

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: P434080

Luminaire Tested: **LAMR4B308R359727DE01021MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P434080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAMR4B308R359727DE01021MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2050.0 lumens  
Efficiency: N/A  
Efficacy: 64.3 lumens/watt  
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

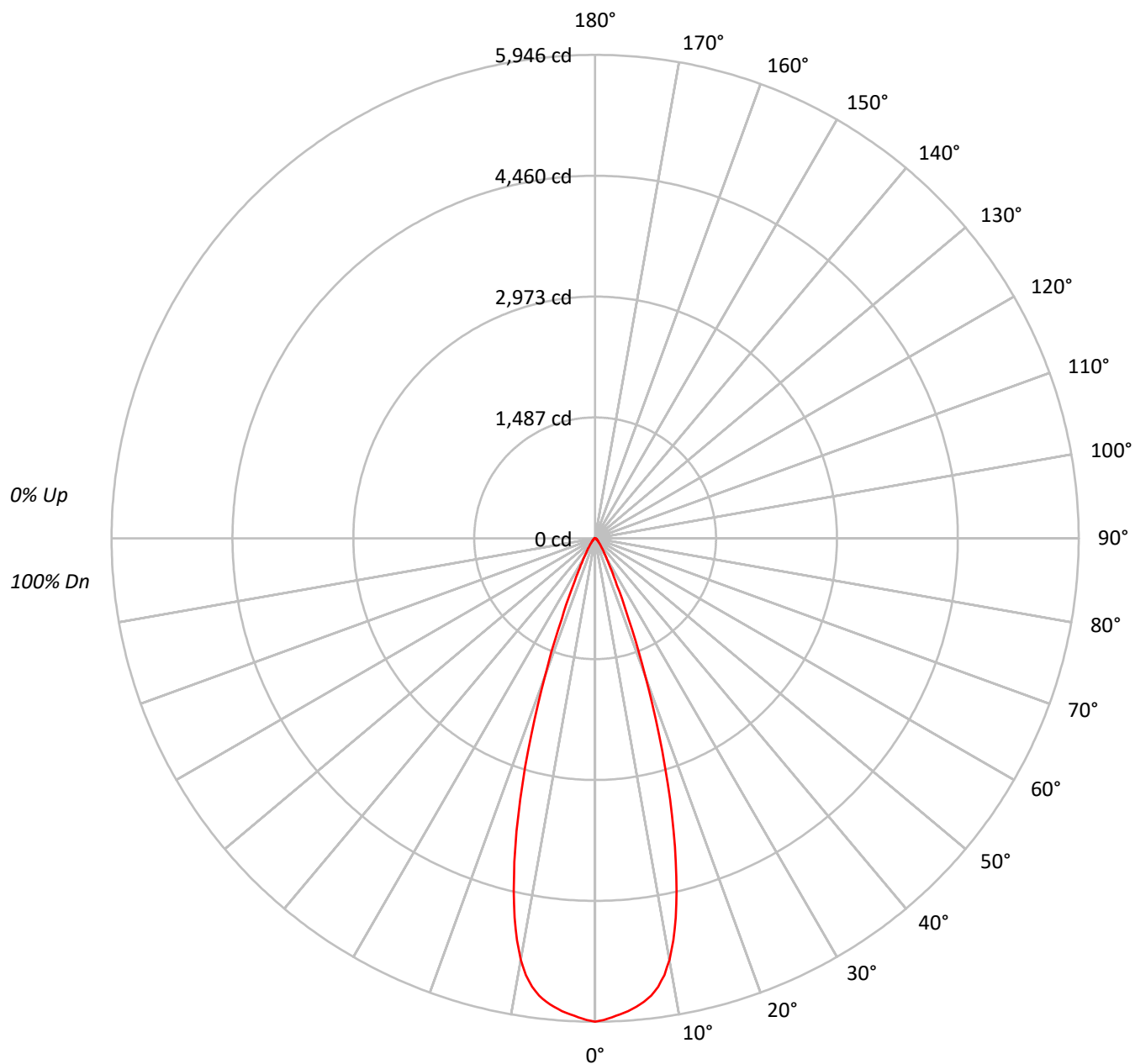
Input Watts (W): 31.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 105 | 103 |  | 102 | 101 | 100 |  | 99  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 97  |  | 98  | 96  | 95  |  | 96  |
| 3   | 106 | 101 | 97  | 94  | 104 | 100 | 96  | 93  | 97  | 94  | 92  |  | 95  | 92  | 90  |  | 93  |
| 4   | 102 | 96  | 92  | 89  | 101 | 95  | 91  | 88  | 93  | 90  | 87  |  | 91  | 88  | 86  |  | 90  |
| 5   | 99  | 92  | 88  | 84  | 97  | 91  | 87  | 84  | 90  | 86  | 83  |  | 88  | 85  | 83  |  | 87  |
| 6   | 96  | 89  | 84  | 81  | 94  | 88  | 84  | 80  | 87  | 83  | 80  |  | 85  | 82  | 79  |  | 84  |
| 7   | 92  | 85  | 81  | 77  | 91  | 85  | 80  | 77  | 84  | 80  | 77  |  | 82  | 79  | 76  |  | 81  |
| 8   | 90  | 82  | 78  | 74  | 88  | 82  | 77  | 74  | 81  | 77  | 74  |  | 80  | 76  | 74  |  | 79  |
| 9   | 87  | 79  | 75  | 72  | 86  | 79  | 75  | 72  | 78  | 74  | 71  |  | 77  | 74  | 71  |  | 77  |
| 10  | 84  | 77  | 72  | 69  | 83  | 76  | 72  | 69  | 76  | 72  | 69  |  | 75  | 71  | 69  |  | 74  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 2933635 |
| 5°  | 2866044 |
| 10° | 2637466 |
| 15° | 1906297 |
| 20° | 941718  |
| 25° | 345466  |
| 30° | 155758  |
| 35° | 84805   |
| 40° | 52555   |
| 45° | 35585   |
| 50° | 26634   |
| 55° | 22795   |
| 60° | 20130   |
| 65° | 19029   |
| 70° | 17599   |
| 75° | 15631   |
| 80° | 17332   |
| 85° | 11322   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 537.7  | 26.2      |
| 10°-20°   | 982.7  | 47.9      |
| 20°-30°   | 342.1  | 16.7      |
| 30°-40°   | 94.8   | 4.6       |
| 40°-50°   | 41.2   | 2.0       |
| 50°-60°   | 23.9   | 1.2       |
| 60°-70°   | 16.2   | 0.8       |
| 70°-80°   | 8.9    | 0.4       |
| 80°-90°   | 2.5    | 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°    | 1862.6 | 90.9      |
| 0°-40°    | 1957.4 | 95.5      |
| 0°-60°    | 2022.5 | 98.7      |
| 0°-90°    | 2050.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2050.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5946 |      |
| 5°  | 5787 | 538  |
| 15° | 3732 | 983  |
| 25° | 635  | 342  |
| 35° | 141  | 95   |
| 45° | 51   | 41   |
| 55° | 26   | 24   |
| 65° | 16   | 16   |
| 75° | 8    | 9    |
| 85° | 2    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 5946.0 |
| 1°    | 5925.6 |
| 2°    | 5895.0 |
| 3°    | 5864.4 |
| 4°    | 5829.7 |
| 5°    | 5786.9 |
| 6°    | 5733.8 |
| 7°    | 5668.5 |
| 8°    | 5568.5 |
| 9°    | 5440.0 |
| 10°   | 5264.5 |
| 11°   | 5040.0 |
| 12°   | 4768.7 |
| 13°   | 4450.3 |
| 14°   | 4101.4 |
| 15°   | 3732.1 |
| 16°   | 3338.3 |
| 17°   | 2942.4 |
| 18°   | 2544.5 |
| 19°   | 2160.9 |
| 20°   | 1793.6 |
| 22.5° | 1069.2 |
| 25°   | 634.6  |
| 26°   | 528.5  |
| 27°   | 440.7  |
| 28°   | 373.4  |
| 29°   | 318.3  |
| 30°   | 273.4  |
| 32.5° | 193.8  |
| 35°   | 140.8  |
| 37.5° | 106.1  |
| 40°   | 81.6   |
| 42.5° | 63.3   |
| 45°   | 51.0   |
| 47.5° | 42.9   |
| 50°   | 34.7   |
| 52.5° | 30.6   |
| 55°   | 26.5   |
| 57.5° | 22.4   |
| 60°   | 20.4   |
| 62.5° | 18.4   |
| 65°   | 16.3   |
| 67.5° | 14.3   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 75°   | 8.2 |
| 77.5° | 6.1 |
| 80°   | 6.1 |
| 82.5° | 4.1 |
| 85°   | 2.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |



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— 0°-180°







|       |      |
|-------|------|
| 70°   | 12.2 |
| 72.5° | 10.2 |



(END OF REPORT)