

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: P799695

Luminaire Tested: **LD6C40D010 EU6409040 6LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40D010 EU6409040 6LBMDSWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

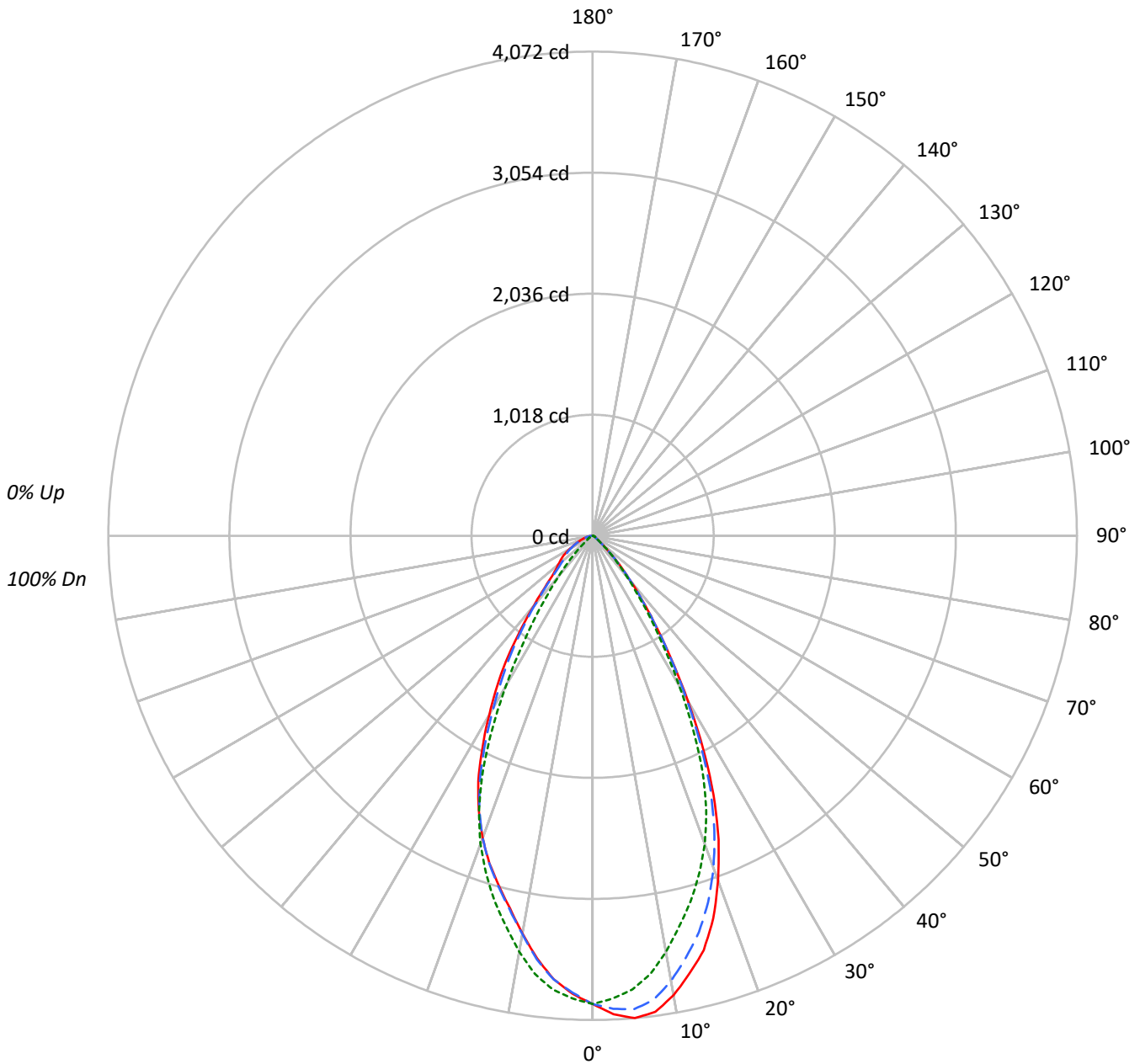
Lumens per Lamp: N/A
Luminaire Lumens: 3390.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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





TEST NUMBER: P799695

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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 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 97 | 95 | 94 | 92 | | | | | | | | | | | | | | | | | | | |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 93 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 85 | 83 | 80 | 78 | | | | | | | | | | | | | | | | | | | |
| 4 | 96 | 88 | 82 | 77 | 94 | 87 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 73 | | | | | | | | | | | | | | | | | | | |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 6 | 86 | 77 | 70 | 66 | 84 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 71 | 67 | 64 | 63 | | | | | | | | | | | | | | | | | | | |
| 7 | 82 | 72 | 66 | 61 | 80 | 71 | 65 | 61 | 70 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 59 | | | | | | | | | | | | | | | | | | | |
| 8 | 78 | 68 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 55 | | | | | | | | | | | | | | | | | | | |
| 9 | 74 | 64 | 58 | 54 | 73 | 63 | 58 | 54 | 62 | 57 | 53 | 61 | 57 | 53 | 61 | 56 | 53 | 52 | | | | | | | | | | | | | | | | | | | |
| 10 | 70 | 60 | 54 | 50 | 69 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 58 | 53 | 50 | 49 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 215849 | 215849 | 215849 |
| 5° | 224058 | 210785 | 206020 |
| 10° | 218333 | 197720 | 189019 |
| 15° | 204763 | 180659 | 172856 |
| 20° | 179758 | 160833 | 157759 |
| 25° | 145387 | 132129 | 137579 |
| 30° | 101073 | 92039 | 110106 |
| 35° | 62299 | 56383 | 83098 |
| 40° | 35252 | 31602 | 55189 |
| 45° | 17118 | 16327 | 37663 |
| 50° | 6516 | 6516 | 32016 |
| 55° | 3575 | 4224 | 29552 |
| 60° | 2609 | 3355 | 24209 |
| 65° | 2205 | 2867 | 19834 |
| 70° | 1907 | 2452 | 16333 |
| 75° | 1800 | 2521 | 14022 |
| 80° | 1073 | 2147 | 10197 |
| 85° | 1069 | 4277 | 9624 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 360.5 | 10.6 |
| 10°-20° | 906.0 | 26.7 |
| 20°-30° | 1019.9 | 30.1 |
| 30°-40° | 631.5 | 18.6 |
| 40°-50° | 251.5 | 7.4 |
| 50°-60° | 114.5 | 3.4 |
| 60°-70° | 65.8 | 1.9 |
| 70°-80° | 31.3 | 0.9 |
| 80°-90° | 9.1 | 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° | 2286.3 | 67.4 |
| 0°-40° | 2917.8 | 86.1 |
| 0°-60° | 3283.8 | 96.9 |
| 0°-90° | 3390.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3390.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3937 | 3937 | 3937 | 3937 | 3937 | |
| 5° | 4072 | 3997 | 3830 | 3747 | 3744 | 383 |
| 15° | 3608 | 3452 | 3183 | 3054 | 3046 | 998 |
| 25° | 2404 | 2339 | 2184 | 2239 | 2274 | 1080 |
| 35° | 931 | 926 | 842 | 1174 | 1242 | 598 |
| 45° | 221 | 221 | 211 | 459 | 486 | 187 |
| 55° | 37 | 36 | 44 | 272 | 309 | 37 |
| 65° | 17 | 15 | 22 | 151 | 153 | 17 |
| 75° | 8 | 8 | 12 | 64 | 66 | 9 |
| 85° | 2 | 2 | 7 | 15 | 15 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799695

CATALOG NUMBER: LD6C40D010 EU6409040 6LBMDSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3937.4 | 3937.4 | 3937.4 | 3937.4 | 3937.4 | 3937.4 | 3937.4 | 3937.4 | 3937.4 |
| 2.5° | 4027.5 | 3990.1 | 3981.6 | 3949.3 | 3895.0 | 3864.4 | 3845.7 | 3832.1 | 3855.9 |
| 5° | 4071.6 | 4030.9 | 3996.9 | 3930.6 | 3830.4 | 3774.4 | 3747.2 | 3725.1 | 3743.8 |
| 7.5° | 4039.4 | 3981.6 | 3935.7 | 3844.0 | 3716.6 | 3630.0 | 3592.6 | 3567.1 | 3584.1 |
| 10° | 3922.2 | 3852.5 | 3799.9 | 3691.1 | 3551.9 | 3448.2 | 3402.4 | 3378.6 | 3395.6 |
| 12.5° | 3769.3 | 3711.5 | 3631.7 | 3512.8 | 3363.3 | 3254.6 | 3220.6 | 3201.9 | 3208.7 |
| 15° | 3607.9 | 3540.0 | 3451.6 | 3332.7 | 3183.2 | 3074.5 | 3054.2 | 3042.3 | 3045.7 |
| 17.5° | 3373.5 | 3307.2 | 3230.8 | 3115.3 | 2977.7 | 2889.4 | 2889.4 | 2880.9 | 2886.0 |
| 20° | 3081.3 | 3045.7 | 2970.9 | 2874.1 | 2756.9 | 2677.1 | 2702.5 | 2694.0 | 2704.2 |
| 22.5° | 2765.4 | 2738.2 | 2673.7 | 2593.8 | 2495.3 | 2432.4 | 2488.5 | 2486.8 | 2500.4 |
| 25° | 2403.6 | 2383.2 | 2339.0 | 2271.1 | 2184.4 | 2145.4 | 2238.8 | 2238.8 | 2274.5 |
| 27.5° | 2004.4 | 1984.0 | 1953.4 | 1895.7 | 1824.3 | 1812.4 | 1950.0 | 1967.0 | 2006.1 |
| 30° | 1596.7 | 1583.1 | 1566.1 | 1513.5 | 1454.0 | 1476.1 | 1666.4 | 1695.2 | 1739.4 |
| 32.5° | 1233.2 | 1224.7 | 1219.6 | 1172.1 | 1119.4 | 1192.4 | 1409.9 | 1447.2 | 1491.4 |
| 35° | 930.9 | 912.2 | 925.8 | 890.1 | 842.5 | 934.3 | 1173.8 | 1206.0 | 1241.7 |
| 37.5° | 686.2 | 672.7 | 684.6 | 659.1 | 616.6 | 716.8 | 942.7 | 963.1 | 986.9 |
| 40° | 492.6 | 480.7 | 490.9 | 475.6 | 441.6 | 535.1 | 738.9 | 761.0 | 771.2 |
| 42.5° | 349.9 | 329.5 | 339.7 | 327.8 | 310.9 | 402.6 | 580.9 | 601.3 | 604.7 |
| 45° | 220.8 | 214.0 | 220.8 | 214.0 | 210.6 | 299.0 | 458.6 | 477.3 | 485.8 |
| 47.5° | 134.2 | 125.7 | 125.7 | 122.3 | 125.7 | 220.8 | 378.8 | 406.0 | 419.6 |
| 50° | 76.4 | 73.0 | 71.3 | 69.6 | 76.4 | 173.3 | 327.8 | 358.4 | 375.4 |
| 52.5° | 51.0 | 49.3 | 49.3 | 47.6 | 56.1 | 146.1 | 295.6 | 322.7 | 339.7 |
| 55° | 37.4 | 35.7 | 35.7 | 35.7 | 44.2 | 125.7 | 271.8 | 293.9 | 309.2 |
| 57.5° | 28.9 | 28.9 | 28.9 | 27.2 | 37.4 | 107.0 | 242.9 | 254.8 | 266.7 |
| 60° | 23.8 | 22.1 | 22.1 | 22.1 | 30.6 | 91.7 | 208.9 | 214.0 | 220.8 |
| 62.5° | 18.7 | 18.7 | 18.7 | 18.7 | 25.5 | 81.5 | 180.1 | 180.1 | 183.5 |
| 65° | 17.0 | 15.3 | 15.3 | 15.3 | 22.1 | 71.3 | 151.2 | 149.5 | 152.9 |
| 67.5° | 13.6 | 13.6 | 13.6 | 13.6 | 18.7 | 61.2 | 124.0 | 122.3 | 125.7 |
| 70° | 11.9 | 11.9 | 11.9 | 11.9 | 15.3 | 51.0 | 100.2 | 98.5 | 101.9 |
| 72.5° | 10.2 | 10.2 | 10.2 | 10.2 | 13.6 | 42.5 | 79.8 | 79.8 | 81.5 |
| 75° | 8.5 | 8.5 | 8.5 | 8.5 | 11.9 | 32.3 | 64.5 | 64.5 | 66.2 |
| 77.5° | 6.8 | 6.8 | 6.8 | 6.8 | 8.5 | 25.5 | 49.3 | 47.6 | 47.6 |
| 80° | 3.4 | 5.1 | 5.1 | 5.1 | 6.8 | 18.7 | 35.7 | 32.3 | 32.3 |
| 82.5° | 1.7 | 3.4 | 3.4 | 3.4 | 6.8 | 13.6 | 23.8 | 22.1 | 22.1 |
| 85° | 1.7 | 1.7 | 1.7 | 5.1 | 6.8 | 10.2 | 15.3 | 15.3 | 15.3 |
| 87.5° | 0.0 | 1.7 | 3.4 | 6.8 | 8.5 | 8.5 | 10.2 | 8.5 | 8.5 |
| 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)