

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: P#

Luminaire Tested: **LD4C90D010 EX4C909027 4LBSQH**

Issue Date: 2/9/2022



**Test Information**

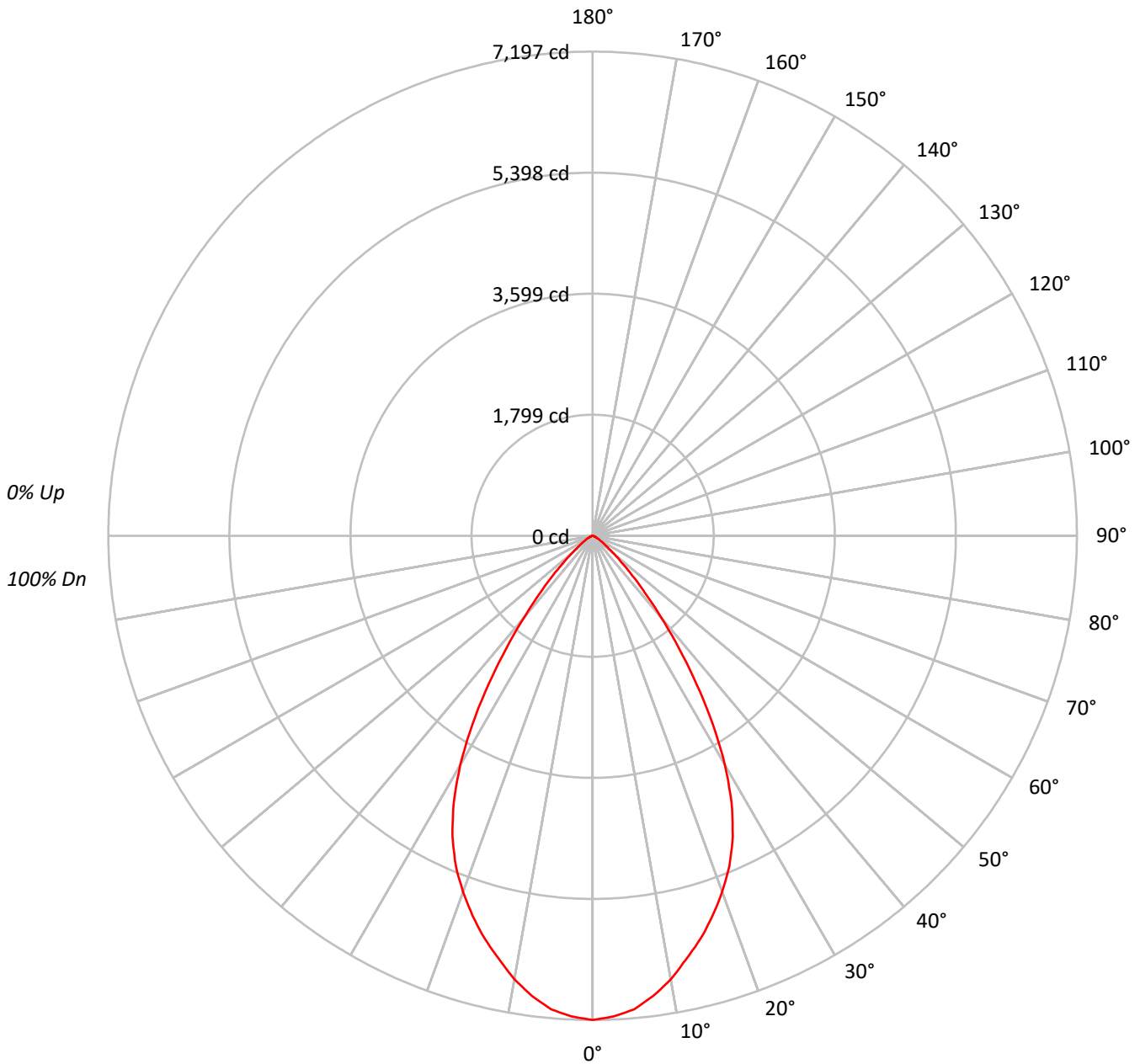
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C90D010 EX4C909027 4LBSQH  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBSQ TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7258.0 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 97.1  
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: P#  
CATALOG NUMBER: LD4C90D010 EX4C909027 4LBSQH

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909027 4LBSQH

**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  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |  | 100 |
| 1   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 95  |  | 93  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  | 94  | 91  | 89  | 91  | 89  | 87  |  | 85  |
| 3   | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  | 88  | 84  | 82  | 86  | 83  | 80  |  | 79  |
| 4   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 77  | 84  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  |  | 73  |
| 5   | 90  | 82  | 75  | 71  | 89  | 81  | 75  | 70  | 79  | 74  | 70  | 77  | 73  | 69  | 75  | 72  | 69  |  | 67  |
| 6   | 86  | 76  | 70  | 65  | 84  | 75  | 69  | 65  | 74  | 68  | 64  | 72  | 68  | 64  | 71  | 67  | 64  |  | 62  |
| 7   | 81  | 71  | 65  | 60  | 80  | 70  | 64  | 60  | 69  | 64  | 60  | 68  | 63  | 59  | 67  | 62  | 59  |  | 58  |
| 8   | 77  | 67  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 59  | 56  | 64  | 59  | 55  | 63  | 58  | 55  |  | 54  |
| 9   | 73  | 63  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 59  | 55  | 52  |  | 50  |
| 10  | 69  | 59  | 53  | 49  | 68  | 59  | 53  | 49  | 58  | 52  | 49  | 57  | 52  | 48  | 56  | 52  | 48  |  | 47  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 694411 |
| 5°  | 684327 |
| 10° | 655733 |
| 15° | 619334 |
| 20° | 578116 |
| 25° | 524792 |
| 30° | 438154 |
| 35° | 317424 |
| 40° | 198698 |
| 45° | 113572 |
| 50° | 59218  |
| 55° | 33190  |
| 60° | 21150  |
| 65° | 12512  |
| 70° | 9282   |
| 75° | 4101   |
| 80° | 6112   |
| 85° | 0      |



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909027 4LBSQH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 662.2  | 9.1       |
| 10°-20°   | 1737.3 | 23.9      |
| 20°-30°   | 2232.7 | 30.8      |
| 30°-40°   | 1679.8 | 23.1      |
| 40°-50°   | 674.6  | 9.3       |
| 50°-60°   | 191.8  | 2.6       |
| 60°-70°   | 60.7   | 0.8       |
| 70°-80°   | 17.3   | 0.2       |
| 80°-90°   | 1.5    | 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°    | 4632.2 | 63.8      |
| 0°-40°    | 6312.0 | 87.0      |
| 0°-60°    | 7178.5 | 98.9      |
| 0°-90°    | 7258.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7258.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 7197 |      |
| 5°  | 7065 | 662  |
| 15° | 6200 | 1737 |
| 25° | 4929 | 2233 |
| 35° | 2695 | 1680 |
| 45° | 832  | 675  |
| 55° | 197  | 192  |
| 65° | 55   | 61   |
| 75° | 11   | 17   |
| 85° | 0    | 1    |
| 90° | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909027 4LBSQH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 7196.8 |
| 2.5°  | 7152.9 |
| 5°    | 7065.3 |
| 7.5°  | 6900.9 |
| 10°   | 6692.7 |
| 12.5° | 6441.1 |
| 15°   | 6200.0 |
| 17.5° | 5926.1 |
| 20°   | 5630.2 |
| 22.5° | 5312.9 |
| 25°   | 4929.3 |
| 27.5° | 4469.1 |
| 30°   | 3932.6 |
| 32.5° | 3329.9 |
| 35°   | 2694.8 |
| 37.5° | 2103.0 |
| 40°   | 1577.5 |
| 42.5° | 1161.1 |
| 45°   | 832.3  |
| 47.5° | 569.8  |
| 50°   | 394.5  |
| 52.5° | 274.0  |
| 55°   | 197.3  |
| 57.5° | 142.5  |
| 60°   | 109.6  |
| 62.5° | 76.7   |
| 65°   | 54.8   |
| 67.5° | 43.8   |
| 70°   | 32.9   |
| 72.5° | 21.9   |
| 75°   | 11.0   |
| 77.5° | 11.0   |
| 80°   | 11.0   |
| 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)