

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: P249510

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120930 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9137.3 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

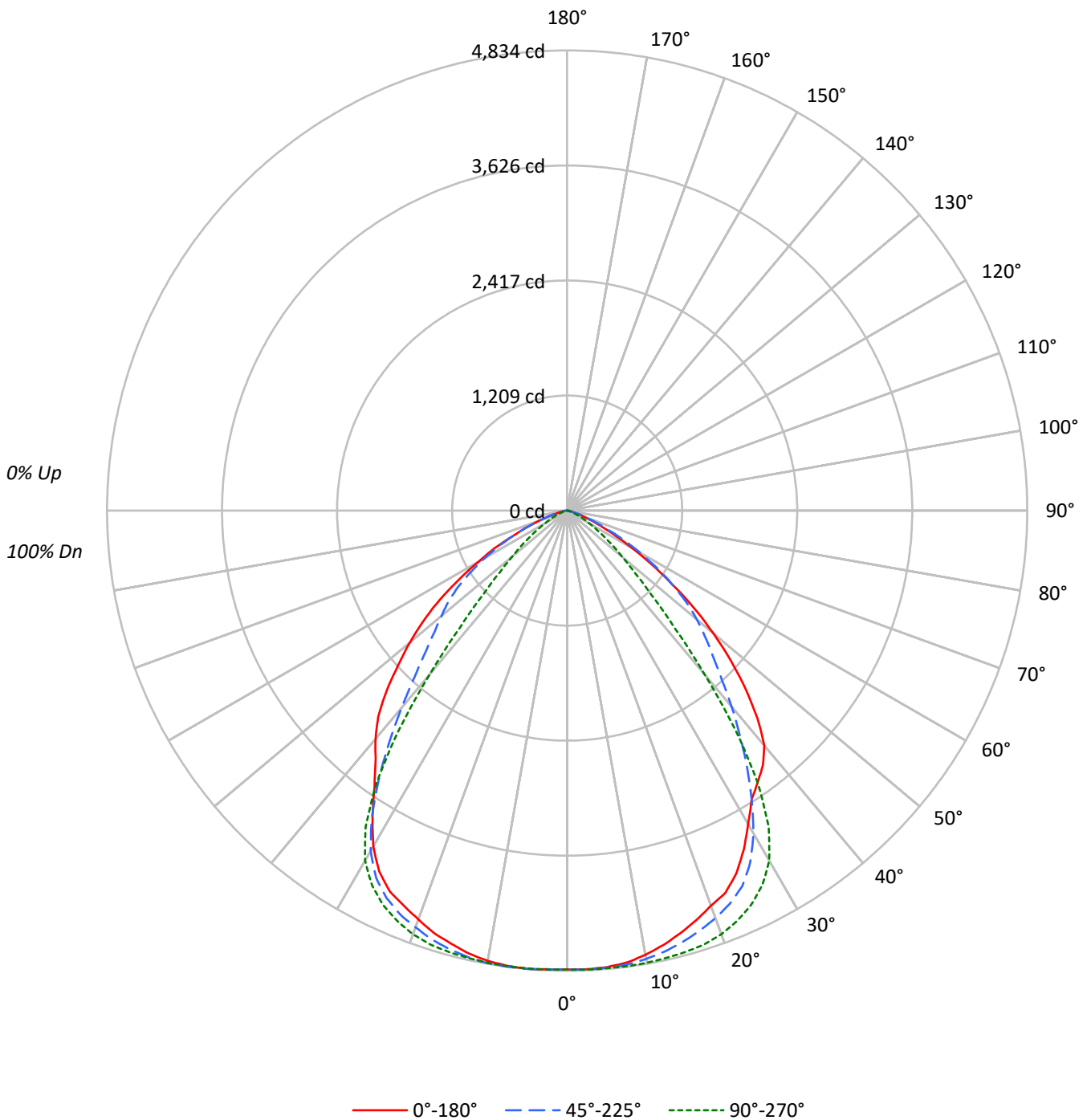
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

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°	460.1	5.0
10°-20°	1336.2	14.6
20°-30°	2028.1	22.2
30°-40°	2130.1	23.3
40°-50°	1597.0	17.5
50°-60°	1024.7	11.2
60°-70°	438.3	4.8
70°-80°	103.6	1.1
80°-90°	19.3	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°	3824.4	41.9
0°-40°	5954.4	65.2
0°-60°	8576.1	93.9
0°-90°	9137.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9137.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4821	4821	4821	4821	4821	
5°	4813	4821	4826	4834	4831	457
15°	4596	4692	4800	4769	4710	1296
25°	4205	4353	4573	4490	4412	1921
35°	3488	3294	3491	3449	3527	2189
45°	2650	2166	1245	2104	2686	2029
55°	1340	1340	463	1397	1633	1216
65°	404	476	148	613	624	431
75°	62	72	21	124	122	90
85°	21	13	10	21	28	22
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°	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0
2.5°	4823.6	4828.8	4826.2	4826.2	4823.6	4826.2	4826.2	4831.4	4831.4	4826.2	4823.6
5°	4813.2	4818.4	4818.4	4813.2	4813.2	4826.2	4818.4	4823.6	4823.6	4821.0	4821.0
7.5°	4789.9	4789.9	4800.3	4792.6	4792.6	4800.3	4797.7	4802.9	4808.1	4810.7	4810.7
10°	4738.1	4743.4	4746.0	4746.0	4748.6	4756.3	4761.4	4771.9	4777.0	4782.2	4784.8
12.5°	4673.6	4681.3	4683.9	4681.3	4689.0	4699.3	4712.3	4725.2	4733.1	4743.4	4751.1
15°	4595.9	4595.9	4601.0	4608.8	4614.0	4629.5	4642.4	4658.0	4678.7	4691.6	4704.6
17.5°	4510.5	4515.7	4523.5	4523.5	4533.8	4559.7	4567.4	4590.7	4614.0	4626.9	4652.8
20°	4417.3	4422.5	4430.3	4435.5	4448.4	4469.1	4484.6	4505.3	4531.2	4554.5	4580.3
22.5°	4344.9	4334.6	4339.6	4344.9	4357.8	4375.9	4394.1	4419.9	4445.8	4469.1	4495.0
25°	4205.1	4207.7	4215.5	4220.6	4236.1	4251.7	4272.5	4303.4	4326.7	4352.6	4381.1
27.5°	4016.2	4018.8	4031.8	4031.8	4044.7	4070.6	4083.5	4109.4	4140.4	4166.3	4199.9
30°	3801.4	3806.6	3806.6	3817.0	3824.7	3837.6	3850.6	3876.5	3892.0	3915.3	3962.0
32.5°	3604.8	3610.0	3607.3	3604.8	3597.0	3594.4	3591.8	3597.0	3602.2	3610.0	3628.0
35°	3488.3	3475.3	3465.0	3447.0	3426.2	3400.3	3377.0	3346.0	3317.5	3294.2	3268.4
37.5°	3377.0	3374.4	3359.0	3333.1	3291.6	3245.1	3190.7	3123.4	3056.2	2983.7	2913.8
40°	3221.8	3214.0	3201.0	3164.8	3118.3	3061.3	2988.9	2906.1	2797.3	2686.1	2572.2
42.5°	2957.8	2960.3	2944.9	2916.4	2872.5	2818.1	2743.0	2652.5	2536.0	2404.0	2256.6
45°	2649.9	2649.9	2644.7	2621.3	2590.4	2546.4	2489.4	2414.4	2300.5	2165.9	2008.0
47.5°	2329.0	2331.6	2323.8	2318.7	2305.7	2277.2	2235.8	2178.9	2098.7	1969.3	1811.4
50°	2003.0	2003.0	2015.9	2013.3	2013.3	2003.0	1984.8	1951.2	1881.3	1777.8	1630.3
52.5°	1676.9	1682.1	1689.8	1700.1	1713.1	1733.7	1713.1	1697.5	1653.6	1573.3	1446.5
55°	1340.5	1345.6	1358.5	1376.7	1392.3	1412.9	1418.1	1418.1	1394.7	1340.5	1244.8
57.5°	1053.3	1045.4	1055.9	1071.3	1092.1	1112.7	1128.3	1146.3	1143.8	1107.5	1030.0
60°	791.9	794.5	802.2	817.8	833.2	851.4	872.1	887.6	895.3	877.3	828.1
62.5°	577.1	577.1	587.4	602.9	610.7	636.6	649.5	657.4	665.1	662.4	631.5
65°	403.7	408.8	414.0	421.8	429.6	445.0	452.9	468.4	473.5	476.2	452.9
67.5°	284.7	276.9	282.0	287.2	295.0	305.4	320.9	320.9	328.7	328.7	313.1
70°	181.2	181.2	183.7	191.5	196.6	199.3	204.5	209.6	217.4	214.8	214.8
72.5°	121.6	119.1	121.6	124.2	126.8	134.5	134.5	137.1	142.4	144.9	134.5
75°	62.1	64.7	69.8	67.3	75.0	69.8	72.4	80.3	77.6	72.4	72.4
77.5°	51.7	51.7	51.7	49.2	54.4	54.4	51.7	56.9	54.4	54.4	51.7
80°	36.2	38.8	36.2	33.6	36.2	33.6	33.6	33.6	33.6	33.6	31.1
82.5°	28.5	23.3	25.9	23.3	25.9	25.9	23.3	20.7	20.7	23.3	20.7
85°	20.7	15.5	18.2	18.2	15.5	15.5	15.5	15.5	15.5	12.9	12.9
87.5°	12.9	7.7	7.7	7.7	10.3	10.3	10.3	7.7	10.3	10.3	5.2
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°	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0
2.5°	4828.8	4826.2	4831.4	4828.8	4828.8	4826.2	4828.8	4826.2	4831.4	4821.0	4823.6
5°	4828.8	4823.6	4826.2	4828.8	4831.4	4826.2	4826.2	4826.2	4831.4	4826.2	4828.8
7.5°	4818.4	4815.8	4823.6	4828.8	4826.2	4823.6	4828.8	4826.2	4831.4	4828.8	4834.0
10°	4797.7	4800.3	4805.5	4813.2	4815.8	4818.4	4823.6	4823.6	4831.4	4821.0	4826.2
12.5°	4766.7	4777.0	4789.9	4795.1	4805.5	4805.5	4810.7	4813.2	4818.4	4815.8	4823.6
15°	4727.8	4740.8	4756.3	4769.3	4782.2	4789.9	4797.7	4800.3	4808.1	4800.3	4802.9
17.5°	4681.3	4696.8	4720.1	4735.6	4756.3	4764.0	4774.5	4779.6	4787.3	4782.2	4784.8
20°	4616.5	4634.8	4660.6	4683.9	4696.8	4714.9	4727.8	4735.6	4740.8	4735.6	4738.1
22.5°	4526.0	4551.9	4585.6	4603.6	4629.5	4645.1	4647.7	4665.7	4678.7	4665.7	4671.0
25°	4419.9	4445.8	4471.7	4510.5	4533.8	4551.9	4570.0	4572.6	4585.6	4582.9	4580.3
27.5°	4243.9	4277.6	4321.6	4352.6	4383.7	4412.1	4432.9	4438.0	4450.9	4445.8	4448.4
30°	4003.2	4039.5	4080.9	4130.1	4174.0	4202.5	4228.4	4246.5	4259.5	4251.7	4249.2
32.5°	3661.7	3698.0	3741.9	3791.1	3842.9	3884.2	3915.3	3938.6	3954.1	3948.9	3936.1
35°	3271.0	3281.3	3309.8	3348.7	3392.6	3436.5	3465.0	3490.9	3509.0	3514.2	3514.2
37.5°	2869.9	2836.2	2815.5	2815.5	2841.4	2859.4	2885.3	2900.9	2929.4	2939.7	2947.4
40°	2481.7	2404.0	2331.6	2277.2	2241.0	2238.4	2238.4	2246.1	2272.0	2305.7	2336.7
42.5°	2134.9	2010.6	1899.4	1798.5	1726.1	1684.6	1666.6	1669.2	1689.8	1720.8	1772.6
45°	1858.1	1702.8	1563.0	1441.4	1343.1	1278.4	1247.3	1244.8	1260.2	1296.4	1353.4
47.5°	1643.3	1477.6	1319.8	1180.0	1073.9	1004.1	967.9	957.4	967.9	1001.5	1068.8
50°	1464.7	1293.9	1130.9	985.9	872.1	799.6	766.0	753.1	766.0	794.5	861.7
52.5°	1299.0	1123.1	970.4	830.7	709.0	646.9	610.7	602.9	610.7	644.4	698.7
55°	1107.5	957.4	807.3	667.7	561.6	499.4	470.9	463.2	470.9	502.1	558.9
57.5°	918.7	789.3	657.4	530.5	439.9	385.5	359.7	349.3	367.5	388.1	455.5
60°	742.7	639.2	527.9	416.7	341.6	292.4	271.7	269.2	274.3	300.2	346.7
62.5°	582.2	496.8	408.8	318.3	256.1	235.5	209.6	207.0	212.2	227.7	264.0
65°	419.3	364.9	297.6	232.8	183.7	155.3	144.9	147.5	152.7	163.0	196.6
67.5°	292.4	253.6	207.0	163.0	126.8	113.9	103.6	100.9	103.6	121.6	139.8
70°	196.6	173.4	139.8	124.2	88.0	69.8	72.4	64.7	75.0	75.0	90.6
72.5°	129.4	113.9	93.2	72.4	62.1	49.2	49.2	46.6	51.7	54.4	67.3
75°	67.3	51.7	51.7	36.2	25.9	12.9	23.3	20.7	18.2	20.7	25.9
77.5°	46.6	38.8	36.2	28.5	25.9	20.7	20.7	20.7	20.7	23.3	25.9
80°	28.5	28.5	20.7	18.2	15.5	12.9	15.5	15.5	15.5	15.5	18.2
82.5°	18.2	15.5	15.5	12.9	12.9	10.3	10.3	10.3	10.3	10.3	15.5
85°	15.5	10.3	10.3	7.7	10.3	18.2	7.7	10.3	10.3	10.3	7.7
87.5°	5.2	7.7	7.7	7.7	5.2	2.6	5.2	7.7	7.7	12.9	10.3
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°	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0
2.5°	4828.8	4831.4	4831.4	4828.8	4828.8	4823.6	4834.0	4826.2	4828.8	4839.1	4831.4
5°	4834.0	4836.6	4836.6	4834.0	4834.0	4834.0	4836.6	4836.6	4834.0	4831.4	4836.6
7.5°	4844.3	4841.7	4841.7	4836.6	4836.6	4831.4	4836.6	4828.8	4834.0	4828.8	4836.6
10°	4831.4	4834.0	4831.4	4828.8	4828.8	4826.2	4826.2	4818.4	4821.0	4813.2	4818.4
12.5°	4823.6	4821.0	4821.0	4815.8	4810.7	4805.5	4802.9	4795.1	4795.1	4777.0	4784.8
15°	4802.9	4805.5	4797.7	4787.3	4782.2	4769.3	4764.0	4753.7	4743.4	4730.5	4733.1
17.5°	4784.8	4777.0	4766.7	4756.3	4735.6	4725.2	4714.9	4699.3	4694.2	4678.7	4673.6
20°	4730.5	4725.2	4712.3	4694.2	4681.3	4658.0	4647.7	4632.1	4619.2	4603.6	4595.9
22.5°	4660.6	4655.4	4639.8	4621.8	4601.0	4590.7	4580.3	4551.9	4538.9	4523.5	4520.8
25°	4572.6	4564.8	4549.4	4528.6	4518.2	4489.8	4479.4	4458.7	4453.6	4438.0	4435.5
27.5°	4438.0	4427.6	4409.6	4383.7	4365.5	4347.5	4337.1	4321.6	4316.4	4300.8	4298.4
30°	4236.1	4223.3	4187.0	4176.6	4145.6	4127.5	4127.5	4106.8	4109.4	4099.0	4099.0
32.5°	3917.9	3897.2	3868.7	3847.9	3827.3	3817.0	3817.0	3809.2	3814.3	3814.3	3819.6
35°	3496.1	3467.6	3452.0	3439.1	3439.1	3449.4	3480.6	3488.3	3503.8	3516.8	3527.1
37.5°	2955.2	2952.7	2970.8	2986.3	3025.1	3069.1	3123.4	3170.1	3214.0	3245.1	3276.1
40°	2370.4	2435.1	2486.8	2559.4	2618.8	2704.2	2802.5	2882.8	2957.8	3012.2	3069.1
42.5°	1850.2	1933.1	2041.8	2147.8	2254.0	2370.4	2499.8	2611.0	2709.3	2784.5	2844.0
45°	1441.4	1555.3	1687.2	1821.8	1958.9	2103.9	2238.4	2352.3	2455.8	2533.5	2593.0
47.5°	1161.9	1286.1	1436.2	1583.7	1739.0	1891.7	2041.8	2140.1	2225.4	2287.6	2342.0
50°	960.0	1092.1	1249.9	1418.1	1573.3	1726.1	1855.4	1951.2	2021.1	2075.4	2109.0
52.5°	802.2	942.0	1110.1	1278.4	1433.6	1573.3	1689.8	1762.3	1819.2	1858.1	1889.0
55°	662.4	797.0	954.9	1112.7	1265.4	1397.3	1493.1	1547.5	1591.5	1614.8	1632.8
57.5°	540.9	665.1	809.9	954.9	1086.8	1195.5	1270.7	1324.9	1345.6	1363.8	1361.1
60°	424.4	540.9	672.8	797.0	910.9	998.8	1053.3	1084.2	1099.8	1107.5	1102.4
62.5°	333.8	439.9	540.9	649.5	732.3	807.3	859.1	859.1	866.9	869.4	877.3
65°	248.4	328.7	416.7	496.8	564.1	613.3	641.8	649.5	659.9	657.4	652.1
67.5°	183.7	243.3	307.9	367.5	414.0	445.0	465.8	483.9	481.4	476.2	473.5
70°	126.8	165.7	222.5	258.7	292.4	323.5	328.7	331.3	333.8	336.4	331.3
72.5°	88.0	116.5	147.5	178.6	199.3	212.2	225.2	227.7	227.7	227.7	225.2
75°	44.1	59.5	88.0	100.9	119.1	124.2	134.5	134.5	142.4	131.9	129.4
77.5°	38.8	46.6	62.1	72.4	80.3	88.0	90.6	98.3	95.7	90.6	93.2
80°	23.3	28.5	38.8	44.1	54.4	56.9	59.5	62.1	59.5	62.1	62.1
82.5°	18.2	20.7	25.9	25.9	33.6	33.6	36.2	36.2	38.8	38.8	38.8
85°	10.3	18.2	15.5	31.1	20.7	20.7	25.9	31.1	25.9	25.9	31.1
87.5°	10.3	10.3	7.7	10.3	10.3	10.3	12.9	15.5	15.5	18.2	15.5
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: P249510

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4821.0	4821.0	4821.0	4821.0
2.5°	4828.8	4834.0	4826.2	4823.6
5°	4836.6	4836.6	4831.4	4831.4
7.5°	4836.6	4836.6	4828.8	4823.6
10°	4815.8	4815.8	4808.1	4802.9
12.5°	4777.0	4777.0	4774.5	4766.7
15°	4727.8	4727.8	4717.5	4709.8
17.5°	4660.6	4665.7	4652.8	4652.8
20°	4588.1	4585.6	4575.2	4570.0
22.5°	4513.0	4507.9	4505.3	4489.8
25°	4432.9	4427.6	4419.9	4412.1
27.5°	4295.7	4293.1	4285.4	4275.0
30°	4086.0	4083.5	4073.2	4073.2
32.5°	3814.3	3811.7	3801.4	3804.0
35°	3532.3	3542.7	3537.4	3527.1
37.5°	3296.7	3304.6	3309.8	3304.6
40°	3100.1	3123.4	3126.0	3131.2
42.5°	2890.5	2921.6	2932.0	2937.1
45°	2639.5	2668.0	2691.3	2686.1
47.5°	2383.4	2404.0	2424.7	2409.3
50°	2137.5	2150.4	2158.3	2158.3
52.5°	1904.6	1904.6	1902.0	1904.6
55°	1638.0	1638.0	1627.7	1632.8
57.5°	1358.5	1363.8	1356.0	1343.1
60°	1099.8	1086.8	1081.7	1073.9
62.5°	856.6	856.6	838.5	861.7
65°	641.8	634.0	626.2	623.6
67.5°	465.8	463.2	455.5	452.9
70°	328.7	318.3	315.7	310.5
72.5°	219.9	219.9	214.8	214.8
75°	134.5	121.6	119.1	121.6
77.5°	93.2	90.6	90.6	88.0
80°	62.1	59.5	64.7	56.9
82.5°	38.8	41.4	38.8	41.4
85°	25.9	31.1	28.5	28.5
87.5°	15.5	15.5	15.5	15.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)