

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: P248335

Luminaire Tested: **LSR8B60D010 EC8B60830 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248335
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 EC8B60830 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6301.0 lumens
Efficiency: N/A
Efficacy: 105.9 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

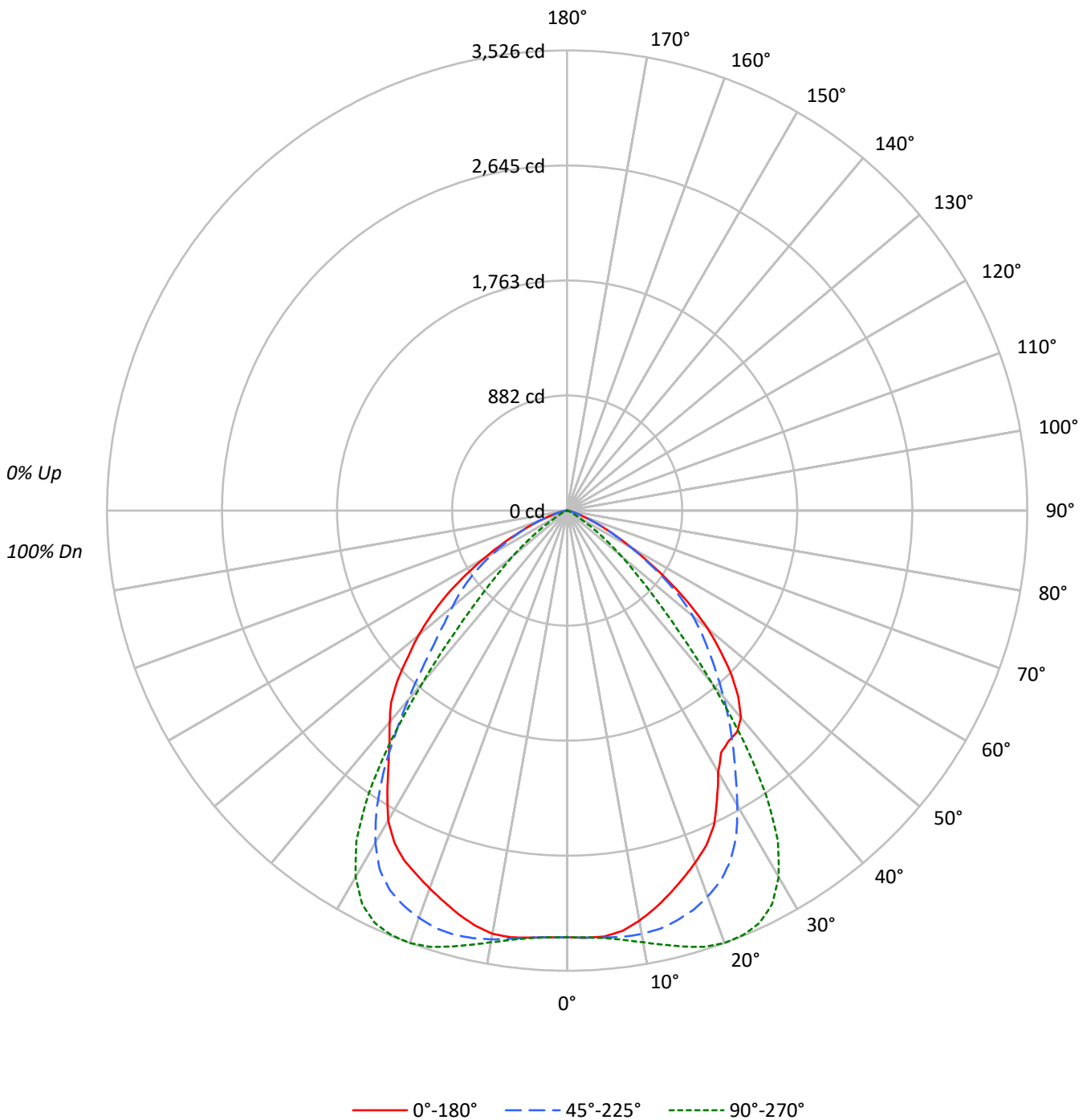
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	100795	100795	100795
5°	101396	101771	101666
10°	99907	105177	103114
15°	96985	110390	102301
20°	94170	115690	101061
25°	90555	118656	100592
30°	82412	115401	97609
35°	81183	99994	89804
40°	83390	69354	85137
45°	77629	41917	80053
50°	67335	25886	71331
55°	51676	13526	60535
60°	35203	5458	45687
65°	21897	2787	31521
70°	11892	1722	19240
75°	6195	822	11366
80°	2770	923	6162
85°	1840	601	5519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	5.0
10°-20°	931.2	14.8
20°-30°	1420.7	22.5
30°-40°	1482.5	23.5
40°-50°	1113.5	17.7
50°-60°	685.1	10.9
60°-70°	278.8	4.4
70°-80°	65.7	1.0
80°-90°	9.0	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°	2666.2	42.3
0°-40°	4148.7	65.8
0°-60°	5947.4	94.4
0°-90°	6301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6301.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3269	3269	3269	3269	3269	
5°	3276	3284	3288	3284	3284	310
15°	3038	3251	3458	3362	3204	856
25°	2662	2960	3487	3212	2956	1210
35°	2157	2217	2656	2455	2386	1362
45°	1780	1541	961	1435	1836	1358
55°	961	913	252	913	1126	864
65°	300	304	38	408	432	313
75°	52	52	7	92	95	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°	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7
2.5°	3277.4	3272.2	3277.4	3277.4	3279.2	3275.7	3277.4	3279.2	3275.7	3275.7	3275.7
5°	3275.7	3272.2	3275.7	3274.0	3277.4	3277.4	3280.9	3280.9	3284.4	3284.4	3289.6
7.5°	3247.9	3241.0	3247.9	3253.2	3256.6	3263.6	3272.2	3279.2	3286.1	3293.1	3301.7
10°	3190.7	3190.7	3195.9	3206.3	3216.7	3228.8	3244.5	3261.8	3279.2	3294.8	3310.4
12.5°	3119.6	3114.3	3124.7	3138.6	3154.2	3173.3	3197.6	3223.7	3251.4	3282.6	3306.9
15°	3038.0	3032.8	3044.9	3058.8	3077.9	3105.7	3135.2	3169.9	3209.8	3251.4	3291.3
17.5°	2954.7	2953.0	2965.1	2984.2	2999.8	3029.3	3067.5	3109.1	3154.2	3209.8	3261.8
20°	2869.7	2868.0	2880.1	2895.7	2916.5	2944.3	2982.5	3031.0	3084.8	3147.3	3208.0
22.5°	2781.2	2782.9	2793.4	2810.7	2828.1	2857.5	2897.4	2946.1	3005.0	3072.7	3140.4
25°	2661.5	2652.8	2666.7	2684.1	2713.5	2737.8	2776.0	2828.1	2888.8	2959.9	3039.7
27.5°	2488.0	2486.2	2498.4	2514.0	2540.0	2569.5	2611.2	2665.0	2729.2	2807.2	2885.3
30°	2314.5	2318.0	2323.2	2338.8	2356.1	2385.6	2427.3	2472.4	2533.1	2607.7	2691.0
32.5°	2196.5	2196.5	2203.5	2213.9	2226.0	2241.6	2271.1	2304.1	2350.9	2403.0	2463.7
35°	2156.6	2149.7	2156.6	2158.3	2160.1	2163.6	2168.7	2179.2	2194.8	2217.4	2239.9
37.5°	2139.3	2134.1	2134.1	2127.1	2118.4	2108.0	2094.2	2078.5	2061.2	2038.6	2021.3
40°	2071.6	2068.1	2064.6	2057.7	2038.6	2017.8	1995.2	1958.8	1918.9	1863.4	1807.9
42.5°	1941.5	1938.0	1936.3	1922.4	1905.0	1880.7	1854.7	1816.6	1766.2	1695.1	1615.3
45°	1780.1	1773.2	1768.0	1755.8	1743.7	1722.9	1698.6	1663.9	1613.5	1540.7	1445.3
47.5°	1592.7	1589.3	1587.5	1582.3	1570.2	1558.0	1542.4	1514.7	1469.5	1400.1	1301.3
50°	1403.6	1396.7	1400.1	1398.4	1393.2	1384.6	1374.1	1355.0	1320.3	1257.9	1167.7
52.5°	1186.7	1186.7	1185.0	1190.2	1191.9	1190.2	1191.9	1171.1	1141.6	1094.8	1018.4
55°	961.2	961.2	966.4	973.4	980.3	982.0	980.3	971.6	950.8	912.6	844.9
57.5°	749.5	746.1	756.5	766.9	773.8	780.7	775.5	768.6	756.5	725.2	673.2
60°	570.8	570.8	577.7	584.7	591.6	598.6	596.8	595.1	584.7	563.9	522.3
62.5°	419.9	421.6	421.6	426.8	433.7	440.7	445.9	440.7	435.5	421.6	393.8
65°	300.1	298.4	300.1	305.4	310.6	317.5	321.0	319.2	314.0	303.6	282.8
67.5°	201.3	199.5	206.4	208.2	211.7	218.6	216.9	218.6	216.9	208.2	190.9
70°	131.9	128.4	131.9	130.1	135.3	137.1	140.5	142.3	140.5	135.3	130.1
72.5°	81.6	79.8	81.6	83.3	85.0	86.7	90.2	90.2	88.5	85.0	78.1
75°	52.0	46.8	48.6	45.1	48.6	48.6	52.0	53.8	52.0	52.0	48.6
77.5°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	33.0	34.7	31.2	29.5
80°	15.6	15.6	17.4	17.4	17.4	19.1	17.4	17.4	17.4	19.1	13.9
82.5°	12.1	10.4	10.4	10.4	12.1	10.4	10.4	10.4	10.4	10.4	10.4
85°	5.2	6.9	5.2	3.5	5.2	5.2	6.9	5.2	5.2	5.2	6.9
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°	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7
2.5°	3277.4	3274.0	3274.0	3272.2	3275.7	3272.2	3274.0	3272.2	3272.2	3275.7	3272.2
5°	3289.6	3291.3	3287.8	3286.1	3291.3	3291.3	3291.3	3287.8	3287.8	3289.6	3287.8
7.5°	3306.9	3310.4	3312.1	3313.9	3317.3	3319.1	3319.1	3317.3	3315.6	3320.8	3313.9
10°	3326.0	3331.2	3341.6	3346.8	3355.5	3355.5	3359.0	3359.0	3355.5	3359.0	3357.2
12.5°	3319.1	3350.3	3367.7	3379.8	3391.9	3402.3	3405.8	3407.6	3405.8	3412.8	3405.8
15°	3331.2	3357.2	3385.0	3405.8	3428.4	3440.5	3444.0	3457.9	3461.3	3463.1	3452.7
17.5°	3312.1	3359.0	3388.5	3419.7	3452.7	3475.2	3496.0	3504.7	3506.5	3509.9	3496.0
20°	3268.7	3320.8	3365.9	3411.0	3449.2	3483.9	3501.2	3525.5	3518.6	3532.5	3513.4
22.5°	3209.8	3268.7	3326.0	3385.0	3424.9	3466.6	3503.0	3520.3	3529.0	3529.0	3508.2
25°	3116.1	3185.5	3247.9	3308.6	3369.4	3419.7	3461.3	3487.4	3492.6	3490.8	3466.6
27.5°	2970.3	3044.9	3117.8	3187.2	3261.8	3320.8	3369.4	3400.6	3409.3	3409.3	3383.3
30°	2769.1	2848.9	2920.0	3003.3	3079.7	3145.6	3213.2	3241.0	3256.6	3256.6	3227.1
32.5°	2529.6	2597.3	2663.2	2744.8	2828.1	2902.7	2966.9	3005.0	3024.1	3022.4	2996.4
35°	2269.4	2302.3	2352.7	2413.4	2488.0	2557.4	2619.8	2656.3	2689.3	2687.5	2663.2
37.5°	2009.1	2000.5	2005.7	2028.2	2075.0	2123.7	2172.2	2206.9	2234.7	2246.9	2241.6
40°	1754.1	1709.0	1665.6	1650.0	1653.5	1670.8	1696.8	1722.9	1754.1	1769.7	1776.6
42.5°	1525.1	1448.7	1372.4	1315.1	1282.2	1271.8	1283.9	1292.6	1311.7	1334.2	1356.8
45°	1341.2	1238.8	1138.2	1049.7	994.2	961.2	954.3	961.2	971.6	994.2	1023.7
47.5°	1190.2	1070.5	957.7	858.8	777.3	733.9	721.8	718.3	728.7	749.5	789.4
50°	1056.6	936.9	812.0	697.5	612.5	563.9	546.5	539.6	551.7	567.3	603.8
52.5°	910.9	792.9	664.5	553.5	465.0	414.7	395.6	385.2	392.1	412.9	449.4
55°	753.0	643.7	527.4	412.9	327.9	281.1	258.5	251.6	258.5	281.1	317.5
57.5°	595.1	503.2	406.0	298.4	222.1	175.2	152.7	145.7	164.8	173.5	211.7
60°	465.0	390.4	307.1	218.6	152.7	116.2	93.7	88.5	97.2	112.8	144.0
62.5°	348.7	301.9	236.0	156.1	112.8	74.6	62.4	57.3	62.4	74.6	98.9
65°	253.3	216.9	164.8	114.5	76.3	55.5	41.6	38.2	43.4	52.0	72.9
67.5°	173.5	145.7	114.5	79.8	52.0	34.7	29.5	29.5	31.2	38.2	53.8
70°	112.8	95.4	72.9	52.0	34.7	26.0	22.5	19.1	22.5	27.8	36.4
72.5°	71.2	60.7	46.8	36.4	26.0	19.1	15.6	13.9	17.4	20.8	27.8
75°	43.4	33.0	24.3	19.1	13.9	13.9	13.9	6.9	8.7	13.9	17.4
77.5°	26.0	22.5	19.1	15.6	12.1	6.9	6.9	6.9	8.7	10.4	15.6
80°	13.9	12.1	8.7	8.7	6.9	5.2	6.9	5.2	3.5	8.7	10.4
82.5°	8.7	6.9	6.9	6.9	8.7	3.5	5.2	3.5	5.2	6.9	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°	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7	3268.7
2.5°	3274.0	3272.2	3274.0	3272.2	3272.2	3272.2	3274.0	3274.0	3272.2	3272.2	3275.7
5°	3287.8	3287.8	3287.8	3286.1	3284.4	3284.4	3287.8	3287.8	3282.6	3287.8	3287.8
7.5°	3317.3	3312.1	3317.3	3310.4	3306.9	3308.6	3310.4	3306.9	3303.5	3305.2	3305.2
10°	3355.5	3350.3	3350.3	3345.1	3339.9	3336.4	3333.0	3324.3	3315.6	3313.9	3306.9
12.5°	3400.6	3391.9	3386.8	3376.3	3367.7	3355.5	3345.1	3331.2	3313.9	3301.7	3289.6
15°	3445.7	3431.8	3419.7	3402.3	3383.3	3362.4	3339.9	3317.3	3289.6	3265.3	3244.5
17.5°	3482.1	3463.1	3440.5	3412.8	3385.0	3353.8	3320.8	3287.8	3247.9	3216.7	3192.4
20°	3494.3	3466.6	3437.1	3400.6	3364.2	3320.8	3279.2	3235.8	3190.7	3157.7	3130.0
22.5°	3478.7	3445.7	3409.3	3371.1	3322.5	3275.7	3227.1	3176.8	3136.9	3091.8	3065.8
25°	3435.3	3395.4	3355.5	3310.4	3263.6	3211.5	3159.5	3107.4	3058.8	3034.5	3001.6
27.5°	3346.8	3303.5	3260.1	3213.2	3159.5	3107.4	3053.6	3003.3	2961.7	2928.7	2909.6
30°	3190.7	3140.4	3090.1	3039.7	2992.9	2939.1	2888.8	2847.1	2805.5	2779.5	2760.4
32.5°	2951.2	2906.1	2855.8	2807.2	2763.9	2718.8	2677.1	2640.7	2611.2	2593.8	2579.9
35°	2628.5	2583.4	2545.3	2510.6	2474.1	2455.0	2429.0	2408.2	2396.0	2389.1	2387.4
37.5°	2222.5	2196.5	2184.4	2177.4	2170.5	2165.3	2168.7	2177.4	2184.4	2196.5	2210.4
40°	1788.8	1811.3	1818.3	1842.6	1865.1	1894.6	1927.6	1965.8	1997.0	2036.9	2064.6
42.5°	1393.2	1434.9	1483.4	1535.5	1591.0	1644.8	1710.7	1771.4	1827.0	1877.3	1920.6
45°	1070.5	1134.7	1207.6	1282.2	1356.8	1434.9	1514.7	1589.3	1655.2	1709.0	1754.1
47.5°	834.5	905.7	999.4	1091.3	1181.5	1273.5	1362.0	1440.0	1495.6	1547.6	1587.5
50°	661.0	742.6	844.9	950.8	1049.7	1146.8	1240.5	1313.4	1368.9	1410.6	1440.0
52.5°	511.8	609.0	713.1	824.1	930.0	1035.8	1122.5	1190.2	1235.3	1271.8	1294.3
55°	381.7	477.1	588.2	702.7	810.3	912.6	994.2	1053.2	1093.1	1113.9	1126.0
57.5°	275.9	362.6	473.6	588.2	685.3	782.5	848.4	902.2	924.7	936.9	942.1
60°	201.3	281.1	380.0	478.9	570.8	648.9	706.2	742.6	759.9	766.9	765.1
62.5°	147.5	216.9	301.9	385.2	459.8	524.0	569.1	593.4	602.1	605.5	600.3
65°	112.8	166.5	239.4	303.6	360.9	407.7	440.7	456.3	461.5	459.8	456.3
67.5°	83.3	124.9	178.7	227.3	268.9	305.4	322.7	336.6	340.0	334.9	329.6
70°	59.0	92.0	130.1	163.1	194.3	215.2	234.2	236.0	236.0	234.2	230.8
72.5°	41.6	64.2	88.5	111.1	130.1	145.7	152.7	157.9	156.1	154.4	151.0
75°	27.8	39.9	64.2	69.4	86.7	92.0	98.9	98.9	100.6	95.4	95.4
77.5°	17.4	27.8	38.2	45.1	52.0	59.0	62.4	62.4	64.2	62.4	62.4
80°	10.4	17.4	20.8	31.2	31.2	36.4	38.2	39.9	36.4	41.6	36.4
82.5°	6.9	10.4	15.6	15.6	19.1	22.5	22.5	24.3	24.3	22.5	22.5
85°	5.2	6.9	8.7	10.4	10.4	12.1	10.4	10.4	12.1	13.9	12.1
87.5°	1.7	3.5	1.7	3.5	3.5	6.9	5.2	5.2	5.2	6.9	6.9
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: P248335

CATALOG NUMBER: LSR8B60D010 EC8B60830 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3268.7	3268.7	3268.7	3268.7
2.5°	3272.2	3274.0	3272.2	3272.2
5°	3287.8	3286.1	3287.8	3284.4
7.5°	3300.0	3300.0	3298.2	3298.2
10°	3300.0	3293.1	3293.1	3293.1
12.5°	3274.0	3265.3	3260.1	3256.6
15°	3228.8	3213.2	3206.3	3204.5
17.5°	3169.9	3156.0	3147.3	3142.1
20°	3102.2	3088.3	3077.9	3079.7
22.5°	3043.2	3027.6	3020.6	3017.2
25°	2984.2	2965.1	2959.9	2956.5
27.5°	2888.8	2878.4	2873.2	2868.0
30°	2743.0	2737.8	2729.2	2741.3
32.5°	2574.8	2566.1	2559.1	2564.4
35°	2389.1	2383.9	2389.1	2385.6
37.5°	2219.1	2224.3	2231.2	2234.7
40°	2085.5	2104.6	2111.5	2115.0
42.5°	1951.9	1974.4	1988.3	1997.0
45°	1787.0	1809.6	1825.2	1835.7
47.5°	1617.0	1636.1	1651.7	1650.0
50°	1462.6	1473.0	1479.9	1486.9
52.5°	1306.4	1306.4	1308.2	1308.2
55°	1129.5	1126.0	1124.3	1126.0
57.5°	935.2	931.7	930.0	924.7
60°	758.2	747.8	740.8	740.8
62.5°	593.4	581.2	576.0	574.3
65°	445.9	444.1	433.7	432.0
67.5°	322.7	315.8	308.8	310.6
70°	227.3	216.9	216.9	213.4
72.5°	147.5	142.3	140.5	140.5
75°	92.0	92.0	88.5	95.4
77.5°	60.7	60.7	59.0	60.7
80°	36.4	36.4	36.4	34.7
82.5°	22.5	24.3	22.5	22.5
85°	12.1	13.9	10.4	15.6
87.5°	6.9	8.7	6.9	8.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)