

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: P249334

Luminaire Tested: **LSR8B60D010 EC8B60850 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249334
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 EC8B60850 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6261.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

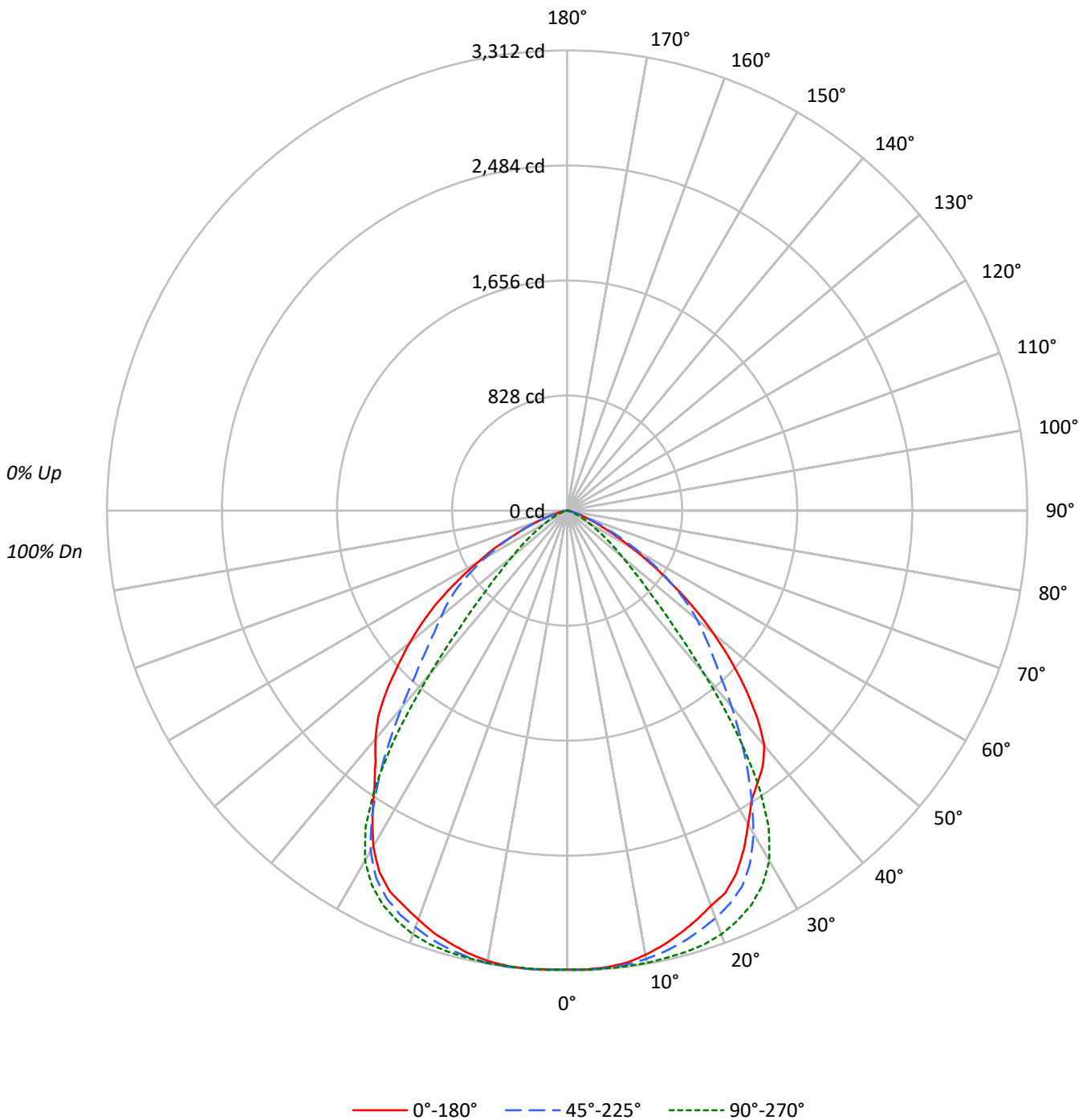
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249334

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P249334

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0GPH

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°	101865	101865	101865
5°	102090	102365	102474
10°	101661	103492	103048
15°	100532	105005	103025
20°	99325	106482	102758
25°	98037	106604	102865
30°	92748	103608	99378
35°	89981	90045	90982
40°	88865	61955	86369
45°	79181	37194	80267
50°	65843	24754	70942
55°	49380	17064	60154
60°	33464	11372	45385
65°	20182	7377	31178
70°	11189	3994	19186
75°	5075	1692	9925
80°	4404	1882	6926
85°	5024	2512	6899



TEST NUMBER: P249334

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.3	5.0
10°-20°	915.6	14.6
20°-30°	1389.7	22.2
30°-40°	1459.6	23.3
40°-50°	1094.3	17.5
50°-60°	702.1	11.2
60°-70°	300.4	4.8
70°-80°	71.0	1.1
80°-90°	13.2	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°	2620.5	41.9
0°-40°	4080.1	65.2
0°-60°	5876.5	93.9
0°-90°	6261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6261.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3303	3303	3303	3303	3303	
5°	3298	3303	3307	3312	3310	313
15°	3149	3215	3289	3268	3227	888
25°	2881	2982	3133	3076	3023	1316
35°	2390	2257	2392	2364	2417	1500
45°	1816	1484	853	1442	1841	1391
55°	918	918	317	958	1119	833
65°	277	326	101	420	427	295
75°	43	50	14	85	83	62
85°	14	9	7	14	20	15
90°	0	0	0	0	0	



TEST NUMBER: P249334

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4
2.5°	3305.2	3308.8	3307.0	3307.0	3305.2	3307.0	3307.0	3310.5	3310.5	3307.0	3305.2
5°	3298.1	3301.6	3301.6	3298.1	3298.1	3307.0	3301.6	3305.2	3305.2	3303.4	3303.4
7.5°	3282.2	3282.2	3289.2	3283.9	3283.9	3289.2	3287.5	3291.0	3294.6	3296.4	3296.4
10°	3246.7	3250.2	3252.0	3252.0	3253.8	3259.1	3262.6	3269.8	3273.3	3276.8	3278.6
12.5°	3202.4	3207.7	3209.5	3207.7	3213.0	3220.1	3229.0	3237.8	3243.2	3250.2	3255.6
15°	3149.1	3149.1	3152.7	3158.0	3161.6	3172.2	3181.1	3191.7	3205.9	3214.8	3223.6
17.5°	3090.7	3094.2	3099.5	3099.5	3106.6	3124.3	3129.7	3145.6	3161.6	3170.4	3188.2
20°	3026.8	3030.4	3035.7	3039.2	3048.1	3062.3	3072.9	3087.1	3104.8	3120.8	3138.5
22.5°	2977.2	2970.1	2973.6	2977.2	2986.1	2998.5	3010.9	3028.6	3046.3	3062.3	3080.0
25°	2881.4	2883.2	2888.5	2892.0	2902.7	2913.3	2927.5	2948.8	2964.7	2982.5	3002.0
27.5°	2752.0	2753.8	2762.6	2762.6	2771.5	2789.2	2798.1	2815.8	2837.1	2854.8	2877.9
30°	2604.8	2608.3	2608.3	2615.4	2620.7	2629.6	2638.5	2656.2	2666.9	2682.8	2714.8
32.5°	2470.1	2473.6	2471.8	2470.1	2464.7	2462.9	2461.2	2464.7	2468.3	2473.6	2486.0
35°	2390.3	2381.4	2374.3	2361.9	2347.7	2330.0	2314.0	2292.7	2273.2	2257.2	2239.5
37.5°	2314.0	2312.2	2301.6	2283.8	2255.5	2223.6	2186.3	2140.2	2094.1	2044.5	1996.6
40°	2207.6	2202.3	2193.4	2168.6	2136.7	2097.7	2048.0	1991.3	1916.8	1840.6	1762.5
42.5°	2026.7	2028.5	2017.9	1998.4	1968.2	1931.0	1879.6	1817.5	1737.7	1647.3	1546.2
45°	1815.7	1815.7	1812.2	1796.2	1775.0	1744.8	1705.8	1654.4	1576.4	1484.1	1376.0
47.5°	1595.9	1597.6	1592.3	1588.8	1579.9	1560.4	1532.0	1493.0	1438.1	1349.4	1241.2
50°	1372.5	1372.5	1381.3	1379.5	1379.5	1372.5	1360.0	1337.0	1289.1	1218.2	1117.1
52.5°	1149.0	1152.6	1157.9	1165.0	1173.8	1188.0	1173.8	1163.2	1133.0	1078.1	991.2
55°	918.5	922.1	930.9	943.3	954.0	968.2	971.7	971.7	955.7	918.5	852.9
57.5°	721.7	716.4	723.5	734.1	748.3	762.5	773.1	785.5	783.7	758.9	705.7
60°	542.6	544.4	549.7	560.3	571.0	583.4	597.6	608.2	613.5	601.1	567.4
62.5°	395.4	395.4	402.5	413.1	418.5	436.2	445.1	450.4	455.7	453.9	432.7
65°	276.6	280.1	283.7	289.0	294.3	305.0	310.3	320.9	324.5	326.3	310.3
67.5°	195.1	189.7	193.3	196.8	202.1	209.3	219.9	219.9	225.2	225.2	214.5
70°	124.1	124.1	125.9	131.2	134.8	136.5	140.1	143.6	148.9	147.2	147.2
72.5°	83.3	81.6	83.3	85.1	86.9	92.2	92.2	94.0	97.5	99.3	92.2
75°	42.6	44.3	47.9	46.1	51.4	47.9	49.6	55.0	53.2	49.6	49.6
77.5°	35.4	35.4	35.4	33.7	37.2	37.2	35.4	39.0	37.2	37.2	35.4
80°	24.8	26.6	24.8	23.0	24.8	23.0	23.0	23.0	23.0	23.0	21.3
82.5°	19.5	16.0	17.7	16.0	17.7	17.7	16.0	14.2	14.2	16.0	14.2
85°	14.2	10.6	12.4	12.4	10.6	10.6	10.6	10.6	10.6	8.9	8.9
87.5°	8.9	5.3	5.3	5.3	7.1	7.1	7.1	5.3	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



TEST NUMBER: P249334

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4
2.5°	3308.8	3307.0	3310.5	3308.8	3308.8	3307.0	3308.8	3307.0	3310.5	3303.4	3305.2
5°	3308.8	3305.2	3307.0	3308.8	3310.5	3307.0	3307.0	3307.0	3310.5	3307.0	3308.8
7.5°	3301.6	3299.9	3305.2	3308.8	3307.0	3305.2	3308.8	3307.0	3310.5	3308.8	3312.3
10°	3287.5	3289.2	3292.8	3298.1	3299.9	3301.6	3305.2	3305.2	3310.5	3303.4	3307.0
12.5°	3266.2	3273.3	3282.2	3285.7	3292.8	3292.8	3296.4	3298.1	3301.6	3299.9	3305.2
15°	3239.6	3248.5	3259.1	3268.0	3276.8	3282.2	3287.5	3289.2	3294.6	3289.2	3291.0
17.5°	3207.7	3218.3	3234.3	3244.9	3259.1	3264.4	3271.5	3275.1	3280.4	3276.8	3278.6
20°	3163.3	3175.8	3193.5	3209.5	3218.3	3230.7	3239.6	3244.9	3248.5	3244.9	3246.7
22.5°	3101.3	3119.0	3142.1	3154.5	3172.2	3182.9	3184.6	3197.0	3205.9	3197.0	3200.6
25°	3028.6	3046.3	3064.1	3090.7	3106.6	3119.0	3131.4	3133.2	3142.1	3140.3	3138.5
27.5°	2908.0	2931.1	2961.2	2982.5	3003.8	3023.3	3037.5	3041.0	3049.9	3046.3	3048.1
30°	2743.1	2767.9	2796.3	2830.0	2860.1	2879.6	2897.4	2909.8	2918.6	2913.3	2911.6
32.5°	2509.1	2533.9	2564.0	2597.7	2633.2	2661.5	2682.8	2698.8	2709.4	2705.9	2697.0
35°	2241.3	2248.4	2267.9	2294.5	2324.6	2354.8	2374.3	2392.0	2404.4	2408.0	2408.0
37.5°	1966.5	1943.4	1929.2	1929.2	1946.9	1959.3	1977.1	1987.7	2007.2	2014.3	2019.7
40°	1700.5	1647.3	1597.6	1560.4	1535.6	1533.8	1533.8	1539.1	1556.8	1579.9	1601.2
42.5°	1462.9	1377.7	1301.5	1232.4	1182.7	1154.3	1141.9	1143.7	1157.9	1179.2	1214.6
45°	1273.1	1166.8	1071.0	987.7	920.3	875.9	854.7	852.9	863.5	888.3	927.4
47.5°	1126.0	1012.5	904.3	808.6	735.9	688.0	663.2	656.1	663.2	686.2	732.3
50°	1003.6	886.6	774.9	675.6	597.6	547.9	524.9	516.0	524.9	544.4	590.5
52.5°	890.1	769.6	664.9	569.2	485.8	443.3	418.5	413.1	418.5	441.5	478.8
55°	758.9	656.1	553.2	457.5	384.8	342.2	322.7	317.4	322.7	344.0	383.0
57.5°	629.5	540.8	450.4	363.5	301.5	264.2	246.5	239.4	251.8	266.0	312.1
60°	508.9	438.0	361.7	285.5	234.1	200.4	186.2	184.4	188.0	205.7	237.6
62.5°	399.0	340.5	280.1	218.1	175.5	161.4	143.6	141.9	145.4	156.0	180.9
65°	287.3	250.0	203.9	159.6	125.9	106.4	99.3	101.1	104.6	111.7	134.8
67.5°	200.4	173.8	141.9	111.7	86.9	78.0	70.9	69.2	70.9	83.3	95.8
70°	134.8	118.8	95.8	85.1	60.3	47.9	49.6	44.3	51.4	51.4	62.0
72.5°	88.6	78.0	63.8	49.6	42.6	33.7	33.7	31.9	35.4	37.2	46.1
75°	46.1	35.4	35.4	24.8	17.7	8.9	16.0	14.2	12.4	14.2	17.7
77.5°	31.9	26.6	24.8	19.5	17.7	14.2	14.2	14.2	14.2	16.0	17.7
80°	19.5	19.5	14.2	12.4	10.6	8.9	10.6	10.6	10.6	10.6	12.4
82.5°	12.4	10.6	10.6	8.9	8.9	7.1	7.1	7.1	7.1	7.1	10.6
85°	10.6	7.1	7.1	5.3	7.1	12.4	5.3	7.1	7.1	7.1	5.3
87.5°	3.6	5.3	5.3	5.3	3.6	1.8	3.6	5.3	5.3	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



TEST NUMBER: P249334

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4
2.5°	3308.8	3310.5	3310.5	3308.8	3308.8	3305.2	3312.3	3307.0	3308.8	3315.8	3310.5
5°	3312.3	3314.1	3314.1	3312.3	3312.3	3312.3	3314.1	3314.1	3312.3	3310.5	3314.1
7.5°	3319.4	3317.6	3317.6	3314.1	3314.1	3310.5	3314.1	3308.8	3312.3	3308.8	3314.1
10°	3310.5	3312.3	3310.5	3308.8	3308.8	3307.0	3307.0	3301.6	3303.4	3298.1	3301.6
12.5°	3305.2	3303.4	3303.4	3299.9	3296.4	3292.8	3291.0	3285.7	3285.7	3273.3	3278.6
15°	3291.0	3292.8	3287.5	3280.4	3276.8	3268.0	3264.4	3257.3	3250.2	3241.4	3243.2
17.5°	3278.6	3273.3	3266.2	3259.1	3244.9	3237.8	3230.7	3220.1	3216.5	3205.9	3202.4
20°	3241.4	3237.8	3229.0	3216.5	3207.7	3191.7	3184.6	3174.0	3165.1	3154.5	3149.1
22.5°	3193.5	3189.9	3179.3	3166.9	3152.7	3145.6	3138.5	3119.0	3110.1	3099.5	3097.7
25°	3133.2	3127.9	3117.3	3103.1	3096.0	3076.5	3069.4	3055.2	3051.7	3041.0	3039.2
27.5°	3041.0	3033.9	3021.5	3003.8	2991.3	2978.9	2971.9	2961.2	2957.7	2947.0	2945.3
30°	2902.7	2893.8	2869.0	2861.9	2840.6	2828.2	2828.2	2814.0	2815.8	2808.7	2808.7
32.5°	2684.6	2670.4	2650.9	2636.7	2622.5	2615.4	2615.4	2610.1	2613.7	2613.7	2617.2
35°	2395.6	2376.1	2365.4	2356.6	2356.6	2363.6	2384.9	2390.3	2400.9	2409.7	2416.9
37.5°	2024.9	2023.2	2035.6	2046.3	2072.8	2103.0	2140.2	2172.2	2202.3	2223.6	2244.8
40°	1624.2	1668.6	1704.0	1753.7	1794.4	1853.0	1920.3	1975.3	2026.7	2064.0	2103.0
42.5°	1267.8	1324.6	1399.0	1471.7	1544.4	1624.2	1712.9	1789.1	1856.5	1907.9	1948.7
45°	987.7	1065.7	1156.1	1248.3	1342.3	1441.6	1533.8	1611.8	1682.8	1735.9	1776.7
47.5°	796.1	881.3	984.1	1085.2	1191.6	1296.2	1399.0	1466.4	1524.9	1567.5	1604.7
50°	657.8	748.3	856.5	971.7	1078.1	1182.7	1271.4	1337.0	1384.9	1422.1	1445.1
52.5°	549.7	645.4	760.7	875.9	982.3	1078.1	1157.9	1207.5	1246.5	1273.1	1294.4
55°	453.9	546.2	654.3	762.5	867.1	957.5	1023.1	1060.4	1090.5	1106.5	1118.9
57.5°	370.6	455.7	555.0	654.3	744.7	819.2	870.6	907.9	922.1	934.5	932.7
60°	290.8	370.6	461.0	546.2	624.2	684.4	721.7	743.0	753.6	758.9	755.4
62.5°	228.7	301.5	370.6	445.1	501.8	553.2	588.7	588.7	594.0	595.8	601.1
65°	170.2	225.2	285.5	340.5	386.5	420.2	439.8	445.1	452.2	450.4	446.8
67.5°	125.9	166.7	211.0	251.8	283.7	305.0	319.2	331.6	329.8	326.3	324.5
70°	86.9	113.5	152.5	177.3	200.4	221.7	225.2	227.0	228.7	230.5	227.0
72.5°	60.3	79.8	101.1	122.4	136.5	145.4	154.3	156.0	156.0	156.0	154.3
75°	30.2	40.8	60.3	69.2	81.6	85.1	92.2	92.2	97.5	90.4	88.6
77.5°	26.6	31.9	42.6	49.6	55.0	60.3	62.0	67.4	65.6	62.0	63.8
80°	16.0	19.5	26.6	30.2	37.2	39.0	40.8	42.6	40.8	42.6	42.6
82.5°	12.4	14.2	17.7	17.7	23.0	23.0	24.8	24.8	26.6	26.6	26.6
85°	7.1	12.4	10.6	21.3	14.2	14.2	17.7	21.3	17.7	17.7	21.3
87.5°	7.1	7.1	5.3	7.1	7.1	7.1	8.9	10.6	10.6	12.4	10.6
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: P249334

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3303.4	3303.4	3303.4	3303.4
2.5°	3308.8	3312.3	3307.0	3305.2
5°	3314.1	3314.1	3310.5	3310.5
7.5°	3314.1	3314.1	3308.8	3305.2
10°	3299.9	3299.9	3294.6	3291.0
12.5°	3273.3	3273.3	3271.5	3266.2
15°	3239.6	3239.6	3232.5	3227.2
17.5°	3193.5	3197.0	3188.2	3188.2
20°	3143.8	3142.1	3135.0	3131.4
22.5°	3092.4	3088.9	3087.1	3076.5
25°	3037.5	3033.9	3028.6	3023.3
27.5°	2943.5	2941.7	2936.4	2929.3
30°	2799.8	2798.1	2791.0	2791.0
32.5°	2613.7	2611.9	2604.8	2606.6
35°	2420.4	2427.5	2423.9	2416.9
37.5°	2259.0	2264.4	2267.9	2264.4
40°	2124.3	2140.2	2142.0	2145.6
42.5°	1980.6	2001.9	2009.0	2012.5
45°	1808.6	1828.1	1844.1	1840.6
47.5°	1633.1	1647.3	1661.5	1650.8
50°	1464.7	1473.5	1478.8	1478.8
52.5°	1305.1	1305.1	1303.3	1305.1
55°	1122.4	1122.4	1115.3	1118.9
57.5°	930.9	934.5	929.1	920.3
60°	753.6	744.7	741.2	735.9
62.5°	586.9	586.9	574.5	590.5
65°	439.8	434.4	429.1	427.3
67.5°	319.2	317.4	312.1	310.3
70°	225.2	218.1	216.3	212.8
72.5°	150.7	150.7	147.2	147.2
75°	92.2	83.3	81.6	83.3
77.5°	63.8	62.0	62.0	60.3
80°	42.6	40.8	44.3	39.0
82.5°	26.6	28.4	26.6	28.4
85°	17.7	21.3	19.5	19.5
87.5°	10.6	10.6	10.6	10.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)