

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: P248366

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248366
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: LSR8B100D010 EC8B100850 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11578.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

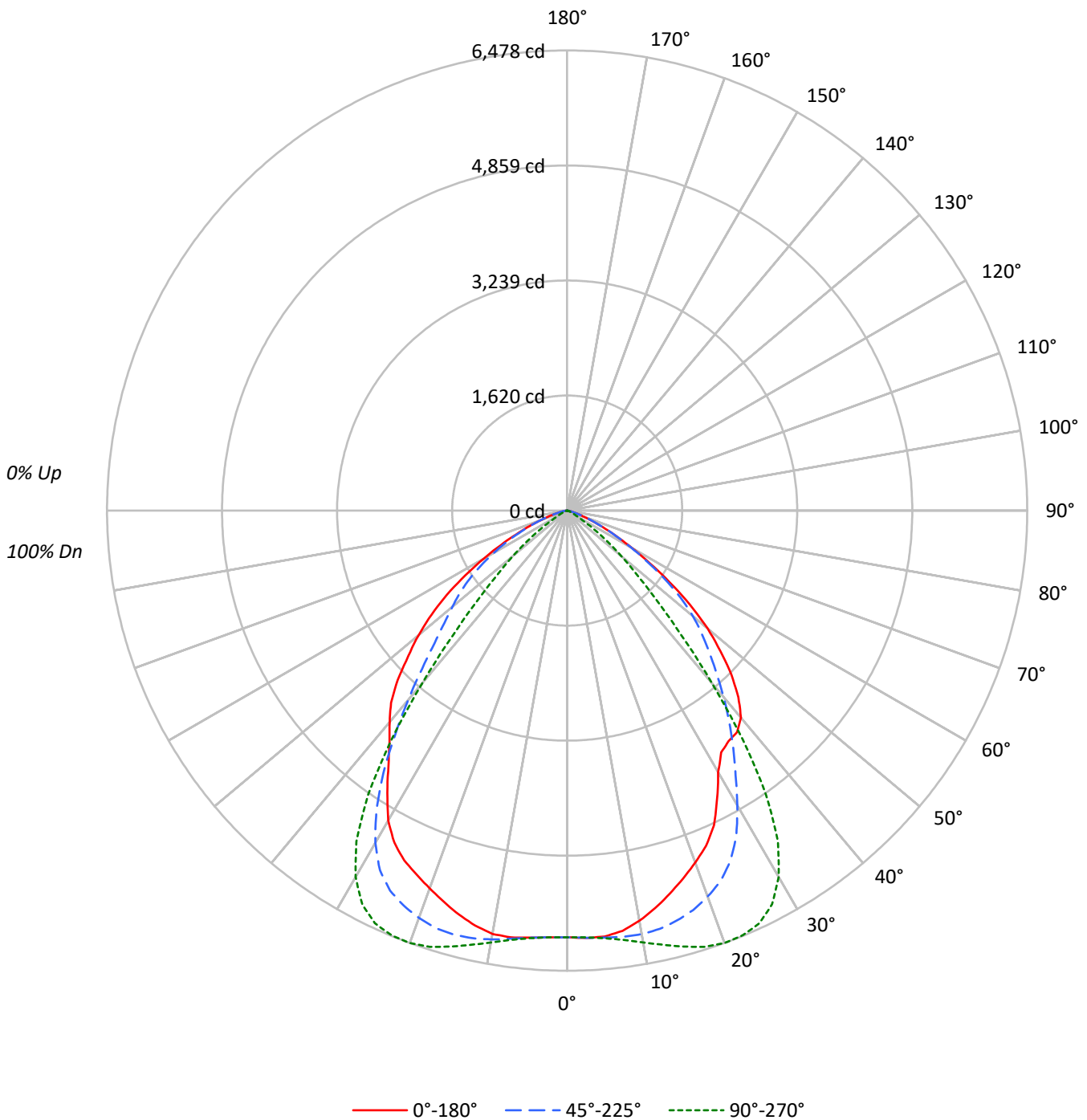
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	185212	185212	185212
5°	186313	187006	186808
10°	183576	193261	189469
15°	178210	202839	187979
20°	173038	212581	185695
25°	166395	218026	184833
30°	151428	212049	179355
35°	149173	183738	165017
40°	153231	127432	156435
45°	142645	77018	147094
50°	123727	47565	131071
55°	94948	24854	111232
60°	64688	10028	83955
65°	40240	5115	57920
70°	21846	3165	35351
75°	11390	1513	20898
80°	5097	1705	11312
85°	3397	1132	10154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.6	5.0
10°-20°	1711.1	14.8
20°-30°	2610.5	22.5
30°-40°	2724.1	23.5
40°-50°	2046.1	17.7
50°-60°	1258.9	10.9
60°-70°	512.3	4.4
70°-80°	120.7	1.0
80°-90°	16.6	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°	4899.2	42.3
0°-40°	7623.3	65.8
0°-60°	10928.3	94.4
0°-90°	11578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11578.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6006	6006	6006	6006	6006	
5°	6019	6035	6041	6035	6035	569
15°	5582	5974	6354	6178	5888	1573
25°	4890	5439	6408	5901	5432	2223
35°	3963	4074	4881	4511	4384	2502
45°	3271	2831	1766	2636	3373	2496
55°	1766	1677	462	1677	2069	1588
65°	552	558	70	749	794	575
75°	96	96	13	169	175	115
85°	10	10	3	22	29	13
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°	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3
2.5°	6022.2	6012.7	6022.2	6022.2	6025.4	6019.0	6022.2	6025.4	6019.0	6019.0	6019.0
5°	6019.0	6012.7	6019.0	6015.9	6022.2	6022.2	6028.6	6028.6	6035.0	6035.0	6044.6
7.5°	5968.0	5955.3	5968.0	5977.6	5983.9	5996.7	6012.7	6025.4	6038.2	6051.0	6066.9
10°	5862.8	5862.8	5872.4	5891.5	5910.6	5932.9	5961.6	5993.5	6025.4	6054.1	6082.8
12.5°	5732.1	5722.5	5741.7	5767.2	5795.9	5831.0	5875.6	5923.4	5974.4	6031.8	6076.5
15°	5582.3	5572.7	5595.0	5620.5	5655.6	5706.6	5760.8	5824.6	5897.9	5974.4	6047.8
17.5°	5429.2	5426.0	5448.4	5483.5	5512.2	5566.3	5636.5	5713.0	5795.9	5897.9	5993.5
20°	5273.1	5269.9	5292.2	5320.9	5359.1	5410.1	5480.3	5569.5	5668.3	5783.2	5894.7
22.5°	5110.4	5113.6	5132.7	5164.6	5196.5	5250.7	5324.0	5413.3	5521.7	5646.0	5770.4
25°	4890.5	4874.5	4900.0	4932.0	4986.1	5030.7	5100.9	5196.5	5308.1	5438.8	5585.5
27.5°	4571.6	4568.4	4590.8	4619.5	4667.3	4721.5	4798.0	4896.9	5014.8	5158.3	5301.7
30°	4252.8	4259.2	4268.8	4297.5	4329.4	4383.6	4460.1	4543.0	4654.6	4791.6	4944.7
32.5°	4036.1	4036.1	4048.8	4068.0	4090.3	4119.0	4173.2	4233.7	4319.8	4415.5	4527.0
35°	3962.7	3950.0	3962.7	3965.9	3969.1	3975.5	3985.0	4004.2	4032.9	4074.4	4115.8
37.5°	3930.9	3921.3	3921.3	3908.6	3892.6	3873.5	3848.0	3819.3	3787.4	3745.9	3714.1
40°	3806.6	3800.2	3793.8	3781.0	3745.9	3707.7	3666.2	3599.3	3526.0	3423.9	3322.0
42.5°	3567.5	3561.1	3557.9	3532.4	3500.5	3455.8	3408.0	3337.9	3245.5	3114.7	2968.1
45°	3271.0	3258.2	3248.7	3226.3	3204.0	3165.7	3121.1	3057.3	2964.9	2831.0	2655.6
47.5°	2926.6	2920.2	2917.0	2907.5	2885.2	2862.8	2834.2	2783.2	2700.3	2572.7	2391.1
50°	2579.1	2566.4	2572.7	2569.6	2560.0	2544.1	2524.9	2489.9	2426.1	2311.3	2145.6
52.5°	2180.6	2180.6	2177.5	2187.0	2190.2	2187.0	2190.2	2152.0	2097.7	2011.6	1871.4
55°	1766.1	1766.1	1775.7	1788.5	1801.2	1804.4	1801.2	1785.3	1747.0	1676.9	1552.6
57.5°	1377.2	1370.9	1390.0	1409.1	1421.9	1434.6	1425.0	1412.3	1390.0	1332.6	1236.9
60°	1048.9	1048.9	1061.6	1074.4	1087.1	1099.9	1096.7	1093.5	1074.4	1036.1	959.6
62.5°	771.5	774.7	774.7	784.3	797.0	809.8	819.3	809.8	800.2	774.7	723.7
65°	551.5	548.3	551.5	561.1	570.7	583.4	589.8	586.6	577.0	557.9	519.7
67.5°	369.8	366.6	379.3	382.5	388.9	401.7	398.5	401.7	398.5	382.5	350.7
70°	242.3	235.9	242.3	239.1	248.7	251.9	258.2	261.4	258.2	248.7	239.1
72.5°	149.8	146.7	149.8	153.0	156.2	159.4	165.8	165.8	162.6	156.2	143.5
75°	95.6	86.0	89.2	82.9	89.2	89.2	95.6	98.8	95.6	95.6	89.2
77.5°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	60.6	63.7	57.4	54.2
80°	28.7	28.7	31.9	31.9	31.9	35.1	31.9	31.9	31.9	35.1	25.5
82.5°	22.3	19.1	19.1	19.1	22.3	19.1	19.1	19.1	19.1	19.1	19.1
85°	9.6	12.7	9.6	6.4	9.6	9.6	12.7	9.6	9.6	9.6	12.7
87.5°	3.2	3.2	0.0	0.0	0.0	3.2	0.0	3.2	3.2	6.4	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°	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3
2.5°	6022.2	6015.9	6015.9	6012.7	6019.0	6012.7	6015.9	6012.7	6012.7	6019.0	6012.7
5°	6044.6	6047.8	6041.4	6038.2	6047.8	6047.8	6047.8	6041.4	6041.4	6044.6	6041.4
7.5°	6076.5	6082.8	6086.0	6089.2	6095.6	6098.8	6098.8	6095.6	6092.4	6102.0	6089.2
10°	6111.5	6121.1	6140.2	6149.8	6165.7	6165.7	6172.1	6172.1	6165.7	6172.1	6168.9
12.5°	6098.8	6156.1	6188.0	6210.3	6232.6	6251.7	6258.1	6261.3	6258.1	6270.9	6258.1
15°	6121.1	6168.9	6219.9	6258.1	6299.6	6321.9	6328.3	6353.8	6360.2	6363.4	6344.3
17.5°	6086.0	6172.1	6226.2	6283.6	6344.3	6385.7	6423.9	6439.9	6443.1	6449.4	6423.9
20°	6006.3	6102.0	6184.8	6267.7	6337.9	6401.6	6433.5	6478.1	6465.4	6490.9	6455.8
22.5°	5897.9	6006.3	6111.5	6219.9	6293.2	6369.8	6436.7	6468.5	6484.5	6484.5	6446.2
25°	5725.7	5853.3	5968.0	6079.6	6191.2	6283.6	6360.2	6408.0	6417.6	6414.4	6369.8
27.5°	5458.0	5595.0	5728.9	5856.5	5993.5	6102.0	6191.2	6248.5	6264.5	6264.5	6216.7
30°	5088.1	5234.8	5365.5	5518.5	5658.8	5780.0	5904.3	5955.3	5983.9	5983.9	5929.8
32.5°	4648.2	4772.5	4893.7	5043.5	5196.5	5333.6	5451.6	5521.7	5556.8	5553.6	5505.8
35°	4170.0	4230.5	4323.0	4434.6	4571.6	4699.2	4813.9	4880.9	4941.5	4938.3	4893.7
37.5°	3691.7	3675.8	3685.4	3726.8	3812.9	3902.2	3991.4	4055.2	4106.2	4128.6	4119.0
40°	3223.1	3140.2	3060.5	3031.9	3038.2	3070.1	3117.9	3165.7	3223.1	3251.9	3264.6
42.5°	2802.3	2662.0	2521.7	2416.6	2355.9	2336.8	2359.1	2375.1	2410.2	2451.6	2493.1
45°	2464.4	2276.3	2091.4	1928.8	1826.8	1766.1	1753.4	1766.1	1785.3	1826.8	1881.0
47.5°	2187.0	1967.0	1759.8	1578.1	1428.2	1348.6	1326.3	1319.9	1339.0	1377.2	1450.5
50°	1941.5	1721.5	1492.0	1281.6	1125.4	1036.1	1004.3	991.5	1013.8	1042.5	1109.4
52.5°	1673.7	1456.9	1221.0	1017.0	854.4	762.0	726.9	707.8	720.5	758.8	825.7
55°	1383.6	1182.7	969.2	758.8	602.5	516.5	475.0	462.3	475.0	516.5	583.4
57.5°	1093.5	924.5	746.0	548.3	408.1	322.0	280.5	267.8	302.9	318.8	388.9
60°	854.4	717.3	564.3	401.7	280.5	213.6	172.2	162.6	178.6	207.2	264.6
62.5°	640.8	554.7	433.6	286.9	207.2	137.1	114.7	105.2	114.7	137.1	181.8
65°	465.5	398.5	302.9	210.4	140.3	102.0	76.5	70.1	79.7	95.6	133.9
67.5°	318.8	267.8	210.4	146.7	95.6	63.7	54.2	54.2	57.4	70.1	98.8
70°	207.2	175.4	133.9	95.6	63.7	47.8	41.4	35.1	41.4	51.0	66.9
72.5°	130.7	111.6	86.0	66.9	47.8	35.1	28.7	25.5	31.9	38.2	51.0
75°	79.7	60.6	44.6	35.1	25.5	25.5	25.5	12.7	15.9	25.5	31.9
77.5°	47.8	41.4	35.1	28.7	22.3	12.7	12.7	12.7	15.9	19.1	28.7
80°	25.5	22.3	15.9	15.9	12.7	9.6	12.7	9.6	6.4	15.9	19.1
82.5°	15.9	12.7	12.7	12.7	15.9	6.4	9.6	6.4	9.6	12.7	9.6
85°	9.6	9.6	9.6	6.4	15.9	6.4	6.4	3.2	3.2	6.4	6.4
87.5°	0.0	3.2	3.2	0.0	3.2	0.0	3.2	3.2	3.2	3.2	3.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3	6006.3
2.5°	6015.9	6012.7	6015.9	6012.7	6012.7	6012.7	6015.9	6015.9	6012.7	6012.7	6019.0
5°	6041.4	6041.4	6041.4	6038.2	6035.0	6035.0	6041.4	6041.4	6031.8	6041.4	6041.4
7.5°	6095.6	6086.0	6095.6	6082.8	6076.5	6079.6	6082.8	6076.5	6070.1	6073.3	6073.3
10°	6165.7	6156.1	6156.1	6146.6	6137.0	6130.6	6124.3	6108.3	6092.4	6089.2	6076.5
12.5°	6248.5	6232.6	6223.1	6203.9	6188.0	6165.7	6146.6	6121.1	6089.2	6066.9	6044.6
15°	6331.5	6306.0	6283.6	6251.7	6216.7	6178.4	6137.0	6095.6	6044.6	5999.9	5961.6
17.5°	6398.4	6363.4	6321.9	6270.9	6219.9	6162.5	6102.0	6041.4	5968.0	5910.6	5866.0
20°	6420.7	6369.8	6315.6	6248.5	6181.6	6102.0	6025.4	5945.7	5862.8	5802.3	5751.3
22.5°	6392.1	6331.5	6264.5	6194.4	6105.1	6019.0	5929.8	5837.3	5764.0	5681.1	5633.3
25°	6312.4	6239.0	6165.7	6082.8	5996.7	5901.1	5805.5	5709.8	5620.5	5575.9	5515.4
27.5°	6149.8	6070.1	5990.3	5904.3	5805.5	5709.8	5611.0	5518.5	5442.0	5381.4	5346.4
30°	5862.8	5770.4	5677.9	5585.5	5499.4	5400.5	5308.1	5231.6	5155.1	5107.2	5072.2
32.5°	5422.8	5340.0	5247.6	5158.3	5078.6	4995.7	4919.2	4852.2	4798.0	4766.1	4740.6
35°	4829.9	4747.0	4676.9	4613.1	4546.1	4511.1	4463.3	4425.0	4402.7	4390.0	4386.8
37.5°	4083.9	4036.1	4013.7	4001.0	3988.2	3978.7	3985.0	4001.0	4013.7	4036.1	4061.6
40°	3286.9	3328.3	3341.1	3385.7	3427.1	3481.3	3542.0	3612.1	3669.4	3742.7	3793.8
42.5°	2560.0	2636.5	2725.8	2821.4	2923.4	3022.3	3143.4	3255.0	3357.0	3449.4	3529.2
45°	1967.0	2085.0	2218.9	2355.9	2493.1	2636.5	2783.2	2920.2	3041.4	3140.2	3223.1
47.5°	1533.4	1664.2	1836.3	2005.3	2171.1	2340.0	2502.6	2646.1	2748.1	2843.7	2917.0
50°	1214.6	1364.5	1552.6	1747.0	1928.8	2107.3	2279.4	2413.4	2515.4	2591.9	2646.1
52.5°	940.4	1119.0	1310.3	1514.3	1708.8	1903.3	2062.6	2187.0	2269.9	2336.8	2378.3
55°	701.4	876.7	1080.8	1291.2	1488.8	1676.9	1826.8	1935.2	2008.5	2046.7	2069.0
57.5°	506.9	666.3	870.3	1080.8	1259.3	1437.8	1559.0	1657.8	1699.2	1721.5	1731.1
60°	369.8	516.5	698.2	879.9	1048.9	1192.3	1297.6	1364.5	1396.4	1409.1	1405.9
62.5°	271.0	398.5	554.7	707.8	844.8	962.8	1045.7	1090.3	1106.3	1112.6	1103.1
65°	207.2	306.0	440.0	557.9	663.1	749.2	809.8	838.5	848.0	844.8	838.5
67.5°	153.0	229.6	328.4	417.6	494.2	561.1	593.0	618.5	624.8	615.3	605.7
70°	108.4	169.0	239.1	299.7	357.0	395.3	430.4	433.6	433.6	430.4	424.0
72.5°	76.5	117.9	162.6	204.1	239.1	267.8	280.5	290.1	286.9	283.7	277.4
75°	51.0	73.3	117.9	127.5	159.4	169.0	181.8	181.8	184.9	175.4	175.4
77.5°	31.9	51.0	70.1	82.9	95.6	108.4	114.7	114.7	117.9	114.7	114.7
80°	19.1	31.9	38.2	57.4	57.4	66.9	70.1	73.3	66.9	76.5	66.9
82.5°	12.7	19.1	28.7	28.7	35.1	41.4	41.4	44.6	44.6	41.4	41.4
85°	9.6	12.7	15.9	19.1	19.1	22.3	19.1	19.1	22.3	25.5	22.3
87.5°	3.2	6.4	3.2	6.4	6.4	12.7	9.6	9.6	9.6	12.7	12.7
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: P248366

CATALOG NUMBER: LSR8B100D010 EC8B100850 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6006.3	6006.3	6006.3	6006.3
2.5°	6012.7	6015.9	6012.7	6012.7
5°	6041.4	6038.2	6041.4	6035.0
7.5°	6063.7	6063.7	6060.5	6060.5
10°	6063.7	6051.0	6051.0	6051.0
12.5°	6015.9	5999.9	5990.3	5983.9
15°	5932.9	5904.3	5891.5	5888.3
17.5°	5824.6	5799.1	5783.2	5773.6
20°	5700.2	5674.7	5655.6	5658.8
22.5°	5591.8	5563.2	5550.4	5544.0
25°	5483.5	5448.4	5438.8	5432.4
27.5°	5308.1	5289.0	5279.4	5269.9
30°	5040.3	5030.7	5014.8	5037.1
32.5°	4731.1	4715.1	4702.4	4712.0
35°	4390.0	4380.4	4390.0	4383.6
37.5°	4077.5	4087.1	4099.9	4106.2
40°	3832.1	3867.1	3879.9	3886.2
42.5°	3586.6	3628.0	3653.5	3669.4
45°	3283.7	3325.1	3353.8	3373.0
47.5°	2971.3	3006.4	3035.0	3031.9
50°	2687.6	2706.7	2719.4	2732.2
52.5°	2400.6	2400.6	2403.8	2403.8
55°	2075.4	2069.0	2065.8	2069.0
57.5°	1718.3	1712.0	1708.8	1699.2
60°	1393.2	1374.1	1361.3	1361.3
62.5°	1090.3	1068.0	1058.5	1055.3
65°	819.3	816.1	797.0	793.8
67.5°	593.0	580.2	567.5	570.7
70°	417.6	398.5	398.5	392.1
72.5°	271.0	261.4	258.2	258.2
75°	169.0	169.0	162.6	175.4
77.5°	111.6	111.6	108.4	111.6
80°	66.9	66.9	66.9	63.7
82.5°	41.4	44.6	41.4	41.4
85°	22.3	25.5	19.1	28.7
87.5°	12.7	15.9	12.7	15.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)