

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: P800064

Luminaire Tested: **LD6C70D010 EU6709050 6LBMDDWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P800064
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: LD6C70D010 EU6709050 6LBMDDWWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

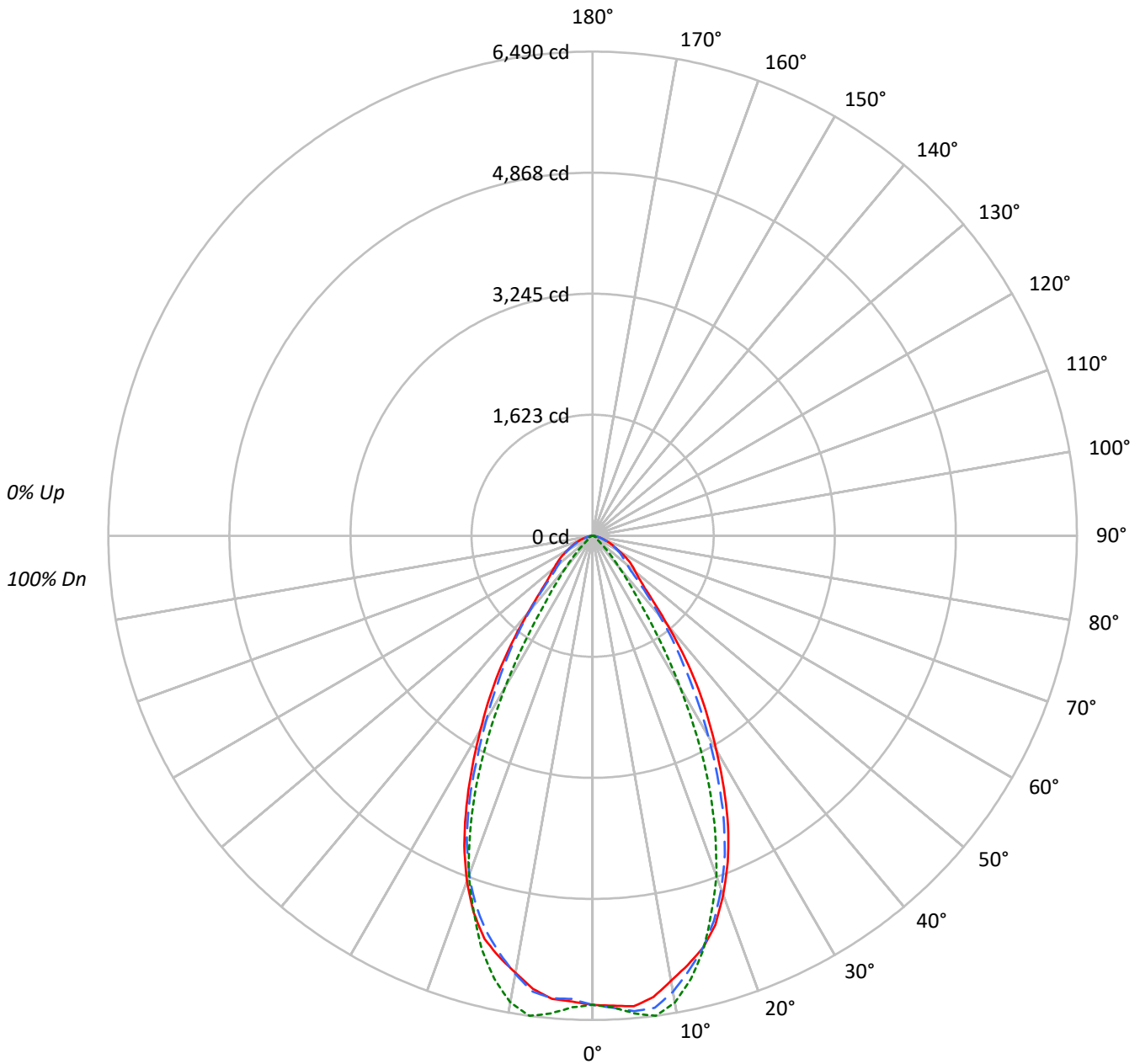
Lumens per Lamp: N/A
Luminaire Lumens: 6402.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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: P800064

CATALOG NUMBER: LD6C70D010 EU6709050 6LBMDDWWH

Luminous Intensity Polar Plot





TEST NUMBER: P800064

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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° | 344737 | 344737 | 344737 |
| 5° | 348337 | 353620 | 342884 |
| 10° | 337057 | 353612 | 331178 |
| 15° | 324400 | 325672 | 317505 |
| 20° | 298564 | 282889 | 287363 |
| 25° | 259836 | 223077 | 242040 |
| 30° | 209564 | 148213 | 190124 |
| 35° | 162469 | 76419 | 142780 |
| 40° | 111473 | 39603 | 96137 |
| 45° | 76380 | 19839 | 67449 |
| 50° | 63563 | 8460 | 57832 |
| 55° | 57164 | 7340 | 51668 |
| 60° | 45238 | 7017 | 43133 |
| 65° | 37345 | 6226 | 36930 |
| 70° | 30245 | 5642 | 30245 |
| 75° | 22367 | 6100 | 23723 |
| 80° | 13133 | 5051 | 14143 |
| 85° | 10064 | 6038 | 10064 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 598.6 | 9.4 |
| 10°-20° | 1571.1 | 24.5 |
| 20°-30° | 1793.3 | 28.0 |
| 30°-40° | 1189.3 | 18.6 |
| 40°-50° | 573.6 | 9.0 |
| 50°-60° | 352.9 | 5.5 |
| 60°-70° | 213.5 | 3.3 |
| 70°-80° | 89.8 | 1.4 |
| 80°-90° | 19.8 | 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° | 3963.1 | 61.9 |
| 0°-40° | 5152.4 | 80.5 |
| 0°-60° | 6078.8 | 95.0 |
| 0°-90° | 6402.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6402.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 6288 | 6288 | 6288 | 6288 | 6288 | |
| 5° | 6330 | 6397 | 6426 | 6221 | 6231 | 595 |
| 15° | 5716 | 5716 | 5738 | 5495 | 5594 | 1593 |
| 25° | 4296 | 4152 | 3688 | 3902 | 4002 | 1948 |
| 35° | 2428 | 2140 | 1142 | 1996 | 2134 | 1502 |
| 45° | 985 | 864 | 256 | 806 | 870 | 803 |
| 55° | 598 | 486 | 77 | 486 | 541 | 526 |
| 65° | 288 | 275 | 48 | 259 | 285 | 289 |
| 75° | 106 | 106 | 29 | 99 | 112 | 113 |
| 85° | 16 | 22 | 10 | 16 | 16 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P800064

CATALOG NUMBER: LD6C70D010 EU6709050 6LBMDDWWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6288.5 | 6288.5 | 6288.5 | 6288.5 | 6288.5 | 6288.5 | 6288.5 | 6288.5 | 6288.5 |
| 2.5° | 6304.4 | 6314.0 | 6333.2 | 6336.4 | 6326.8 | 6266.1 | 6214.9 | 6234.1 | 6250.1 |
| 5° | 6330.0 | 6349.2 | 6397.2 | 6442.0 | 6426.0 | 6323.6 | 6221.3 | 6218.1 | 6230.9 |
| 7.5° | 6237.3 | 6282.1 | 6381.2 | 6493.2 | 6490.0 | 6314.0 | 6163.7 | 6125.3 | 6125.3 |
| 10° | 6055.0 | 6096.5 | 6205.3 | 6355.6 | 6352.4 | 6131.7 | 5965.4 | 5946.2 | 5949.4 |
| 12.5° | 5891.8 | 5911.0 | 5965.4 | 6083.7 | 6083.7 | 5866.2 | 5738.3 | 5757.5 | 5783.1 |
| 15° | 5715.9 | 5728.7 | 5715.9 | 5754.3 | 5738.3 | 5559.2 | 5495.2 | 5556.0 | 5594.4 |
| 17.5° | 5466.4 | 5472.8 | 5405.6 | 5354.5 | 5293.7 | 5181.7 | 5197.7 | 5287.3 | 5296.9 |
| 20° | 5117.8 | 5159.3 | 5037.8 | 4906.7 | 4849.1 | 4743.5 | 4833.1 | 4932.2 | 4925.8 |
| 22.5° | 4733.9 | 4781.9 | 4625.2 | 4407.7 | 4289.3 | 4247.7 | 4407.7 | 4497.2 | 4494.0 |
| 25° | 4295.7 | 4330.9 | 4151.8 | 3847.9 | 3688.0 | 3681.6 | 3902.3 | 3995.1 | 4001.5 |
| 27.5° | 3803.1 | 3815.9 | 3614.4 | 3217.8 | 3019.5 | 3067.5 | 3345.7 | 3473.7 | 3489.7 |
| 30° | 3310.6 | 3304.2 | 3096.2 | 2603.7 | 2341.4 | 2472.5 | 2846.8 | 2987.5 | 3003.5 |
| 32.5° | 2859.6 | 2840.4 | 2603.7 | 2015.1 | 1701.7 | 1896.8 | 2389.4 | 2536.5 | 2562.1 |
| 35° | 2427.7 | 2395.8 | 2139.9 | 1490.5 | 1141.9 | 1433.0 | 1995.9 | 2123.9 | 2133.5 |
| 37.5° | 1976.7 | 1960.7 | 1759.2 | 1116.3 | 796.5 | 1087.5 | 1628.1 | 1720.8 | 1711.3 |
| 40° | 1557.7 | 1557.7 | 1391.4 | 828.4 | 553.4 | 809.2 | 1289.0 | 1372.2 | 1343.4 |
| 42.5° | 1221.9 | 1237.9 | 1097.1 | 610.9 | 393.4 | 601.3 | 1020.4 | 1097.1 | 1065.1 |
| 45° | 985.2 | 985.2 | 863.6 | 454.2 | 255.9 | 447.8 | 806.0 | 876.4 | 870.0 |
| 47.5° | 834.8 | 822.0 | 700.5 | 332.7 | 140.7 | 335.9 | 678.1 | 764.5 | 761.3 |
| 50° | 745.3 | 726.1 | 601.3 | 262.3 | 99.2 | 278.3 | 594.9 | 674.9 | 678.1 |
| 52.5° | 674.9 | 646.1 | 540.6 | 233.5 | 86.4 | 243.1 | 540.6 | 604.5 | 604.5 |
| 55° | 598.1 | 582.1 | 486.2 | 207.9 | 76.8 | 217.5 | 486.2 | 543.8 | 540.6 |
| 57.5° | 505.4 | 502.2 | 435.0 | 188.7 | 70.4 | 191.9 | 435.0 | 470.2 | 457.4 |
| 60° | 412.6 | 425.4 | 377.4 | 169.5 | 64.0 | 172.7 | 371.0 | 399.8 | 393.4 |
| 62.5° | 345.4 | 361.4 | 329.5 | 150.3 | 54.4 | 153.5 | 313.5 | 342.3 | 335.9 |
| 65° | 287.9 | 300.7 | 275.1 | 127.9 | 48.0 | 127.9 | 259.1 | 284.7 | 284.7 |
| 67.5° | 236.7 | 246.3 | 227.1 | 105.6 | 41.6 | 105.6 | 211.1 | 233.5 | 236.7 |
| 70° | 188.7 | 195.1 | 179.1 | 83.2 | 35.2 | 86.4 | 166.3 | 188.7 | 188.7 |
| 72.5° | 147.1 | 150.3 | 140.7 | 67.2 | 32.0 | 67.2 | 127.9 | 147.1 | 147.1 |
| 75° | 105.6 | 112.0 | 105.6 | 51.2 | 28.8 | 51.2 | 99.2 | 108.8 | 112.0 |
| 77.5° | 60.8 | 76.8 | 76.8 | 41.6 | 22.4 | 38.4 | 70.4 | 73.6 | 73.6 |
| 80° | 41.6 | 48.0 | 54.4 | 28.8 | 16.0 | 28.8 | 44.8 | 48.0 | 44.8 |
| 82.5° | 28.8 | 32.0 | 32.0 | 19.2 | 12.8 | 19.2 | 28.8 | 32.0 | 28.8 |
| 85° | 16.0 | 22.4 | 22.4 | 16.0 | 9.6 | 12.8 | 16.0 | 19.2 | 16.0 |
| 87.5° | 9.6 | 12.8 | 16.0 | 12.8 | 9.6 | 9.6 | 9.6 | 9.6 | 6.4 |
| 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)