

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: P248465

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248465
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 EC8B100840 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11043.0 lumens
Efficiency: N/A
Efficacy: 103.9 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

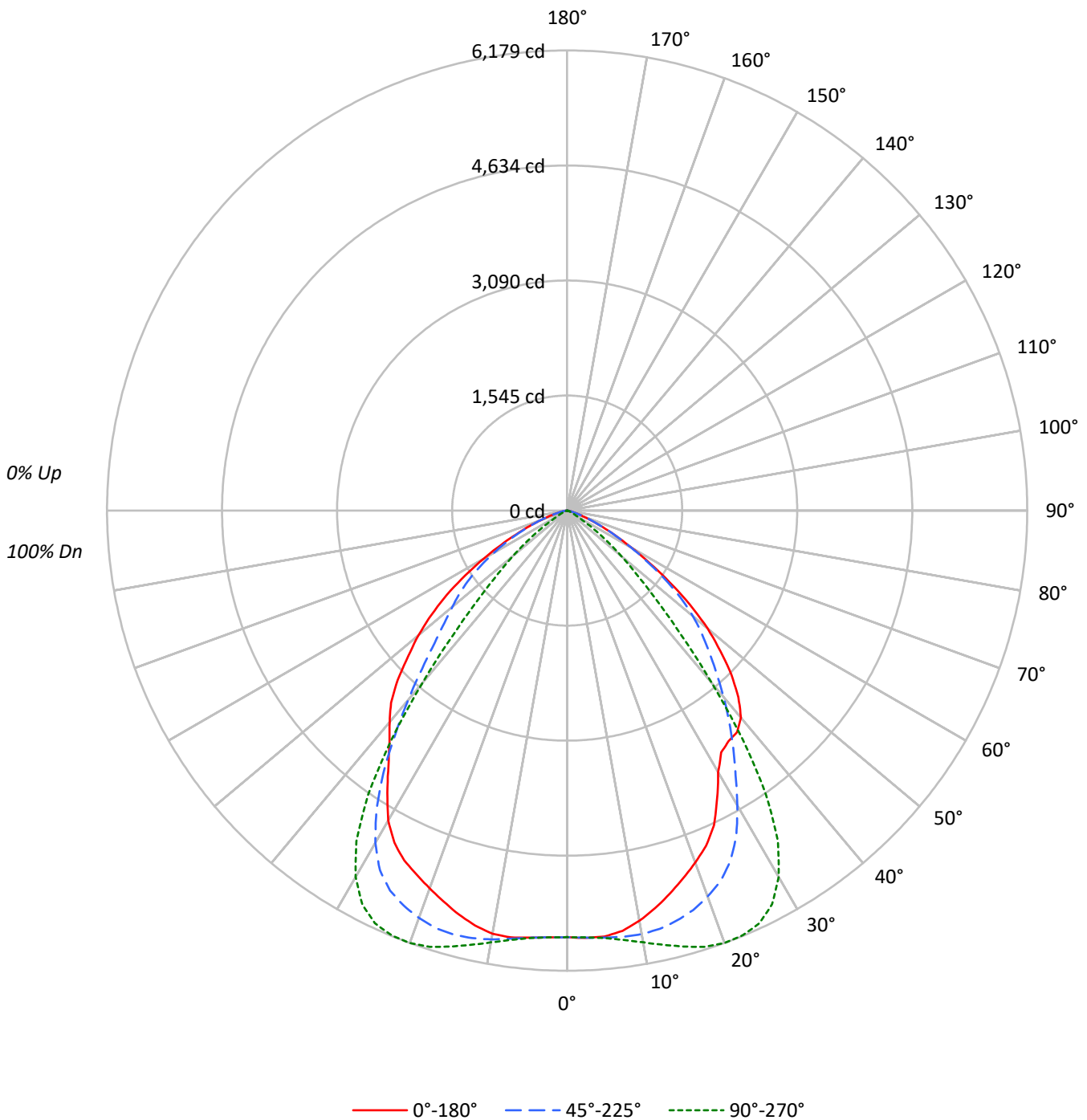
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	176652	176652	176652
5°	177704	178364	178175
10°	175094	184331	180711
15°	169973	193466	179292
20°	165041	202759	177114
25°	158705	207952	176293
30°	144431	202250	171069
35°	142280	175249	157390
40°	146150	121543	149205
45°	136052	73460	140295
50°	118008	45363	125012
55°	90561	23703	106093
60°	61697	9565	80076
65°	38380	4881	55242
70°	20836	3020	33720
75°	10866	1442	19933
80°	4866	1634	10797
85°	3255	1097	9694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.9	5.0
10°-20°	1632.0	14.8
20°-30°	2489.8	22.5
30°-40°	2598.2	23.5
40°-50°	1951.6	17.7
50°-60°	1200.8	10.9
60°-70°	488.7	4.4
70°-80°	115.1	1.0
80°-90°	15.9	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°	4672.8	42.3
0°-40°	7271.0	65.8
0°-60°	10423.3	94.4
0°-90°	11043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11043.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5729	5729	5729	5729	5729	
5°	5741	5756	5762	5756	5756	543
15°	5324	5698	6060	5893	5616	1500
25°	4664	5188	6112	5628	5181	2121
35°	3780	3886	4655	4303	4181	2386
45°	3120	2700	1684	2515	3217	2380
55°	1684	1599	441	1599	1973	1514
65°	526	532	67	715	757	549
75°	91	91	12	161	167	110
85°	9	9	3	21	27	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°	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7
2.5°	5744.0	5734.8	5744.0	5744.0	5747.0	5740.9	5744.0	5747.0	5740.9	5740.9	5740.9
5°	5740.9	5734.8	5740.9	5737.9	5744.0	5744.0	5750.1	5750.1	5756.1	5756.1	5765.2
7.5°	5692.3	5680.1	5692.3	5701.4	5707.4	5719.6	5734.8	5747.0	5759.1	5771.3	5786.5
10°	5591.9	5591.9	5601.0	5619.3	5637.5	5658.8	5686.2	5716.6	5747.0	5774.3	5801.7
12.5°	5467.3	5458.1	5476.3	5500.7	5528.1	5561.5	5604.1	5649.7	5698.4	5753.0	5795.7
15°	5324.3	5315.2	5336.5	5360.8	5394.3	5442.9	5494.6	5555.4	5625.4	5698.4	5768.3
17.5°	5178.4	5175.3	5196.6	5230.1	5257.5	5309.1	5376.1	5449.0	5528.1	5625.4	5716.6
20°	5029.4	5026.4	5047.6	5075.0	5111.5	5160.1	5227.0	5312.1	5406.4	5515.9	5622.3
22.5°	4874.3	4877.3	4895.6	4926.0	4956.4	5008.1	5078.0	5163.2	5266.5	5385.1	5503.7
25°	4664.5	4649.3	4673.6	4704.1	4755.7	4798.3	4865.2	4956.4	5062.8	5187.5	5327.4
27.5°	4360.4	4357.3	4378.7	4406.0	4451.6	4503.3	4576.3	4670.6	4783.1	4919.9	5056.7
30°	4056.3	4062.4	4071.6	4098.9	4129.3	4181.0	4254.0	4333.1	4439.5	4570.2	4716.2
32.5°	3849.6	3849.6	3861.8	3880.0	3901.3	3928.6	3980.3	4038.1	4120.2	4211.4	4317.8
35°	3779.6	3767.5	3779.6	3782.7	3785.7	3791.8	3800.9	3819.2	3846.5	3886.1	3925.6
37.5°	3749.3	3740.1	3740.1	3728.0	3712.7	3694.5	3670.2	3642.8	3612.4	3572.9	3542.5
40°	3630.7	3624.6	3618.5	3606.3	3572.9	3536.4	3496.8	3433.0	3363.0	3265.7	3168.5
42.5°	3402.6	3396.5	3393.5	3369.1	3338.7	3296.2	3250.5	3183.7	3095.5	2970.8	2830.9
45°	3119.8	3107.6	3098.5	3077.3	3055.9	3019.4	2976.9	2916.0	2827.9	2700.2	2532.9
47.5°	2791.4	2785.3	2782.3	2773.2	2751.9	2730.5	2703.2	2654.6	2575.5	2453.8	2280.6
50°	2459.9	2447.8	2453.8	2450.9	2441.7	2426.5	2408.2	2374.8	2314.0	2204.5	2046.4
52.5°	2079.8	2079.8	2076.9	2085.9	2089.0	2085.9	2089.0	2052.5	2000.8	1918.7	1784.9
55°	1684.5	1684.5	1693.7	1705.9	1718.0	1721.1	1718.0	1702.8	1666.3	1599.4	1480.8
57.5°	1313.6	1307.5	1325.8	1344.0	1356.2	1368.3	1359.2	1347.0	1325.8	1271.0	1179.8
60°	1000.4	1000.4	1012.5	1024.7	1036.9	1049.1	1046.0	1043.0	1024.7	988.2	915.3
62.5°	735.8	738.9	738.9	748.0	760.2	772.4	781.4	772.4	763.2	738.9	690.2
65°	526.0	523.0	526.0	535.2	544.3	556.5	562.6	559.5	550.4	532.1	495.7
67.5°	352.7	349.7	361.8	364.9	371.0	383.2	380.1	383.2	380.1	364.9	334.5
70°	231.1	225.0	231.1	228.0	237.2	240.2	246.3	249.3	246.3	237.2	228.0
72.5°	142.9	139.9	142.9	146.0	149.0	152.0	158.1	158.1	155.1	149.0	136.8
75°	91.2	82.1	85.1	79.1	85.1	85.1	91.2	94.3	91.2	91.2	85.1
77.5°	54.8	54.8	54.8	54.8	54.8	54.8	54.8	57.8	60.8	54.8	51.7
80°	27.4	27.4	30.4	30.4	30.4	33.5	30.4	30.4	30.4	33.5	24.3
82.5°	21.3	18.2	18.2	18.2	21.3	18.2	18.2	18.2	18.2	18.2	18.2
85°	9.2	12.1	9.2	6.1	9.2	9.2	12.1	9.2	9.2	9.2	12.1
87.5°	3.1	3.1	0.0	0.0	0.0	3.1	0.0	3.1	3.1	6.1	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°	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7
2.5°	5744.0	5737.9	5737.9	5734.8	5740.9	5734.8	5737.9	5734.8	5734.8	5740.9	5734.8
5°	5765.2	5768.3	5762.2	5759.1	5768.3	5768.3	5768.3	5762.2	5762.2	5765.2	5762.2
7.5°	5795.7	5801.7	5804.8	5807.8	5813.9	5817.0	5817.0	5813.9	5810.9	5820.0	5807.8
10°	5829.1	5838.2	5856.5	5865.6	5880.8	5880.8	5886.9	5886.9	5880.8	5886.9	5883.8
12.5°	5817.0	5871.6	5902.1	5923.4	5944.6	5962.9	5969.0	5972.0	5969.0	5981.2	5969.0
15°	5838.2	5883.8	5932.5	5969.0	6008.5	6029.7	6035.8	6060.2	6066.3	6069.3	6051.1
17.5°	5804.8	5886.9	5938.5	5993.3	6051.1	6090.6	6127.1	6142.3	6145.4	6151.4	6127.1
20°	5728.7	5820.0	5899.0	5978.1	6045.0	6105.8	6136.2	6178.8	6166.6	6191.0	6157.5
22.5°	5625.4	5728.7	5829.1	5932.5	6002.4	6075.4	6139.3	6169.6	6184.9	6184.9	6148.3
25°	5461.2	5582.8	5692.3	5798.7	5905.1	5993.3	6066.3	6111.9	6121.0	6118.0	6075.4
27.5°	5205.7	5336.5	5464.2	5585.9	5716.6	5820.0	5905.1	5959.8	5975.1	5975.1	5929.5
30°	4853.0	4992.9	5117.6	5263.5	5397.3	5512.9	5631.5	5680.1	5707.4	5707.4	5655.8
32.5°	4433.4	4552.0	4667.5	4810.5	4956.4	5087.2	5199.6	5266.5	5300.0	5297.0	5251.4
35°	3977.3	4035.0	4123.3	4229.7	4360.4	4482.0	4591.5	4655.4	4713.1	4710.1	4667.5
37.5°	3521.1	3506.0	3515.1	3554.6	3636.7	3721.9	3807.0	3867.9	3916.4	3937.8	3928.6
40°	3074.2	2995.1	2919.1	2891.8	2897.8	2928.2	2973.8	3019.4	3074.2	3101.6	3113.7
42.5°	2672.8	2539.0	2405.2	2304.9	2247.1	2228.9	2250.1	2265.3	2298.8	2338.3	2377.9
45°	2350.5	2171.1	1994.7	1839.7	1742.3	1684.5	1672.4	1684.5	1702.8	1742.3	1794.1
47.5°	2085.9	1876.1	1678.5	1505.1	1362.2	1286.3	1265.0	1258.9	1277.1	1313.6	1383.5
50°	1851.8	1642.0	1423.1	1222.3	1073.4	988.2	957.8	945.6	966.9	994.3	1058.1
52.5°	1596.4	1389.6	1164.6	970.0	814.9	726.8	693.3	675.0	687.2	723.7	787.5
55°	1319.7	1128.1	924.4	723.7	574.7	492.6	453.0	440.9	453.0	492.6	556.5
57.5°	1043.0	881.8	711.5	523.0	389.2	307.1	267.6	255.4	288.9	304.1	371.0
60°	814.9	684.2	538.2	383.2	267.6	203.7	164.2	155.1	170.3	197.6	252.4
62.5°	611.2	529.1	413.5	273.7	197.6	130.7	109.4	100.4	109.4	130.7	173.4
65°	444.0	380.1	288.9	200.7	133.8	97.3	73.0	66.9	76.0	91.2	127.7
67.5°	304.1	255.4	200.7	139.9	91.2	60.8	51.7	51.7	54.8	66.9	94.3
70°	197.6	167.3	127.7	91.2	60.8	45.6	39.5	33.5	39.5	48.7	63.8
72.5°	124.7	106.4	82.1	63.8	45.6	33.5	27.4	24.3	30.4	36.5	48.7
75°	76.0	57.8	42.6	33.5	24.3	24.3	24.3	12.1	15.2	24.3	30.4
77.5°	45.6	39.5	33.5	27.4	21.3	12.1	12.1	12.1	15.2	18.2	27.4
80°	24.3	21.3	15.2	15.2	12.1	9.2	12.1	9.2	6.1	15.2	18.2
82.5°	15.2	12.1	12.1	12.1	15.2	6.1	9.2	6.1	9.2	12.1	9.2
85°	9.2	9.2	9.2	6.1	15.2	6.1	6.1	3.1	3.1	6.1	6.1
87.5°	0.0	3.1	3.1	0.0	3.1	0.0	3.1	3.1	3.1	3.1	3.1
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°	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7
2.5°	5737.9	5734.8	5737.9	5734.8	5734.8	5734.8	5737.9	5737.9	5734.8	5734.8	5740.9
5°	5762.2	5762.2	5762.2	5759.1	5756.1	5756.1	5762.2	5762.2	5753.0	5762.2	5762.2
7.5°	5813.9	5804.8	5813.9	5801.7	5795.7	5798.7	5801.7	5795.7	5789.6	5792.6	5792.6
10°	5880.8	5871.6	5871.6	5862.6	5853.4	5847.3	5841.3	5826.0	5810.9	5807.8	5795.7
12.5°	5959.8	5944.6	5935.6	5917.3	5902.1	5880.8	5862.6	5838.2	5807.8	5786.5	5765.2
15°	6038.9	6014.6	5993.3	5962.9	5929.5	5892.9	5853.4	5813.9	5765.2	5722.7	5686.2
17.5°	6102.7	6069.3	6029.7	5981.2	5932.5	5877.7	5820.0	5762.2	5692.3	5637.5	5594.9
20°	6124.0	6075.4	6023.7	5959.8	5896.0	5820.0	5747.0	5671.0	5591.9	5534.2	5485.5
22.5°	6096.7	6038.9	5975.1	5908.2	5823.0	5740.9	5655.8	5567.6	5497.6	5418.6	5373.0
25°	6020.7	5950.7	5880.8	5801.7	5719.6	5628.4	5537.2	5446.0	5360.8	5318.2	5260.5
27.5°	5865.6	5789.6	5713.5	5631.5	5537.2	5446.0	5351.7	5263.5	5190.6	5132.8	5099.4
30°	5591.9	5503.7	5415.6	5327.4	5245.3	5151.0	5062.8	4989.8	4916.8	4871.2	4837.8
32.5°	5172.3	5093.3	5005.1	4919.9	4843.9	4764.8	4691.9	4628.0	4576.3	4545.9	4521.5
35°	4606.7	4527.6	4460.8	4400.0	4336.1	4302.7	4257.0	4220.5	4199.2	4187.1	4184.1
37.5°	3895.2	3849.6	3828.3	3816.1	3803.9	3794.9	3800.9	3816.1	3828.3	3849.6	3873.9
40°	3135.0	3174.5	3186.7	3229.3	3268.8	3320.5	3378.3	3445.2	3499.9	3569.8	3618.5
42.5°	2441.7	2514.7	2599.8	2691.0	2788.4	2882.6	2998.2	3104.6	3201.9	3290.1	3366.1
45°	1876.1	1988.6	2116.4	2247.1	2377.9	2514.7	2654.6	2785.3	2900.9	2995.1	3074.2
47.5°	1462.6	1587.3	1751.5	1912.6	2070.8	2231.9	2387.0	2523.8	2621.1	2712.3	2782.3
50°	1158.5	1301.4	1480.8	1666.3	1839.7	2009.9	2174.1	2301.8	2399.2	2472.1	2523.8
52.5°	897.0	1067.3	1249.7	1444.4	1629.8	1815.3	1967.3	2085.9	2165.0	2228.9	2268.4
55°	668.9	836.2	1030.8	1231.5	1420.0	1599.4	1742.3	1845.8	1915.7	1952.2	1973.4
57.5°	483.5	635.5	830.1	1030.8	1201.1	1371.4	1486.9	1581.2	1620.7	1642.0	1651.1
60°	352.7	492.6	665.9	839.3	1000.4	1137.2	1237.6	1301.4	1331.9	1344.0	1340.9
62.5°	258.5	380.1	529.1	675.0	805.8	918.3	997.4	1039.9	1055.2	1061.2	1052.1
65°	197.6	291.9	419.6	532.1	632.5	714.6	772.4	799.7	808.8	805.8	799.7
67.5°	146.0	219.0	313.2	398.3	471.3	535.2	565.6	589.9	596.0	586.9	577.7
70°	103.4	161.2	228.0	285.9	340.5	377.1	410.5	413.5	413.5	410.5	404.4
72.5°	73.0	112.5	155.1	194.6	228.0	255.4	267.6	276.7	273.7	270.6	264.6
75°	48.7	69.9	112.5	121.6	152.0	161.2	173.4	173.4	176.3	167.3	167.3
77.5°	30.4	48.7	66.9	79.1	91.2	103.4	109.4	109.4	112.5	109.4	109.4
80°	18.2	30.4	36.5	54.8	54.8	63.8	66.9	69.9	63.8	73.0	63.8
82.5°	12.1	18.2	27.4	27.4	33.5	39.5	39.5	42.6	42.6	39.5	39.5
85°	9.2	12.1	15.2	18.2	18.2	21.3	18.2	18.2	21.3	24.3	21.3
87.5°	3.1	6.1	3.1	6.1	6.1	12.1	9.2	9.2	9.2	12.1	12.1
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: P248465

CATALOG NUMBER: LSR8B100D010 EC8B100840 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5728.7	5728.7	5728.7	5728.7
2.5°	5734.8	5737.9	5734.8	5734.8
5°	5762.2	5759.1	5762.2	5756.1
7.5°	5783.5	5783.5	5780.4	5780.4
10°	5783.5	5771.3	5771.3	5771.3
12.5°	5737.9	5722.7	5713.5	5707.4
15°	5658.8	5631.5	5619.3	5616.2
17.5°	5555.4	5531.1	5515.9	5506.8
20°	5436.8	5412.5	5394.3	5397.3
22.5°	5333.4	5306.1	5293.9	5287.8
25°	5230.1	5196.6	5187.5	5181.4
27.5°	5062.8	5044.6	5035.4	5026.4
30°	4807.4	4798.3	4783.1	4804.4
32.5°	4512.5	4497.2	4485.1	4494.2
35°	4187.1	4178.0	4187.1	4181.0
37.5°	3889.1	3898.2	3910.4	3916.4
40°	3655.0	3688.4	3700.6	3706.6
42.5°	3420.8	3460.4	3484.7	3499.9
45°	3131.9	3171.5	3198.8	3217.1
47.5°	2834.0	2867.4	2894.8	2891.8
50°	2563.4	2581.6	2593.7	2605.9
52.5°	2289.6	2289.6	2292.7	2292.7
55°	1979.5	1973.4	1970.4	1973.4
57.5°	1638.9	1632.9	1629.8	1620.7
60°	1328.8	1310.6	1298.4	1298.4
62.5°	1039.9	1018.6	1009.6	1006.5
65°	781.4	778.4	760.2	757.1
67.5°	565.6	553.4	541.3	544.3
70°	398.3	380.1	380.1	374.0
72.5°	258.5	249.3	246.3	246.3
75°	161.2	161.2	155.1	167.3
77.5°	106.4	106.4	103.4	106.4
80°	63.8	63.8	63.8	60.8
82.5°	39.5	42.6	39.5	39.5
85°	21.3	24.3	18.2	27.4
87.5°	12.1	15.2	12.1	15.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)