

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: P248461

Luminaire Tested: **LSR8B60D010 EC8B60840 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248461
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: LSR8B60D010 EC8B60840 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: 6331.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

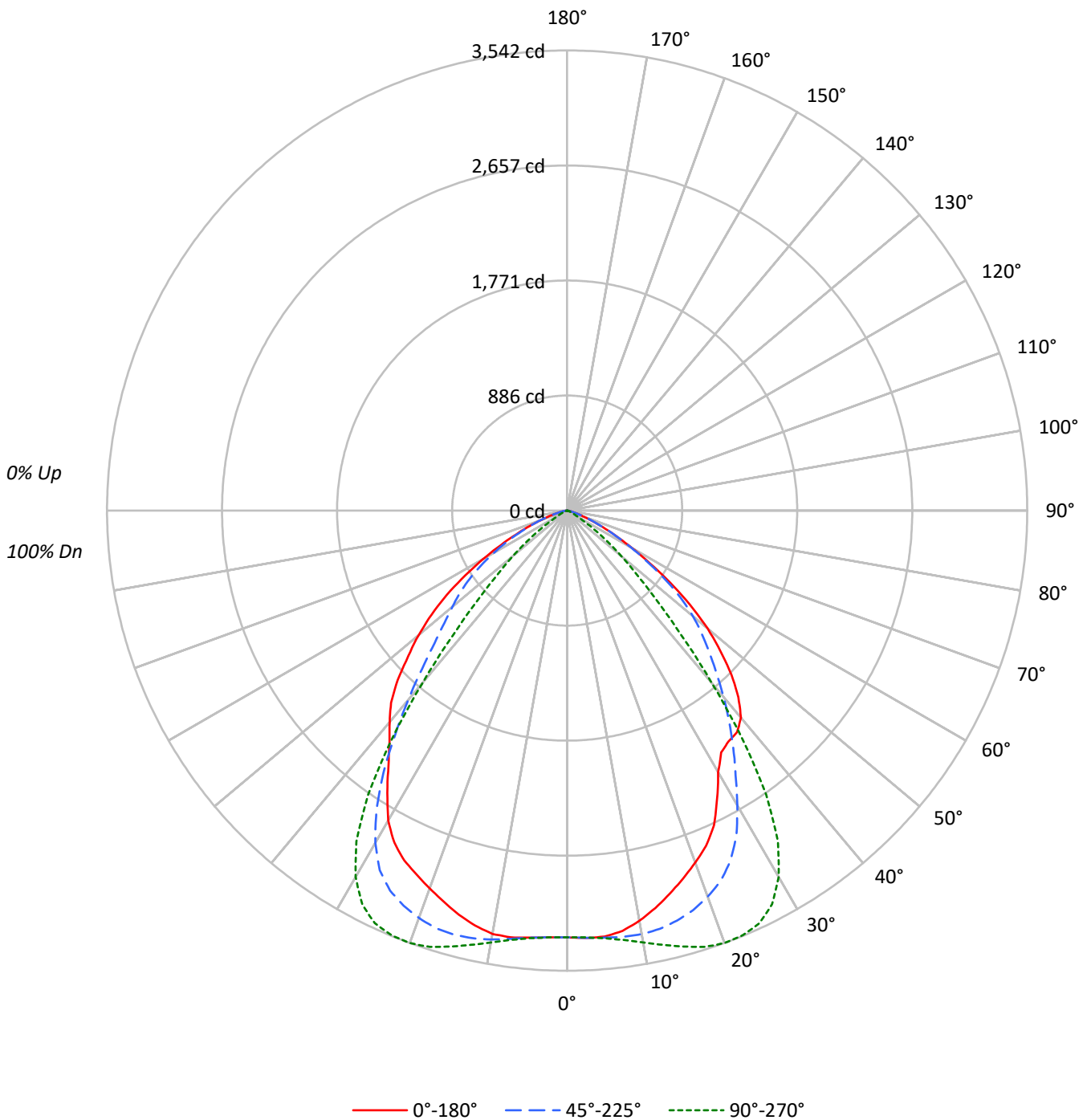
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	101276	101276	101276
5°	101879	102257	102149
10°	100383	105678	103602
15°	97448	110914	102789
20°	94620	116242	101540
25°	90987	119220	101069
30°	82803	115950	98075
35°	81571	100472	90233
40°	83789	69684	85540
45°	77999	42118	80433
50°	67656	26006	71671
55°	51923	13591	60826
60°	35369	5483	45909
65°	22006	2795	31674
70°	11946	1731	19330
75°	6231	834	11426
80°	2788	923	6180
85°	1840	601	5555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.8	5.0
10°-20°	935.7	14.8
20°-30°	1427.4	22.5
30°-40°	1489.6	23.5
40°-50°	1118.9	17.7
50°-60°	688.4	10.9
60°-70°	280.2	4.4
70°-80°	66.0	1.0
80°-90°	9.1	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°	2678.9	42.3
0°-40°	4168.5	65.8
0°-60°	5975.8	94.4
0°-90°	6331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6331.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3284	3284	3284	3284	3284	
5°	3291	3300	3304	3300	3300	311
15°	3052	3267	3474	3378	3220	860
25°	2674	2974	3504	3227	2970	1216
35°	2167	2228	2669	2467	2397	1368
45°	1789	1548	966	1442	1844	1365
55°	966	917	253	917	1131	868
65°	302	305	38	410	434	315
75°	52	52	7	92	96	63
85°	5	5	2	12	16	7
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°	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3
2.5°	3293.0	3287.8	3293.0	3293.0	3294.8	3291.3	3293.0	3294.8	3291.3	3291.3	3291.3
5°	3291.3	3287.8	3291.3	3289.5	3293.0	3293.0	3296.5	3296.5	3300.0	3300.0	3305.2
7.5°	3263.4	3256.4	3263.4	3268.6	3272.1	3279.1	3287.8	3294.8	3301.7	3308.7	3317.4
10°	3205.9	3205.9	3211.1	3221.6	3232.0	3244.2	3259.9	3277.3	3294.8	3310.4	3326.1
12.5°	3134.4	3129.2	3139.6	3153.6	3169.3	3188.5	3212.9	3239.0	3266.9	3298.2	3322.7
15°	3052.5	3047.2	3059.4	3073.4	3092.6	3120.5	3150.1	3185.0	3225.1	3266.9	3307.0
17.5°	2968.8	2967.0	2979.2	2998.4	3014.1	3043.7	3082.1	3123.9	3169.3	3225.1	3277.3
20°	2883.4	2881.6	2893.8	2909.5	2930.4	2958.3	2996.7	3045.5	3099.5	3162.3	3223.3
22.5°	2794.5	2796.2	2806.7	2824.1	2841.5	2871.1	2911.2	2960.1	3019.3	3087.3	3155.3
25°	2674.2	2665.5	2679.4	2696.9	2726.5	2750.9	2789.2	2841.5	2902.5	2974.0	3054.2
27.5°	2499.8	2498.1	2510.3	2526.0	2552.1	2581.8	2623.6	2677.7	2742.2	2820.6	2899.0
30°	2325.5	2329.0	2334.2	2349.9	2367.3	2397.0	2438.8	2484.2	2545.2	2620.1	2703.8
32.5°	2207.0	2207.0	2214.0	2224.4	2236.6	2252.3	2282.0	2315.1	2362.1	2414.4	2475.4
35°	2166.9	2159.9	2166.9	2168.6	2170.4	2173.9	2179.1	2189.6	2205.2	2227.9	2250.6
37.5°	2149.5	2144.2	2144.2	2137.3	2128.5	2118.1	2104.1	2088.4	2071.0	2048.3	2030.9
40°	2081.5	2078.0	2074.5	2067.5	2048.3	2027.4	2004.7	1968.1	1928.0	1872.3	1816.5
42.5°	1950.7	1947.2	1945.5	1931.5	1914.1	1889.7	1863.5	1825.2	1774.7	1703.2	1623.0
45°	1788.6	1781.6	1776.4	1764.2	1752.0	1731.1	1706.7	1671.8	1621.2	1548.0	1452.1
47.5°	1600.3	1596.8	1595.1	1589.9	1577.7	1565.4	1549.8	1521.9	1476.5	1406.8	1307.5
50°	1410.3	1403.3	1406.8	1405.1	1399.8	1391.1	1380.7	1361.5	1326.6	1263.9	1173.2
52.5°	1192.4	1192.4	1190.7	1195.9	1197.6	1195.9	1197.6	1176.7	1147.1	1100.0	1023.3
55°	965.8	965.8	971.0	978.0	984.9	986.7	984.9	976.2	955.3	917.0	849.0
57.5°	753.1	749.6	760.1	770.5	777.5	784.5	779.2	772.3	760.1	728.7	676.4
60°	573.5	573.5	580.5	587.5	594.4	601.4	599.7	597.9	587.5	566.5	524.7
62.5°	421.9	423.6	423.6	428.9	435.8	442.8	448.0	442.8	437.6	423.6	395.7
65°	301.6	299.8	301.6	306.8	312.1	319.0	322.5	320.8	315.5	305.1	284.2
67.5°	202.2	200.5	207.4	209.2	212.7	219.7	217.9	219.7	217.9	209.2	191.8
70°	132.5	129.0	132.5	130.7	136.0	137.7	141.2	142.9	141.2	136.0	130.7
72.5°	81.9	80.2	81.9	83.7	85.4	87.1	90.6	90.6	88.9	85.4	78.4
75°	52.3	47.0	48.8	45.3	48.8	48.8	52.3	54.0	52.3	52.3	48.8
77.5°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	33.1	34.8	31.4	29.6
80°	15.7	15.7	17.4	17.4	17.4	19.2	17.4	17.4	17.4	19.2	13.9
82.5°	12.2	10.5	10.5	10.5	12.2	10.5	10.5	10.5	10.5	10.5	10.5
85°	5.2	7.0	5.2	3.5	5.2	5.2	7.0	5.2	5.2	5.2	7.0
87.5°	1.7	1.7	0.0	0.0	0.0	1.7	0.0	1.7	1.7	3.5	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°	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3
2.5°	3293.0	3289.5	3289.5	3287.8	3291.3	3287.8	3289.5	3287.8	3287.8	3291.3	3287.8
5°	3305.2	3307.0	3303.5	3301.7	3307.0	3307.0	3307.0	3303.5	3303.5	3305.2	3303.5
7.5°	3322.7	3326.1	3327.9	3329.6	3333.1	3334.9	3334.9	3333.1	3331.4	3336.6	3329.6
10°	3341.8	3347.1	3357.5	3362.8	3371.5	3371.5	3375.0	3375.0	3371.5	3375.0	3373.2
12.5°	3334.9	3366.2	3383.7	3395.9	3408.1	3418.5	3422.0	3423.8	3422.0	3429.0	3422.0
15°	3347.1	3373.2	3401.1	3422.0	3444.7	3456.9	3460.4	3474.3	3477.8	3479.6	3469.1
17.5°	3327.9	3375.0	3404.6	3436.0	3469.1	3491.8	3512.7	3521.4	3523.2	3526.6	3512.7
20°	3284.3	3336.6	3381.9	3427.3	3465.6	3500.5	3517.9	3542.3	3535.4	3549.3	3530.1
22.5°	3225.1	3284.3	3341.8	3401.1	3441.2	3483.1	3519.7	3537.1	3545.8	3545.8	3524.9
25°	3130.9	3200.7	3263.4	3324.4	3385.4	3436.0	3477.8	3504.0	3509.2	3507.5	3483.1
27.5°	2984.5	3059.4	3132.7	3202.4	3277.3	3336.6	3385.4	3416.8	3425.5	3425.5	3399.4
30°	2782.3	2862.4	2933.9	3017.6	3094.3	3160.6	3228.5	3256.4	3272.1	3272.1	3242.5
32.5°	2541.7	2609.7	2675.9	2757.9	2841.5	2916.5	2981.0	3019.3	3038.5	3036.8	3010.6
35°	2280.2	2313.3	2363.9	2424.9	2499.8	2569.6	2632.3	2669.0	2702.1	2700.3	2675.9
37.5°	2018.7	2010.0	2015.2	2037.9	2084.9	2133.8	2182.6	2217.5	2245.3	2257.6	2252.3
40°	1762.5	1717.1	1673.5	1657.9	1661.3	1678.8	1704.9	1731.1	1762.5	1778.2	1785.1
42.5°	1532.3	1455.6	1378.9	1321.4	1288.3	1277.8	1290.0	1298.7	1317.9	1340.6	1363.2
45°	1347.6	1244.7	1143.6	1054.7	998.9	965.8	958.8	965.8	976.2	998.9	1028.5
47.5°	1195.9	1075.6	962.3	862.9	781.0	737.4	725.2	721.7	732.2	753.1	793.2
50°	1061.6	941.4	815.9	700.8	615.4	566.5	549.1	542.1	554.3	570.0	606.6
52.5°	915.2	796.7	667.7	556.1	467.2	416.7	397.5	387.0	394.0	414.9	451.5
55°	756.6	646.7	529.9	414.9	329.5	282.4	259.7	252.8	259.7	282.4	319.0
57.5°	597.9	505.5	407.9	299.8	223.1	176.1	153.4	146.4	165.6	174.3	212.7
60°	467.2	392.3	308.6	219.7	153.4	116.8	94.1	88.9	97.6	113.3	144.7
62.5°	350.4	303.3	237.1	156.9	113.3	74.9	62.7	57.5	62.7	74.9	99.4
65°	254.5	217.9	165.6	115.0	76.7	55.8	41.8	38.3	43.6	52.3	73.2
67.5°	174.3	146.4	115.0	80.2	52.3	34.8	29.6	29.6	31.4	38.3	54.0
70°	113.3	95.9	73.2	52.3	34.8	26.1	22.7	19.2	22.7	27.9	36.6
72.5°	71.5	61.0	47.0	36.6	26.1	19.2	15.7	13.9	17.4	20.9	27.9
75°	43.6	33.1	24.4	19.2	13.9	13.9	13.9	7.0	8.7	13.9	17.4
77.5°	26.1	22.7	19.2	15.7	12.2	7.0	7.0	7.0	8.7	10.5	15.7
80°	13.9	12.2	8.7	8.7	7.0	5.2	7.0	5.2	3.5	8.7	10.5
82.5°	8.7	7.0	7.0	7.0	8.7	3.5	5.2	3.5	5.2	7.0	5.2
85°	5.2	5.2	5.2	3.5	8.7	3.5	3.5	1.7	1.7	3.5	3.5
87.5°	0.0	1.7	1.7	0.0	1.7	0.0	1.7	1.7	1.7	1.7	1.7
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°	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3	3284.3
2.5°	3289.5	3287.8	3289.5	3287.8	3287.8	3287.8	3289.5	3289.5	3287.8	3287.8	3291.3
5°	3303.5	3303.5	3303.5	3301.7	3300.0	3300.0	3303.5	3303.5	3298.2	3303.5	3303.5
7.5°	3333.1	3327.9	3333.1	3326.1	3322.7	3324.4	3326.1	3322.7	3319.2	3320.9	3320.9
10°	3371.5	3366.2	3366.2	3361.0	3355.8	3352.3	3348.8	3340.1	3331.4	3329.6	3322.7
12.5°	3416.8	3408.1	3402.9	3392.4	3383.7	3371.5	3361.0	3347.1	3329.6	3317.4	3305.2
15°	3462.1	3448.2	3436.0	3418.5	3399.4	3378.4	3355.8	3333.1	3305.2	3280.8	3259.9
17.5°	3498.7	3479.6	3456.9	3429.0	3401.1	3369.7	3336.6	3303.5	3263.4	3232.0	3207.6
20°	3510.9	3483.1	3453.4	3416.8	3380.2	3336.6	3294.8	3251.2	3205.9	3172.8	3144.9
22.5°	3495.3	3462.1	3425.5	3387.2	3338.3	3291.3	3242.5	3191.9	3151.8	3106.5	3080.4
25°	3451.7	3411.6	3371.5	3326.1	3279.1	3226.8	3174.5	3122.2	3073.4	3049.0	3015.9
27.5°	3362.8	3319.2	3275.6	3228.5	3174.5	3122.2	3068.2	3017.6	2975.8	2942.6	2923.5
30°	3205.9	3155.3	3104.8	3054.2	3007.1	2953.1	2902.5	2860.7	2818.8	2792.7	2773.5
32.5°	2965.3	2920.0	2869.4	2820.6	2777.0	2731.7	2689.9	2653.3	2623.6	2606.2	2592.2
35°	2641.1	2595.7	2557.4	2522.5	2485.9	2466.7	2440.6	2419.6	2407.4	2400.5	2398.7
37.5°	2233.1	2207.0	2194.8	2187.8	2180.8	2175.6	2179.1	2187.8	2194.8	2207.0	2220.9
40°	1797.3	1820.0	1827.0	1851.4	1874.0	1903.6	1936.8	1975.1	2006.5	2046.6	2074.5
42.5°	1399.8	1441.7	1490.5	1542.8	1598.6	1652.6	1718.9	1779.9	1835.7	1886.2	1929.8
45°	1075.6	1140.1	1213.3	1288.3	1363.2	1441.7	1521.9	1596.8	1663.1	1717.1	1762.5
47.5°	838.5	910.0	1004.1	1096.5	1187.2	1279.6	1368.5	1446.9	1502.7	1555.0	1595.1
50°	664.2	746.1	849.0	955.3	1054.7	1152.3	1246.4	1319.7	1375.4	1417.3	1446.9
52.5°	514.2	611.9	716.5	828.1	934.4	1040.7	1127.9	1195.9	1241.2	1277.8	1300.5
55°	383.5	479.4	591.0	706.0	814.1	917.0	998.9	1058.2	1098.3	1119.2	1131.4
57.5°	277.2	364.4	475.9	591.0	688.6	786.2	852.5	906.5	929.2	941.4	946.6
60°	202.2	282.4	381.8	481.1	573.5	652.0	709.5	746.1	763.6	770.5	768.8
62.5°	148.2	217.9	303.3	387.0	462.0	526.4	571.8	596.2	604.9	608.4	603.2
65°	113.3	167.3	240.6	305.1	362.6	409.7	442.8	458.5	463.7	462.0	458.5
67.5°	83.7	125.5	179.6	228.4	270.2	306.8	324.3	338.2	341.7	336.5	331.2
70°	59.3	92.4	130.7	163.9	195.2	216.2	235.3	237.1	237.1	235.3	231.9
72.5°	41.8	64.5	88.9	111.6	130.7	146.4	153.4	158.6	156.9	155.1	151.7
75°	27.9	40.1	64.5	69.7	87.1	92.4	99.4	99.4	101.1	95.9	95.9
77.5°	17.4	27.9	38.3	45.3	52.3	59.3	62.7	62.7	64.5	62.7	62.7
80°	10.5	17.4	20.9	31.4	31.4	36.6	38.3	40.1	36.6	41.8	36.6
82.5°	7.0	10.5	15.7	15.7	19.2	22.7	22.7	24.4	24.4	22.7	22.7
85°	5.2	7.0	8.7	10.5	10.5	12.2	10.5	10.5	12.2	13.9	12.2
87.5°	1.7	3.5	1.7	3.5	3.5	7.0	5.2	5.2	5.2	7.0	7.0
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: P248461

CATALOG NUMBER: LSR8B60D010 EC8B60840 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3284.3	3284.3	3284.3	3284.3
2.5°	3287.8	3289.5	3287.8	3287.8
5°	3303.5	3301.7	3303.5	3300.0
7.5°	3315.7	3315.7	3313.9	3313.9
10°	3315.7	3308.7	3308.7	3308.7
12.5°	3289.5	3280.8	3275.6	3272.1
15°	3244.2	3228.5	3221.6	3219.8
17.5°	3185.0	3171.0	3162.3	3157.1
20°	3117.0	3103.0	3092.6	3094.3
22.5°	3057.7	3042.0	3035.0	3031.5
25°	2998.4	2979.2	2974.0	2970.5
27.5°	2902.5	2892.1	2886.8	2881.6
30°	2756.1	2750.9	2742.2	2754.4
32.5°	2587.0	2578.3	2571.3	2576.6
35°	2400.5	2395.2	2400.5	2397.0
37.5°	2229.7	2234.9	2241.9	2245.3
40°	2095.4	2114.6	2121.6	2125.0
42.5°	1961.2	1983.8	1997.8	2006.5
45°	1795.6	1818.2	1833.9	1844.4
47.5°	1624.7	1643.9	1659.6	1657.9
50°	1469.6	1480.0	1487.0	1494.0
52.5°	1312.7	1312.7	1314.4	1314.4
55°	1134.9	1131.4	1129.6	1131.4
57.5°	939.6	936.1	934.4	929.2
60°	761.8	751.4	744.4	744.4
62.5°	596.2	584.0	578.8	577.0
65°	448.0	446.3	435.8	434.1
67.5°	324.3	317.3	310.3	312.1
70°	228.4	217.9	217.9	214.4
72.5°	148.2	142.9	141.2	141.2
75°	92.4	92.4	88.9	95.9
77.5°	61.0	61.0	59.3	61.0
80°	36.6	36.6	36.6	34.8
82.5°	22.7	24.4	22.7	22.7
85°	12.2	13.9	10.5	15.7
87.5°	7.0	8.7	7.0	8.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)