

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: P858681

Luminaire Tested: **LD4C30W2N2765D010 4LBWH\_3500K**

Issue Date: 11/9/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P858681  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 11/9/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C30W2N2765D010 4LBWH\_3500K  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, W2N2765 LEDS  
AND 4LBWH TRIM WITH FINISH  
  
Light Source: -  
Ballast/Driver: -

**Summary**

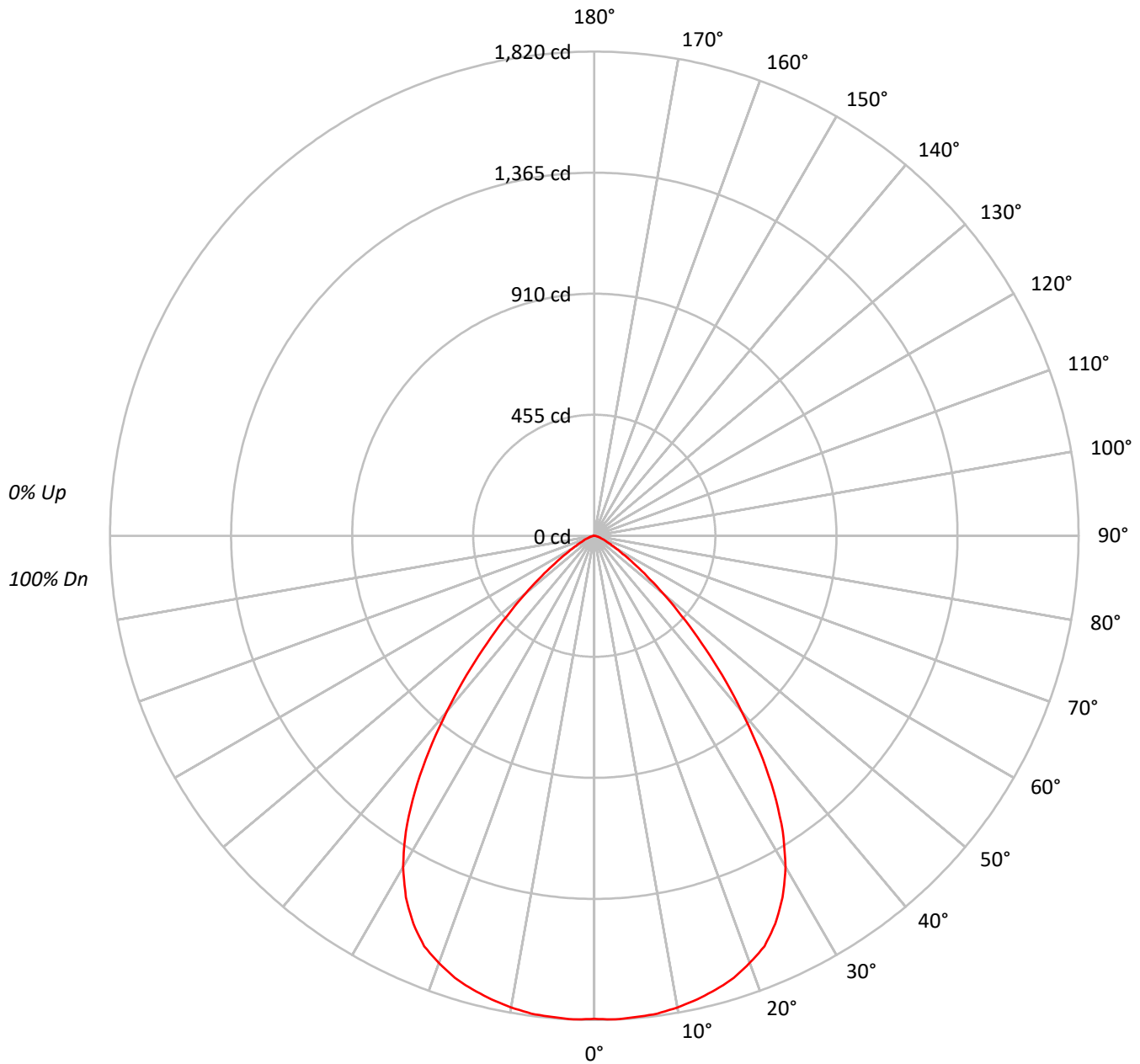
Lumens per Lamp: N/A  
Luminaire Lumens: 2817.1 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 39.6  
Input Voltage (V): NR  
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  | 50  | 30 | 10 |
| 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 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 95  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 72  | 90  | 82  | 76  | 71  | 80  | 75  | 70  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 64  | 74  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |    |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 75  | 65  | 58  | 53  | 63  | 57  | 53  | 62  | 56  | 52  | 61  | 56  | 52  | 50  |    |    |
| 8   | 72  | 60  | 53  | 49  | 70  | 60  | 53  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 46  |    |    |
| 9   | 68  | 56  | 49  | 45  | 66  | 56  | 49  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 43  |    |    |
| 10  | 64  | 52  | 46  | 41  | 63  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 49  | 44  | 41  | 39  |    |    |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 223065 |
| 5°  | 223917 |
| 10° | 224598 |
| 15° | 224613 |
| 20° | 223379 |
| 25° | 218147 |
| 30° | 203894 |
| 35° | 176567 |
| 40° | 137921 |
| 45° | 98963  |
| 50° | 64295  |
| 55° | 38490  |
| 60° | 22531  |
| 65° | 14448  |
| 70° | 9627   |
| 75° | 7262   |
| 80° | 5448   |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 172.9  | 6.1       |
| 10°-20°   | 498.2  | 17.7      |
| 20°-30°   | 735.2  | 26.1      |
| 30°-40°   | 725.5  | 25.8      |
| 40°-50°   | 444.0  | 15.8      |
| 50°-60°   | 170.2  | 6.0       |
| 60°-70°   | 53.2   | 1.9       |
| 70°-80°   | 15.6   | 0.6       |
| 80°-90°   | 2.1    | 0.1       |
| 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°    | 1406.4 | 49.9      |
| 0°-40°    | 2131.9 | 75.7      |
| 0°-60°    | 2746.1 | 97.5      |
| 0°-90°    | 2817.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2817.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1816 |      |
| 5°  | 1816 | 173  |
| 15° | 1766 | 498  |
| 25° | 1609 | 735  |
| 35° | 1177 | 726  |
| 45° | 570  | 444  |
| 55° | 180  | 170  |
| 65° | 50   | 53   |
| 75° | 15   | 16   |
| 85° | 0    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1815.7 |
| 2.5°  | 1819.6 |
| 5°    | 1815.7 |
| 7.5°  | 1811.9 |
| 10°   | 1800.4 |
| 12.5° | 1785.1 |
| 15°   | 1766.0 |
| 17.5° | 1743.0 |
| 20°   | 1708.6 |
| 22.5° | 1670.5 |
| 25°   | 1609.3 |
| 27.5° | 1532.8 |
| 30°   | 1437.3 |
| 32.5° | 1318.8 |
| 35°   | 1177.3 |
| 37.5° | 1020.6 |
| 40°   | 860.0  |
| 42.5° | 711.0  |
| 45°   | 569.6  |
| 47.5° | 443.3  |
| 50°   | 336.4  |
| 52.5° | 248.5  |
| 55°   | 179.7  |
| 57.5° | 126.1  |
| 60°   | 91.7   |
| 62.5° | 68.9   |
| 65°   | 49.7   |
| 67.5° | 38.3   |
| 70°   | 26.8   |
| 72.5° | 19.1   |
| 75°   | 15.3   |
| 77.5° | 7.7    |
| 80°   | 7.7    |
| 82.5° | 3.8    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)