

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: P840032

Luminaire Tested: **LDS4C40D010 EU4409040 4LBSH**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C40D010 EU4409040 4LBSH  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

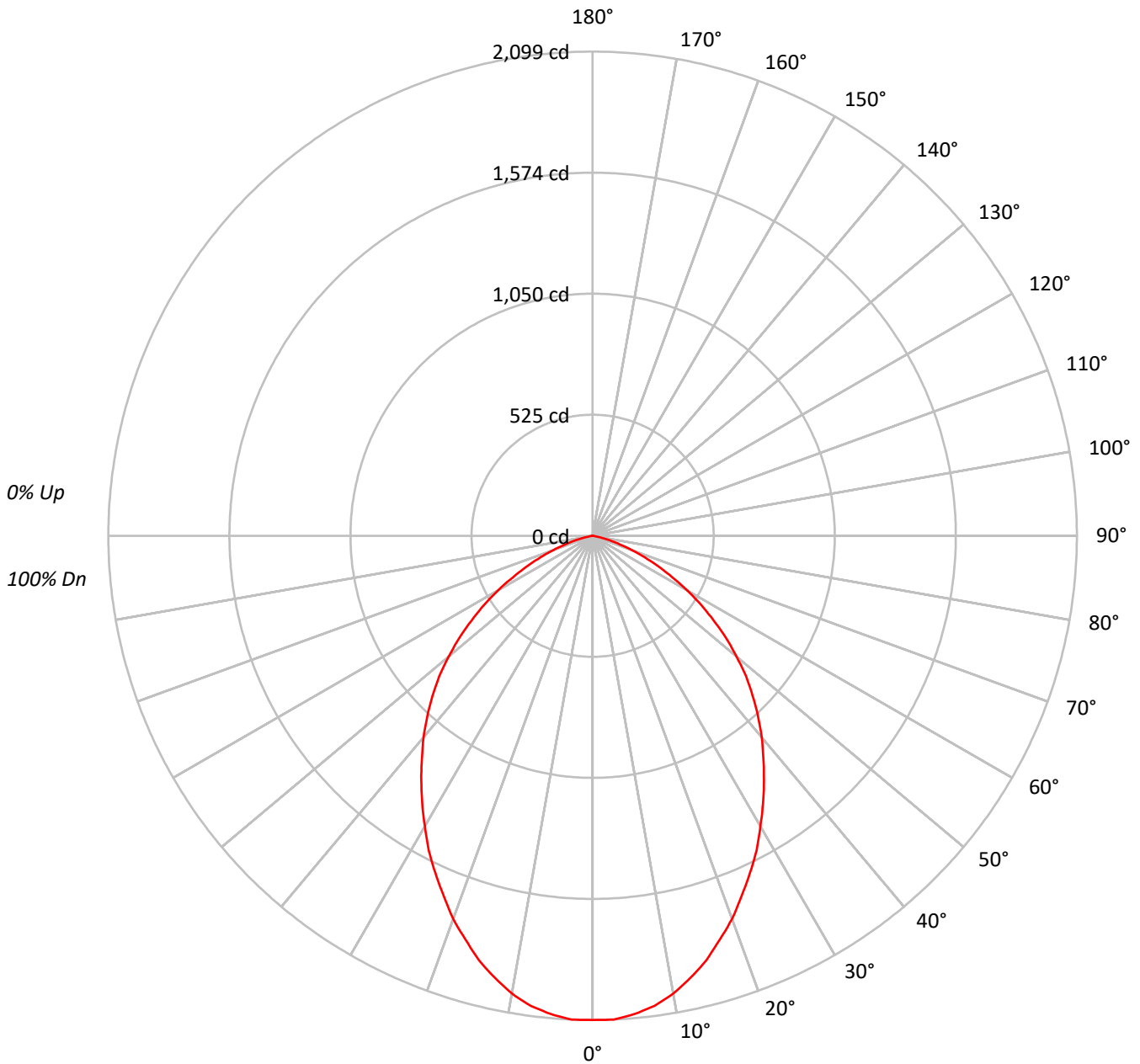
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4014.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 47  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: P840032

CATALOG NUMBER: LDS4C40D010 EU4409040 4LBSH

### Luminous Intensity Polar Plot





TEST NUMBER: P840032

CATALOG NUMBER: LDS4C40D010 EU4409040 4LBSH

**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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |
| 2   | 102 | 96  | 90  | 85  | 100 | 94  | 88  | 84  | 90  | 86  | 82  | 87  | 83  | 80  | 84  | 81  | 79  | 77  |    |    |
| 3   | 95  | 85  | 78  | 73  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 74  | 70  | 76  | 72  | 69  | 67  |    |    |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |
| 8   | 65  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 34  |    |    |
| 10  | 58  | 45  | 38  | 33  | 56  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 257906 |
| 5°  | 256709 |
| 10° | 251419 |
| 15° | 242279 |
| 20° | 231119 |
| 25° | 218662 |
| 30° | 206263 |
| 35° | 194204 |
| 40° | 182858 |
| 45° | 170457 |
| 50° | 155424 |
| 55° | 137273 |
| 60° | 116195 |
| 65° | 91220  |
| 70° | 65123  |
| 75° | 35695  |
| 80° | 6297   |
| 85° | 0      |



TEST NUMBER: P840032

CATALOG NUMBER: LDS4C40D010 EU4409040 4LBSH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 196.6  | 4.9       |
| 10°-20°   | 534.5  | 13.3      |
| 20°-30°   | 742.2  | 18.5      |
| 30°-40°   | 810.0  | 20.2      |
| 40°-50°   | 755.6  | 18.8      |
| 50°-60°   | 573.5  | 14.3      |
| 60°-70°   | 314.0  | 7.8       |
| 70°-80°   | 86.4   | 2.2       |
| 80°-90°   | 1.2    | 0.0       |
| 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°    | 1473.4 | 36.7      |
| 0°-40°    | 2283.3 | 56.9      |
| 0°-60°    | 3612.3 | 90.0      |
| 0°-90°    | 4014.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4014.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2099 |      |
| 5°  | 2082 | 197  |
| 15° | 1905 | 534  |
| 25° | 1613 | 742  |
| 35° | 1295 | 810  |
| 45° | 981  | 756  |
| 55° | 641  | 573  |
| 65° | 314  | 314  |
| 75° | 75   | 86   |
| 85° | 0    | 1    |
| 90° | 0    |      |



TEST NUMBER: P840032

CATALOG NUMBER: LDS4C40D010 EU4409040 4LBSH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2099.3 |
| 2.5°  | 2099.3 |
| 5°    | 2081.6 |
| 7.5°  | 2055.2 |
| 10°   | 2015.4 |
| 12.5° | 1962.4 |
| 15°   | 1904.9 |
| 17.5° | 1834.2 |
| 20°   | 1767.8 |
| 22.5° | 1688.3 |
| 25°   | 1613.1 |
| 27.5° | 1538.1 |
| 30°   | 1454.0 |
| 32.5° | 1374.5 |
| 35°   | 1294.9 |
| 37.5° | 1215.4 |
| 40°   | 1140.2 |
| 42.5° | 1060.7 |
| 45°   | 981.1  |
| 47.5° | 901.6  |
| 50°   | 813.2  |
| 52.5° | 729.2  |
| 55°   | 640.9  |
| 57.5° | 556.8  |
| 60°   | 472.9  |
| 62.5° | 389.0  |
| 65°   | 313.8  |
| 67.5° | 243.0  |
| 70°   | 181.3  |
| 72.5° | 123.8  |
| 75°   | 75.2   |
| 77.5° | 35.3   |
| 80°   | 8.9    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)