

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: P248526

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248526
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: LSR8B80D010 EC8B80927 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE 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: 6700.5 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

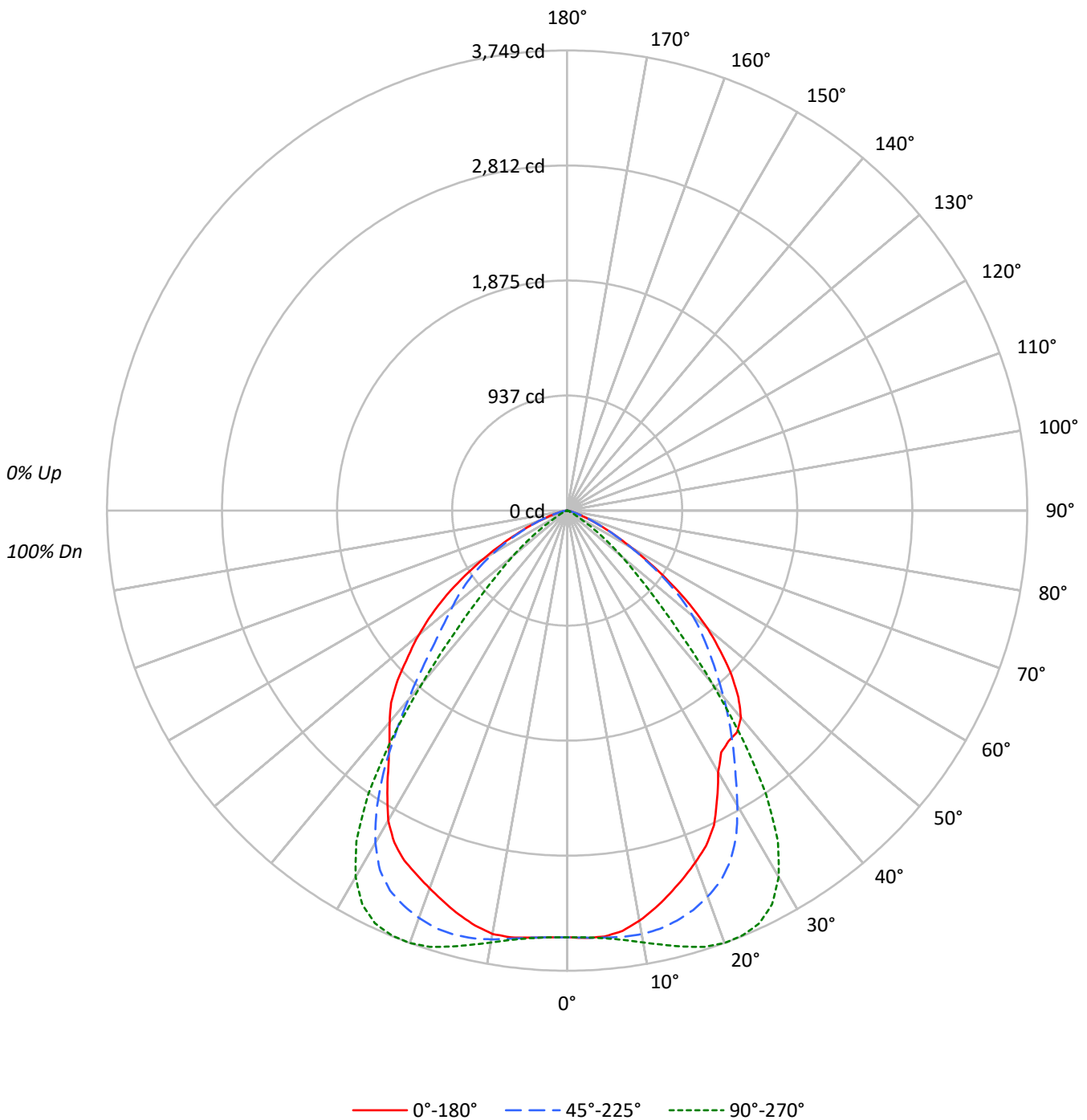
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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°	334.3	5.0
10°-20°	990.3	14.8
20°-30°	1510.7	22.5
30°-40°	1576.5	23.5
40°-50°	1184.2	17.7
50°-60°	728.6	10.9
60°-70°	296.5	4.4
70°-80°	69.9	1.0
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°	2835.3	42.3
0°-40°	4411.8	65.8
0°-60°	6324.5	94.4
0°-90°	6700.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6700.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3476	3476	3476	3476	3476	
5°	3483	3493	3496	3493	3493	330
15°	3231	3458	3677	3576	3408	910
25°	2830	3148	3708	3415	3144	1287
35°	2293	2358	2825	2611	2537	1448
45°	1893	1638	1022	1526	1952	1444
55°	1022	970	268	970	1197	919
65°	319	323	41	434	459	333
75°	55	55	7	98	102	67
85°	6	6	2	13	17	8
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°	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0
2.5°	3485.2	3479.7	3485.2	3485.2	3487.0	3483.3	3485.2	3487.0	3483.3	3483.3	3483.3
5°	3483.3	3479.7	3483.3	3481.5	3485.2	3485.2	3489.0	3489.0	3492.6	3492.6	3498.2
7.5°	3453.9	3446.6	3453.9	3459.4	3463.1	3470.5	3479.7	3487.0	3494.5	3501.9	3511.0
10°	3393.0	3393.0	3398.5	3409.5	3420.7	3433.5	3450.2	3468.6	3487.0	3503.7	3520.2
12.5°	3317.4	3311.8	3322.8	3337.6	3354.2	3374.6	3400.3	3428.0	3457.6	3490.8	3516.6
15°	3230.7	3225.0	3238.0	3252.7	3273.1	3302.6	3333.9	3370.8	3413.2	3457.6	3500.0
17.5°	3142.0	3140.2	3153.2	3173.4	3190.0	3221.3	3262.0	3306.3	3354.2	3413.2	3468.6
20°	3051.7	3049.9	3062.7	3079.4	3101.5	3131.0	3171.6	3223.2	3280.4	3346.9	3411.4
22.5°	2957.5	2959.4	2970.5	2988.9	3007.4	3038.7	3081.2	3132.8	3195.6	3267.5	3339.4
25°	2830.3	2821.0	2835.8	2854.2	2885.6	2911.4	2952.0	3007.4	3071.9	3147.6	3232.5
27.5°	2645.8	2643.9	2656.8	2673.5	2701.1	2732.4	2776.7	2834.0	2902.2	2985.2	3068.2
30°	2461.3	2464.9	2470.5	2487.2	2505.5	2536.9	2581.2	2629.1	2693.7	2773.0	2861.7
32.5°	2335.7	2335.7	2343.2	2354.3	2367.1	2383.8	2415.2	2450.1	2500.0	2555.3	2619.9
35°	2293.3	2286.0	2293.3	2295.2	2297.0	2300.7	2306.2	2317.4	2333.9	2357.9	2382.0
37.5°	2274.9	2269.4	2269.4	2262.0	2252.7	2241.7	2226.9	2210.3	2192.0	2167.9	2149.4
40°	2203.0	2199.3	2195.5	2188.2	2167.9	2145.7	2121.8	2083.0	2040.5	1981.6	1922.5
42.5°	2064.6	2060.9	2059.1	2044.2	2025.8	2000.0	1972.4	1931.7	1878.2	1802.6	1717.6
45°	1893.0	1885.6	1880.1	1867.2	1854.2	1832.1	1806.3	1769.4	1715.8	1638.3	1536.9
47.5°	1693.7	1690.0	1688.2	1682.7	1669.7	1656.8	1640.2	1610.7	1562.7	1488.9	1383.8
50°	1492.6	1485.2	1488.9	1487.1	1481.5	1472.3	1461.3	1441.0	1404.0	1337.6	1241.7
52.5°	1261.9	1261.9	1260.1	1265.6	1267.5	1265.6	1267.5	1245.4	1214.0	1164.1	1083.0
55°	1022.1	1022.1	1027.7	1035.1	1042.4	1044.2	1042.4	1033.2	1011.0	970.4	898.5
57.5°	797.1	793.4	804.4	815.5	822.9	830.2	824.7	817.3	804.4	771.2	715.8
60°	607.1	607.1	614.4	621.8	629.1	636.5	634.7	632.8	621.8	599.6	555.4
62.5°	446.5	448.3	448.3	453.9	461.2	468.7	474.2	468.7	463.0	448.3	418.8
65°	319.2	317.4	319.2	324.7	330.3	337.6	341.3	339.5	333.9	322.9	300.7
67.5°	214.0	212.2	219.5	221.4	225.1	232.5	230.6	232.5	230.6	221.4	203.0
70°	140.2	136.5	140.2	138.4	143.9	145.8	149.4	151.3	149.4	143.9	138.4
72.5°	86.7	84.8	86.7	88.5	90.4	92.2	96.0	96.0	94.0	90.4	83.0
75°	55.4	49.8	51.6	48.0	51.6	51.6	55.4	57.2	55.4	55.4	51.6
77.5°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	35.1	36.9	33.2	31.4
80°	16.7	16.7	18.4	18.4	18.4	20.4	18.4	18.4	18.4	20.4	14.7
82.5°	12.9	11.0	11.0	11.0	12.9	11.0	11.0	11.0	11.0	11.0	11.0
85°	5.5	7.3	5.5	3.7	5.5	5.5	7.3	5.5	5.5	5.5	7.3
87.5°	1.8	1.8	0.0	0.0	0.0	1.8	0.0	1.8	1.8	3.7	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°	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0
2.5°	3485.2	3481.5	3481.5	3479.7	3483.3	3479.7	3481.5	3479.7	3479.7	3483.3	3479.7
5°	3498.2	3500.0	3496.3	3494.5	3500.0	3500.0	3500.0	3496.3	3496.3	3498.2	3496.3
7.5°	3516.6	3520.2	3522.2	3524.0	3527.7	3529.6	3529.6	3527.7	3525.9	3531.4	3524.0
10°	3536.9	3542.4	3553.5	3559.0	3568.3	3568.3	3572.0	3572.0	3568.3	3572.0	3570.1
12.5°	3529.6	3562.6	3581.2	3594.0	3607.0	3618.0	3621.7	3623.6	3621.7	3629.1	3621.7
15°	3542.4	3570.1	3599.7	3621.7	3645.7	3658.6	3662.3	3677.1	3680.8	3682.7	3671.6
17.5°	3522.2	3572.0	3603.3	3636.6	3671.6	3695.5	3717.7	3726.9	3728.8	3732.4	3717.7
20°	3476.0	3531.4	3579.3	3627.3	3667.8	3704.7	3723.2	3749.1	3741.8	3756.5	3736.1
22.5°	3413.2	3476.0	3536.9	3599.7	3642.1	3686.4	3725.1	3743.6	3752.8	3752.8	3730.6
25°	3313.7	3387.5	3453.9	3518.4	3583.0	3636.6	3680.8	3708.4	3714.1	3712.2	3686.4
27.5°	3158.7	3238.0	3315.5	3389.3	3468.6	3531.4	3583.0	3616.2	3625.4	3625.4	3597.8
30°	2944.7	3029.5	3105.1	3193.6	3274.9	3345.0	3417.0	3446.6	3463.1	3463.1	3431.7
32.5°	2690.0	2762.0	2832.1	2918.8	3007.4	3086.7	3155.0	3195.6	3215.8	3214.0	3186.3
35°	2413.2	2448.3	2501.9	2566.5	2645.8	2719.6	2786.0	2824.8	2859.8	2858.0	2832.1
37.5°	2136.5	2127.3	2132.9	2156.8	2206.6	2258.3	2310.0	2346.9	2376.3	2389.3	2383.8
40°	1865.4	1817.3	1771.2	1754.7	1758.3	1776.7	1804.4	1832.1	1865.4	1881.9	1889.3
42.5°	1621.8	1540.6	1459.4	1398.5	1363.5	1352.4	1365.3	1374.5	1394.8	1418.9	1442.8
45°	1426.2	1317.4	1210.3	1116.2	1057.2	1022.1	1014.8	1022.1	1033.2	1057.2	1088.6
47.5°	1265.6	1138.4	1018.5	913.3	826.5	780.4	767.6	763.9	774.9	797.1	839.5
50°	1123.6	996.3	863.4	741.7	651.3	599.6	581.2	573.8	586.7	603.3	642.0
52.5°	968.6	843.2	706.6	588.6	494.4	441.0	420.6	409.6	416.9	439.1	477.9
55°	800.8	684.4	560.9	439.1	348.8	298.9	274.8	267.5	274.8	298.9	337.6
57.5°	632.8	535.1	431.7	317.4	236.1	186.3	162.3	155.0	175.3	184.5	225.1
60°	494.4	415.1	326.6	232.5	162.3	123.6	99.7	94.0	103.4	119.9	153.1
62.5°	370.9	321.1	250.9	166.0	119.9	79.3	66.4	60.9	66.4	79.3	105.2
65°	269.3	230.6	175.3	121.7	81.2	59.1	44.3	40.6	46.1	55.4	77.5
67.5°	184.5	155.0	121.7	84.8	55.4	36.9	31.4	31.4	33.2	40.6	57.2
70°	119.9	101.5	77.5	55.4	36.9	27.7	24.0	20.4	24.0	29.5	38.7
72.5°	75.7	64.6	49.8	38.7	27.7	20.4	16.7	14.7	18.4	22.2	29.5
75°	46.1	35.1	25.9	20.4	14.7	14.7	14.7	7.3	9.2	14.7	18.4
77.5°	27.7	24.0	20.4	16.7	12.9	7.3	7.3	7.3	9.2	11.0	16.7
80°	14.7	12.9	9.2	9.2	7.3	5.5	7.3	5.5	3.7	9.2	11.0
82.5°	9.2	7.3	7.3	7.3	9.2	3.7	5.5	3.7	5.5	7.3	5.5
85°	5.5	5.5	5.5	3.7	9.2	3.7	3.7	1.8	1.8	3.7	3.7
87.5°	0.0	1.8	1.8	0.0	1.8	0.0	1.8	1.8	1.8	1.8	1.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0
2.5°	3481.5	3479.7	3481.5	3479.7	3479.7	3479.7	3481.5	3481.5	3479.7	3479.7	3483.3
5°	3496.3	3496.3	3496.3	3494.5	3492.6	3492.6	3496.3	3496.3	3490.8	3496.3	3496.3
7.5°	3527.7	3522.2	3527.7	3520.2	3516.6	3518.4	3520.2	3516.6	3512.9	3514.7	3514.7
10°	3568.3	3562.6	3562.6	3557.2	3551.6	3547.9	3544.3	3535.1	3525.9	3524.0	3516.6
12.5°	3616.2	3607.0	3601.5	3590.3	3581.2	3568.3	3557.2	3542.4	3524.0	3511.0	3498.2
15°	3664.2	3649.4	3636.6	3618.0	3597.8	3575.6	3551.6	3527.7	3498.2	3472.3	3450.2
17.5°	3702.9	3682.7	3658.6	3629.1	3599.7	3566.4	3531.4	3496.3	3453.9	3420.7	3394.8
20°	3715.9	3686.4	3655.0	3616.2	3577.5	3531.4	3487.0	3440.9	3393.0	3357.9	3328.4
22.5°	3699.2	3664.2	3625.4	3584.9	3533.2	3483.3	3431.7	3378.2	3335.7	3287.8	3260.1
25°	3653.1	3610.7	3568.3	3520.2	3470.5	3415.2	3359.8	3304.5	3252.7	3227.0	3191.8
27.5°	3559.0	3512.9	3466.8	3417.0	3359.8	3304.5	3247.2	3193.6	3149.4	3114.3	3094.1
30°	3393.0	3339.4	3286.0	3232.5	3182.6	3125.5	3071.9	3027.6	2983.4	2955.7	2935.5
32.5°	3138.3	3090.4	3036.9	2985.2	2939.2	2891.1	2846.8	2808.1	2776.7	2758.3	2743.5
35°	2795.2	2747.2	2706.6	2669.7	2630.9	2610.7	2583.0	2560.8	2547.9	2540.6	2538.8
37.5°	2363.4	2335.7	2322.9	2315.5	2308.0	2302.5	2306.2	2315.5	2322.9	2335.7	2350.6
40°	1902.2	1926.2	1933.5	1959.4	1983.4	2014.8	2049.9	2090.4	2123.5	2166.1	2195.5
42.5°	1481.5	1525.8	1577.5	1632.8	1691.9	1749.0	1819.2	1883.7	1942.8	1996.3	2042.4
45°	1138.4	1206.7	1284.2	1363.5	1442.8	1525.8	1610.7	1690.0	1760.2	1817.3	1865.4
47.5°	887.4	963.1	1062.8	1160.6	1256.5	1354.3	1448.3	1531.4	1590.4	1645.8	1688.2
50°	702.9	789.6	898.5	1011.0	1116.2	1219.5	1319.2	1396.7	1455.8	1500.0	1531.4
52.5°	544.3	647.6	758.2	876.4	989.0	1101.5	1193.7	1265.6	1313.7	1352.4	1376.3
55°	405.9	507.4	625.5	747.2	861.6	970.4	1057.2	1119.9	1162.4	1184.5	1197.4
57.5°	293.4	385.7	503.7	625.5	728.8	832.0	902.2	959.4	983.4	996.3	1001.8
60°	214.0	298.9	404.0	509.2	607.1	690.1	750.9	789.6	808.1	815.5	813.6
62.5°	156.8	230.6	321.1	409.6	488.9	557.2	605.1	631.0	640.2	643.9	638.4
65°	119.9	177.1	254.6	322.9	383.7	433.6	468.7	485.2	490.7	488.9	485.2
67.5°	88.5	132.9	190.0	241.6	286.0	324.7	343.2	358.0	361.6	356.1	350.6
70°	62.8	97.8	138.4	173.5	206.7	228.8	249.1	250.9	250.9	249.1	245.4
72.5°	44.3	68.3	94.0	118.1	138.4	155.0	162.3	167.8	166.0	164.1	160.5
75°	29.5	42.4	68.3	73.8	92.2	97.8	105.2	105.2	107.0	101.5	101.5
77.5°	18.4	29.5	40.6	48.0	55.4	62.8	66.4	66.4	68.3	66.4	66.4
80°	11.0	18.4	22.2	33.2	33.2	38.7	40.6	42.4	38.7	44.3	38.7
82.5°	7.3	11.0	16.7	16.7	20.4	24.0	24.0	25.9	25.9	24.0	24.0
85°	5.5	7.3	9.2	11.0	11.0	12.9	11.0	11.0	12.9	14.7	12.9
87.5°	1.8	3.7	1.8	3.7	3.7	7.3	5.5	5.5	5.5	7.3	7.3
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: P248526

CATALOG NUMBER: LSR8B80D010 EC8B80927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3476.0	3476.0	3476.0	3476.0
2.5°	3479.7	3481.5	3479.7	3479.7
5°	3496.3	3494.5	3496.3	3492.6
7.5°	3509.2	3509.2	3507.4	3507.4
10°	3509.2	3501.9	3501.9	3501.9
12.5°	3481.5	3472.3	3466.8	3463.1
15°	3433.5	3417.0	3409.5	3407.7
17.5°	3370.8	3356.1	3346.9	3341.4
20°	3298.8	3284.1	3273.1	3274.9
22.5°	3236.2	3219.5	3212.2	3208.5
25°	3173.4	3153.2	3147.6	3143.9
27.5°	3071.9	3060.9	3055.3	3049.9
30°	2917.0	2911.4	2902.2	2915.1
32.5°	2738.0	2728.8	2721.4	2727.0
35°	2540.6	2535.1	2540.6	2536.9
37.5°	2359.8	2365.3	2372.7	2376.3
40°	2217.7	2238.0	2245.4	2249.1
42.5°	2075.6	2099.6	2114.4	2123.5
45°	1900.4	1924.3	1941.0	1952.0
47.5°	1719.6	1739.8	1756.5	1754.7
50°	1555.3	1566.4	1573.8	1581.2
52.5°	1389.3	1389.3	1391.2	1391.2
55°	1201.2	1197.4	1195.5	1197.4
57.5°	994.4	990.8	989.0	983.4
60°	806.3	795.3	787.8	787.8
62.5°	631.0	618.1	612.6	610.8
65°	474.2	472.3	461.2	459.3
67.5°	343.2	335.8	328.4	330.3
70°	241.6	230.6	230.6	226.9
72.5°	156.8	151.3	149.4	149.4
75°	97.8	97.8	94.0	101.5
77.5°	64.6	64.6	62.8	64.6
80°	38.7	38.7	38.7	36.9
82.5°	24.0	25.9	24.0	24.0
85°	12.9	14.7	11.0	16.7
87.5°	7.3	9.2	7.3	9.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)