

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: P857685

Luminaire Tested: **LX4C30D010 EX4C309030 4LBNH**

Issue Date: 2/8/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857685  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/8/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C30D010 EX4C309030 4LBNH  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBN TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver:

**Summary**

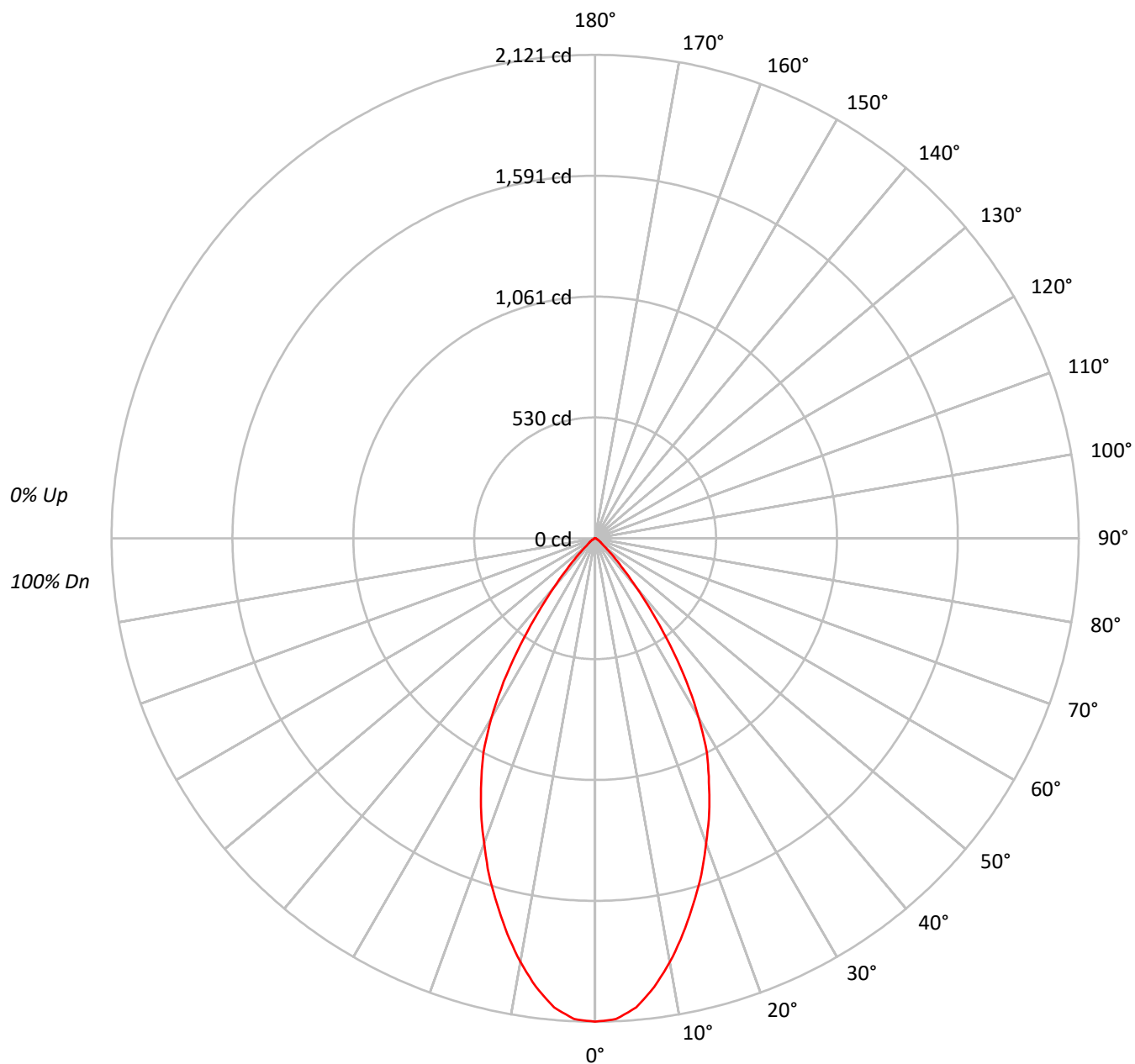
Lumens per Lamp: N/A  
Luminaire Lumens: 1689.1 lumens  
Efficiency: N/A  
Efficacy: 48.3 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 35  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 |  | 101 | 99  | 98  |  | 97  |
| 2   | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 94  | 98  | 95  | 92  |  | 95  | 93  | 90  |  | 92  |
| 3   | 102 | 96  | 91  | 87  | 100 | 95  | 90  | 86  | 92  | 88  | 85  |  | 90  | 86  | 84  |  | 87  |
| 4   | 97  | 90  | 84  | 80  | 95  | 89  | 83  | 79  | 86  | 82  | 78  |  | 84  | 81  | 78  |  | 83  |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 78  | 73  | 81  | 76  | 73  |  | 80  | 75  | 72  |  | 78  |
| 6   | 88  | 79  | 73  | 69  | 86  | 78  | 72  | 68  | 77  | 72  | 68  |  | 75  | 71  | 67  |  | 74  |
| 7   | 83  | 74  | 68  | 64  | 82  | 73  | 68  | 64  | 72  | 67  | 63  |  | 71  | 66  | 63  |  | 70  |
| 8   | 79  | 70  | 64  | 60  | 78  | 69  | 64  | 60  | 68  | 63  | 59  |  | 67  | 63  | 59  |  | 66  |
| 9   | 76  | 66  | 60  | 56  | 74  | 65  | 60  | 56  | 65  | 59  | 56  |  | 64  | 59  | 56  |  | 63  |
| 10  | 72  | 62  | 57  | 53  | 71  | 62  | 56  | 53  | 61  | 56  | 53  |  | 60  | 56  | 52  |  | 60  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 260548 |
| 5°  | 254748 |
| 10° | 235538 |
| 15° | 211347 |
| 20° | 186053 |
| 25° | 160116 |
| 30° | 128936 |
| 35° | 85831  |
| 40° | 44648  |
| 45° | 20206  |
| 50° | 8773   |
| 55° | 5890   |
| 60° | 3784   |
| 65° | 2674   |
| 70° | 2227   |
| 75° | 1424   |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 191.3  | 11.3      |
| 10°-20°   | 464.1  | 27.5      |
| 20°-30°   | 538.9  | 31.9      |
| 30°-40°   | 356.9  | 21.1      |
| 40°-50°   | 100.1  | 5.9       |
| 50°-60°   | 25.1   | 1.5       |
| 60°-70°   | 9.5    | 0.6       |
| 70°-80°   | 3.2    | 0.2       |
| 80°-90°   | 0.0    | 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°    | 1194.4 | 70.7      |
| 0°-40°    | 1551.2 | 91.8      |
| 0°-60°    | 1676.5 | 99.3      |
| 0°-90°    | 1689.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1689.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2121 |      |
| 5°  | 2066 | 191  |
| 15° | 1662 | 464  |
| 25° | 1181 | 539  |
| 35° | 572  | 357  |
| 45° | 116  | 100  |
| 55° | 28   | 25   |
| 65° | 9    | 9    |
| 75° | 3    | 3    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2120.8 |
| 2.5°  | 2111.6 |
| 5°    | 2065.7 |
| 7.5°  | 1986.0 |
| 10°   | 1888.1 |
| 12.5° | 1777.9 |
| 15°   | 1661.7 |
| 17.5° | 1548.5 |
| 20°   | 1423.1 |
| 22.5° | 1306.7 |
| 25°   | 1181.2 |
| 27.5° | 1062.0 |
| 30°   | 908.9  |
| 32.5° | 746.7  |
| 35°   | 572.3  |
| 37.5° | 410.1  |
| 40°   | 278.4  |
| 42.5° | 180.5  |
| 45°   | 116.3  |
| 47.5° | 70.5   |
| 50°   | 45.9   |
| 52.5° | 33.6   |
| 55°   | 27.5   |
| 57.5° | 21.4   |
| 60°   | 15.4   |
| 62.5° | 12.2   |
| 65°   | 9.2    |
| 67.5° | 6.2    |
| 70°   | 6.2    |
| 72.5° | 3.0    |
| 75°   | 3.0    |
| 77.5° | 3.0    |
| 80°   | 0.0    |
| 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)