

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: P248344

Luminaire Tested: **LSR8B60D010 EC8B60835 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248344
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 EC8B60835 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6553.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

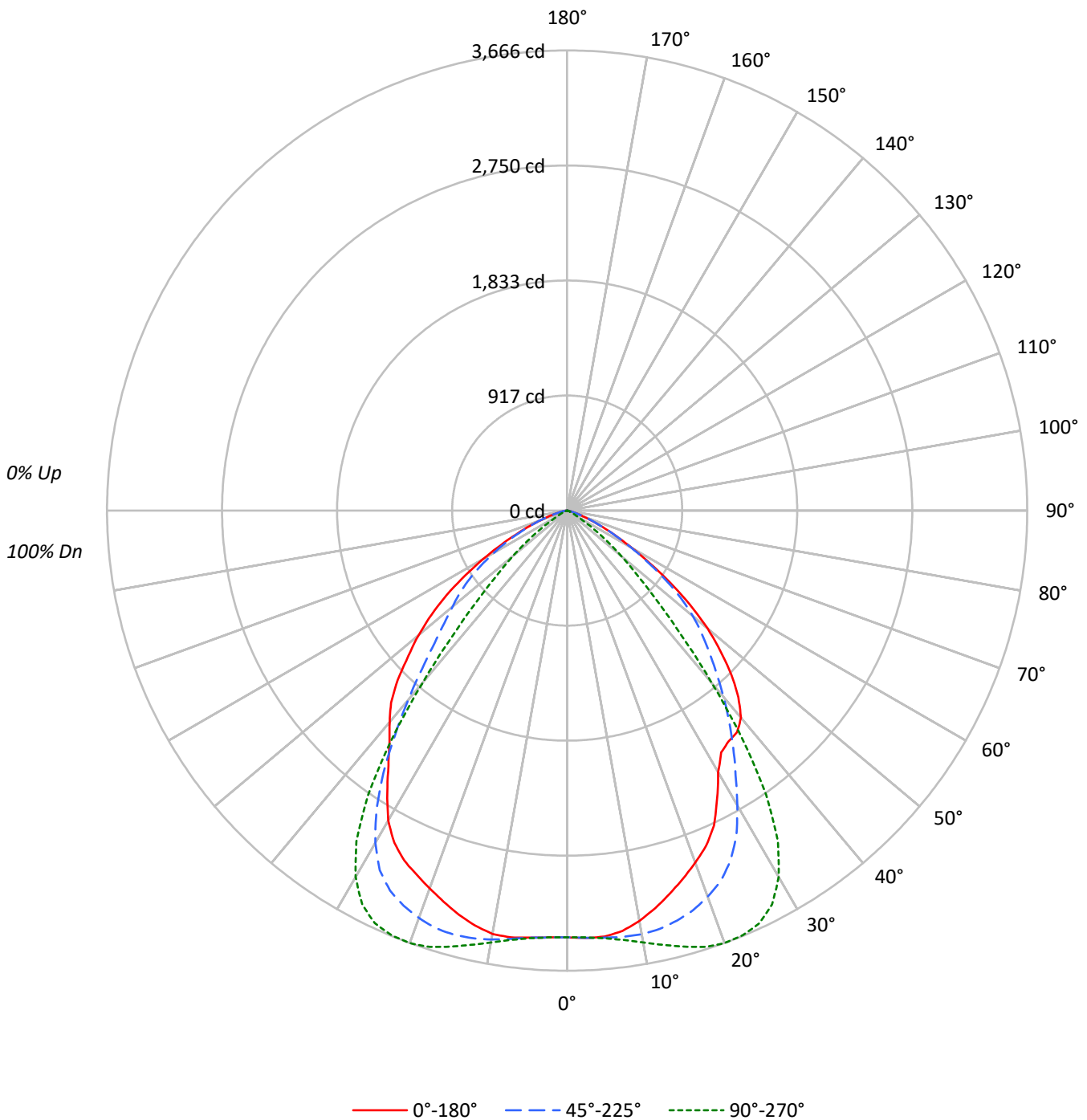
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	104828	104828	104828
5°	105451	105841	105730
10°	103903	109382	107237
15°	100864	114805	106393
20°	97937	120317	105101
25°	94175	123399	104614
30°	85705	120016	101511
35°	84432	103992	93395
40°	86727	72127	88539
45°	80734	43592	83254
50°	70031	26922	74185
55°	53740	14064	62960
60°	36609	5674	47519
65°	22772	2897	32783
70°	12361	1794	20006
75°	6446	858	11831
80°	2877	959	6411
85°	1911	637	5732



TEST NUMBER: P248344

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.9	5.0
10°-20°	968.5	14.8
20°-30°	1477.5	22.5
30°-40°	1541.8	23.5
40°-50°	1158.1	17.7
50°-60°	712.5	10.9
60°-70°	290.0	4.4
70°-80°	68.3	1.0
80°-90°	9.4	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°	2772.9	42.3
0°-40°	4314.7	65.8
0°-60°	6185.3	94.4
0°-90°	6553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6553.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3400	3400	3400	3400	3400	
5°	3407	3416	3419	3416	3416	322
15°	3160	3382	3596	3497	3333	890
25°	2768	3078	3627	3340	3075	1258
35°	2243	2306	2762	2553	2481	1416
45°	1851	1602	1000	1492	1909	1412
55°	1000	949	262	949	1171	899
65°	312	316	40	424	449	326
75°	54	54	7	96	99	65
85°	5	5	2	13	16	8
90°	0	0	0	0	0	



TEST NUMBER: P248344

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5
2.5°	3408.5	3403.1	3408.5	3408.5	3410.3	3406.7	3408.5	3410.3	3406.7	3406.7	3406.7
5°	3406.7	3403.1	3406.7	3404.9	3408.5	3408.5	3412.1	3412.1	3415.7	3415.7	3421.1
7.5°	3377.8	3370.6	3377.8	3383.3	3386.8	3394.1	3403.1	3410.3	3417.5	3424.8	3433.8
10°	3318.3	3318.3	3323.7	3334.5	3345.3	3358.0	3374.2	3392.3	3410.3	3426.5	3442.8
12.5°	3244.3	3238.9	3249.7	3264.1	3280.4	3300.3	3325.5	3352.6	3381.5	3413.9	3439.2
15°	3159.5	3154.1	3166.7	3181.1	3201.0	3229.9	3260.6	3296.6	3338.1	3381.5	3423.0
17.5°	3072.9	3071.1	3083.7	3103.6	3119.8	3150.5	3190.2	3233.5	3280.4	3338.1	3392.3
20°	2984.5	2982.7	2995.3	3011.6	3033.2	3062.1	3101.8	3152.3	3208.2	3273.2	3336.3
22.5°	2892.4	2894.2	2905.1	2923.1	2941.2	2971.8	3013.3	3063.9	3125.2	3195.6	3266.0
25°	2767.9	2758.9	2773.4	2791.4	2822.1	2847.3	2887.1	2941.2	3004.3	3078.3	3161.3
27.5°	2587.5	2585.7	2598.4	2614.6	2641.6	2672.3	2715.6	2771.6	2838.3	2919.5	3000.7
30°	2407.0	2410.7	2416.1	2432.3	2450.4	2481.0	2524.4	2571.3	2634.4	2712.0	2798.6
32.5°	2284.4	2284.4	2291.6	2302.4	2315.0	2331.3	2362.0	2396.2	2445.0	2499.1	2562.2
35°	2242.9	2235.7	2242.9	2244.7	2246.5	2250.1	2255.5	2266.3	2282.5	2306.0	2329.5
37.5°	2224.8	2219.4	2219.4	2212.2	2203.2	2192.3	2177.9	2161.7	2143.6	2120.2	2102.1
40°	2154.5	2150.8	2147.2	2140.0	2120.2	2098.5	2075.0	2037.2	1995.7	1937.9	1880.2
42.5°	2019.1	2015.5	2013.7	1999.3	1981.2	1956.0	1928.9	1889.2	1836.9	1762.9	1679.9
45°	1851.3	1844.1	1838.7	1826.1	1813.4	1791.8	1766.5	1730.4	1678.1	1602.3	1503.1
47.5°	1656.4	1652.8	1651.0	1645.6	1633.0	1620.3	1604.1	1575.2	1528.3	1456.1	1353.3
50°	1459.8	1452.6	1456.1	1454.4	1448.9	1439.9	1429.1	1409.2	1373.1	1308.2	1214.4
52.5°	1234.2	1234.2	1232.4	1237.8	1239.6	1237.8	1239.6	1218.0	1187.3	1138.6	1059.2
55°	999.6	999.6	1005.0	1012.3	1019.5	1021.3	1019.5	1010.5	988.8	949.1	878.7
57.5°	779.5	775.9	786.7	797.5	804.8	812.0	806.5	799.3	786.7	754.2	700.1
60°	593.6	593.6	600.8	608.1	615.3	622.5	620.7	618.9	608.1	586.4	543.1
62.5°	436.7	438.5	438.5	443.9	451.1	458.3	463.7	458.3	452.9	438.5	409.6
65°	312.1	310.3	312.1	317.6	323.0	330.2	333.8	332.0	326.6	315.8	294.1
67.5°	209.3	207.5	214.7	216.5	220.1	227.4	225.6	227.4	225.6	216.5	198.5
70°	137.1	133.5	137.1	135.3	140.8	142.6	146.1	147.9	146.1	140.8	135.3
72.5°	84.8	83.0	84.8	86.6	88.4	90.2	93.8	93.8	92.0	88.4	81.2
75°	54.1	48.7	50.5	46.9	50.5	50.5	54.1	55.9	54.1	54.1	50.5
77.5°	32.5	32.5	32.5	32.5	32.5	32.5	32.5	34.3	36.1	32.5	30.7
80°	16.2	16.2	18.1	18.1	18.1	19.9	18.1	18.1	18.1	19.9	14.4
82.5°	12.6	10.8	10.8	10.8	12.6	10.8	10.8	10.8	10.8	10.8	10.8
85°	5.4	7.2	5.4	3.6	5.4	5.4	7.2	5.4	5.4	5.4	7.2
87.5°	1.8	1.8	0.0	0.0	0.0	1.8	0.0	1.8	1.8	3.6	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



TEST NUMBER: P248344

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5
2.5°	3408.5	3404.9	3404.9	3403.1	3406.7	3403.1	3404.9	3403.1	3403.1	3406.7	3403.1
5°	3421.1	3423.0	3419.3	3417.5	3423.0	3423.0	3423.0	3419.3	3419.3	3421.1	3419.3
7.5°	3439.2	3442.8	3444.6	3446.4	3450.0	3451.8	3451.8	3450.0	3448.2	3453.6	3446.4
10°	3459.0	3464.5	3475.3	3480.7	3489.7	3489.7	3493.3	3493.3	3489.7	3493.3	3491.5
12.5°	3451.8	3484.3	3502.3	3515.0	3527.6	3538.4	3542.0	3543.8	3542.0	3549.3	3542.0
15°	3464.5	3491.5	3520.4	3542.0	3565.5	3578.1	3581.7	3596.2	3599.8	3601.6	3590.8
17.5°	3444.6	3493.3	3524.0	3556.5	3590.8	3614.2	3635.8	3644.9	3646.7	3650.3	3635.8
20°	3399.5	3453.6	3500.5	3547.5	3587.1	3623.2	3641.3	3666.5	3659.3	3673.8	3653.9
22.5°	3338.1	3399.5	3459.0	3520.4	3561.9	3605.2	3643.1	3661.1	3670.2	3670.2	3648.5
25°	3240.7	3312.9	3377.8	3441.0	3504.1	3556.5	3599.8	3626.8	3632.3	3630.5	3605.2
27.5°	3089.1	3166.7	3242.5	3314.7	3392.3	3453.6	3504.1	3536.6	3545.6	3545.6	3518.6
30°	2879.8	2962.8	3036.8	3123.4	3202.8	3271.4	3341.8	3370.6	3386.8	3386.8	3356.2
32.5°	2630.8	2701.2	2769.7	2854.6	2941.2	3018.8	3085.5	3125.2	3145.1	3143.3	3116.2
35°	2360.2	2394.4	2446.8	2509.9	2587.5	2659.7	2724.6	2762.5	2796.8	2795.0	2769.7
37.5°	2089.5	2080.5	2085.9	2109.3	2158.0	2208.6	2259.1	2295.2	2324.0	2336.7	2331.3
40°	1824.3	1777.3	1732.2	1716.0	1719.6	1737.6	1764.7	1791.8	1824.3	1840.5	1847.7
42.5°	1586.1	1506.7	1427.3	1367.7	1333.4	1322.6	1335.2	1344.3	1364.1	1387.6	1411.1
45°	1394.8	1288.4	1183.7	1091.7	1033.9	999.6	992.4	999.6	1010.5	1033.9	1064.6
47.5°	1237.8	1113.3	996.0	893.2	808.4	763.3	750.6	747.0	757.8	779.5	821.0
50°	1098.9	974.4	844.5	725.4	637.0	586.4	568.4	561.2	573.8	590.0	627.9
52.5°	947.3	824.6	691.1	575.6	483.6	431.3	411.4	400.6	407.8	429.5	467.3
55°	783.1	669.4	548.5	429.5	341.0	292.3	268.8	261.6	268.8	292.3	330.2
57.5°	618.9	523.3	422.2	310.3	231.0	182.3	158.8	151.6	171.4	180.4	220.1
60°	483.6	406.0	319.4	227.4	158.8	120.9	97.4	92.0	101.1	117.3	149.8
62.5°	362.7	314.0	245.4	162.4	117.3	77.6	64.9	59.6	64.9	77.6	102.9
65°	263.4	225.6	171.4	119.1	79.4	57.7	43.3	39.7	45.1	54.1	75.8
67.5°	180.4	151.6	119.1	83.0	54.1	36.1	30.7	30.7	32.5	39.7	55.9
70°	117.3	99.3	75.8	54.1	36.1	27.1	23.4	19.9	23.4	28.9	37.9
72.5°	74.0	63.1	48.7	37.9	27.1	19.9	16.2	14.4	18.1	21.6	28.9
75°	45.1	34.3	25.3	19.9	14.4	14.4	14.4	7.2	9.0	14.4	18.1
77.5°	27.1	23.4	19.9	16.2	12.6	7.2	7.2	7.2	9.0	10.8	16.2
80°	14.4	12.6	9.0	9.0	7.2	5.4	7.2	5.4	3.6	9.0	10.8
82.5°	9.0	7.2	7.2	7.2	9.0	3.6	5.4	3.6	5.4	7.2	5.4
85°	5.4	5.4	5.4	3.6	9.0	3.6	3.6	1.8	1.8	3.6	3.6
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



TEST NUMBER: P248344

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5	3399.5
2.5°	3404.9	3403.1	3404.9	3403.1	3403.1	3403.1	3404.9	3404.9	3403.1	3403.1	3406.7
5°	3419.3	3419.3	3419.3	3417.5	3415.7	3415.7	3419.3	3419.3	3413.9	3419.3	3419.3
7.5°	3450.0	3444.6	3450.0	3442.8	3439.2	3441.0	3442.8	3439.2	3435.6	3437.4	3437.4
10°	3489.7	3484.3	3484.3	3478.9	3473.5	3469.8	3466.3	3457.2	3448.2	3446.4	3439.2
12.5°	3536.6	3527.6	3522.2	3511.3	3502.3	3489.7	3478.9	3464.5	3446.4	3433.8	3421.1
15°	3583.5	3569.1	3556.5	3538.4	3518.6	3496.9	3473.5	3450.0	3421.1	3395.9	3374.2
17.5°	3621.4	3601.6	3578.1	3549.3	3520.4	3487.9	3453.6	3419.3	3377.8	3345.3	3320.1
20°	3634.0	3605.2	3574.5	3536.6	3498.7	3453.6	3410.3	3365.2	3318.3	3284.0	3255.1
22.5°	3617.8	3583.5	3545.6	3506.0	3455.4	3406.7	3356.2	3303.8	3262.3	3215.4	3188.4
25°	3572.7	3531.2	3489.7	3442.8	3394.1	3339.9	3285.8	3231.7	3181.1	3155.9	3121.6
27.5°	3480.7	3435.6	3390.5	3341.8	3285.8	3231.7	3175.8	3123.4	3080.1	3045.8	3026.0
30°	3318.3	3266.0	3213.6	3161.3	3112.6	3056.6	3004.3	2961.0	2917.7	2890.6	2870.8
32.5°	3069.3	3022.4	2970.1	2919.5	2874.4	2827.5	2784.2	2746.3	2715.6	2697.6	2683.1
35°	2733.7	2686.7	2647.1	2611.0	2573.1	2553.2	2526.2	2504.5	2491.9	2484.7	2482.9
37.5°	2311.4	2284.4	2271.7	2264.5	2257.3	2251.9	2255.5	2264.5	2271.7	2284.4	2298.8
40°	1860.3	1883.8	1891.0	1916.3	1939.7	1970.4	2004.7	2044.4	2076.8	2118.3	2147.2
42.5°	1448.9	1492.2	1542.8	1596.9	1654.6	1710.6	1779.1	1842.3	1900.0	1952.3	1997.5
45°	1113.3	1180.1	1255.9	1333.4	1411.1	1492.2	1575.2	1652.8	1721.4	1777.3	1824.3
47.5°	867.9	941.9	1039.3	1135.0	1228.8	1324.4	1416.4	1497.6	1555.4	1609.5	1651.0
50°	687.5	772.3	878.7	988.8	1091.7	1192.7	1290.1	1365.9	1423.7	1467.0	1497.6
52.5°	532.3	633.3	741.6	857.1	967.2	1077.2	1167.4	1237.8	1284.7	1322.6	1346.1
55°	397.0	496.2	611.7	730.8	842.7	949.1	1033.9	1095.3	1136.8	1158.4	1171.1
57.5°	286.9	377.1	492.6	611.7	712.7	813.8	882.4	938.3	961.7	974.4	979.8
60°	209.3	292.3	395.1	498.0	593.6	674.8	734.4	772.3	790.3	797.5	795.7
62.5°	153.4	225.6	314.0	400.6	478.2	544.9	591.8	617.1	626.1	629.7	624.3
65°	117.3	173.2	249.0	315.8	375.3	424.0	458.3	474.6	480.0	478.2	474.6
67.5°	86.6	129.9	185.9	236.4	279.7	317.6	335.6	350.1	353.6	348.3	342.8
70°	61.4	95.6	135.3	169.6	202.1	223.8	243.6	245.4	245.4	243.6	240.0
72.5°	43.3	66.8	92.0	115.5	135.3	151.6	158.8	164.2	162.4	160.6	157.0
75°	28.9	41.5	66.8	72.2	90.2	95.6	102.9	102.9	104.6	99.3	99.3
77.5°	18.1	28.9	39.7	46.9	54.1	61.4	64.9	64.9	66.8	64.9	64.9
80°	10.8	18.1	21.6	32.5	32.5	37.9	39.7	41.5	37.9	43.3	37.9
82.5°	7.2	10.8	16.2	16.2	19.9	23.4	23.4	25.3	25.3	23.4	23.4
85°	5.4	7.2	9.0	10.8	10.8	12.6	10.8	10.8	12.6	14.4	12.6
87.5°	1.8	3.6	1.8	3.6	3.6	7.2	5.4	5.4	5.4	7.2	7.2
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: P248344

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3399.5	3399.5	3399.5	3399.5
2.5°	3403.1	3404.9	3403.1	3403.1
5°	3419.3	3417.5	3419.3	3415.7
7.5°	3432.0	3432.0	3430.1	3430.1
10°	3432.0	3424.8	3424.8	3424.8
12.5°	3404.9	3395.9	3390.5	3386.8
15°	3358.0	3341.8	3334.5	3332.7
17.5°	3296.6	3282.2	3273.2	3267.8
20°	3226.3	3211.8	3201.0	3202.8
22.5°	3164.9	3148.7	3141.4	3137.8
25°	3103.6	3083.7	3078.3	3074.7
27.5°	3004.3	2993.5	2988.1	2982.7
30°	2852.7	2847.3	2838.3	2850.9
32.5°	2677.7	2668.7	2661.5	2666.9
35°	2484.7	2479.2	2484.7	2481.0
37.5°	2307.8	2313.2	2320.5	2324.0
40°	2168.9	2188.7	2196.0	2199.5
42.5°	2030.0	2053.4	2067.8	2076.8
45°	1858.5	1882.0	1898.2	1909.1
47.5°	1681.7	1701.6	1717.8	1716.0
50°	1521.1	1531.9	1539.1	1546.4
52.5°	1358.7	1358.7	1360.5	1360.5
55°	1174.7	1171.1	1169.2	1171.1
57.5°	972.6	969.0	967.2	961.7
60°	788.5	777.7	770.5	770.5
62.5°	617.1	604.5	599.1	597.3
65°	463.7	461.9	451.1	449.3
67.5°	335.6	328.4	321.2	323.0
70°	236.4	225.6	225.6	221.9
72.5°	153.4	147.9	146.1	146.1
75°	95.6	95.6	92.0	99.3
77.5°	63.1	63.1	61.4	63.1
80°	37.9	37.9	37.9	36.1
82.5°	23.4	25.3	23.4	23.4
85°	12.6	14.4	10.8	16.2
87.5°	7.2	9.0	7.2	9.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)