

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: P858060

Luminaire Tested: **LD4C40D010 EU4409030 4LBSH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P858060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C40D010 EU4409030 4LBSH  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

**Summary**

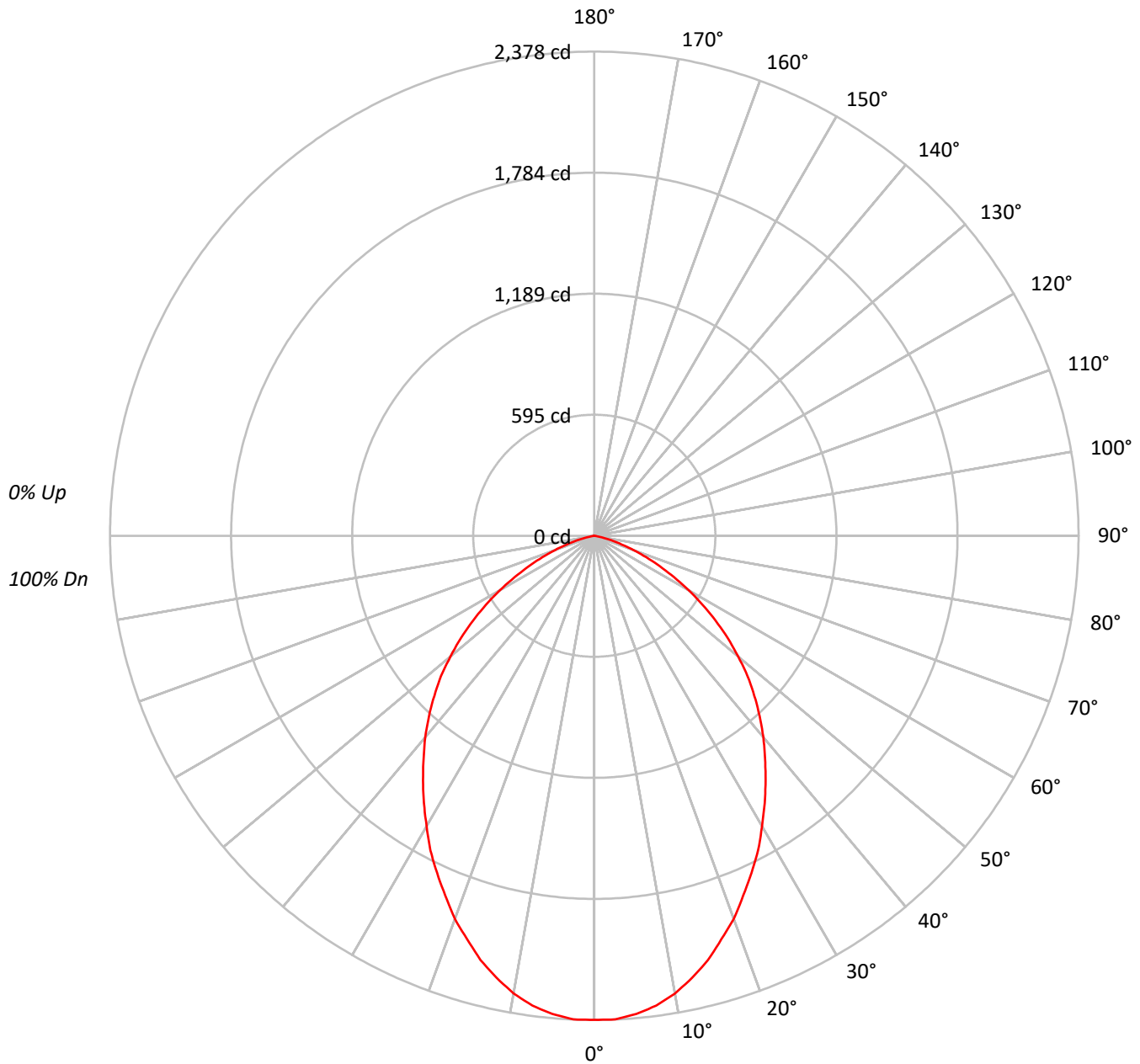
Lumens per Lamp: N/A  
Luminaire Lumens: 4545.9 lumens  
Efficiency: N/A  
Efficacy: 69.9 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 65  
Input Voltage (V):  
Input Current (Ain): 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  |
| RW  | 70  | 50  | 30  | 10  |  | 70  | 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 |
| 1   | 111 | 107 | 104 | 101 |  | 108 | 105 | 102 | 99  |  | 101 | 98  | 96  |  | 97  | 95  | 93  |  | 93  | 92  | 90  |
| 2   | 102 | 96  | 90  | 85  |  | 100 | 94  | 88  | 84  |  | 90  | 86  | 82  |  | 87  | 83  | 80  |  | 84  | 81  | 79  |
| 3   | 95  | 85  | 78  | 73  |  | 92  | 84  | 77  | 72  |  | 81  | 75  | 71  |  | 78  | 74  | 70  |  | 76  | 72  | 69  |
| 4   | 87  | 77  | 69  | 63  |  | 85  | 75  | 68  | 63  |  | 73  | 67  | 62  |  | 71  | 65  | 61  |  | 69  | 64  | 60  |
| 5   | 81  | 69  | 61  | 55  |  | 79  | 68  | 61  | 55  |  | 66  | 60  | 55  |  | 64  | 59  | 54  |  | 63  | 58  | 53  |
| 6   | 75  | 63  | 55  | 49  |  | 73  | 62  | 54  | 49  |  | 60  | 54  | 49  |  | 59  | 53  | 48  |  | 57  | 52  | 48  |
| 7   | 70  | 58  | 50  | 44  |  | 68  | 57  | 49  | 44  |  | 55  | 49  | 44  |  | 54  | 48  | 43  |  | 53  | 47  | 43  |
| 8   | 65  | 53  | 45  | 40  |  | 64  | 52  | 45  | 40  |  | 51  | 44  | 39  |  | 50  | 44  | 39  |  | 49  | 43  | 39  |
| 9   | 61  | 49  | 41  | 36  |  | 60  | 48  | 41  | 36  |  | 47  | 40  | 36  |  | 46  | 40  | 36  |  | 45  | 40  | 35  |
| 10  | 58  | 45  | 38  | 33  |  | 56  | 45  | 38  | 33  |  | 44  | 37  | 33  |  | 43  | 37  | 33  |  | 42  | 37  | 33  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 292084 |
| 5°  | 290733 |
| 10° | 284726 |
| 15° | 274381 |
| 20° | 261763 |
| 25° | 247643 |
| 30° | 233599 |
| 35° | 219940 |
| 40° | 207091 |
| 45° | 193044 |
| 50° | 176027 |
| 55° | 155458 |
| 60° | 131601 |
| 65° | 103284 |
| 70° | 73744  |
| 75° | 40394  |
| 80° | 7146   |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 222.7  | 4.9       |
| 10°-20°   | 605.3  | 13.3      |
| 20°-30°   | 840.6  | 18.5      |
| 30°-40°   | 917.3  | 20.2      |
| 40°-50°   | 855.7  | 18.8      |
| 50°-60°   | 649.5  | 14.3      |
| 60°-70°   | 355.6  | 7.8       |
| 70°-80°   | 97.9   | 2.2       |
| 80°-90°   | 1.4    | 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°    | 1668.6 | 36.7      |
| 0°-40°    | 2585.9 | 56.9      |
| 0°-60°    | 4091.1 | 90.0      |
| 0°-90°    | 4545.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4545.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2378 |      |
| 5°  | 2358 | 223  |
| 15° | 2157 | 605  |
| 25° | 1827 | 841  |
| 35° | 1466 | 917  |
| 45° | 1111 | 856  |
| 55° | 726  | 649  |
| 65° | 355  | 356  |
| 75° | 85   | 98   |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2377.5 |
| 2.5°  | 2377.5 |
| 5°    | 2357.5 |
| 7.5°  | 2327.5 |
| 10°   | 2282.4 |
| 12.5° | 2222.4 |
| 15°   | 2157.3 |
| 17.5° | 2077.2 |
| 20°   | 2002.2 |
| 22.5° | 1912.0 |
| 25°   | 1826.9 |
| 27.5° | 1741.9 |
| 30°   | 1646.7 |
| 32.5° | 1556.6 |
| 35°   | 1466.5 |
| 37.5° | 1376.4 |
| 40°   | 1291.3 |
| 42.5° | 1201.3 |
| 45°   | 1111.1 |
| 47.5° | 1021.1 |
| 50°   | 921.0  |
| 52.5° | 825.8  |
| 55°   | 725.8  |
| 57.5° | 630.7  |
| 60°   | 535.6  |
| 62.5° | 440.4  |
| 65°   | 355.3  |
| 67.5° | 275.2  |
| 70°   | 205.3  |
| 72.5° | 140.2  |
| 75°   | 85.1   |
| 77.5° | 40.0   |
| 80°   | 10.1   |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)