

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: P799460

Luminaire Tested: **LD6C20D010 EU6209050 6LBMDDWGPB**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C20D010 EU6209050 6LBMDDWGPH
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

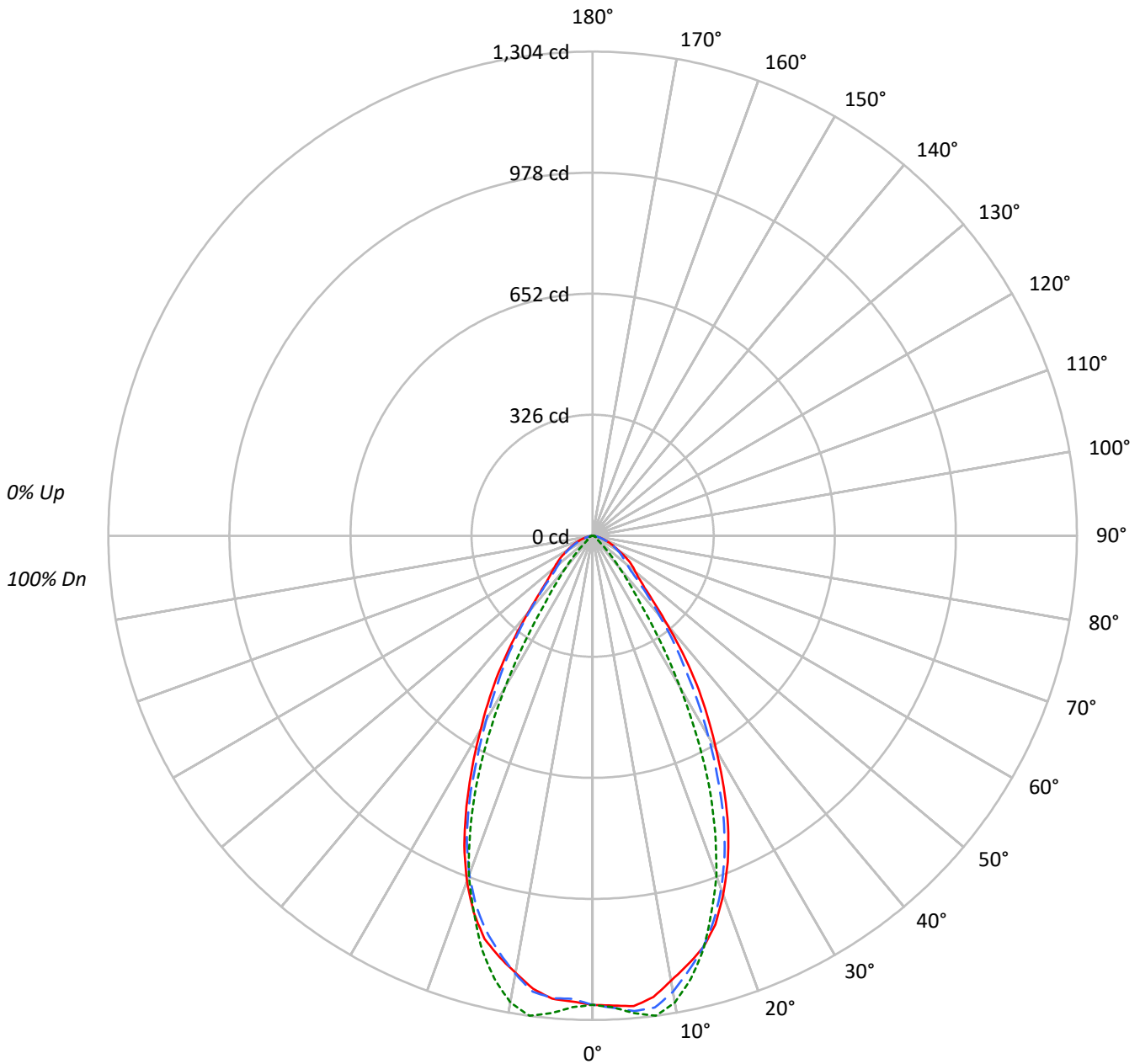
Lumens per Lamp: N/A
Luminaire Lumens: 1286.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 | | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 78 | 76 | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 70 | | | |
| 5 | 89 | 79 | 73 | 68 | 87 | 78 | 72 | 68 | 76 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 66 | 64 | | | |
| 6 | 84 | 74 | 67 | 62 | 82 | 73 | 67 | 62 | 71 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 | | | |
| 7 | 79 | 69 | 62 | 58 | 78 | 68 | 62 | 58 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 55 | | | |
| 8 | 75 | 65 | 58 | 54 | 74 | 64 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 51 | | | |
| 9 | 71 | 61 | 55 | 50 | 70 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 58 | 53 | 50 | 48 | | | |
| 10 | 68 | 57 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 55 | 50 | 47 | 45 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 69249 | 69249 | 69249 |
| 5° | 69970 | 71032 | 68875 |
| 10° | 67706 | 71030 | 66526 |
| 15° | 65165 | 65420 | 63780 |
| 20° | 59972 | 56827 | 57726 |
| 25° | 52195 | 44809 | 48620 |
| 30° | 42095 | 29770 | 38189 |
| 35° | 32638 | 15352 | 28683 |
| 40° | 22392 | 7958 | 19315 |
| 45° | 15343 | 3985 | 13552 |
| 50° | 12767 | 1697 | 11616 |
| 55° | 11488 | 1472 | 10380 |
| 60° | 9089 | 1414 | 8662 |
| 65° | 7498 | 1245 | 7420 |
| 70° | 6075 | 1138 | 6075 |
| 75° | 4490 | 1228 | 4766 |
| 80° | 2652 | 1010 | 2841 |
| 85° | 2013 | 1195 | 2013 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 120.2 | 9.3 |
| 10°-20° | 315.6 | 24.5 |
| 20°-30° | 360.2 | 28.0 |
| 30°-40° | 238.9 | 18.6 |
| 40°-50° | 115.2 | 9.0 |
| 50°-60° | 70.9 | 5.5 |
| 60°-70° | 42.9 | 3.3 |
| 70°-80° | 18.0 | 1.4 |
| 80°-90° | 4.0 | 0.3 |
| 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° | 796.1 | 61.9 |
| 0°-40° | 1035.0 | 80.5 |
| 0°-60° | 1221.1 | 95.0 |
| 0°-90° | 1286.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1286.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1263 | 1263 | 1263 | 1263 | 1263 | |
| 5° | 1272 | 1285 | 1291 | 1250 | 1252 | 119 |
| 15° | 1148 | 1148 | 1153 | 1104 | 1124 | 320 |
| 25° | 863 | 834 | 741 | 784 | 804 | 391 |
| 35° | 488 | 430 | 229 | 401 | 429 | 302 |
| 45° | 198 | 174 | 51 | 162 | 175 | 161 |
| 55° | 120 | 98 | 15 | 98 | 109 | 106 |
| 65° | 58 | 55 | 10 | 52 | 57 | 58 |
| 75° | 21 | 21 | 6 | 20 | 22 | 23 |
| 85° | 3 | 4 | 2 | 3 | 3 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799460

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 |
| 2.5° | 1266.4 | 1268.3 | 1272.2 | 1272.8 | 1270.9 | 1258.7 | 1248.4 | 1252.3 | 1255.5 |
| 5° | 1271.5 | 1275.4 | 1285.0 | 1294.0 | 1290.8 | 1270.3 | 1249.7 | 1249.1 | 1251.6 |
| 7.5° | 1252.9 | 1261.9 | 1281.8 | 1304.3 | 1303.7 | 1268.3 | 1238.1 | 1230.4 | 1230.4 |
| 10° | 1216.3 | 1224.6 | 1246.5 | 1276.7 | 1276.0 | 1231.7 | 1198.3 | 1194.4 | 1195.1 |
| 12.5° | 1183.5 | 1187.4 | 1198.3 | 1222.1 | 1222.1 | 1178.4 | 1152.7 | 1156.5 | 1161.7 |
| 15° | 1148.2 | 1150.8 | 1148.2 | 1155.9 | 1152.7 | 1116.7 | 1103.8 | 1116.1 | 1123.8 |
| 17.5° | 1098.1 | 1099.3 | 1085.9 | 1075.6 | 1063.4 | 1040.9 | 1044.1 | 1062.1 | 1064.0 |
| 20° | 1028.0 | 1036.4 | 1012.0 | 985.6 | 974.1 | 952.9 | 970.8 | 990.8 | 989.5 |
| 22.5° | 950.9 | 960.6 | 929.1 | 885.4 | 861.6 | 853.3 | 885.4 | 903.4 | 902.7 |
| 25° | 862.9 | 870.0 | 834.0 | 772.9 | 740.8 | 739.5 | 783.9 | 802.5 | 803.8 |
| 27.5° | 764.0 | 766.5 | 726.0 | 646.4 | 606.5 | 616.2 | 672.1 | 697.8 | 701.0 |
| 30° | 665.0 | 663.7 | 622.0 | 523.0 | 470.3 | 496.7 | 571.8 | 600.1 | 603.3 |
| 32.5° | 574.4 | 570.6 | 523.0 | 404.8 | 341.8 | 381.0 | 480.0 | 509.5 | 514.7 |
| 35° | 487.7 | 481.2 | 429.8 | 299.4 | 229.4 | 287.8 | 400.9 | 426.6 | 428.6 |
| 37.5° | 397.1 | 393.9 | 353.4 | 224.2 | 160.0 | 218.5 | 327.0 | 345.7 | 343.7 |
| 40° | 312.9 | 312.9 | 279.5 | 166.4 | 111.2 | 162.6 | 258.9 | 275.6 | 269.9 |
| 42.5° | 245.4 | 248.7 | 220.4 | 122.7 | 79.0 | 120.8 | 205.0 | 220.4 | 214.0 |
| 45° | 197.9 | 197.9 | 173.5 | 91.2 | 51.4 | 90.0 | 161.9 | 176.1 | 174.8 |
| 47.5° | 167.7 | 165.1 | 140.7 | 66.8 | 28.3 | 67.5 | 136.2 | 153.6 | 152.9 |
| 50° | 149.7 | 145.9 | 120.8 | 52.7 | 19.9 | 55.9 | 119.5 | 135.6 | 136.2 |
| 52.5° | 135.6 | 129.8 | 108.6 | 46.9 | 17.3 | 48.8 | 108.6 | 121.4 | 121.4 |
| 55° | 120.2 | 116.9 | 97.7 | 41.8 | 15.4 | 43.7 | 97.7 | 109.2 | 108.6 |
| 57.5° | 101.5 | 100.9 | 87.4 | 37.9 | 14.1 | 38.6 | 87.4 | 94.5 | 91.9 |
| 60° | 82.9 | 85.5 | 75.8 | 34.1 | 12.9 | 34.7 | 74.5 | 80.3 | 79.0 |
| 62.5° | 69.4 | 72.6 | 66.2 | 30.2 | 10.9 | 30.8 | 63.0 | 68.7 | 67.5 |
| 65° | 57.8 | 60.4 | 55.3 | 25.7 | 9.6 | 25.7 | 52.0 | 57.2 | 57.2 |
| 67.5° | 47.5 | 49.5 | 45.6 | 21.2 | 8.4 | 21.2 | 42.4 | 46.9 | 47.5 |
| 70° | 37.9 | 39.2 | 36.0 | 16.7 | 7.1 | 17.3 | 33.4 | 37.9 | 37.9 |
| 72.5° | 29.6 | 30.2 | 28.3 | 13.5 | 6.4 | 13.5 | 25.7 | 29.6 | 29.6 |
| 75° | 21.2 | 22.5 | 21.2 | 10.3 | 5.8 | 10.3 | 19.9 | 21.8 | 22.5 |
| 77.5° | 12.2 | 15.4 | 15.4 | 8.4 | 4.5 | 7.7 | 14.1 | 14.8 | 14.8 |
| 80° | 8.4 | 9.6 | 10.9 | 5.8 | 3.2 | 5.8 | 9.0 | 9.6 | 9.0 |
| 82.5° | 5.8 | 6.4 | 6.4 | 3.9 | 2.6 | 3.9 | 5.8 | 6.4 | 5.8 |
| 85° | 3.2 | 4.5 | 4.5 | 3.2 | 1.9 | 2.6 | 3.2 | 3.9 | 3.2 |
| 87.5° | 1.9 | 2.6 | 3.2 | 2.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.3 |
| 90° | 0.0 | 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)