164.6	153.0	158.8
72.5°	100.0	100.0	100.0	100.0	100.0	105.8	105.8	105.8	94.2	94.2	88.1
75°	47.0	64.6	53.0	47.0	64.6	64.6	58.8	58.8	53.0	53.0	53.0
77.5°	47.0	35.3	35.3	35.3	35.3	35.3	35.3	35.3	29.3	35.3	29.3
80°	23.5	23.5	23.5	17.7	23.5	23.5	29.3	23.5	23.5	17.7	29.3
82.5°	11.9	11.9	11.9	0.0	5.8	11.9	11.9	5.8	11.9	11.9	5.8
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: P248550

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1
2.5°	12181.5	12175.6	12181.5	12187.3	12181.5	12175.6	12181.5	12187.3	12163.8	12158.0	12169.6
5°	12440.3	12440.3	12451.9	12457.9	12451.9	12440.3	12440.3	12416.8	12399.1	12381.4	12375.6
7.5°	12663.7	12675.6	12687.2	12693.0	12687.2	12675.6	12663.7	12628.4	12593.0	12563.7	12540.3
10°	12799.1	12816.7	12840.2	12851.8	12840.2	12816.7	12799.1	12757.9	12710.7	12663.7	12628.4
12.5°	12857.9	12875.6	12904.9	12899.1	12904.9	12875.6	12857.9	12799.1	12746.0	12681.4	12628.4
15°	12816.7	12840.2	12869.5	12881.4	12869.5	12840.2	12816.7	12757.9	12710.7	12640.2	12587.2
17.5°	12687.2	12722.6	12740.2	12757.9	12740.2	12722.6	12687.2	12640.2	12575.6	12516.8	12463.8
20°	12510.7	12534.4	12557.9	12563.7	12557.9	12534.4	12510.7	12457.9	12358.0	12346.1	12304.9
22.5°	12258.0	12275.6	12328.4	12310.7	12328.4	12275.6	12258.0	12210.8	12175.6	12110.8	12069.6
25°	11893.1	11910.8	11916.8	11922.7	11916.8	11910.8	11893.1	11852.0	11816.9	11769.6	11746.2
27.5°	11263.9	11263.9	11275.5	11281.6	11275.5	11263.9	11263.9	11234.3	11210.9	11187.4	11163.9
30°	10311.0	10311.0	10311.0	10340.5	10311.0	10311.0	10311.0	10305.2	10305.2	10311.0	10311.0
32.5°	9211.1	9199.2	9187.6	9199.2	9187.6	9199.2	9211.1	9216.9	9211.1	9228.8	9258.1
35°	7964.0	7958.2	7975.9	7952.4	7975.9	7958.2	7964.0	7964.0	7987.7	8011.2	8017.0
37.5°	6770.0	6758.3	6781.8	6758.3	6781.8	6758.3	6770.0	6764.1	6758.3	6770.0	6752.5
40°	5635.0	5646.6	5646.6	5693.8	5646.6	5646.6	5635.0	5623.1	5581.9	5558.5	5535.0
42.5°	4546.7	4582.1	4570.2	4605.5	4570.2	4582.1	4546.7	4523.2	4476.0	4434.9	4399.8
45°	3517.3	3541.0	3541.0	3552.6	3541.0	3541.0	3517.3	3493.8	3452.6	3417.3	3393.8
47.5°	2699.7	2699.7	2699.7	2705.8	2699.7	2699.7	2699.7	2658.5	2646.9	2623.4	2593.9
50°	2052.8	2058.6	2064.7	2070.5	2064.7	2058.6	2052.8	2040.9	2035.1	2023.3	2017.5
52.5°	1576.3	1582.1	1570.5	1582.1	1570.5	1582.1	1576.3	1582.1	1564.5	1564.5	1558.7
55°	1194.1	1188.2	1194.1	1199.9	1194.1	1188.2	1194.1	1194.1	1188.2	1188.2	1188.2
57.5°	876.4	864.6	864.6	864.6	864.6	864.6	876.4	870.6	888.3	876.4	882.2
60°	653.0	658.8	658.8	664.6	658.8	658.8	653.0	664.6	664.6	670.6	670.6
62.5°	482.3	499.9	488.1	499.9	488.1	499.9	482.3	488.1	488.1	494.1	499.9
65°	311.8	311.8	311.8	317.6	311.8	311.8	311.8	317.6	323.5	317.6	335.3
67.5°	211.8	217.7	229.5	223.5	229.5	217.7	211.8	217.7	217.7	235.3	229.5
70°	170.7	153.0	153.0	170.7	153.0	153.0	170.7	158.8	153.0	164.6	158.8
72.5°	100.0	88.1	100.0	100.0	100.0	88.1	100.0	88.1	94.2	94.2	105.8
75°	53.0	47.0	41.2	58.8	41.2	47.0	53.0	53.0	53.0	53.0	58.8
77.5°	35.3	29.3	41.2	41.2	41.2	29.3	35.3	29.3	35.3	29.3	35.3
80°	17.7	23.5	17.7	29.3	17.7	23.5	17.7	29.3	17.7	23.5	23.5
82.5°	5.8	11.9	11.9	11.9	11.9	11.9	5.8	5.8	11.9	11.9	5.8
85°	0.0	11.9	5.8	5.8	5.8	11.9	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	0.0	0.0	5.8	0.0	0.0	5.8	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: P248550

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1
2.5°	12169.6	12151.9	12158.0	12122.6	12122.6	12110.8	12116.8	12087.3	12075.7	12063.8	12081.5
5°	12346.1	12316.8	12293.1	12240.3	12210.8	12175.6	12158.0	12110.8	12069.6	12034.3	12028.5
7.5°	12487.2	12422.6	12381.4	12310.7	12258.0	12216.8	12158.0	12093.1	12040.3	11993.1	11958.0
10°	12546.1	12481.4	12416.8	12328.4	12269.6	12193.1	12134.2	12051.9	11981.5	11916.8	11875.4
12.5°	12551.9	12469.6	12410.7	12310.7	12234.2	12151.9	12087.3	11993.1	11910.8	11846.1	11781.5
15°	12499.1	12422.6	12351.9	12246.1	12169.6	12093.1	12016.8	11916.8	11840.3	11763.8	11716.9
17.5°	12381.4	12310.7	12228.4	12128.4	12058.0	11987.3	11905.0	11822.7	11734.3	11652.0	11593.1
20°	12228.4	12151.9	12081.5	11981.5	11922.7	11846.1	11769.6	11681.5	11610.8	11528.5	11463.9
22.5°	11999.2	11928.5	11863.8	11805.0	11710.8	11652.0	11599.2	11499.2	11428.5	11352.0	11281.6
25°	11669.7	11599.2	11546.2	11475.5	11434.3	11369.7	11316.7	11228.5	11163.9	11093.2	11034.4
27.5°	11128.6	11087.4	11057.9	11016.7	10981.6	10952.1	10922.8	10852.1	10805.1	10740.5	10681.6
30°	10316.8	10311.0	10293.3	10275.6	10299.1	10299.1	10299.1	10287.5	10246.3	10199.1	10158.0
32.5°	9275.7	9287.6	9311.1	9328.7	9375.7	9428.7	9475.7	9499.2	9499.2	9469.9	9452.2
35°	8034.7	8052.4	8087.7	8134.7	8193.5	8258.2	8364.0	8387.7	8405.1	8405.1	8381.6
37.5°	6746.5	6740.7	6776.0	6817.2	6852.5	6899.5	6976.0	6993.7	7023.0	7011.3	6987.6
40°	5493.6	5464.3	5452.4	5464.3	5505.4	5487.8	5505.4	5493.6	5493.6	5452.4	5452.4
42.5°	4334.9	4299.8	4276.0	4258.6	4258.6	4217.2	4187.9	4158.6	4140.9	4111.4	4105.6
45°	3341.0	3299.6	3270.3	3258.5	3241.0	3188.0	3152.7	3117.3	3076.2	3064.6	3070.4
47.5°	2593.9	2552.7	2540.9	2511.6	2482.0	2452.8	2429.3	2388.1	2382.1	2358.6	2382.1
50°	1999.8	1988.2	1970.5	1958.6	1940.9	1917.5	1894.0	1870.5	1858.6	1858.6	1864.4
52.5°	1552.9	1558.7	1541.0	1523.3	1511.7	1511.7	1482.2	1476.3	1476.3	1452.9	1476.3
55°	1188.2	1182.2	1188.2	1176.4	1176.4	1158.7	1158.7	1141.0	1141.0	1123.4	1135.2
57.5°	870.6	882.2	870.6	876.4	888.3	870.6	864.6	846.9	858.7	846.9	852.9
60°	676.4	676.4	676.4	670.6	670.6	664.6	664.6	658.8	658.8	646.9	658.8
62.5°	499.9	505.8	505.8	505.8	511.8	505.8	499.9	505.8	499.9	499.9	505.8
65°	329.5	335.3	335.3	329.5	341.1	329.5	335.3	341.1	346.9	341.1	346.9
67.5°	223.5	223.5	229.5	235.3	229.5	235.3	241.1	235.3	241.1	253.0	241.1
70°	164.6	170.7	170.7	164.6	158.8	164.6	158.8	176.5	176.5	176.5	188.1
72.5°	105.8	105.8	100.0	100.0	100.0	100.0	100.0	117.7	105.8	100.0	111.9
75°	58.8	64.6	64.6	47.0	53.0	64.6	47.0	53.0	70.7	58.8	70.7
77.5°	35.3	35.3	35.3	35.3	35.3	35.3	47.0	41.2	41.2	41.2	47.0
80°	29.3	23.5	23.5	17.7	23.5	23.5	23.5	35.3	29.3	29.3	35.3
82.5°	11.9	11.9	5.8	0.0	11.9	11.9	11.9	11.9	11.9	11.9	23.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	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: P248550

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1
2.5°	12034.3	12034.3	12028.5	12016.8	11993.1	11993.1	11987.3	11969.6	11958.0	11951.9	11951.9
5°	11975.4	11951.9	11928.5	11863.8	11863.8	11852.0	11816.9	11793.1	11781.5	11752.0	11740.3
7.5°	11922.7	11852.0	11810.8	11769.6	11716.9	11693.1	11652.0	11634.3	11593.1	11563.9	11546.2
10°	11793.1	11746.2	11693.1	11628.5	11587.3	11540.4	11493.2	11458.1	11405.0	11375.5	11352.0
12.5°	11705.0	11634.3	11587.3	11516.6	11446.2	11405.0	11340.4	11299.2	11246.2	11187.4	11152.0
15°	11622.7	11546.2	11481.5	11405.0	11328.5	11281.6	11205.1	11158.1	11081.6	11022.8	10981.6
17.5°	11499.2	11434.3	11363.9	11269.7	11199.2	11140.4	11057.9	10999.3	10928.6	10852.1	10810.9
20°	11369.7	11293.2	11222.7	11128.6	11057.9	10987.4	10905.1	10840.4	10757.9	10687.4	10640.5
22.5°	11199.2	11110.9	11052.0	10957.9	10875.6	10799.3	10722.8	10646.3	10569.8	10510.9	10457.9
25°	10952.1	10857.9	10793.2	10716.7	10640.5	10581.6	10487.5	10440.5	10364.0	10311.0	10257.9
27.5°	10599.1	10528.6	10469.8	10393.3	10328.6	10281.7	10211.0	10164.0	10099.1	10052.2	10011.0
30°	10081.7	10022.9	9969.8	9893.3	9846.4	9805.2	9740.3	9699.2	9652.2	9599.2	9587.6
32.5°	9387.6	9340.4	9287.6	9234.6	9199.2	9175.7	9122.7	9099.2	9052.3	9022.7	8993.4
35°	8340.5	8299.3	8270.0	8246.5	8234.7	8240.5	8228.9	8252.4	8264.0	8258.2	8264.0
37.5°	6970.2	6946.4	6958.3	6976.0	7034.8	7111.3	7181.8	7287.6	7358.3	7429.0	7493.6
40°	5440.8	5458.5	5505.4	5611.2	5764.3	5934.9	6093.8	6293.7	6493.7	6634.9	6764.1
42.5°	4105.6	4158.6	4276.0	4429.0	4658.6	4911.3	5158.5	5452.4	5693.8	5928.9	6093.8
45°	3088.0	3158.5	3311.5	3523.3	3776.1	4070.3	4382.1	4711.3	4999.7	5240.8	5423.1
47.5°	2405.8	2470.4	2623.4	2846.9	3158.5	3464.5	3788.0	4129.1	4429.0	4664.4	4823.2
50°	1899.8	1982.1	2117.4	2352.8	2664.6	2988.0	3323.4	3658.4	3941.0	4140.9	4282.1
52.5°	1494.0	1570.5	1699.8	1947.0	2264.6	2588.1	2899.7	3229.2	3476.1	3670.3	3764.5
55°	1158.7	1229.4	1364.5	1570.5	1870.5	2188.1	2499.7	2782.3	3011.5	3152.7	3241.0
57.5°	882.2	935.2	1029.4	1235.2	1505.9	1799.8	2064.7	2347.0	2523.4	2623.4	2682.0
60°	670.6	711.8	811.8	970.6	1217.5	1470.5	1694.0	1905.8	2047.0	2129.3	2188.1
62.5°	505.8	553.0	623.4	758.8	946.9	1152.9	1341.0	1499.8	1617.5	1670.5	1711.7
65°	346.9	382.3	435.3	541.1	699.9	846.9	994.1	1111.7	1188.2	1247.1	1270.6
67.5°	258.8	282.3	311.8	394.1	505.8	623.4	723.4	805.7	888.3	911.8	952.9
70°	194.2	211.8	241.1	300.0	364.6	446.9	529.5	576.4	635.3	676.4	688.3
72.5°	123.5	129.3	158.8	194.2	246.9	300.0	353.0	394.1	429.5	453.0	464.6
75°	70.7	105.8	105.8	141.1	176.5	200.0	235.3	264.6	282.3	300.0	300.0
77.5°	47.0	64.6	70.7	88.1	105.8	135.3	164.6	182.3	200.0	205.8	205.8
80°	41.2	47.0	47.0	64.6	76.5	100.0	117.7	123.5	135.3	141.1	153.0
82.5°	17.7	23.5	29.3	47.0	53.0	53.0	70.7	76.5	88.1	94.2	94.2
85°	5.8	11.9	11.9	17.7	29.3	35.3	41.2	47.0	53.0	53.0	58.8
87.5°	5.8	5.8	0.0	5.8	11.9	11.9	23.5	23.5	23.5	35.3	35.3
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: P248550

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1	12046.1
2.5°	11940.3	11946.1	11922.7	11916.8	11905.0	11910.8	11922.7
5°	11722.7	11728.5	11705.0	11681.5	11681.5	11675.5	11681.5
7.5°	11516.6	11522.7	11487.3	11475.5	11452.0	11458.1	11458.1
10°	11310.9	11310.9	11258.1	11252.0	11234.3	11228.5	11228.5
12.5°	11110.9	11093.2	11052.0	11028.6	11040.4	11005.1	11005.1
15°	10934.4	10905.1	10852.1	10834.4	10805.1	10793.2	10793.2
17.5°	10752.1	10728.6	10681.6	10646.3	10610.9	10605.1	10610.9
20°	10575.6	10552.1	10493.3	10469.8	10440.5	10440.5	10428.6
22.5°	10399.1	10375.6	10322.8	10305.2	10264.0	10264.0	10269.8
25°	10216.8	10199.1	10140.3	10128.7	10122.9	10099.1	10111.0
27.5°	9969.8	9958.0	9911.0	9893.3	9869.9	9864.0	9875.7
30°	9516.9	9499.2	9464.1	9446.4	9405.3	9411.1	9422.7
32.5°	8952.3	8928.8	8881.6	8863.9	8828.8	8816.9	8822.8
35°	8246.5	8228.9	8187.7	8187.7	8152.4	8140.5	8152.4
37.5°	7528.9	7546.4	7528.9	7546.4	7528.9	7522.9	7528.9
40°	6852.5	6917.2	6928.8	6993.7	6970.2	7005.3	6999.5
42.5°	6205.4	6311.2	6352.6	6405.3	6393.7	6417.2	6434.9
45°	5552.4	5640.8	5681.9	5717.3	5723.1	5735.0	5740.8
47.5°	4934.8	5005.5	5011.3	5052.5	5046.7	5046.7	5064.3
50°	4358.6	4405.6	4417.2	4446.7	4423.2	4411.4	4417.2
52.5°	3823.3	3870.3	3858.4	3870.3	3841.0	3829.1	3834.9
55°	3276.2	3299.6	3299.6	3299.6	3264.5	3264.5	3264.5
57.5°	2717.4	2723.4	2711.6	2717.4	2711.6	2676.2	2670.4
60°	2205.8	2205.8	2199.8	2205.8	2188.1	2170.5	2170.5
62.5°	1723.3	1735.2	1758.6	1735.2	1723.3	1735.2	1717.5
65°	1288.2	1311.7	1305.7	1317.5	1311.7	1311.7	1299.9
67.5°	970.6	976.4	982.2	988.3	988.3	988.3	988.3
70°	711.8	729.5	723.4	723.4	723.4	723.4	758.8
72.5°	476.5	499.9	494.1	505.8	505.8	517.6	505.8
75°	323.5	346.9	335.3	353.0	346.9	335.3	364.6
77.5°	217.7	229.5	235.3	241.1	235.3	229.5	235.3
80°	153.0	164.6	158.8	164.6	164.6	164.6	170.7
82.5°	94.2	111.9	105.8	111.9	105.8	111.9	111.9
85°	64.6	70.7	58.8	70.7	64.6	64.6	76.5
87.5°	41.2	35.3	35.3	41.2	35.3	41.2	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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