

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: P859556

Luminaire Tested: **LX4C75D010 EX4C759030 4LBMDH**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C75D010 EX4C759030 4LBMDH  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LRMD45 TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

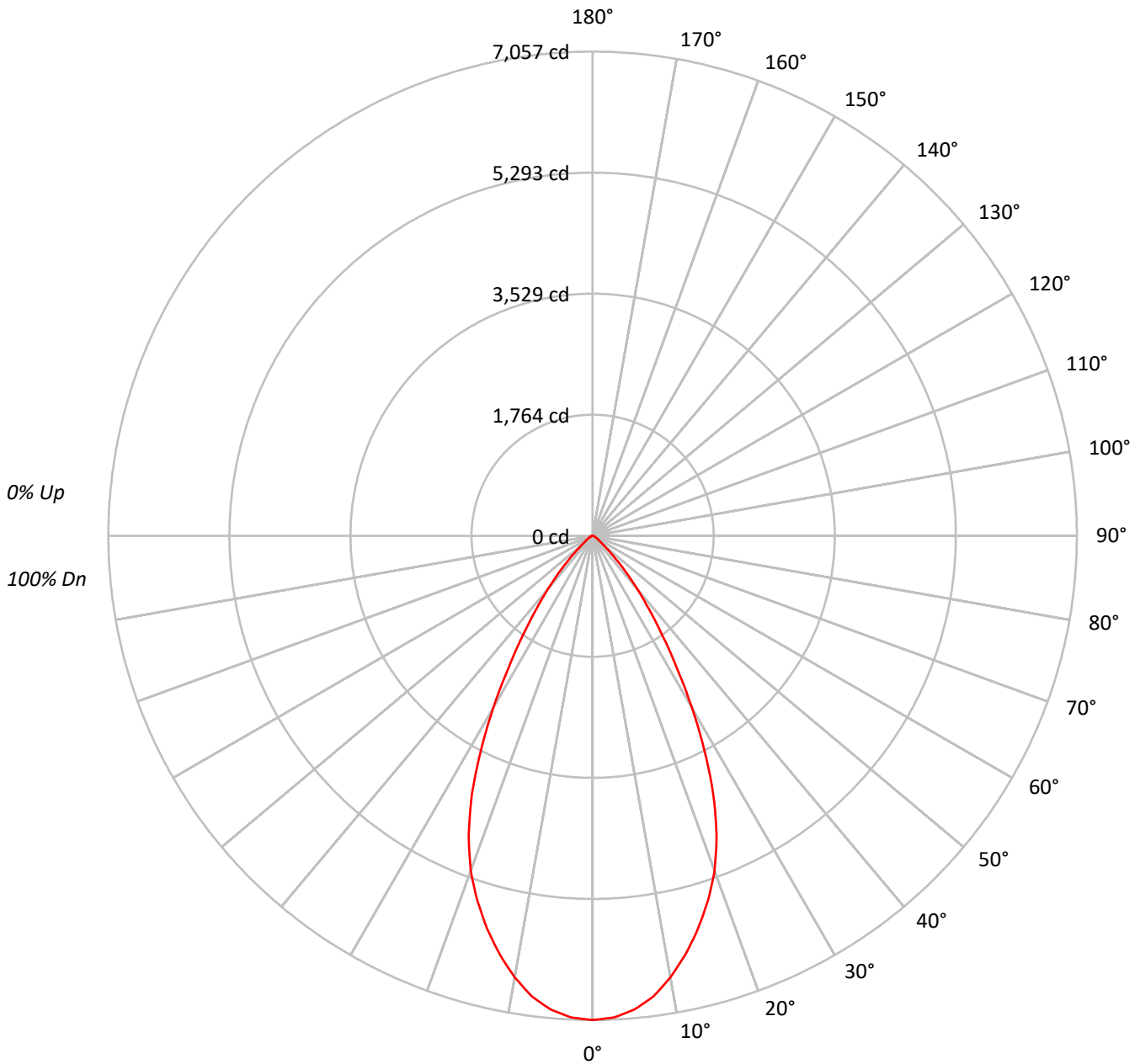
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5858.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 81.5  
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

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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  |     |    | 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 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |    |    |   |
| 2   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  | 98  | 95  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 87  |    |    |   |
| 3   | 102 | 96  | 91  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 85  | 89  | 86  | 83  | 87  | 84  | 82  | 81  |    |    |   |
| 4   | 97  | 90  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 77  | 75  |    |    |   |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 77  | 73  | 81  | 76  | 73  | 79  | 75  | 72  | 78  | 74  | 71  | 70  |    |    |   |
| 6   | 88  | 79  | 73  | 68  | 86  | 78  | 72  | 68  | 76  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 65  |    |    |   |
| 7   | 83  | 74  | 68  | 64  | 82  | 73  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 63  | 61  |    |    |   |
| 8   | 79  | 70  | 64  | 60  | 78  | 69  | 63  | 60  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 59  | 57  |    |    |   |
| 9   | 76  | 66  | 60  | 56  | 74  | 65  | 60  | 56  | 64  | 59  | 56  | 64  | 59  | 56  | 63  | 58  | 55  | 54  |    |    |   |
| 10  | 72  | 62  | 57  | 53  | 71  | 62  | 56  | 53  | 61  | 56  | 53  | 60  | 56  | 52  | 60  | 55  | 52  | 51  |    |    |   |

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

|     | 0°     |
|-----|--------|
| 0°  | 867002 |
| 5°  | 855305 |
| 10° | 815170 |
| 15° | 754322 |
| 20° | 679040 |
| 25° | 564121 |
| 30° | 410072 |
| 35° | 265818 |
| 40° | 160871 |
| 45° | 82909  |
| 50° | 37537  |
| 55° | 22597  |
| 60° | 15160  |
| 65° | 10843  |
| 70° | 8154   |
| 75° | 5411   |
| 80° | 3467   |
| 85° | 2255   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 649.3  | 11.1      |
| 10°-20°   | 1655.0 | 28.3      |
| 20°-30°   | 1871.4 | 31.9      |
| 30°-40°   | 1131.0 | 19.3      |
| 40°-50°   | 396.2  | 6.8       |
| 50°-60°   | 101.4  | 1.7       |
| 60°-70°   | 38.8   | 0.7       |
| 70°-80°   | 13.0   | 0.2       |
| 80°-90°   | 2.0    | 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°    | 4175.7 | 71.3      |
| 0°-40°    | 5306.6 | 90.6      |
| 0°-60°    | 5804.2 | 99.1      |
| 0°-90°    | 5858.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5858.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 7057 |      |
| 5°  | 6936 | 649  |
| 15° | 5931 | 1655 |
| 25° | 4162 | 1871 |
| 35° | 1772 | 1131 |
| 45° | 477  | 396  |
| 55° | 106  | 101  |
| 65° | 37   | 39   |
| 75° | 11   | 13   |
| 85° | 2    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 7057.2 |
| 2.5°  | 7028.0 |
| 5°    | 6935.5 |
| 7.5°  | 6771.5 |
| 10°   | 6534.5 |
| 12.5° | 6248.9 |
| 15°   | 5930.8 |
| 17.5° | 5581.8 |
| 20°   | 5193.9 |
| 22.5° | 4718.3 |
| 25°   | 4161.6 |
| 27.5° | 3523.7 |
| 30°   | 2890.7 |
| 32.5° | 2285.3 |
| 35°   | 1772.4 |
| 37.5° | 1343.9 |
| 40°   | 1003.1 |
| 42.5° | 720.7  |
| 45°   | 477.2  |
| 47.5° | 293.8  |
| 50°   | 196.4  |
| 52.5° | 141.2  |
| 55°   | 105.5  |
| 57.5° | 81.2   |
| 60°   | 61.7   |
| 62.5° | 48.7   |
| 65°   | 37.3   |
| 67.5° | 29.2   |
| 70°   | 22.7   |
| 72.5° | 16.2   |
| 75°   | 11.4   |
| 77.5° | 8.1    |
| 80°   | 4.9    |
| 82.5° | 3.2    |
| 85°   | 1.6    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)