

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: P800048

Luminaire Tested: **LD6C70D010 EU6709040 6LBMDDWGPB**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P800048
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 EU6709040 6LBMDDWGPH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

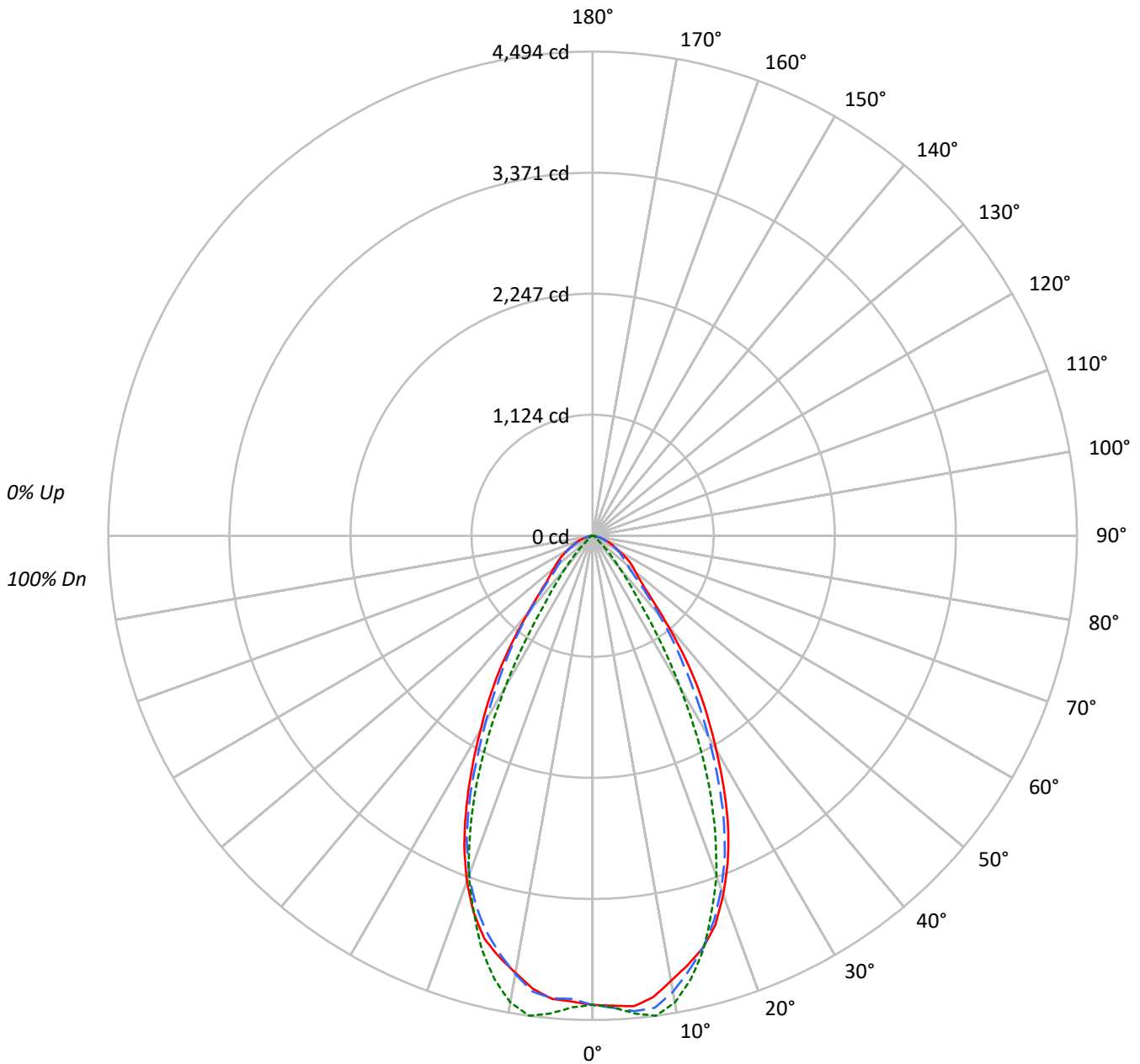
Lumens per Lamp: N/A
Luminaire Lumens: 4433.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P800048

CATALOG NUMBER: LD6C70D010 EU6709040 6LBMDDWGPH

Luminous Intensity Polar Plot





TEST NUMBER: P800048

CATALOG NUMBER: LD6C70D010 EU6709040 6LBMDDWGPH

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° | 238709 | 238709 | 238709 |
| 5° | 241206 | 244860 | 237425 |
| 10° | 233390 | 244857 | 229321 |
| 15° | 224627 | 225506 | 219854 |
| 20° | 206734 | 195883 | 198986 |
| 25° | 179920 | 154467 | 167598 |
| 30° | 145111 | 102630 | 131647 |
| 35° | 112504 | 52916 | 98865 |
| 40° | 77187 | 27423 | 66568 |
| 45° | 52889 | 13738 | 46703 |
| 50° | 44016 | 5859 | 40041 |
| 55° | 39588 | 5085 | 35774 |
| 60° | 31324 | 4857 | 29866 |
| 65° | 25852 | 4307 | 25567 |
| 70° | 20949 | 3911 | 20949 |
| 75° | 15483 | 4215 | 16415 |
| 80° | 9092 | 3504 | 9787 |
| 85° | 6982 | 4151 | 6982 |



TEST NUMBER: P800048

CATALOG NUMBER: LD6C70D010 EU6709040 6LBMDDWGPH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 414.5 | 9.4 |
| 10°-20° | 1087.9 | 24.5 |
| 20°-30° | 1241.8 | 28.0 |
| 30°-40° | 823.5 | 18.6 |
| 40°-50° | 397.2 | 9.0 |
| 50°-60° | 244.3 | 5.5 |
| 60°-70° | 147.8 | 3.3 |
| 70°-80° | 62.2 | 1.4 |
| 80°-90° | 13.7 | 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° | 2744.2 | 61.9 |
| 0°-40° | 3567.7 | 80.5 |
| 0°-60° | 4209.2 | 95.0 |
| 0°-90° | 4433.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4433.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4354 | 4354 | 4354 | 4354 | 4354 | |
| 5° | 4383 | 4430 | 4450 | 4308 | 4314 | 412 |
| 15° | 3958 | 3958 | 3973 | 3805 | 3874 | 1103 |
| 25° | 2974 | 2875 | 2554 | 2702 | 2771 | 1349 |
| 35° | 1681 | 1482 | 791 | 1382 | 1477 | 1040 |
| 45° | 682 | 598 | 177 | 558 | 602 | 556 |
| 55° | 414 | 337 | 53 | 337 | 374 | 364 |
| 65° | 199 | 190 | 33 | 179 | 197 | 200 |
| 75° | 73 | 73 | 20 | 69 | 78 | 78 |
| 85° | 11 | 16 | 7 | 11 | 11 | 14 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P800048

CATALOG NUMBER: LD6C70D010 EU6709040 6LBMDDWGPH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4354.4 | 4354.4 | 4354.4 | 4354.4 | 4354.4 | 4354.4 | 4354.4 | 4354.4 | 4354.4 |
| 2.5° | 4365.5 | 4372.1 | 4385.4 | 4387.6 | 4381.0 | 4338.9 | 4303.4 | 4316.7 | 4327.8 |
| 5° | 4383.2 | 4396.5 | 4429.7 | 4460.7 | 4449.6 | 4378.7 | 4307.9 | 4305.6 | 4314.5 |
| 7.5° | 4318.9 | 4349.9 | 4418.6 | 4496.1 | 4493.9 | 4372.1 | 4268.0 | 4241.4 | 4241.4 |
| 10° | 4192.7 | 4221.5 | 4296.8 | 4400.9 | 4398.7 | 4245.8 | 4130.7 | 4117.4 | 4119.6 |
| 12.5° | 4079.7 | 4093.0 | 4130.7 | 4212.6 | 4212.6 | 4062.0 | 3973.4 | 3986.7 | 4004.4 |
| 15° | 3957.9 | 3966.8 | 3957.9 | 3984.5 | 3973.4 | 3849.4 | 3805.1 | 3847.2 | 3873.8 |
| 17.5° | 3785.2 | 3789.6 | 3743.1 | 3707.6 | 3665.6 | 3588.0 | 3599.1 | 3661.1 | 3667.8 |
| 20° | 3543.7 | 3572.5 | 3488.4 | 3397.6 | 3357.7 | 3284.6 | 3346.6 | 3415.3 | 3410.9 |
| 22.5° | 3278.0 | 3311.2 | 3202.7 | 3052.1 | 2970.1 | 2941.3 | 3052.1 | 3114.1 | 3111.9 |
| 25° | 2974.5 | 2998.9 | 2874.9 | 2664.5 | 2553.7 | 2549.3 | 2702.1 | 2766.3 | 2770.8 |
| 27.5° | 2633.4 | 2642.3 | 2502.8 | 2228.1 | 2090.8 | 2124.0 | 2316.7 | 2405.3 | 2416.4 |
| 30° | 2292.4 | 2287.9 | 2144.0 | 1802.9 | 1621.3 | 1712.1 | 1971.2 | 2068.7 | 2079.7 |
| 32.5° | 1980.1 | 1966.8 | 1802.9 | 1395.3 | 1178.3 | 1313.4 | 1654.5 | 1756.4 | 1774.1 |
| 35° | 1681.1 | 1658.9 | 1481.7 | 1032.1 | 790.7 | 992.2 | 1382.1 | 1470.7 | 1477.3 |
| 37.5° | 1368.8 | 1357.7 | 1218.2 | 773.0 | 551.5 | 753.0 | 1127.4 | 1191.6 | 1184.9 |
| 40° | 1078.6 | 1078.6 | 963.5 | 573.6 | 383.2 | 560.4 | 892.6 | 950.2 | 930.2 |
| 42.5° | 846.1 | 857.1 | 759.7 | 423.0 | 272.4 | 416.4 | 706.5 | 759.7 | 737.5 |
| 45° | 682.2 | 682.2 | 598.0 | 314.5 | 177.2 | 310.1 | 558.1 | 606.9 | 602.4 |
| 47.5° | 578.1 | 569.2 | 485.1 | 230.3 | 97.5 | 232.6 | 469.5 | 529.3 | 527.1 |
| 50° | 516.1 | 502.8 | 416.4 | 181.6 | 68.7 | 192.7 | 412.0 | 467.3 | 469.5 |
| 52.5° | 467.3 | 447.4 | 374.3 | 161.7 | 59.8 | 168.3 | 374.3 | 418.6 | 418.6 |
| 55° | 414.2 | 403.1 | 336.7 | 144.0 | 53.2 | 150.6 | 336.7 | 376.5 | 374.3 |
| 57.5° | 349.9 | 347.7 | 301.2 | 130.7 | 48.7 | 132.9 | 301.2 | 325.6 | 316.7 |
| 60° | 285.7 | 294.6 | 261.4 | 117.4 | 44.3 | 119.6 | 256.9 | 276.9 | 272.4 |
| 62.5° | 239.2 | 250.3 | 228.1 | 104.1 | 37.7 | 106.3 | 217.1 | 237.0 | 232.6 |
| 65° | 199.3 | 208.2 | 190.5 | 88.6 | 33.2 | 88.6 | 179.4 | 197.1 | 197.1 |
| 67.5° | 163.9 | 170.5 | 157.3 | 73.1 | 28.8 | 73.1 | 146.2 | 161.7 | 163.9 |
| 70° | 130.7 | 135.1 | 124.0 | 57.6 | 24.4 | 59.8 | 115.2 | 130.7 | 130.7 |
| 72.5° | 101.9 | 104.1 | 97.5 | 46.5 | 22.1 | 46.5 | 88.6 | 101.9 | 101.9 |
| 75° | 73.1 | 77.5 | 73.1 | 35.4 | 19.9 | 35.4 | 68.7 | 75.3 | 77.5 |
| 77.5° | 42.1 | 53.2 | 53.2 | 28.8 | 15.5 | 26.6 | 48.7 | 50.9 | 50.9 |
| 80° | 28.8 | 33.2 | 37.7 | 19.9 | 11.1 | 19.9 | 31.0 | 33.2 | 31.0 |
| 82.5° | 19.9 | 22.1 | 22.1 | 13.3 | 8.9 | 13.3 | 19.9 | 22.1 | 19.9 |
| 85° | 11.1 | 15.5 | 15.5 | 11.1 | 6.6 | 8.9 | 11.1 | 13.3 | 11.1 |
| 87.5° | 6.6 | 8.9 | 11.1 | 8.9 | 6.6 | 6.6 | 6.6 | 6.6 | 4.4 |
| 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)