

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P436695

Luminaire Tested: **LSSQ1B08359027D010TExxMB**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P436695  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-014-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSSQ1B08359027D010TExxMB  
Description: PORTFOLIO 1INCH CYLINDER, 35 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 986.0 lumens  
Efficiency: N/A  
Efficacy: 59.8 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

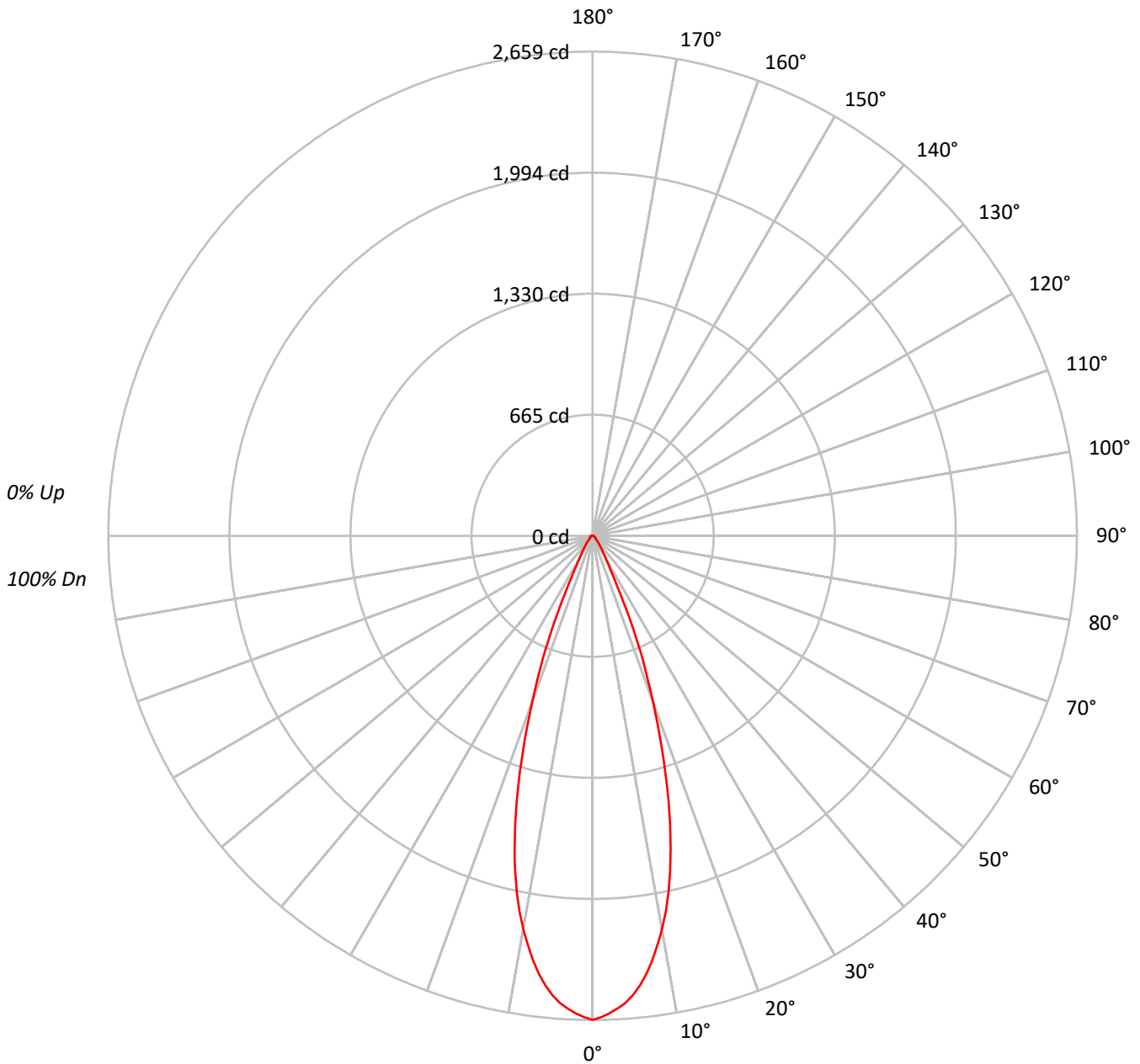
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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   | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 101 | 99  | 98  | 97  | 96  | 95  |
| 2   | 109 | 105 | 102 | 99  | 107 | 103 | 100 | 98  | 100 | 98  | 95  | 97  | 95  | 93  | 95  | 93  | 92  | 90  |
| 3   | 105 | 100 | 95  | 92  | 103 | 98  | 94  | 91  | 96  | 92  | 90  | 93  | 91  | 88  | 91  | 89  | 87  | 86  |
| 4   | 101 | 95  | 90  | 87  | 99  | 94  | 89  | 86  | 92  | 88  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 82  |
| 5   | 97  | 90  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 80  | 78  |
| 6   | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 84  | 80  | 77  | 83  | 80  | 77  | 82  | 79  | 76  | 75  |
| 7   | 91  | 83  | 78  | 75  | 89  | 82  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 72  |
| 8   | 88  | 80  | 75  | 72  | 86  | 79  | 75  | 71  | 78  | 74  | 71  | 77  | 74  | 71  | 76  | 73  | 71  | 69  |
| 9   | 85  | 77  | 72  | 69  | 84  | 76  | 72  | 69  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 71  | 68  | 67  |
| 10  | 82  | 74  | 69  | 66  | 81  | 74  | 69  | 66  | 73  | 69  | 66  | 72  | 69  | 66  | 72  | 68  | 66  | 65  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 4154162 |
| 5°  | 3972249 |
| 10° | 3478740 |
| 15° | 2655124 |
| 20° | 1606554 |
| 25° | 688050  |
| 30° | 265217  |
| 35° | 152595  |
| 40° | 95865   |
| 45° | 59661   |
| 50° | 43754   |
| 55° | 46310   |
| 60° | 46874   |
| 65° | 48063   |
| 70° | 50252   |
| 75° | 48296   |
| 80° | 44990   |
| 85° | 53782   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 230.8  | 23.4      |
| 10°-20°   | 440.0  | 44.6      |
| 20°-30°   | 200.7  | 20.4      |
| 30°-40°   | 52.7   | 5.3       |
| 40°-50°   | 22.4   | 2.3       |
| 50°-60°   | 15.1   | 1.5       |
| 60°-70°   | 12.9   | 1.3       |
| 70°-80°   | 8.4    | 0.9       |
| 80°-90°   | 2.9    | 0.3       |
| 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°    | 871.6  | 88.4      |
| 0°-40°    | 924.2  | 93.7      |
| 0°-60°    | 961.8  | 97.5      |
| 0°-90°    | 986.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 986.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2659 |      |
| 5°  | 2533 | 231  |
| 15° | 1641 | 440  |
| 25° | 399  | 201  |
| 35° | 80   | 53   |
| 45° | 27   | 22   |
| 55° | 17   | 15   |
| 65° | 13   | 13   |
| 75° | 8    | 8    |
| 85° | 3    | 3    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2658.7 |
| 1°    | 2644.7 |
| 2°    | 2624.7 |
| 3°    | 2600.7 |
| 4°    | 2571.7 |
| 5°    | 2532.6 |
| 6°    | 2483.6 |
| 7°    | 2424.6 |
| 8°    | 2352.6 |
| 9°    | 2274.6 |
| 10°   | 2192.6 |
| 11°   | 2102.5 |
| 12°   | 2002.5 |
| 13°   | 1891.5 |
| 14°   | 1770.5 |
| 15°   | 1641.4 |
| 16°   | 1509.4 |
| 17°   | 1371.4 |
| 18°   | 1233.3 |
| 19°   | 1097.3 |
| 20°   | 966.2  |
| 21°   | 846.2  |
| 22°   | 735.2  |
| 23°   | 620.2  |
| 24°   | 503.1  |
| 25°   | 399.1  |
| 26°   | 314.1  |
| 27°   | 250.1  |
| 28°   | 205.1  |
| 29°   | 172.0  |
| 30°   | 147.0  |
| 32.5° | 106.0  |
| 35°   | 80.0   |
| 37.5° | 60.0   |
| 40°   | 47.0   |
| 42.5° | 36.0   |
| 45°   | 27.0   |
| 47.5° | 22.0   |
| 50°   | 18.0   |
| 52.5° | 18.0   |
| 55°   | 17.0   |
| 57.5° | 16.0   |
| 60°   | 15.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   |
|-------|------|
| 67.5° | 12.0 |
| 70°   | 11.0 |
| 72.5° | 9.0  |
| 75°   | 8.0  |
| 77.5° | 7.0  |
| 80°   | 5.0  |
| 82.5° | 4.0  |
| 85°   | 3.0  |
| 87.5° | 1.0  |
| 90°   | 0.0  |



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— 0°-180°







|       |  |             |
|-------|--|-------------|
| 62.5° |  | <i>14.0</i> |
| 65°   |  | <i>13.0</i> |



(END OF REPORT)