

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: P249100

Luminaire Tested: **LSR8B60D010 EC8B60835 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249100
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: LSR8B60D010 EC8B60835 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6323.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

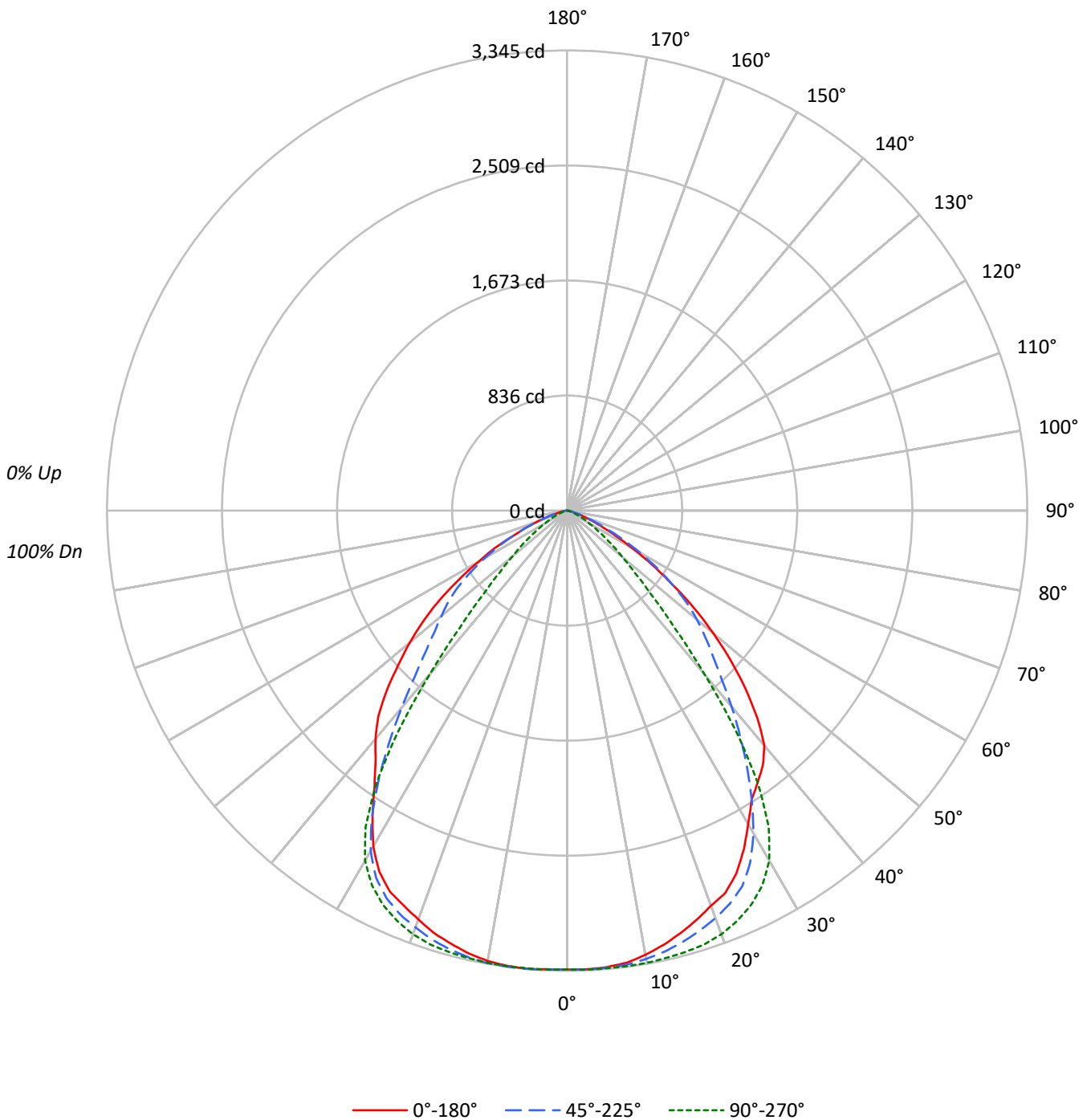
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	102873	102873	102873
5°	103102	103377	103489
10°	102666	104516	104069
15°	101528	106045	104047
20°	100310	107536	103778
25°	99007	107659	103882
30°	93667	104634	100361
35°	90869	90937	91882
40°	89746	62567	87222
45°	79966	37561	81061
50°	66490	24999	71647
55°	49869	17236	60745
60°	33797	11483	45835
65°	20386	7450	31484
70°	11306	4039	19375
75°	5123	1704	10032
80°	4457	1900	6997
85°	5059	2512	6970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	5.0
10°-20°	924.6	14.6
20°-30°	1403.4	22.2
30°-40°	1474.0	23.3
40°-50°	1105.1	17.5
50°-60°	709.1	11.2
60°-70°	303.3	4.8
70°-80°	71.7	1.1
80°-90°	13.3	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°	2646.5	41.9
0°-40°	4120.5	65.2
0°-60°	5934.7	93.9
0°-90°	6323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6323.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3336	3336	3336	3336	3336	
5°	3331	3336	3340	3345	3343	316
15°	3180	3247	3322	3300	3259	897
25°	2910	3012	3164	3107	3053	1329
35°	2414	2280	2416	2387	2441	1515
45°	1834	1499	861	1456	1859	1404
55°	928	928	321	967	1130	841
65°	279	330	102	424	432	298
75°	43	50	14	86	84	63
85°	14	9	7	14	20	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°	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1
2.5°	3337.9	3341.5	3339.7	3339.7	3337.9	3339.7	3339.7	3343.3	3343.3	3339.7	3337.9
5°	3330.8	3334.3	3334.3	3330.8	3330.8	3339.7	3334.3	3337.9	3337.9	3336.1	3336.1
7.5°	3314.7	3314.7	3321.8	3316.5	3316.5	3321.8	3320.0	3323.6	3327.2	3329.0	3329.0
10°	3278.8	3282.4	3284.2	3284.2	3286.0	3291.4	3295.0	3302.1	3305.7	3309.3	3311.1
12.5°	3234.1	3239.4	3241.2	3239.4	3244.8	3252.0	3260.9	3269.9	3275.3	3282.4	3287.8
15°	3180.3	3180.3	3183.9	3189.3	3192.9	3203.6	3212.6	3223.3	3237.6	3246.6	3255.6
17.5°	3121.3	3124.9	3130.2	3130.2	3137.4	3155.3	3160.7	3176.8	3192.9	3201.8	3219.8
20°	3056.8	3060.4	3065.7	3069.3	3078.3	3092.6	3103.3	3117.7	3135.6	3151.7	3169.6
22.5°	3006.6	2999.5	3003.0	3006.6	3015.6	3028.2	3040.7	3058.6	3076.5	3092.6	3110.5
25°	2909.9	2911.7	2917.1	2920.7	2931.4	2942.2	2956.5	2978.0	2994.1	3012.0	3031.7
27.5°	2779.2	2781.0	2790.0	2790.0	2798.9	2816.8	2825.8	2843.7	2865.2	2883.1	2906.4
30°	2630.6	2634.2	2634.2	2641.3	2646.7	2655.7	2664.6	2682.5	2693.3	2709.4	2741.6
32.5°	2494.5	2498.1	2496.3	2494.5	2489.1	2487.3	2485.5	2489.1	2492.7	2498.1	2510.6
35°	2413.9	2405.0	2397.8	2385.3	2371.0	2353.0	2336.9	2315.4	2295.7	2279.6	2261.7
37.5°	2336.9	2335.1	2324.4	2306.5	2277.8	2245.6	2208.0	2161.4	2114.8	2064.7	2016.4
40°	2229.5	2224.1	2215.1	2190.1	2157.8	2118.4	2068.3	2011.0	1935.8	1858.8	1780.0
42.5°	2046.8	2048.6	2037.9	2018.1	1987.7	1950.1	1898.2	1835.5	1754.9	1663.6	1561.5
45°	1833.7	1833.7	1830.1	1814.0	1792.5	1762.1	1722.7	1670.8	1592.0	1498.8	1389.6
47.5°	1611.7	1613.5	1608.1	1604.5	1595.5	1575.9	1547.2	1507.8	1452.3	1362.7	1253.5
50°	1386.0	1386.0	1395.0	1393.2	1393.2	1386.0	1373.5	1350.2	1301.9	1230.2	1128.2
52.5°	1160.4	1164.0	1169.4	1176.5	1185.5	1199.8	1185.5	1174.7	1144.3	1088.8	1001.0
55°	927.6	931.2	940.1	952.7	963.4	977.8	981.3	981.3	965.2	927.6	861.3
57.5°	728.8	723.5	730.6	741.4	755.7	770.0	780.8	793.3	791.5	766.4	712.7
60°	548.0	549.8	555.1	565.9	576.6	589.2	603.5	614.2	619.6	607.1	573.0
62.5°	399.3	399.3	406.5	417.2	422.6	440.5	449.5	454.9	460.2	458.4	436.9
65°	279.4	282.9	286.5	291.9	297.3	308.0	313.4	324.1	327.7	329.5	313.4
67.5°	197.0	191.6	195.2	198.8	204.1	211.3	222.1	222.1	227.4	227.4	216.7
70°	125.4	125.4	127.2	132.5	136.1	137.9	141.5	145.0	150.4	148.6	148.6
72.5°	84.2	82.4	84.2	86.0	87.8	93.1	93.1	94.9	98.5	100.3	93.1
75°	43.0	44.8	48.3	46.6	51.9	48.3	50.1	55.5	53.7	50.1	50.1
77.5°	35.8	35.8	35.8	34.0	37.6	37.6	35.8	39.4	37.6	37.6	35.8
80°	25.1	26.9	25.1	23.3	25.1	23.3	23.3	23.3	23.3	23.3	21.5
82.5°	19.7	16.1	17.9	16.1	17.9	17.9	16.1	14.3	14.3	16.1	14.3
85°	14.3	10.7	12.5	12.5	10.7	10.7	10.7	10.7	10.7	8.9	8.9
87.5°	8.9	5.4	5.4	5.4	7.1	7.1	7.1	5.4	7.1	7.1	3.6
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°	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1
2.5°	3341.5	3339.7	3343.3	3341.5	3341.5	3339.7	3341.5	3339.7	3343.3	3336.1	3337.9
5°	3341.5	3337.9	3339.7	3341.5	3343.3	3339.7	3339.7	3339.7	3343.3	3339.7	3341.5
7.5°	3334.3	3332.5	3337.9	3341.5	3339.7	3337.9	3341.5	3339.7	3343.3	3341.5	3345.1
10°	3320.0	3321.8	3325.4	3330.8	3332.5	3334.3	3337.9	3337.9	3343.3	3336.1	3339.7
12.5°	3298.5	3305.7	3314.7	3318.2	3325.4	3325.4	3329.0	3330.8	3334.3	3332.5	3337.9
15°	3271.7	3280.6	3291.4	3300.3	3309.3	3314.7	3320.0	3321.8	3327.2	3321.8	3323.6
17.5°	3239.4	3250.2	3266.3	3277.0	3291.4	3296.7	3303.9	3307.5	3312.9	3309.3	3311.1
20°	3194.7	3207.2	3225.1	3241.2	3250.2	3262.7	3271.7	3277.0	3280.6	3277.0	3278.8
22.5°	3132.0	3149.9	3173.2	3185.7	3203.6	3214.4	3216.2	3228.7	3237.6	3228.7	3232.3
25°	3058.6	3076.5	3094.4	3121.3	3137.4	3149.9	3162.5	3164.2	3173.2	3171.4	3169.6
27.5°	2936.8	2960.1	2990.5	3012.0	3033.5	3053.2	3067.5	3071.1	3080.1	3076.5	3078.3
30°	2770.3	2795.4	2824.0	2858.0	2888.5	2908.1	2926.1	2938.6	2947.5	2942.2	2940.4
32.5°	2533.9	2559.0	2589.4	2623.4	2659.3	2687.9	2709.4	2725.5	2736.2	2732.7	2723.7
35°	2263.5	2270.7	2290.4	2317.2	2347.6	2378.1	2397.8	2415.7	2428.2	2431.8	2431.8
37.5°	1985.9	1962.7	1948.3	1948.3	1966.2	1978.8	1996.7	2007.4	2027.1	2034.3	2039.7
40°	1717.3	1663.6	1613.5	1575.9	1550.8	1549.0	1549.0	1554.3	1572.3	1595.5	1617.0
42.5°	1477.4	1391.4	1314.4	1244.6	1194.4	1165.8	1153.2	1155.0	1169.4	1190.8	1226.6
45°	1285.7	1178.3	1081.6	997.4	929.4	884.6	863.1	861.3	872.1	897.1	936.6
47.5°	1137.1	1022.5	913.3	816.6	743.2	694.8	669.7	662.6	669.7	693.0	739.6
50°	1013.6	895.4	782.6	682.3	603.5	553.4	530.0	521.1	530.0	549.8	596.3
52.5°	898.9	777.2	671.5	574.8	490.7	447.7	422.6	417.2	422.6	445.9	483.5
55°	766.4	662.6	558.7	462.0	388.6	345.6	325.9	320.6	325.9	347.4	386.8
57.5°	635.7	546.2	454.9	367.1	304.4	266.8	248.9	241.7	254.3	268.6	315.2
60°	513.9	442.3	365.3	288.3	236.4	202.3	188.0	186.2	189.8	207.7	239.9
62.5°	402.9	343.8	282.9	220.3	177.3	163.0	145.0	143.3	146.8	157.6	182.7
65°	290.1	252.5	205.9	161.2	127.2	107.4	100.3	102.1	105.6	112.8	136.1
67.5°	202.3	175.5	143.3	112.8	87.8	78.8	71.6	69.8	71.6	84.2	96.7
70°	136.1	120.0	96.7	86.0	60.9	48.3	50.1	44.8	51.9	51.9	62.7
72.5°	89.5	78.8	64.5	50.1	43.0	34.0	34.0	32.2	35.8	37.6	46.6
75°	46.6	35.8	35.8	25.1	17.9	8.9	16.1	14.3	12.5	14.3	17.9
77.5°	32.2	26.9	25.1	19.7	17.9	14.3	14.3	14.3	14.3	16.1	17.9
80°	19.7	19.7	14.3	12.5	10.7	8.9	10.7	10.7	10.7	10.7	12.5
82.5°	12.5	10.7	10.7	8.9	8.9	7.1	7.1	7.1	7.1	7.1	10.7
85°	10.7	7.1	7.1	5.4	7.1	12.5	5.4	7.1	7.1	7.1	5.4
87.5°	3.6	5.4	5.4	5.4	3.6	1.8	3.6	5.4	5.4	8.9	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°	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1	3336.1
2.5°	3341.5	3343.3	3343.3	3341.5	3341.5	3337.9	3345.1	3339.7	3341.5	3348.7	3343.3
5°	3345.1	3346.9	3346.9	3345.1	3345.1	3345.1	3346.9	3346.9	3345.1	3343.3	3346.9
7.5°	3352.3	3350.5	3350.5	3346.9	3346.9	3343.3	3346.9	3341.5	3345.1	3341.5	3346.9
10°	3343.3	3345.1	3343.3	3341.5	3341.5	3339.7	3339.7	3334.3	3336.1	3330.8	3334.3
12.5°	3337.9	3336.1	3336.1	3332.5	3329.0	3325.4	3323.6	3318.2	3318.2	3305.7	3311.1
15°	3323.6	3325.4	3320.0	3312.9	3309.3	3300.3	3296.7	3289.6	3282.4	3273.5	3275.3
17.5°	3311.1	3305.7	3298.5	3291.4	3277.0	3269.9	3262.7	3252.0	3248.4	3237.6	3234.1
20°	3273.5	3269.9	3260.9	3248.4	3239.4	3223.3	3216.2	3205.4	3196.5	3185.7	3180.3
22.5°	3225.1	3221.5	3210.8	3198.2	3183.9	3176.8	3169.6	3149.9	3140.9	3130.2	3128.4
25°	3164.2	3158.9	3148.1	3133.8	3126.6	3106.9	3099.8	3085.4	3081.9	3071.1	3069.3
27.5°	3071.1	3064.0	3051.4	3033.5	3021.0	3008.4	3001.3	2990.5	2987.0	2976.2	2974.4
30°	2931.4	2922.5	2897.4	2890.3	2868.7	2856.2	2856.2	2841.9	2843.7	2836.5	2836.5
32.5°	2711.2	2696.9	2677.1	2662.8	2648.5	2641.3	2641.3	2636.0	2639.5	2639.5	2643.1
35°	2419.3	2399.6	2388.8	2379.9	2379.9	2387.0	2408.5	2413.9	2424.7	2433.6	2440.8
37.5°	2045.0	2043.2	2055.8	2066.5	2093.4	2123.8	2161.4	2193.7	2224.1	2245.6	2267.1
40°	1640.3	1685.1	1720.9	1771.1	1812.2	1871.3	1939.4	1994.9	2046.8	2084.4	2123.8
42.5°	1280.4	1337.7	1412.9	1486.3	1559.7	1640.3	1729.9	1806.9	1874.9	1926.8	1968.0
45°	997.4	1076.2	1167.6	1260.7	1355.6	1455.9	1549.0	1627.8	1699.4	1753.1	1794.3
47.5°	804.0	890.0	993.8	1095.9	1203.4	1309.0	1412.9	1481.0	1540.0	1583.0	1620.6
50°	664.3	755.7	864.9	981.3	1088.8	1194.4	1284.0	1350.2	1398.6	1436.2	1459.4
52.5°	555.1	651.8	768.2	884.6	992.0	1088.8	1169.4	1219.5	1258.9	1285.7	1307.2
55°	458.4	551.6	660.8	770.0	875.7	967.0	1033.2	1070.9	1101.3	1117.4	1129.9
57.5°	374.3	460.2	560.5	660.8	752.1	827.3	879.3	916.9	931.2	943.7	941.9
60°	293.7	374.3	465.6	551.6	630.3	691.2	728.8	750.3	761.0	766.4	762.8
62.5°	231.0	304.4	374.3	449.5	506.8	558.7	594.5	594.5	599.9	601.7	607.1
65°	171.9	227.4	288.3	343.8	390.4	424.4	444.1	449.5	456.7	454.9	451.3
67.5°	127.2	168.3	213.1	254.3	286.5	308.0	322.3	334.9	333.1	329.5	327.7
70°	87.8	114.6	154.0	179.1	202.3	223.9	227.4	229.2	231.0	232.8	229.2
72.5°	60.9	80.6	102.1	123.6	137.9	146.8	155.8	157.6	157.6	157.6	155.8
75°	30.5	41.2	60.9	69.8	82.4	86.0	93.1	93.1	98.5	91.3	89.5
77.5°	26.9	32.2	43.0	50.1	55.5	60.9	62.7	68.0	66.3	62.7	64.5
80°	16.1	19.7	26.9	30.5	37.6	39.4	41.2	43.0	41.2	43.0	43.0
82.5°	12.5	14.3	17.9	17.9	23.3	23.3	25.1	25.1	26.9	26.9	26.9
85°	7.1	12.5	10.7	21.5	14.3	14.3	17.9	21.5	17.9	17.9	21.5
87.5°	7.1	7.1	5.4	7.1	7.1	7.1	8.9	10.7	10.7	12.5	10.7
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: P249100

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3336.1	3336.1	3336.1	3336.1
2.5°	3341.5	3345.1	3339.7	3337.9
5°	3346.9	3346.9	3343.3	3343.3
7.5°	3346.9	3346.9	3341.5	3337.9
10°	3332.5	3332.5	3327.2	3323.6
12.5°	3305.7	3305.7	3303.9	3298.5
15°	3271.7	3271.7	3264.5	3259.2
17.5°	3225.1	3228.7	3219.8	3219.8
20°	3175.0	3173.2	3166.0	3162.5
22.5°	3123.1	3119.5	3117.7	3106.9
25°	3067.5	3064.0	3058.6	3053.2
27.5°	2972.6	2970.8	2965.5	2958.3
30°	2827.6	2825.8	2818.6	2818.6
32.5°	2639.5	2637.7	2630.6	2632.4
35°	2444.3	2451.5	2447.9	2440.8
37.5°	2281.4	2286.8	2290.4	2286.8
40°	2145.3	2161.4	2163.2	2166.8
42.5°	2000.3	2021.7	2028.9	2032.5
45°	1826.5	1846.2	1862.4	1858.8
47.5°	1649.3	1663.6	1677.9	1667.2
50°	1479.2	1488.1	1493.5	1493.5
52.5°	1318.0	1318.0	1316.2	1318.0
55°	1133.5	1133.5	1126.4	1129.9
57.5°	940.1	943.7	938.3	929.4
60°	761.0	752.1	748.5	743.2
62.5°	592.7	592.7	580.2	596.3
65°	444.1	438.7	433.3	431.5
67.5°	322.3	320.6	315.2	313.4
70°	227.4	220.3	218.5	214.9
72.5°	152.2	152.2	148.6	148.6
75°	93.1	84.2	82.4	84.2
77.5°	64.5	62.7	62.7	60.9
80°	43.0	41.2	44.8	39.4
82.5°	26.9	28.7	26.9	28.7
85°	17.9	21.5	19.7	19.7
87.5°	10.7	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)