

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: P250276

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250276
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: LSR8B100D010 EC8B100927 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8685.0 lumens
Efficiency: N/A
Efficacy: 81.7 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

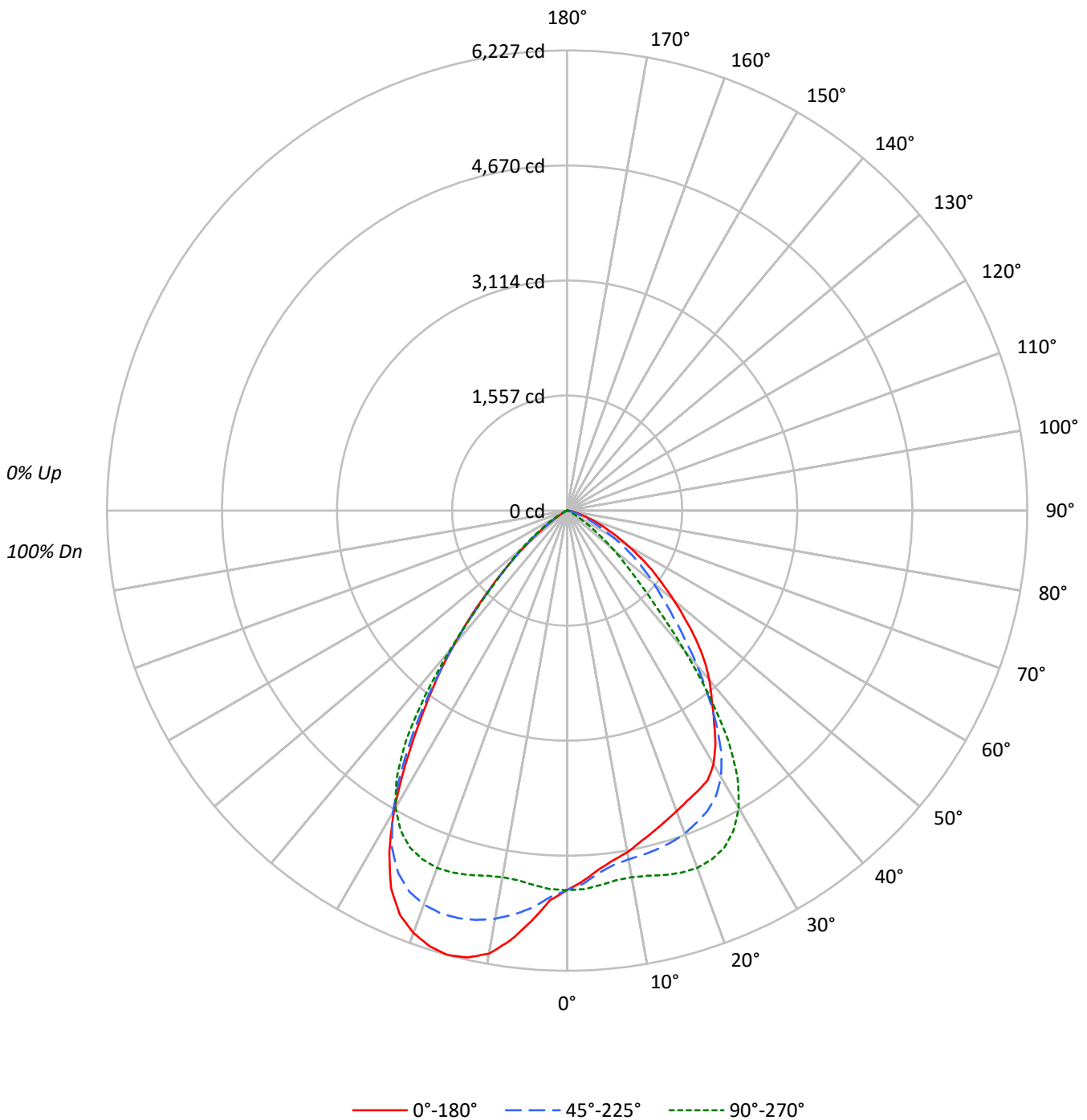
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	493.7	5.7
10°-20°	1477.6	17.0
20°-30°	2262.7	26.1
30°-40°	2218.2	25.5
40°-50°	1335.8	15.4
50°-60°	614.8	7.1
60°-70°	216.0	2.5
70°-80°	56.5	0.7
80°-90°	9.6	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°	4234.0	48.8
0°-40°	6452.2	74.3
0°-60°	8402.9	96.8
0°-90°	8685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8685.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5136	5136	5136	5136	5136	
5°	4874	4920	5088	5392	5577	460
15°	4500	4742	5104	5709	6227	1271
25°	4185	4488	5032	5412	5637	1928
35°	3463	3511	3801	3583	3468	2169
45°	2460	2025	1373	1382	1418	1886
55°	1397	1106	394	310	298	1246
65°	593	410	62	31	34	604
75°	154	89	5	0	0	186
85°	24	12	2	0	0	33
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°	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5
2.5°	5015.5	5020.3	5020.3	5020.3	5029.9	5032.3	5029.9	5032.3	5037.1	5053.8	5061.0
5°	4874.0	4866.6	4871.5	4869.1	4881.2	4888.3	4883.5	4890.7	4907.5	4919.5	4931.4
7.5°	4773.2	4773.2	4773.2	4777.9	4785.1	4799.5	4797.1	4801.8	4818.7	4835.5	4852.2
10°	4694.0	4691.6	4691.6	4703.5	4713.1	4729.8	4734.7	4749.2	4770.7	4792.3	4811.5
12.5°	4590.7	4593.2	4605.1	4617.2	4638.7	4665.0	4679.6	4698.8	4732.3	4768.3	4789.9
15°	4499.6	4501.9	4511.6	4535.6	4562.0	4593.2	4624.3	4655.5	4696.3	4742.0	4780.3
17.5°	4410.8	4413.2	4420.3	4446.8	4480.4	4521.2	4557.2	4597.9	4650.8	4703.5	4751.6
20°	4329.1	4326.8	4338.8	4362.8	4406.0	4444.3	4480.4	4528.3	4586.0	4650.8	4705.9
22.5°	4249.9	4249.9	4262.0	4286.0	4324.4	4362.8	4401.1	4451.5	4509.1	4571.6	4636.3
25°	4185.1	4182.8	4199.5	4211.7	4240.3	4278.8	4319.6	4360.4	4418.0	4487.6	4550.0
27.5°	4115.6	4113.2	4115.6	4130.0	4156.4	4185.1	4216.4	4252.4	4300.4	4358.0	4418.0
30°	3962.0	3964.4	3964.4	3976.4	3990.8	4022.0	4038.8	4074.8	4118.0	4166.0	4218.9
32.5°	3734.0	3736.4	3736.4	3741.2	3753.2	3767.6	3782.0	3808.4	3842.0	3882.8	3930.8
35°	3462.9	3462.9	3460.4	3462.9	3470.1	3470.1	3482.1	3470.1	3486.9	3510.9	3546.9
37.5°	3213.2	3208.4	3203.7	3198.8	3191.6	3179.7	3162.9	3134.0	3126.8	3117.3	3119.6
40°	2992.5	2990.1	2975.7	2963.7	2939.6	2910.9	2870.1	2819.7	2779.0	2730.9	2690.2
42.5°	2747.7	2745.2	2733.3	2711.7	2685.4	2642.2	2577.4	2510.2	2428.6	2356.6	2282.2
45°	2459.7	2466.9	2450.1	2426.2	2394.9	2354.2	2282.2	2200.5	2118.9	2025.4	1931.7
47.5°	2159.8	2157.4	2145.4	2131.0	2104.6	2063.8	2015.8	1927.0	1840.6	1754.2	1658.2
50°	1881.3	1871.8	1866.9	1852.6	1835.9	1802.2	1751.7	1679.7	1603.0	1521.4	1432.7
52.5°	1617.4	1617.4	1605.4	1595.8	1581.4	1555.0	1511.9	1454.3	1389.5	1312.6	1219.0
55°	1396.7	1391.9	1379.9	1367.9	1353.4	1336.6	1298.4	1250.3	1180.7	1106.3	1024.6
57.5°	1161.4	1159.1	1154.2	1139.9	1132.6	1115.9	1072.7	1024.6	964.8	900.0	832.7
60°	950.3	940.7	931.0	921.5	909.6	892.7	863.9	823.0	772.8	715.2	648.0
62.5°	760.7	775.1	746.3	746.3	722.4	708.0	681.5	657.6	604.7	551.9	494.3
65°	592.8	592.8	580.7	571.2	556.6	539.9	513.6	489.5	451.1	410.3	369.6
67.5°	453.6	451.1	439.2	429.5	417.5	407.9	388.8	359.9	331.2	297.6	263.9
70°	333.6	331.2	328.7	312.0	302.4	290.4	276.0	256.8	235.2	211.2	180.0
72.5°	240.0	240.0	232.8	225.6	216.0	206.3	192.0	180.0	160.8	144.0	122.4
75°	153.6	151.2	151.2	139.2	139.2	124.8	115.2	108.0	98.3	88.8	69.6
77.5°	110.5	108.0	105.6	100.8	96.0	91.1	83.9	74.4	67.2	57.6	50.4
80°	74.4	69.6	67.2	67.2	60.0	57.6	60.0	45.7	43.2	36.0	31.2
82.5°	45.7	45.7	43.2	43.2	40.8	38.5	31.2	31.2	28.8	26.3	21.6
85°	24.0	31.2	21.6	24.0	21.6	24.0	21.6	16.8	14.4	11.9	11.9
87.5°	14.4	9.6	9.6	14.4	11.9	9.6	9.6	9.6	7.2	4.8	4.8
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°	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5
2.5°	5056.3	5073.2	5070.7	5092.3	5099.5	5116.3	5116.3	5128.2	5135.5	5152.3	5166.7
5°	4936.3	4962.7	4969.9	4996.2	5018.0	5044.3	5061.0	5087.5	5111.4	5147.6	5181.1
7.5°	4861.9	4883.5	4897.9	4929.1	4953.2	4981.8	5010.8	5046.6	5080.3	5123.5	5171.5
10°	4825.9	4854.7	4876.3	4907.5	4936.3	4967.6	4996.2	5037.1	5075.6	5130.7	5183.4
12.5°	4816.3	4849.9	4876.3	4919.5	4948.3	4981.8	5015.5	5061.0	5101.9	5159.5	5219.6
15°	4816.3	4861.9	4897.9	4946.0	4979.5	5022.7	5058.7	5104.2	5149.9	5209.9	5267.5
17.5°	4806.8	4861.9	4907.5	4962.7	5005.9	5049.1	5094.7	5137.9	5185.8	5243.5	5308.2
20°	4768.3	4838.0	4893.1	4957.9	5003.6	5051.5	5097.2	5145.1	5195.5	5255.4	5310.7
22.5°	4701.2	4782.7	4845.2	4914.7	4967.6	5015.5	5061.0	5109.1	5164.3	5221.9	5279.5
25°	4612.4	4689.1	4756.4	4828.3	4881.2	4933.9	4977.1	5032.3	5082.8	5137.9	5183.4
27.5°	4478.0	4559.5	4624.3	4698.8	4746.7	4797.1	4833.1	4878.8	4926.7	4972.3	5008.4
30°	4276.3	4350.8	4418.0	4485.2	4533.1	4569.2	4607.6	4643.6	4674.7	4705.9	4737.2
32.5°	3981.2	4048.4	4113.2	4175.6	4214.0	4245.2	4274.0	4295.6	4312.3	4329.1	4331.5
35°	3575.7	3630.8	3671.6	3726.8	3762.9	3791.6	3791.6	3801.2	3798.8	3791.6	3784.4
37.5°	3122.1	3143.6	3160.5	3182.1	3184.4	3184.4	3170.1	3158.1	3138.9	3134.0	3119.6
40°	2649.4	2620.6	2598.9	2570.2	2553.4	2517.3	2486.1	2464.5	2433.4	2428.6	2423.8
42.5°	2200.5	2133.3	2073.4	2023.0	1965.5	1915.0	1869.4	1835.9	1811.8	1809.3	1811.8
45°	1835.9	1759.0	1670.2	1600.6	1535.9	1473.4	1413.4	1372.7	1351.0	1346.2	1351.0
47.5°	1559.9	1471.0	1384.6	1305.4	1235.9	1166.3	1106.3	1051.1	1024.6	1017.4	1015.1
50°	1341.4	1250.3	1159.1	1077.4	1000.7	931.0	856.7	803.9	770.4	758.2	748.7
52.5°	1127.9	1046.4	952.6	868.7	791.9	710.3	633.6	573.5	539.9	525.6	515.9
55°	940.7	859.2	772.8	691.1	609.5	528.0	451.1	393.5	357.5	340.8	328.7
57.5°	751.1	674.3	600.0	518.4	451.1	372.0	295.1	244.8	213.5	194.4	184.8
60°	580.7	520.8	456.0	388.8	324.0	259.2	196.8	148.7	124.8	110.5	98.3
62.5°	439.2	388.8	345.5	287.9	237.6	182.4	134.4	96.0	74.4	62.4	57.6
65°	316.8	278.3	240.0	204.0	168.0	127.2	91.1	62.4	43.2	36.0	33.6
67.5°	225.6	194.4	165.6	141.5	115.2	91.1	64.8	43.2	33.6	28.8	26.3
70°	158.3	134.4	115.2	93.6	76.7	60.0	50.4	31.2	19.1	21.6	16.8
72.5°	105.6	88.8	79.2	64.8	52.8	43.2	31.2	21.6	21.6	16.8	14.4
75°	57.6	52.8	40.8	31.2	26.3	24.0	9.6	4.8	2.4	7.2	2.4
77.5°	40.8	36.0	31.2	26.3	21.6	16.8	9.6	9.6	7.2	9.6	4.8
80°	26.3	21.6	19.1	19.1	11.9	7.2	4.8	4.8	7.2	2.4	2.4
82.5°	16.8	14.4	11.9	11.9	11.9	7.2	7.2	7.2	7.2	4.8	4.8
85°	9.6	7.2	4.8	4.8	2.4	4.8	0.0	2.4	2.4	0.0	0.0
87.5°	4.8	2.4	2.4	2.4	2.4	0.0	0.0	2.4	0.0	2.4	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5	5135.5
2.5°	5176.2	5185.8	5197.8	5207.5	5229.1	5233.8	5243.5	5253.1	5260.3	5267.5	5269.8
5°	5209.9	5245.9	5279.5	5315.4	5361.1	5392.2	5428.2	5459.4	5490.7	5517.0	5536.2
7.5°	5219.6	5274.7	5325.1	5387.4	5454.6	5512.3	5572.2	5632.2	5694.6	5742.7	5783.4
10°	5238.7	5305.8	5370.6	5445.0	5531.4	5608.2	5682.6	5761.8	5841.0	5908.2	5968.2
12.5°	5272.3	5346.7	5416.3	5497.9	5586.6	5673.0	5754.6	5843.4	5927.4	6001.9	6069.0
15°	5327.4	5397.0	5464.2	5541.1	5629.8	5709.0	5790.6	5877.0	5961.0	6037.8	6100.2
17.5°	5363.4	5428.2	5495.4	5565.0	5639.4	5711.4	5788.1	5865.0	5941.8	6011.4	6069.0
20°	5363.4	5425.9	5476.3	5538.7	5608.2	5670.7	5733.0	5800.3	5867.4	5924.9	5980.2
22.5°	5320.2	5380.2	5418.7	5466.6	5526.6	5579.4	5613.1	5687.4	5737.8	5788.1	5829.0
25°	5219.6	5262.6	5293.9	5327.4	5375.5	5411.5	5440.3	5483.5	5533.9	5553.1	5581.8
27.5°	5037.1	5068.2	5085.1	5092.3	5116.3	5135.5	5140.3	5159.5	5181.1	5185.8	5197.8
30°	4749.2	4751.6	4744.3	4742.0	4729.8	4715.6	4713.1	4710.7	4701.2	4691.6	4694.0
32.5°	4314.7	4302.8	4274.0	4242.8	4211.7	4178.0	4158.8	4134.7	4120.3	4106.0	4089.3
35°	3753.2	3724.4	3683.7	3645.2	3609.2	3582.8	3539.6	3525.2	3510.9	3491.7	3486.9
37.5°	3093.3	3076.4	3038.1	3009.3	2990.1	2978.1	2956.5	2942.1	2942.1	2934.9	2930.1
40°	2411.7	2406.9	2392.5	2399.7	2390.2	2394.9	2392.5	2387.7	2399.7	2399.7	2404.6
42.5°	1809.3	1811.8	1819.0	1823.8	1838.2	1840.6	1852.6	1852.6	1859.8	1866.9	1871.8
45°	1346.2	1355.9	1355.9	1365.5	1379.9	1382.3	1387.0	1389.5	1394.2	1406.2	1411.0
47.5°	1010.2	1012.6	1012.6	1015.1	1019.8	1024.6	1022.3	1024.6	1032.0	1027.1	1032.0
50°	746.3	748.7	741.5	734.3	741.5	741.5	739.1	731.9	739.1	729.6	734.3
52.5°	508.8	506.4	499.2	501.6	496.8	494.3	494.3	489.5	489.5	489.5	479.9
55°	321.6	321.6	316.8	316.8	314.4	309.6	307.2	304.8	302.4	300.0	300.0
57.5°	180.0	182.4	175.3	172.8	175.3	172.8	168.0	168.0	168.0	160.8	165.6
60°	98.3	96.0	93.6	91.1	88.8	91.1	91.1	86.4	86.4	86.4	88.8
62.5°	52.8	52.8	50.4	50.4	48.0	48.0	52.8	45.7	48.0	45.7	48.0
65°	28.8	36.0	26.3	26.3	33.6	31.2	28.8	28.8	31.2	26.3	28.8
67.5°	31.2	21.6	19.1	21.6	19.1	19.1	19.1	24.0	21.6	16.8	21.6
70°	14.4	16.8	16.8	11.9	19.1	9.6	16.8	9.6	14.4	11.9	14.4
72.5°	14.4	14.4	14.4	9.6	14.4	9.6	11.9	11.9	9.6	9.6	14.4
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°	4.8	4.8	2.4	2.4	2.4	2.4	4.8	4.8	4.8	0.0	2.4
80°	4.8	4.8	0.0	2.4	0.0	0.0	2.4	0.0	2.4	0.0	4.8
82.5°	2.4	4.8	2.4	2.4	4.8	4.8	4.8	2.4	2.4	2.4	2.4
85°	0.0	2.4	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	2.4
87.5°	0.0	2.4	0.0	0.0	0.0	0.0	2.4	2.4	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: P250276

CATALOG NUMBER: LSR8B100D010 EC8B100927 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5135.5	5135.5	5135.5	5135.5
2.5°	5272.3	5274.7	5279.5	5277.2
5°	5550.6	5569.9	5579.4	5577.1
7.5°	5812.2	5845.8	5865.0	5865.0
10°	6013.8	6052.2	6081.0	6085.8
12.5°	6121.7	6165.0	6203.5	6193.8
15°	6153.0	6196.2	6234.5	6227.3
17.5°	6117.0	6160.2	6189.0	6184.1
20°	6018.6	6054.5	6083.4	6081.0
22.5°	5865.0	5896.2	5920.2	5917.7
25°	5605.9	5627.5	5646.6	5637.0
27.5°	5207.5	5214.7	5226.6	5212.3
30°	4677.2	4681.9	4686.8	4684.4
32.5°	4082.1	4079.6	4074.8	4069.9
35°	3479.6	3479.6	3482.1	3467.6
37.5°	2932.4	2930.1	2937.3	2930.1
40°	2409.3	2406.9	2416.5	2404.6
42.5°	1879.0	1886.2	1888.6	1888.6
45°	1413.4	1415.8	1418.2	1418.2
47.5°	1032.0	1034.3	1046.4	1032.0
50°	729.6	731.9	734.3	729.6
52.5°	482.3	484.8	482.3	475.1
55°	295.1	297.6	297.6	297.6
57.5°	158.3	160.8	160.8	158.3
60°	86.4	83.9	86.4	81.6
62.5°	45.7	50.4	48.0	43.2
65°	28.8	28.8	28.8	33.6
67.5°	24.0	19.1	21.6	16.8
70°	14.4	16.8	16.8	11.9
72.5°	11.9	11.9	11.9	14.4
75°	0.0	0.0	0.0	0.0
77.5°	4.8	4.8	4.8	2.4
80°	2.4	0.0	2.4	0.0
82.5°	2.4	2.4	4.8	2.4
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)