

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: P249507

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249507
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: LSR8B80D010 EC8B80930 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: 6202.5 lumens
Efficiency: N/A
Efficacy: 83.4 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

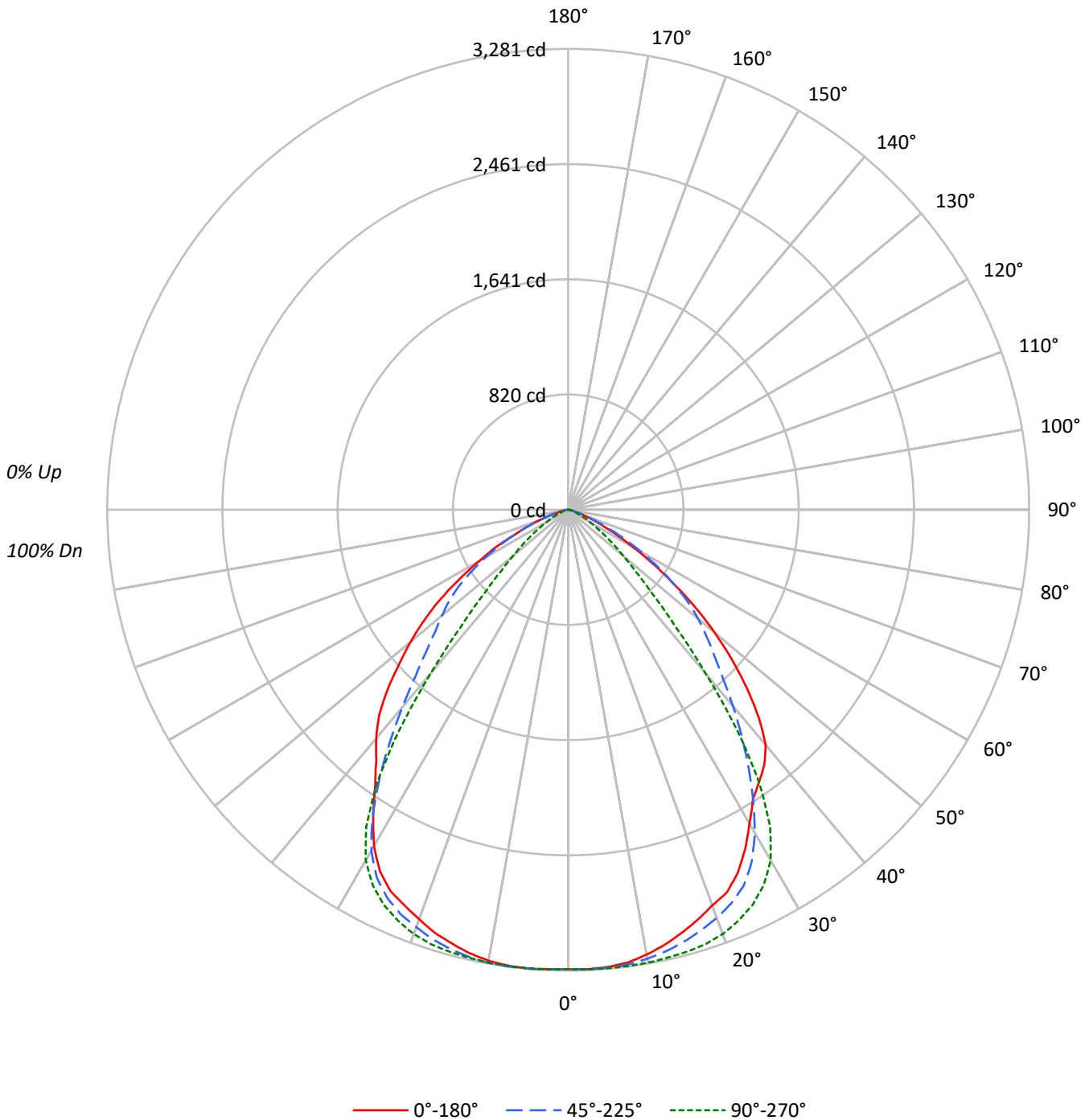
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	312.3	5.0
10°-20°	907.0	14.6
20°-30°	1376.7	22.2
30°-40°	1445.9	23.3
40°-50°	1084.1	17.5
50°-60°	695.6	11.2
60°-70°	297.5	4.8
70°-80°	70.3	1.1
80°-90°	13.1	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°	2596.0	41.9
0°-40°	4041.9	65.2
0°-60°	5821.6	93.9
0°-90°	6202.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6202.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3272	3272	3272	3272	3272	
5°	3267	3272	3276	3281	3280	310
15°	3120	3185	3258	3237	3197	880
25°	2854	2955	3104	3048	2995	1304
35°	2368	2236	2370	2342	2394	1486
45°	1799	1470	845	1428	1823	1378
55°	910	910	314	949	1108	825
65°	274	323	100	416	423	293
75°	42	49	14	84	83	61
85°	14	9	7	14	19	15
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°	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5
2.5°	3274.3	3277.8	3276.1	3276.1	3274.3	3276.1	3276.1	3279.6	3279.6	3276.1	3274.3
5°	3267.3	3270.7	3270.7	3267.3	3267.3	3276.1	3270.7	3274.3	3274.3	3272.5	3272.5
7.5°	3251.5	3251.5	3258.5	3253.3	3253.3	3258.5	3256.7	3260.3	3263.8	3265.6	3265.6
10°	3216.4	3219.8	3221.6	3221.6	3223.4	3228.6	3232.2	3239.2	3242.7	3246.2	3248.0
12.5°	3172.4	3177.7	3179.5	3177.7	3183.0	3190.0	3198.8	3207.5	3212.9	3219.8	3225.1
15°	3119.7	3119.7	3123.2	3128.5	3132.1	3142.6	3151.4	3161.9	3175.9	3184.8	3193.5
17.5°	3061.8	3065.3	3070.5	3070.5	3077.6	3095.1	3100.5	3116.3	3132.1	3140.8	3158.4
20°	2998.6	3002.0	3007.3	3010.9	3019.6	3033.7	3044.2	3058.2	3075.8	3091.6	3109.2
22.5°	2949.4	2942.3	2945.8	2949.4	2958.1	2970.4	2982.8	3000.2	3017.8	3033.7	3051.2
25°	2854.5	2856.2	2861.6	2865.1	2875.6	2886.1	2900.1	2921.2	2937.0	2954.6	2973.9
27.5°	2726.3	2728.1	2736.8	2736.8	2745.6	2763.2	2771.9	2789.5	2810.6	2828.2	2851.0
30°	2580.4	2583.9	2583.9	2591.0	2596.2	2605.1	2613.8	2631.4	2642.0	2657.8	2689.4
32.5°	2446.9	2450.5	2448.7	2446.9	2441.7	2440.0	2438.2	2441.7	2445.2	2450.5	2462.7
35°	2367.9	2359.1	2352.1	2339.9	2325.7	2308.1	2292.3	2271.3	2252.0	2236.2	2218.6
37.5°	2292.3	2290.7	2280.1	2262.5	2234.4	2202.8	2165.9	2120.3	2074.5	2025.4	1978.0
40°	2187.0	2181.7	2172.9	2148.3	2116.7	2078.1	2028.9	1972.6	1898.9	1823.3	1746.1
42.5°	2007.8	2009.5	1999.0	1979.7	1949.9	1912.9	1862.0	1800.6	1721.5	1631.8	1531.7
45°	1798.8	1798.8	1795.3	1779.5	1758.4	1728.5	1689.9	1638.9	1561.7	1470.3	1363.1
47.5°	1580.9	1582.7	1577.5	1573.9	1565.1	1545.9	1517.7	1479.0	1424.6	1336.8	1229.6
50°	1359.7	1359.7	1368.4	1366.6	1366.6	1359.7	1347.3	1324.5	1277.0	1206.8	1106.7
52.5°	1138.3	1141.9	1147.1	1154.1	1162.8	1176.9	1162.8	1152.3	1122.5	1068.0	982.0
55°	909.9	913.4	922.2	934.5	945.1	959.1	962.6	962.6	946.8	909.9	844.9
57.5°	715.0	709.7	716.8	727.2	741.3	755.3	765.9	778.2	776.4	751.9	699.2
60°	537.5	539.3	544.6	555.1	565.7	577.9	592.0	602.5	607.8	595.5	562.1
62.5°	391.7	391.7	398.7	409.3	414.5	432.1	440.9	446.2	451.4	449.6	428.6
65°	274.1	277.6	281.0	286.3	291.6	302.1	307.4	317.9	321.5	323.2	307.4
67.5°	193.3	188.0	191.5	194.9	200.2	207.3	217.8	217.8	223.1	223.1	212.5
70°	123.0	123.0	124.8	129.9	133.5	135.3	138.8	142.3	147.5	145.8	145.8
72.5°	82.6	80.8	82.6	84.3	86.1	91.4	91.4	93.0	96.6	98.4	91.4
75°	42.1	43.9	47.4	45.7	50.9	47.4	49.2	54.5	52.7	49.2	49.2
77.5°	35.1	35.1	35.1	33.4	36.9	36.9	35.1	38.7	36.9	36.9	35.1
80°	24.5	26.3	24.5	22.9	24.5	22.9	22.9	22.9	22.9	22.9	21.1
82.5°	19.4	15.8	17.6	15.8	17.6	17.6	15.8	14.0	14.0	15.8	14.0
85°	14.0	10.5	12.3	12.3	10.5	10.5	10.5	10.5	10.5	8.7	8.7
87.5°	8.7	5.3	5.3	5.3	7.1	7.1	7.1	5.3	7.1	7.1	3.5
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°	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5
2.5°	3277.8	3276.1	3279.6	3277.8	3277.8	3276.1	3277.8	3276.1	3279.6	3272.5	3274.3
5°	3277.8	3274.3	3276.1	3277.8	3279.6	3276.1	3276.1	3276.1	3279.6	3276.1	3277.8
7.5°	3270.7	3269.1	3274.3	3277.8	3276.1	3274.3	3277.8	3276.1	3279.6	3277.8	3281.3
10°	3256.7	3258.5	3262.0	3267.3	3269.1	3270.7	3274.3	3274.3	3279.6	3272.5	3276.1
12.5°	3235.7	3242.7	3251.5	3254.9	3262.0	3262.0	3265.6	3267.3	3270.7	3269.1	3274.3
15°	3209.3	3218.1	3228.6	3237.4	3246.2	3251.5	3256.7	3258.5	3263.8	3258.5	3260.3
17.5°	3177.7	3188.2	3204.0	3214.6	3228.6	3234.0	3240.9	3244.4	3249.8	3246.2	3248.0
20°	3133.8	3146.1	3163.7	3179.5	3188.2	3200.6	3209.3	3214.6	3218.1	3214.6	3216.4
22.5°	3072.3	3089.9	3112.7	3125.0	3142.6	3153.1	3154.8	3167.2	3175.9	3167.2	3170.6
25°	3000.2	3017.8	3035.4	3061.8	3077.6	3089.9	3102.1	3103.9	3112.7	3111.0	3109.2
27.5°	2880.9	2903.7	2933.5	2954.6	2975.7	2995.0	3009.1	3012.6	3021.3	3017.8	3019.6
30°	2717.4	2742.1	2770.2	2803.5	2833.4	2852.7	2870.3	2882.5	2891.4	2886.1	2884.3
32.5°	2485.6	2510.1	2540.1	2573.4	2608.6	2636.7	2657.8	2673.6	2684.1	2680.5	2671.8
35°	2220.4	2227.4	2246.7	2273.1	2302.9	2332.8	2352.1	2369.7	2381.9	2385.5	2385.5
37.5°	1948.1	1925.3	1911.2	1911.2	1928.8	1941.0	1958.6	1969.1	1988.5	1995.5	2000.8
40°	1684.5	1631.8	1582.7	1545.9	1521.2	1519.5	1519.5	1524.7	1542.3	1565.1	1586.2
42.5°	1449.2	1364.8	1289.4	1220.9	1171.7	1143.5	1131.3	1133.0	1147.1	1168.2	1203.3
45°	1261.2	1155.9	1061.0	978.4	911.7	867.8	846.7	844.9	855.4	880.1	918.8
47.5°	1115.5	1003.0	895.9	801.0	729.0	681.6	657.0	650.0	657.0	679.8	725.5
50°	994.2	878.3	767.7	669.2	592.0	542.8	519.9	511.2	519.9	539.3	584.9
52.5°	881.8	762.4	658.7	563.9	481.4	439.1	414.5	409.3	414.5	437.4	474.3
55°	751.9	650.0	548.1	453.2	381.3	339.0	319.7	314.4	319.7	340.8	379.5
57.5°	623.6	535.7	446.2	360.1	298.6	261.8	244.2	237.1	249.4	263.4	309.2
60°	504.1	433.9	358.4	282.8	231.9	198.5	184.4	182.7	186.2	203.8	235.4
62.5°	395.3	337.3	277.6	216.0	173.9	159.9	142.3	140.6	144.0	154.6	179.1
65°	284.6	247.7	202.0	158.1	124.8	105.4	98.4	100.1	103.6	110.6	133.5
67.5°	198.5	172.2	140.6	110.6	86.1	77.2	70.3	68.5	70.3	82.6	94.8
70°	133.5	117.7	94.8	84.3	59.7	47.4	49.2	43.9	50.9	50.9	61.4
72.5°	87.8	77.2	63.2	49.2	42.1	33.4	33.4	31.6	35.1	36.9	45.7
75°	45.7	35.1	35.1	24.5	17.6	8.7	15.8	14.0	12.3	14.0	17.6
77.5°	31.6	26.3	24.5	19.4	17.6	14.0	14.0	14.0	14.0	15.8	17.6
80°	19.4	19.4	14.0	12.3	10.5	8.7	10.5	10.5	10.5	10.5	12.3
82.5°	12.3	10.5	10.5	8.7	8.7	7.1	7.1	7.1	7.1	7.1	10.5
85°	10.5	7.1	7.1	5.3	7.1	12.3	5.3	7.1	7.1	7.1	5.3
87.5°	3.5	5.3	5.3	5.3	3.5	1.8	3.5	5.3	5.3	8.7	7.1
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°	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5
2.5°	3277.8	3279.6	3279.6	3277.8	3277.8	3274.3	3281.3	3276.1	3277.8	3284.9	3279.6
5°	3281.3	3283.1	3283.1	3281.3	3281.3	3281.3	3283.1	3283.1	3281.3	3279.6	3283.1
7.5°	3288.3	3286.7	3286.7	3283.1	3283.1	3279.6	3283.1	3277.8	3281.3	3277.8	3283.1
10°	3279.6	3281.3	3279.6	3277.8	3277.8	3276.1	3276.1	3270.7	3272.5	3267.3	3270.7
12.5°	3274.3	3272.5	3272.5	3269.1	3265.6	3262.0	3260.3	3254.9	3254.9	3242.7	3248.0
15°	3260.3	3262.0	3256.7	3249.8	3246.2	3237.4	3234.0	3226.9	3219.8	3211.1	3212.9
17.5°	3248.0	3242.7	3235.7	3228.6	3214.6	3207.5	3200.6	3190.0	3186.4	3175.9	3172.4
20°	3211.1	3207.5	3198.8	3186.4	3177.7	3161.9	3154.8	3144.3	3135.5	3125.0	3119.7
22.5°	3163.7	3160.1	3149.6	3137.3	3123.2	3116.3	3109.2	3089.9	3081.1	3070.5	3068.7
25°	3103.9	3098.7	3088.1	3074.1	3067.1	3047.8	3040.7	3026.6	3023.1	3012.6	3010.9
27.5°	3012.6	3005.5	2993.3	2975.7	2963.4	2951.1	2944.1	2933.5	2930.1	2919.4	2917.7
30°	2875.6	2866.7	2842.2	2835.2	2814.0	2801.8	2801.8	2787.7	2789.5	2782.4	2782.4
32.5°	2659.5	2645.4	2626.2	2612.0	2598.0	2591.0	2591.0	2585.7	2589.3	2589.3	2592.8
35°	2373.2	2353.9	2343.3	2334.5	2334.5	2341.5	2362.6	2367.9	2378.4	2387.3	2394.2
37.5°	2006.0	2004.3	2016.6	2027.1	2053.4	2083.4	2120.3	2151.9	2181.7	2202.8	2223.8
40°	1609.1	1653.0	1688.1	1737.3	1777.7	1835.6	1902.4	1956.8	2007.8	2044.7	2083.4
42.5°	1256.0	1312.1	1386.0	1458.0	1530.1	1609.1	1696.9	1772.4	1839.2	1890.1	1930.5
45°	978.4	1055.8	1145.3	1236.7	1329.7	1428.2	1519.5	1596.8	1667.0	1719.7	1760.1
47.5°	788.7	873.0	974.9	1075.0	1180.4	1284.1	1386.0	1452.7	1510.7	1552.8	1589.8
50°	651.6	741.3	848.5	962.6	1068.0	1171.7	1259.4	1324.5	1371.9	1408.8	1431.6
52.5°	544.6	639.4	753.5	867.8	973.1	1068.0	1147.1	1196.2	1234.9	1261.2	1282.3
55°	449.6	541.0	648.2	755.3	859.0	948.6	1013.5	1050.5	1080.3	1096.1	1108.4
57.5°	367.1	451.4	549.9	648.2	737.7	811.6	862.5	899.4	913.4	925.7	923.9
60°	288.1	367.1	456.7	541.0	618.3	678.0	715.0	736.0	746.6	751.9	748.3
62.5°	226.6	298.6	367.1	440.9	497.2	548.1	583.3	583.3	588.4	590.2	595.5
65°	168.6	223.1	282.8	337.3	382.9	416.3	435.6	440.9	448.0	446.2	442.7
67.5°	124.8	165.1	209.1	249.4	281.0	302.1	316.1	328.5	326.8	323.2	321.5
70°	86.1	112.4	151.1	175.7	198.5	219.6	223.1	224.9	226.6	228.3	224.9
72.5°	59.7	79.0	100.1	121.2	135.3	144.0	152.8	154.6	154.6	154.6	152.8
75°	29.8	40.4	59.7	68.5	80.8	84.3	91.4	91.4	96.6	89.6	87.8
77.5°	26.3	31.6	42.1	49.2	54.5	59.7	61.4	66.7	65.0	61.4	63.2
80°	15.8	19.4	26.3	29.8	36.9	38.7	40.4	42.1	40.4	42.1	42.1
82.5°	12.3	14.0	17.6	17.6	22.9	22.9	24.5	24.5	26.3	26.3	26.3
85°	7.1	12.3	10.5	21.1	14.0	14.0	17.6	21.1	17.6	17.6	21.1
87.5°	7.1	7.1	5.3	7.1	7.1	7.1	8.7	10.5	10.5	12.3	10.5
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: P249507

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3272.5	3272.5	3272.5	3272.5
2.5°	3277.8	3281.3	3276.1	3274.3
5°	3283.1	3283.1	3279.6	3279.6
7.5°	3283.1	3283.1	3277.8	3274.3
10°	3269.1	3269.1	3263.8	3260.3
12.5°	3242.7	3242.7	3240.9	3235.7
15°	3209.3	3209.3	3202.2	3197.1
17.5°	3163.7	3167.2	3158.4	3158.4
20°	3114.5	3112.7	3105.7	3102.1
22.5°	3063.6	3060.0	3058.2	3047.8
25°	3009.1	3005.5	3000.2	2995.0
27.5°	2915.9	2914.3	2908.9	2901.9
30°	2773.7	2771.9	2764.9	2764.9
32.5°	2589.3	2587.5	2580.4	2582.2
35°	2397.7	2404.8	2401.3	2394.2
37.5°	2238.0	2243.2	2246.7	2243.2
40°	2104.5	2120.3	2121.9	2125.5
42.5°	1962.1	1983.2	1990.2	1993.7
45°	1791.7	1811.1	1826.9	1823.3
47.5°	1617.8	1631.8	1646.0	1635.4
50°	1450.9	1459.8	1465.0	1465.0
52.5°	1292.8	1292.8	1291.2	1292.8
55°	1111.9	1111.9	1105.0	1108.4
57.5°	922.2	925.7	920.5	911.7
60°	746.6	737.7	734.3	729.0
62.5°	581.5	581.5	569.1	584.9
65°	435.6	430.4	425.1	423.3
67.5°	316.1	314.4	309.2	307.4
70°	223.1	216.0	214.3	210.7
72.5°	149.3	149.3	145.8	145.8
75°	91.4	82.6	80.8	82.6
77.5°	63.2	61.4	61.4	59.7
80°	42.1	40.4	43.9	38.7
82.5°	26.3	28.1	26.3	28.1
85°	17.6	21.1	19.4	19.4
87.5°	10.5	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)