

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: P248353

Luminaire Tested: **LSR8B60D010 EC8B60840 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248353
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 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6510.0 lumens
Efficiency: N/A
Efficacy: 109.4 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

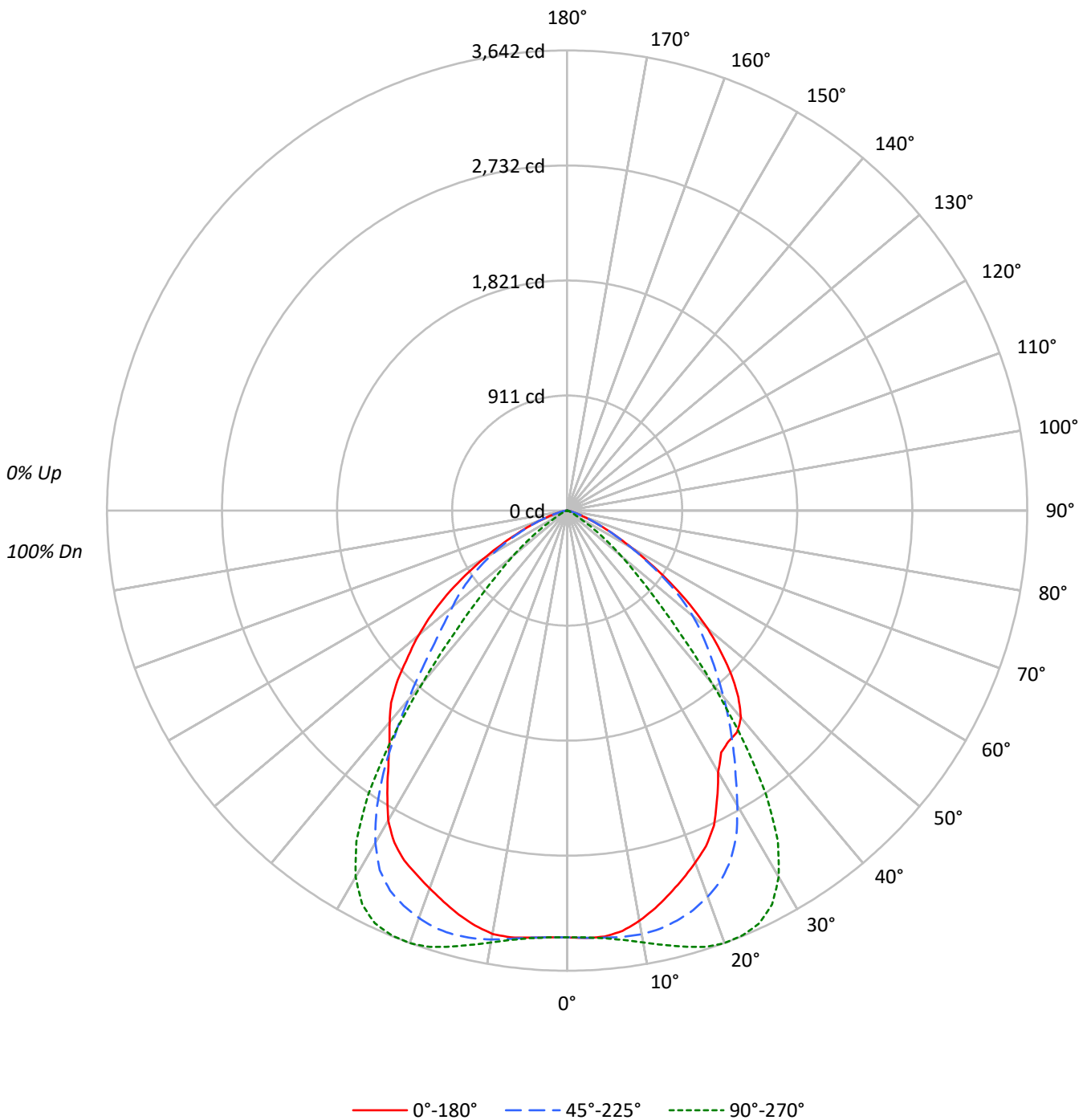
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	104140	104140	104140
5°	104761	105148	105037
10°	103220	108665	106533
15°	100203	114052	105694
20°	97294	119530	104412
25°	93559	122589	103927
30°	85146	119229	100845
35°	83875	103311	92785
40°	86156	71652	87959
45°	80206	43308	82705
50°	69570	26745	73696
55°	53391	13973	62546
60°	36375	5637	47204
65°	22626	2875	32564
70°	12280	1776	19880
75°	6410	858	11747
80°	2859	959	6357
85°	1911	637	5696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	5.0
10°-20°	962.1	14.8
20°-30°	1467.8	22.5
30°-40°	1531.7	23.5
40°-50°	1150.5	17.7
50°-60°	707.9	10.9
60°-70°	288.1	4.4
70°-80°	67.9	1.0
80°-90°	9.3	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°	2754.7	42.3
0°-40°	4286.4	65.8
0°-60°	6144.7	94.4
0°-90°	6510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6510.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3377	3377	3377	3377	3377	
5°	3384	3393	3397	3393	3393	320
15°	3139	3359	3573	3474	3311	884
25°	2750	3058	3603	3318	3054	1250
35°	2228	2291	2744	2536	2465	1407
45°	1839	1592	993	1482	1896	1403
55°	993	943	260	943	1163	893
65°	310	314	39	421	446	323
75°	54	54	7	95	99	65
85°	5	5	2	12	16	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°	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2
2.5°	3386.1	3380.8	3386.1	3386.1	3387.9	3384.4	3386.1	3387.9	3384.4	3384.4	3384.4
5°	3384.4	3380.8	3384.4	3382.6	3386.1	3386.1	3389.7	3389.7	3393.3	3393.3	3398.7
7.5°	3355.7	3348.5	3355.7	3361.1	3364.6	3371.8	3380.8	3387.9	3395.1	3402.3	3411.2
10°	3296.5	3296.5	3301.9	3312.6	3323.4	3335.9	3352.1	3370.0	3387.9	3404.0	3420.2
12.5°	3223.0	3217.6	3228.4	3242.7	3258.9	3278.6	3303.7	3330.6	3359.3	3391.5	3416.6
15°	3138.8	3133.4	3145.9	3160.3	3180.0	3208.7	3239.2	3275.0	3316.2	3359.3	3400.5
17.5°	3052.7	3050.9	3063.5	3083.2	3099.3	3129.8	3169.3	3212.2	3258.9	3316.2	3370.0
20°	2964.9	2963.1	2975.7	2991.8	3013.3	3042.0	3081.4	3131.6	3187.2	3251.7	3314.4
22.5°	2873.5	2875.3	2886.0	2903.9	2921.9	2952.3	2993.6	3043.8	3104.7	3174.6	3244.5
25°	2749.8	2740.8	2755.2	2773.1	2803.5	2828.6	2868.1	2921.9	2984.6	3058.1	3140.6
27.5°	2570.5	2568.7	2581.3	2597.4	2624.3	2654.8	2697.8	2753.4	2819.7	2900.3	2981.0
30°	2391.3	2394.8	2400.2	2416.4	2434.3	2464.8	2507.8	2554.4	2617.1	2694.2	2780.3
32.5°	2269.4	2269.4	2276.6	2287.3	2299.8	2316.0	2346.5	2380.5	2428.9	2482.7	2545.4
35°	2228.1	2221.0	2228.1	2229.9	2231.7	2235.3	2240.7	2251.5	2267.6	2290.9	2314.2
37.5°	2210.2	2204.8	2204.8	2197.7	2188.7	2178.0	2163.6	2147.5	2129.6	2106.2	2088.3
40°	2140.3	2136.7	2133.1	2126.0	2106.2	2084.8	2061.4	2023.8	1982.6	1925.2	1867.9
42.5°	2005.9	2002.3	2000.5	1986.2	1968.2	1943.1	1916.2	1876.8	1824.8	1751.3	1668.9
45°	1839.2	1832.0	1826.6	1814.1	1801.5	1780.0	1754.9	1719.0	1667.1	1591.8	1493.2
47.5°	1645.6	1642.0	1640.2	1634.8	1622.3	1609.7	1593.6	1564.9	1518.3	1446.6	1344.4
50°	1450.2	1443.0	1446.6	1444.8	1439.4	1430.5	1419.7	1400.0	1364.1	1299.6	1206.4
52.5°	1226.1	1226.1	1224.3	1229.7	1231.5	1229.7	1231.5	1210.0	1179.5	1131.1	1052.2
55°	993.1	993.1	998.4	1005.6	1012.8	1014.6	1012.8	1003.8	982.3	942.9	873.0
57.5°	774.4	770.8	781.6	792.3	799.5	806.6	801.3	794.1	781.6	749.3	695.5
60°	589.8	589.8	596.9	604.1	611.2	618.4	616.6	614.8	604.1	582.6	539.6
62.5°	433.8	435.6	435.6	441.0	448.1	455.3	460.7	455.3	449.9	435.6	406.9
65°	310.1	308.3	310.1	315.5	320.9	328.0	331.6	329.8	324.4	313.7	292.2
67.5°	207.9	206.1	213.3	215.1	218.7	225.9	224.1	225.9	224.1	215.1	197.2
70°	136.2	132.6	136.2	134.4	139.8	141.6	145.2	147.0	145.2	139.8	134.4
72.5°	84.3	82.5	84.3	86.1	87.9	89.6	93.2	93.2	91.4	87.9	80.7
75°	53.8	48.4	50.2	46.6	50.2	50.2	53.8	55.6	53.8	53.8	50.2
77.5°	32.3	32.3	32.3	32.3	32.3	32.3	32.3	34.1	35.8	32.3	30.5
80°	16.1	16.1	17.9	17.9	17.9	19.7	17.9	17.9	17.9	19.7	14.3
82.5°	12.5	10.7	10.7	10.7	12.5	10.7	10.7	10.7	10.7	10.7	10.7
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2
2.5°	3386.1	3382.6	3382.6	3380.8	3384.4	3380.8	3382.6	3380.8	3380.8	3384.4	3380.8
5°	3398.7	3400.5	3396.9	3395.1	3400.5	3400.5	3400.5	3396.9	3396.9	3398.7	3396.9
7.5°	3416.6	3420.2	3422.0	3423.8	3427.4	3429.2	3429.2	3427.4	3425.6	3431.0	3423.8
10°	3436.3	3441.7	3452.5	3457.9	3466.8	3466.8	3470.4	3470.4	3466.8	3470.4	3468.6
12.5°	3429.2	3461.4	3479.4	3491.9	3504.4	3515.2	3518.8	3520.6	3518.8	3526.0	3518.8
15°	3441.7	3468.6	3497.3	3518.8	3542.1	3554.6	3558.2	3572.6	3576.2	3578.0	3567.2
17.5°	3422.0	3470.4	3500.8	3533.1	3567.2	3590.5	3612.0	3621.0	3622.8	3626.3	3612.0
20°	3377.2	3431.0	3477.6	3524.2	3563.6	3599.4	3617.4	3642.5	3635.3	3649.7	3629.9
22.5°	3316.2	3377.2	3436.3	3497.3	3538.5	3581.5	3619.2	3637.1	3646.1	3646.1	3624.5
25°	3219.4	3291.1	3355.7	3418.4	3481.2	3533.1	3576.2	3603.0	3608.4	3606.6	3581.5
27.5°	3068.9	3145.9	3221.2	3292.9	3370.0	3431.0	3481.2	3513.4	3522.4	3522.4	3495.5
30°	2860.9	2943.4	3016.9	3102.9	3181.8	3249.9	3319.8	3348.5	3364.6	3364.6	3334.2
32.5°	2613.5	2683.5	2751.6	2835.8	2921.9	2998.9	3065.3	3104.7	3124.4	3122.6	3095.7
35°	2344.7	2378.7	2430.7	2493.4	2570.5	2642.2	2706.7	2744.4	2778.5	2776.7	2751.6
37.5°	2075.8	2066.8	2072.2	2095.5	2143.9	2194.1	2244.3	2280.2	2308.8	2321.4	2316.0
40°	1812.3	1765.7	1720.8	1704.7	1708.3	1726.2	1753.1	1780.0	1812.3	1828.4	1835.6
42.5°	1575.7	1496.8	1417.9	1358.8	1324.7	1313.9	1326.5	1335.4	1355.2	1378.5	1401.8
45°	1385.7	1279.9	1175.9	1084.5	1027.1	993.1	985.9	993.1	1003.8	1027.1	1057.6
47.5°	1229.7	1106.0	989.5	887.3	803.1	758.3	745.7	742.1	752.9	774.4	815.6
50°	1091.7	968.0	838.9	720.6	632.8	582.6	564.7	557.5	570.0	586.2	623.8
52.5°	941.1	819.2	686.6	571.8	480.4	428.4	408.7	397.9	405.1	426.6	464.3
55°	778.0	665.0	544.9	426.6	338.8	290.4	267.1	259.9	267.1	290.4	328.0
57.5°	614.8	519.8	419.4	308.3	229.4	181.1	157.7	150.6	170.3	179.3	218.7
60°	480.4	403.3	317.3	225.9	157.7	120.1	96.8	91.4	100.4	116.5	148.8
62.5°	360.3	311.9	243.8	161.3	116.5	77.1	64.5	59.2	64.5	77.1	102.2
65°	261.7	224.1	170.3	118.3	78.9	57.4	43.0	39.4	44.8	53.8	75.3
67.5°	179.3	150.6	118.3	82.5	53.8	35.8	30.5	30.5	32.3	39.4	55.6
70°	116.5	98.6	75.3	53.8	35.8	26.9	23.3	19.7	23.3	28.7	37.6
72.5°	73.5	62.7	48.4	37.6	26.9	19.7	16.1	14.3	17.9	21.5	28.7
75°	44.8	34.1	25.1	19.7	14.3	14.3	14.3	7.2	8.9	14.3	17.9
77.5°	26.9	23.3	19.7	16.1	12.5	7.2	7.2	7.2	8.9	10.7	16.1
80°	14.3	12.5	8.9	8.9	7.2	5.4	7.2	5.4	3.6	8.9	10.7
82.5°	8.9	7.2	7.2	7.2	8.9	3.6	5.4	3.6	5.4	7.2	5.4
85°	5.4	5.4	5.4	3.6	8.9	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2	3377.2
2.5°	3382.6	3380.8	3382.6	3380.8	3380.8	3380.8	3382.6	3382.6	3380.8	3380.8	3384.4
5°	3396.9	3396.9	3396.9	3395.1	3393.3	3393.3	3396.9	3396.9	3391.5	3396.9	3396.9
7.5°	3427.4	3422.0	3427.4	3420.2	3416.6	3418.4	3420.2	3416.6	3413.0	3414.8	3414.8
10°	3466.8	3461.4	3461.4	3456.1	3450.7	3447.1	3443.5	3434.5	3425.6	3423.8	3416.6
12.5°	3513.4	3504.4	3499.1	3488.3	3479.4	3466.8	3456.1	3441.7	3423.8	3411.2	3398.7
15°	3560.0	3545.7	3533.1	3515.2	3495.5	3474.0	3450.7	3427.4	3398.7	3373.6	3352.1
17.5°	3597.6	3578.0	3554.6	3526.0	3497.3	3465.0	3431.0	3396.9	3355.7	3323.4	3298.3
20°	3610.2	3581.5	3551.1	3513.4	3475.8	3431.0	3387.9	3343.1	3296.5	3262.5	3233.8
22.5°	3594.1	3560.0	3522.4	3482.9	3432.7	3384.4	3334.2	3282.2	3240.9	3194.3	3167.5
25°	3549.3	3508.0	3466.8	3420.2	3371.8	3318.0	3264.3	3210.5	3160.3	3135.2	3101.1
27.5°	3457.9	3413.0	3368.2	3319.8	3264.3	3210.5	3154.9	3102.9	3059.9	3025.8	3006.1
30°	3296.5	3244.5	3192.5	3140.6	3092.2	3036.6	2984.6	2941.6	2898.5	2871.7	2852.0
32.5°	3049.1	3002.5	2950.6	2900.3	2855.6	2808.9	2765.9	2728.3	2697.8	2679.9	2665.5
35°	2715.7	2669.1	2629.7	2593.8	2556.2	2536.5	2509.6	2488.1	2475.5	2468.4	2466.6
37.5°	2296.3	2269.4	2256.8	2249.7	2242.5	2237.1	2240.7	2249.7	2256.8	2269.4	2283.7
40°	1848.1	1871.4	1878.6	1903.7	1927.0	1957.5	1991.5	2031.0	2063.2	2104.4	2133.1
42.5°	1439.4	1482.5	1532.6	1586.4	1643.8	1699.3	1767.5	1830.2	1887.6	1939.5	1984.4
45°	1106.0	1172.3	1247.6	1324.7	1401.8	1482.5	1564.9	1642.0	1710.1	1765.7	1812.3
47.5°	862.2	935.7	1032.5	1127.5	1220.7	1315.7	1407.1	1487.8	1545.2	1598.9	1640.2
50°	683.0	767.2	873.0	982.3	1084.5	1184.9	1281.7	1357.0	1414.3	1457.4	1487.8
52.5°	528.8	629.2	736.7	851.5	960.8	1070.2	1159.8	1229.7	1276.3	1313.9	1337.2
55°	394.4	493.0	607.7	726.0	837.1	942.9	1027.1	1088.1	1129.3	1150.8	1163.4
57.5°	285.0	374.7	489.4	607.7	708.0	808.4	876.6	932.1	955.4	968.0	973.4
60°	207.9	290.4	392.6	494.8	589.8	670.4	729.6	767.2	785.2	792.3	790.5
62.5°	152.4	224.1	311.9	397.9	475.0	541.3	588.0	613.0	622.0	625.6	620.2
65°	116.5	172.1	247.4	313.7	372.9	421.2	455.3	471.5	476.8	475.0	471.5
67.5°	86.1	129.1	184.7	234.8	277.9	315.5	333.4	347.8	351.3	346.0	340.6
70°	61.0	95.0	134.4	168.5	200.8	222.3	242.0	243.8	243.8	242.0	238.4
72.5°	43.0	66.3	91.4	114.7	134.4	150.6	157.7	163.1	161.3	159.5	156.0
75°	28.7	41.2	66.3	71.7	89.6	95.0	102.2	102.2	104.0	98.6	98.6
77.5°	17.9	28.7	39.4	46.6	53.8	61.0	64.5	64.5	66.3	64.5	64.5
80°	10.7	17.9	21.5	32.3	32.3	37.6	39.4	41.2	37.6	43.0	37.6
82.5°	7.2	10.7	16.1	16.1	19.7	23.3	23.3	25.1	25.1	23.3	23.3
85°	5.4	7.2	8.9	10.7	10.7	12.5	10.7	10.7	12.5	14.3	12.5
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: P248353

CATALOG NUMBER: LSR8B60D010 EC8B60840 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3377.2	3377.2	3377.2	3377.2
2.5°	3380.8	3382.6	3380.8	3380.8
5°	3396.9	3395.1	3396.9	3393.3
7.5°	3409.4	3409.4	3407.6	3407.6
10°	3409.4	3402.3	3402.3	3402.3
12.5°	3382.6	3373.6	3368.2	3364.6
15°	3335.9	3319.8	3312.6	3310.8
17.5°	3275.0	3260.7	3251.7	3246.3
20°	3205.1	3190.7	3180.0	3181.8
22.5°	3144.1	3128.0	3120.8	3117.2
25°	3083.2	3063.5	3058.1	3054.5
27.5°	2984.6	2973.9	2968.5	2963.1
30°	2834.0	2828.6	2819.7	2832.2
32.5°	2660.2	2651.2	2644.0	2649.4
35°	2468.4	2463.0	2468.4	2464.8
37.5°	2292.7	2298.0	2305.2	2308.8
40°	2154.7	2174.4	2181.6	2185.1
42.5°	2016.6	2039.9	2054.3	2063.2
45°	1846.3	1869.6	1885.8	1896.5
47.5°	1670.7	1690.4	1706.5	1704.7
50°	1511.1	1521.9	1529.0	1536.2
52.5°	1349.8	1349.8	1351.6	1351.6
55°	1167.0	1163.4	1161.6	1163.4
57.5°	966.2	962.6	960.8	955.4
60°	783.4	772.6	765.4	765.4
62.5°	613.0	600.5	595.1	593.3
65°	460.7	458.9	448.1	446.3
67.5°	333.4	326.2	319.1	320.9
70°	234.8	224.1	224.1	220.5
72.5°	152.4	147.0	145.2	145.2
75°	95.0	95.0	91.4	98.6
77.5°	62.7	62.7	61.0	62.7
80°	37.6	37.6	37.6	35.8
82.5°	23.3	25.1	23.3	23.3
85°	12.5	14.3	10.7	16.1
87.5°	7.2	8.9	7.2	8.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)