

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: P#

Luminaire Tested: **LD4C60D010 EX4C609030 4LBSQLWWH**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C60D010 EX4C609030 4LBSQLWWH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

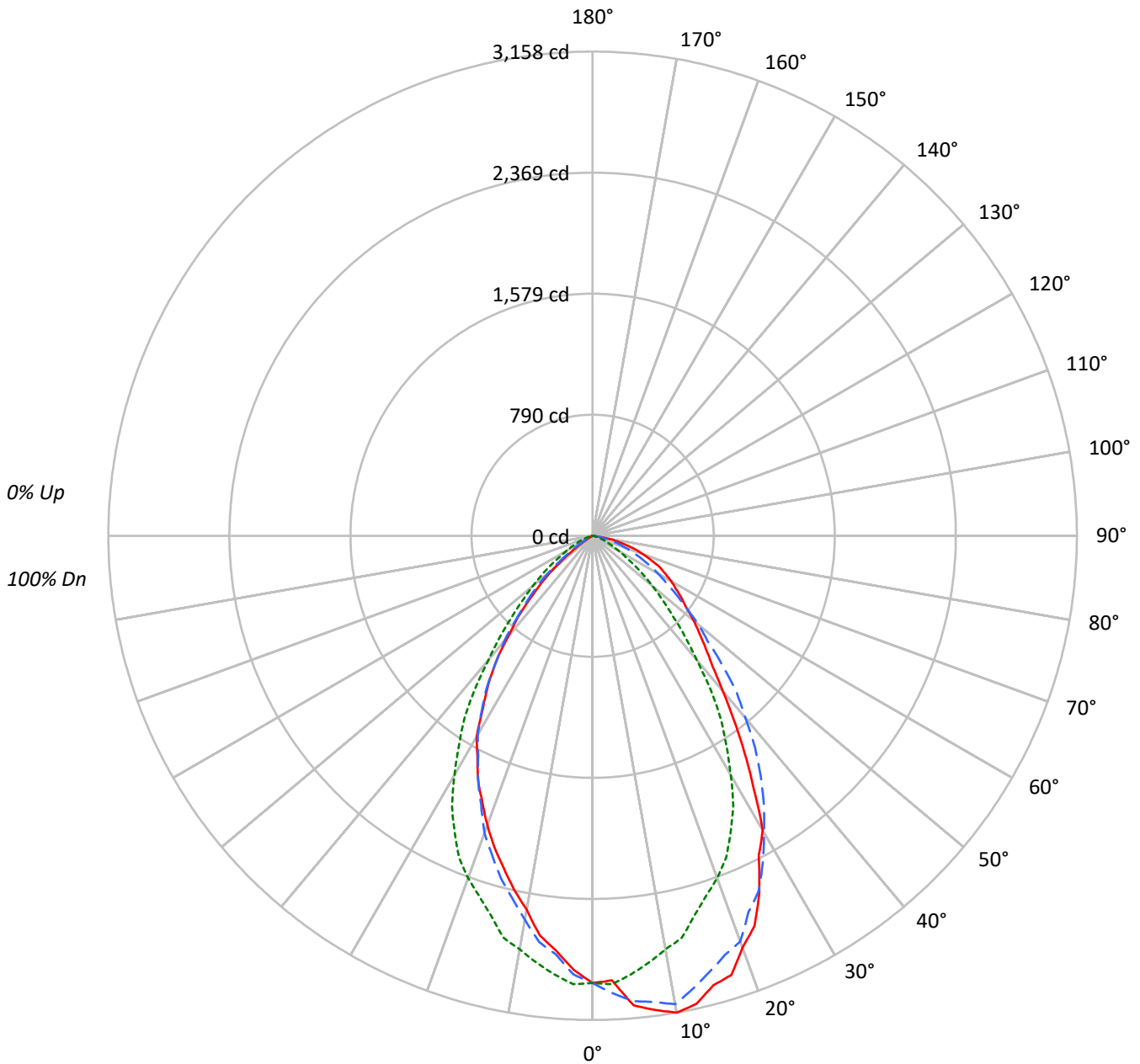
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4181.0 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
Input Voltage (V):
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: P#
CATALOG NUMBER: LD4C60D010 EX4C609030 4LBSQLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C60D010 EX4C609030 4LBSQLWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 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 | 101 | 102 | 100 | 98 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | | | | | | | | | | | | | | | | | |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 | | | | | | | | | | | | | | | | | | | |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 4 | 91 | 81 | 74 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 64 | | | | | | | | | | | | | | | | | | | |
| 5 | 85 | 75 | 67 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 60 | 68 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 6 | 80 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 53 | | | | | | | | | | | | | | | | | | | |
| 7 | 75 | 63 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 54 | 50 | 48 | | | | | | | | | | | | | | | | | | | |
| 8 | 70 | 59 | 52 | 47 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 | | | | | | | | | | | | | | | | | | | |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 43 | 52 | 46 | 42 | 51 | 46 | 42 | 41 | | | | | | | | | | | | | | | | | | | |
| 10 | 62 | 51 | 44 | 40 | 61 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 38 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 281439 | 281439 | 281439 |
| 5° | 297759 | 278117 | 263210 |
| 10° | 309432 | 268311 | 242602 |
| 15° | 303244 | 256075 | 223939 |
| 20° | 293402 | 243837 | 206133 |
| 25° | 273676 | 226757 | 188036 |
| 30° | 247053 | 200671 | 168338 |
| 35° | 203508 | 171787 | 139653 |
| 40° | 166087 | 132595 | 107492 |
| 45° | 142692 | 100704 | 77316 |
| 50° | 129155 | 76661 | 48831 |
| 55° | 118850 | 55295 | 17663 |
| 60° | 114069 | 37785 | 2702 |
| 65° | 110183 | 25548 | 822 |
| 70° | 98655 | 17745 | 1016 |
| 75° | 80861 | 9134 | 0 |
| 80° | 50565 | 3890 | 0 |
| 85° | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: LD4C60D010 EX4C609030 4LBSQLWWH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 273.3 | 6.5 |
| 10°-20° | 736.3 | 17.6 |
| 20°-30° | 983.2 | 23.5 |
| 30°-40° | 933.3 | 22.3 |
| 40°-50° | 645.1 | 15.4 |
| 50°-60° | 356.5 | 8.5 |
| 60°-70° | 177.0 | 4.2 |
| 70°-80° | 69.7 | 1.7 |
| 80°-90° | 6.6 | 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° | 1992.7 | 47.7 |
| 0°-40° | 2926.0 | 70.0 |
| 0°-60° | 3927.6 | 93.9 |
| 0°-90° | 4181.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4181.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2917 | 2917 | 2917 | 2917 | 2917 | |
| 5° | 3074 | 3046 | 2871 | 2742 | 2718 | 294 |
| 15° | 3036 | 2945 | 2564 | 2312 | 2242 | 859 |
| 25° | 2571 | 2560 | 2130 | 1766 | 1766 | 1172 |
| 35° | 1728 | 1910 | 1458 | 1200 | 1186 | 1082 |
| 45° | 1046 | 1200 | 738 | 605 | 567 | 816 |
| 55° | 706 | 665 | 329 | 168 | 105 | 636 |
| 65° | 483 | 350 | 112 | 4 | 4 | 468 |
| 75° | 217 | 133 | 24 | 0 | 0 | 231 |
| 85° | 0 | 4 | 0 | 0 | 0 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: LD4C60D010 EX4C609030 4LBSQLWWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 |
| 2.5° | 2902.8 | 2983.2 | 2990.2 | 2983.2 | 2993.8 | 2990.2 | 3007.7 | 2990.2 | 3011.3 | 2979.8 | 2986.8 |
| 5° | 3074.2 | 3042.7 | 3109.1 | 3074.2 | 3074.2 | 3070.8 | 3060.2 | 3056.7 | 3070.8 | 3025.3 | 3046.2 |
| 7.5° | 3119.7 | 3165.2 | 3224.6 | 3151.2 | 3154.6 | 3154.6 | 3133.7 | 3126.7 | 3126.7 | 3042.7 | 3067.2 |
| 10° | 3158.2 | 3130.1 | 3161.6 | 3133.7 | 3158.2 | 3154.6 | 3168.6 | 3123.1 | 3154.6 | 3105.7 | 3102.2 |
| 12.5° | 3126.7 | 3116.1 | 3158.2 | 3112.7 | 3098.7 | 3102.2 | 3084.7 | 3074.2 | 3084.7 | 3028.7 | 3025.3 |
| 15° | 3035.7 | 3046.2 | 3109.1 | 3060.2 | 3053.2 | 3046.2 | 3025.3 | 2990.2 | 3018.3 | 2941.3 | 2944.9 |
| 17.5° | 3004.3 | 2986.8 | 2997.3 | 2955.3 | 2965.8 | 2958.8 | 2955.3 | 2923.9 | 2916.8 | 2867.8 | 2867.8 |
| 20° | 2857.4 | 2895.8 | 2895.8 | 2867.8 | 2867.8 | 2864.4 | 2818.9 | 2846.9 | 2815.4 | 2801.4 | 2815.4 |
| 22.5° | 2755.9 | 2759.5 | 2759.5 | 2734.9 | 2738.5 | 2724.5 | 2700.0 | 2682.5 | 2700.0 | 2682.5 | 2654.5 |
| 25° | 2570.6 | 2577.6 | 2619.6 | 2574.1 | 2567.1 | 2581.1 | 2560.1 | 2549.5 | 2546.1 | 2504.2 | 2560.1 |
| 27.5° | 2346.8 | 2416.6 | 2413.2 | 2395.7 | 2416.6 | 2388.7 | 2378.3 | 2381.7 | 2392.2 | 2388.7 | 2402.7 |
| 30° | 2217.4 | 2227.8 | 2238.4 | 2224.4 | 2227.8 | 2217.4 | 2217.4 | 2220.8 | 2248.8 | 2238.4 | 2234.8 |
| 32.5° | 1955.0 | 1990.0 | 2018.0 | 2018.0 | 2021.5 | 2032.0 | 2028.5 | 2101.9 | 2119.4 | 2084.5 | 2077.5 |
| 35° | 1727.7 | 1752.2 | 1776.6 | 1780.2 | 1825.7 | 1829.1 | 1832.7 | 1853.6 | 1902.5 | 1913.1 | 1909.5 |
| 37.5° | 1510.9 | 1535.3 | 1542.3 | 1573.8 | 1598.3 | 1622.7 | 1650.8 | 1678.8 | 1720.7 | 1755.6 | 1738.2 |
| 40° | 1318.6 | 1329.0 | 1346.5 | 1360.5 | 1409.4 | 1409.4 | 1423.4 | 1479.4 | 1524.9 | 1552.9 | 1549.3 |
| 42.5° | 1157.7 | 1161.1 | 1175.1 | 1199.6 | 1245.1 | 1234.6 | 1245.1 | 1283.6 | 1349.9 | 1353.5 | 1392.0 |
| 45° | 1045.7 | 1042.2 | 1052.7 | 1056.2 | 1084.2 | 1098.2 | 1105.2 | 1133.2 | 1189.1 | 1196.1 | 1199.6 |
| 47.5° | 944.3 | 940.8 | 958.3 | 965.3 | 975.7 | 989.7 | 989.7 | 993.3 | 1014.2 | 1031.8 | 1017.8 |
| 50° | 860.4 | 860.4 | 860.4 | 867.3 | 884.9 | 881.3 | 884.9 | 898.9 | 909.3 | 902.3 | 898.9 |
| 52.5° | 769.4 | 783.3 | 793.9 | 797.5 | 800.9 | 800.9 | 804.4 | 797.5 | 793.9 | 783.3 | 762.4 |
| 55° | 706.5 | 720.5 | 720.5 | 720.5 | 720.5 | 734.4 | 717.0 | 720.5 | 720.5 | 692.5 | 664.6 |
| 57.5° | 643.6 | 657.6 | 668.0 | 654.0 | 668.0 | 654.0 | 647.0 | 643.6 | 636.5 | 608.5 | 566.6 |
| 60° | 591.1 | 598.1 | 594.5 | 591.1 | 598.1 | 587.5 | 580.6 | 566.6 | 559.6 | 521.1 | 493.1 |
| 62.5° | 531.6 | 535.1 | 538.6 | 531.6 | 524.7 | 521.1 | 507.1 | 486.1 | 472.2 | 440.7 | 416.1 |
| 65° | 482.6 | 472.2 | 468.6 | 465.2 | 458.2 | 447.6 | 437.2 | 412.7 | 402.2 | 374.2 | 349.7 |
| 67.5° | 409.1 | 405.7 | 412.7 | 402.2 | 384.8 | 384.8 | 374.2 | 353.2 | 328.7 | 311.3 | 286.8 |
| 70° | 349.7 | 346.3 | 339.3 | 328.7 | 325.3 | 311.3 | 311.3 | 286.8 | 279.8 | 248.3 | 227.3 |
| 72.5° | 286.8 | 286.8 | 276.2 | 265.8 | 255.3 | 248.3 | 244.9 | 227.3 | 216.9 | 199.4 | 181.8 |
| 75° | 216.9 | 216.9 | 213.3 | 202.8 | 195.8 | 188.8 | 185.4 | 171.4 | 160.9 | 143.5 | 132.9 |
| 77.5° | 153.9 | 153.9 | 139.9 | 132.9 | 136.3 | 129.3 | 122.4 | 118.9 | 115.4 | 105.0 | 91.0 |
| 80° | 91.0 | 87.4 | 77.0 | 80.4 | 77.0 | 77.0 | 73.4 | 69.9 | 62.9 | 55.9 | 48.9 |
| 82.5° | 24.5 | 28.0 | 28.0 | 28.0 | 31.5 | 24.5 | 24.5 | 24.5 | 28.0 | 28.0 | 17.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 3.6 | 3.6 |
| 87.5° | 3.6 | 7.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 10.6 | 10.6 | 10.6 | 7.0 |
| 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: P#

CATALOG NUMBER: LD4C60D010 EX4C609030 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 |
| 2.5° | 2951.8 | 2948.3 | 2951.8 | 2927.3 | 2983.2 | 2941.3 | 2934.3 | 2927.3 | 2951.8 | 2927.3 | 2892.4 |
| 5° | 3014.7 | 2979.8 | 2969.2 | 2958.8 | 2990.2 | 2941.3 | 2930.9 | 2934.3 | 2916.8 | 2871.4 | 2874.8 |
| 7.5° | 3035.7 | 3004.3 | 2972.8 | 2906.3 | 2934.3 | 2923.9 | 2895.8 | 2874.8 | 2846.9 | 2808.4 | 2801.4 |
| 10° | 3042.7 | 3007.7 | 2962.3 | 2941.3 | 2899.4 | 2885.4 | 2874.8 | 2839.9 | 2805.0 | 2738.5 | 2721.0 |
| 12.5° | 3021.7 | 2979.8 | 2923.9 | 2906.3 | 2874.8 | 2829.3 | 2805.0 | 2769.9 | 2738.5 | 2686.0 | 2647.5 |
| 15° | 2930.9 | 2895.8 | 2878.4 | 2818.9 | 2805.0 | 2776.9 | 2727.9 | 2679.0 | 2633.5 | 2563.5 | 2542.6 |
| 17.5° | 2825.9 | 2811.9 | 2794.4 | 2748.9 | 2745.5 | 2717.5 | 2672.0 | 2630.0 | 2570.6 | 2462.1 | 2427.2 |
| 20° | 2717.5 | 2717.5 | 2661.5 | 2644.1 | 2679.0 | 2623.0 | 2588.0 | 2549.5 | 2427.2 | 2374.7 | 2311.8 |
| 22.5° | 2637.1 | 2598.6 | 2567.1 | 2539.1 | 2542.6 | 2507.6 | 2458.7 | 2381.7 | 2336.2 | 2273.3 | 2199.9 |
| 25° | 2479.7 | 2493.6 | 2423.8 | 2413.2 | 2423.8 | 2343.2 | 2318.8 | 2255.8 | 2189.3 | 2129.9 | 2073.9 |
| 27.5° | 2381.7 | 2343.2 | 2297.8 | 2259.3 | 2259.3 | 2227.8 | 2157.9 | 2144.0 | 2042.4 | 1986.5 | 1916.5 |
| 30° | 2234.8 | 2206.9 | 2168.4 | 2112.4 | 2105.5 | 2080.9 | 2025.0 | 1990.0 | 1885.1 | 1801.1 | 1762.6 |
| 32.5° | 2049.4 | 2039.0 | 2007.5 | 1944.6 | 1923.6 | 1895.5 | 1825.7 | 1766.2 | 1717.3 | 1622.7 | 1577.4 |
| 35° | 1916.5 | 1878.1 | 1811.7 | 1759.2 | 1741.7 | 1692.8 | 1636.7 | 1594.8 | 1542.3 | 1458.4 | 1399.0 |
| 37.5° | 1717.3 | 1678.8 | 1615.7 | 1552.9 | 1552.9 | 1503.9 | 1426.9 | 1385.0 | 1311.6 | 1262.5 | 1213.6 |
| 40° | 1542.3 | 1493.4 | 1430.5 | 1357.1 | 1346.5 | 1276.5 | 1245.1 | 1175.1 | 1129.6 | 1052.7 | 1045.7 |
| 42.5° | 1346.5 | 1301.0 | 1245.1 | 1189.1 | 1147.1 | 1112.2 | 1031.8 | 979.3 | 930.4 | 891.9 | 881.3 |
| 45° | 1168.1 | 1108.6 | 1059.7 | 989.7 | 947.8 | 905.8 | 853.4 | 818.4 | 779.9 | 738.0 | 713.5 |
| 47.5° | 1014.2 | 965.3 | 895.3 | 832.4 | 790.5 | 769.4 | 709.9 | 671.5 | 640.0 | 612.1 | 594.5 |
| 50° | 856.9 | 797.5 | 759.0 | 688.9 | 682.0 | 633.0 | 584.1 | 552.6 | 535.1 | 510.7 | 486.1 |
| 52.5° | 738.0 | 682.0 | 629.5 | 577.1 | 549.0 | 531.6 | 486.1 | 454.6 | 430.2 | 412.7 | 398.7 |
| 55° | 622.5 | 573.6 | 531.6 | 479.2 | 461.6 | 437.2 | 384.8 | 377.8 | 353.2 | 328.7 | 311.3 |
| 57.5° | 535.1 | 489.6 | 440.7 | 405.7 | 374.2 | 356.8 | 314.7 | 286.8 | 272.8 | 251.8 | 234.3 |
| 60° | 454.6 | 405.7 | 367.2 | 325.3 | 311.3 | 286.8 | 255.3 | 230.9 | 213.3 | 195.8 | 178.4 |
| 62.5° | 381.2 | 339.3 | 297.3 | 262.3 | 241.3 | 227.3 | 202.8 | 181.8 | 164.4 | 150.4 | 136.3 |
| 65° | 314.7 | 276.2 | 241.3 | 206.4 | 195.8 | 178.4 | 160.9 | 143.5 | 129.3 | 111.9 | 98.0 |
| 67.5° | 258.8 | 223.9 | 188.8 | 164.4 | 153.9 | 146.9 | 125.9 | 108.4 | 98.0 | 87.4 | 73.4 |
| 70° | 202.8 | 178.4 | 150.4 | 129.3 | 118.9 | 108.4 | 94.4 | 84.0 | 69.9 | 62.9 | 52.5 |
| 72.5° | 157.4 | 136.3 | 111.9 | 94.4 | 87.4 | 80.4 | 66.5 | 55.9 | 48.9 | 41.9 | 34.9 |
| 75° | 111.9 | 94.4 | 80.4 | 62.9 | 59.5 | 55.9 | 45.5 | 38.5 | 31.5 | 24.5 | 21.0 |
| 77.5° | 77.0 | 62.9 | 48.9 | 41.9 | 38.5 | 31.5 | 28.0 | 21.0 | 17.5 | 14.0 | 10.6 |
| 80° | 41.9 | 31.5 | 24.5 | 21.0 | 17.5 | 14.0 | 14.0 | 10.6 | 7.0 | 7.0 | 3.6 |
| 82.5° | 14.0 | 10.6 | 7.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 0.0 | 3.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 0.0 | 0.0 | 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: P#

CATALOG NUMBER: LD4C60D010 EX4C609030 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 |
| 2.5° | 2913.3 | 2874.8 | 2885.4 | 2885.4 | 2878.4 | 2878.4 | 2871.4 | 2860.9 | 2864.4 | 2843.3 | 2798.0 |
| 5° | 2881.8 | 2832.9 | 2825.9 | 2832.9 | 2805.0 | 2798.0 | 2784.0 | 2805.0 | 2741.9 | 2766.4 | 2738.5 |
| 7.5° | 2791.0 | 2745.5 | 2734.9 | 2759.5 | 2724.5 | 2703.4 | 2700.0 | 2727.9 | 2672.0 | 2644.1 | 2612.6 |
| 10° | 2689.4 | 2672.0 | 2640.5 | 2623.0 | 2612.6 | 2616.0 | 2588.0 | 2553.1 | 2542.6 | 2535.6 | 2507.6 |
| 12.5° | 2598.6 | 2560.1 | 2532.1 | 2511.2 | 2504.2 | 2504.2 | 2458.7 | 2451.7 | 2420.2 | 2413.2 | 2371.3 |
| 15° | 2490.1 | 2444.7 | 2427.2 | 2399.2 | 2374.7 | 2388.7 | 2336.2 | 2322.2 | 2311.8 | 2266.3 | 2273.3 |
| 17.5° | 2395.7 | 2346.8 | 2304.8 | 2287.3 | 2266.3 | 2245.4 | 2196.3 | 2206.9 | 2182.3 | 2182.3 | 2119.4 |
| 20° | 2273.3 | 2220.8 | 2189.3 | 2154.4 | 2154.4 | 2126.4 | 2091.5 | 2094.9 | 2063.4 | 2032.0 | 1976.0 |
| 22.5° | 2144.0 | 2087.9 | 2049.4 | 2035.4 | 2000.5 | 1993.5 | 1951.6 | 1941.0 | 1899.1 | 1902.5 | 1853.6 |
| 25° | 2007.5 | 1951.6 | 1899.1 | 1902.5 | 1871.2 | 1857.2 | 1832.7 | 1783.7 | 1766.2 | 1745.2 | 1731.3 |
| 27.5° | 1846.6 | 1808.1 | 1762.6 | 1759.2 | 1699.7 | 1703.2 | 1671.8 | 1657.8 | 1615.7 | 1626.3 | 1594.8 |
| 30° | 1699.7 | 1643.8 | 1601.8 | 1591.4 | 1566.8 | 1559.8 | 1510.9 | 1489.8 | 1497.0 | 1468.9 | 1451.5 |
| 32.5° | 1549.3 | 1465.4 | 1447.9 | 1426.9 | 1413.0 | 1395.4 | 1360.5 | 1374.5 | 1342.9 | 1349.9 | 1322.0 |
| 35° | 1349.9 | 1315.0 | 1269.5 | 1269.5 | 1255.5 | 1241.5 | 1217.2 | 1231.1 | 1199.6 | 1185.6 | 1157.7 |
| 37.5° | 1182.1 | 1150.7 | 1105.2 | 1119.2 | 1094.7 | 1073.7 | 1052.7 | 1056.2 | 1028.2 | 1024.8 | 996.7 |
| 40° | 1000.3 | 982.7 | 951.3 | 951.3 | 933.8 | 933.8 | 923.2 | 912.8 | 895.3 | 874.3 | 842.8 |
| 42.5° | 828.8 | 814.9 | 800.9 | 804.4 | 779.9 | 800.9 | 772.9 | 790.5 | 734.4 | 731.0 | 709.9 |
| 45° | 702.9 | 671.5 | 675.0 | 661.0 | 647.0 | 654.0 | 629.5 | 636.5 | 605.1 | 598.1 | 577.1 |
| 47.5° | 570.1 | 559.6 | 538.6 | 531.6 | 531.6 | 521.1 | 510.7 | 507.1 | 493.1 | 475.6 | 447.6 |
| 50° | 468.6 | 430.2 | 423.1 | 412.7 | 405.7 | 405.7 | 391.7 | 370.8 | 374.2 | 356.8 | 328.7 |
| 52.5° | 367.2 | 335.7 | 321.7 | 318.3 | 304.3 | 297.3 | 279.8 | 265.8 | 255.3 | 248.3 | 230.9 |
| 55° | 283.2 | 255.3 | 237.9 | 237.9 | 216.9 | 216.9 | 192.4 | 181.8 | 167.9 | 153.9 | 143.5 |
| 57.5° | 213.3 | 199.4 | 181.8 | 167.9 | 160.9 | 143.5 | 129.3 | 111.9 | 101.4 | 80.4 | 66.5 |
| 60° | 160.9 | 146.9 | 129.3 | 118.9 | 111.9 | 94.4 | 77.0 | 62.9 | 38.5 | 31.5 | 28.0 |
| 62.5° | 118.9 | 105.0 | 87.4 | 80.4 | 73.4 | 59.5 | 41.9 | 21.0 | 10.6 | 10.6 | 10.6 |
| 65° | 87.4 | 69.9 | 55.9 | 48.9 | 41.9 | 31.5 | 14.0 | 7.0 | 3.6 | 3.6 | 3.6 |
| 67.5° | 59.5 | 45.5 | 31.5 | 28.0 | 21.0 | 10.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 70° | 38.5 | 28.0 | 14.0 | 10.6 | 7.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 72.5° | 24.5 | 14.0 | 7.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 14.0 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 7.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 3.6 | 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: P#

CATALOG NUMBER: LD4C60D010 EX4C609030 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 | 2916.8 |
| 2.5° | 2846.9 | 2822.4 | 2836.3 | 2805.0 | 2818.9 | 2843.3 | 2825.9 | 2832.9 |
| 5° | 2748.9 | 2734.9 | 2717.5 | 2672.0 | 2707.0 | 2734.9 | 2721.0 | 2717.5 |
| 7.5° | 2644.1 | 2595.0 | 2619.6 | 2605.6 | 2598.6 | 2626.6 | 2595.0 | 2630.0 |
| 10° | 2535.6 | 2500.6 | 2497.2 | 2472.7 | 2472.7 | 2493.6 | 2497.2 | 2476.1 |
| 12.5° | 2374.7 | 2357.3 | 2357.3 | 2353.7 | 2350.2 | 2371.3 | 2374.7 | 2364.3 |
| 15° | 2259.3 | 2252.3 | 2234.8 | 2231.4 | 2210.4 | 2241.8 | 2245.4 | 2241.8 |
| 17.5° | 2119.4 | 2122.9 | 2105.5 | 2105.5 | 2119.4 | 2129.9 | 2101.9 | 2129.9 |
| 20° | 2025.0 | 2007.5 | 2000.5 | 1969.0 | 1986.5 | 2004.1 | 2004.1 | 2007.5 |
| 22.5° | 1888.6 | 1860.6 | 1871.2 | 1853.6 | 1843.1 | 1867.6 | 1867.6 | 1878.1 |
| 25° | 1734.7 | 1734.7 | 1741.7 | 1731.3 | 1738.2 | 1752.2 | 1741.7 | 1766.2 |
| 27.5° | 1587.8 | 1601.8 | 1601.8 | 1587.8 | 1594.8 | 1636.7 | 1654.3 | 1626.3 |
| 30° | 1451.5 | 1454.9 | 1465.4 | 1458.4 | 1479.4 | 1493.4 | 1489.8 | 1510.9 |
| 32.5° | 1297.6 | 1315.0 | 1322.0 | 1311.6 | 1318.6 | 1349.9 | 1332.5 | 1329.0 |
| 35° | 1178.7 | 1147.1 | 1143.7 | 1147.1 | 1161.1 | 1168.1 | 1161.1 | 1185.6 |
| 37.5° | 1007.2 | 996.7 | 982.7 | 986.3 | 996.7 | 1010.8 | 1017.8 | 1035.2 |
| 40° | 842.8 | 828.8 | 828.8 | 825.4 | 814.9 | 853.4 | 853.4 | 853.4 |
| 42.5° | 699.5 | 695.9 | 678.5 | 678.5 | 692.5 | 702.9 | 695.9 | 720.5 |
| 45° | 573.6 | 559.6 | 549.0 | 549.0 | 559.6 | 559.6 | 570.1 | 566.6 |
| 47.5° | 451.2 | 437.2 | 440.7 | 430.2 | 440.7 | 454.6 | 437.2 | 440.7 |
| 50° | 339.3 | 339.3 | 332.3 | 339.3 | 335.7 | 339.3 | 332.3 | 325.3 |
| 52.5° | 230.9 | 262.3 | 265.8 | 251.8 | 220.3 | 192.4 | 174.8 | 188.8 |
| 55° | 132.9 | 118.9 | 118.9 | 115.4 | 108.4 | 105.0 | 94.4 | 105.0 |
| 57.5° | 66.5 | 59.5 | 59.5 | 59.5 | 55.9 | 52.5 | 45.5 | 45.5 |
| 60° | 28.0 | 24.5 | 24.5 | 21.0 | 17.5 | 14.0 | 10.6 | 14.0 |
| 62.5° | 10.6 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 65° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 67.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 70° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)