

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: P247325

Luminaire Tested: **LD8B120D010 ER8B120950 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201734)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120950 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10813.9 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

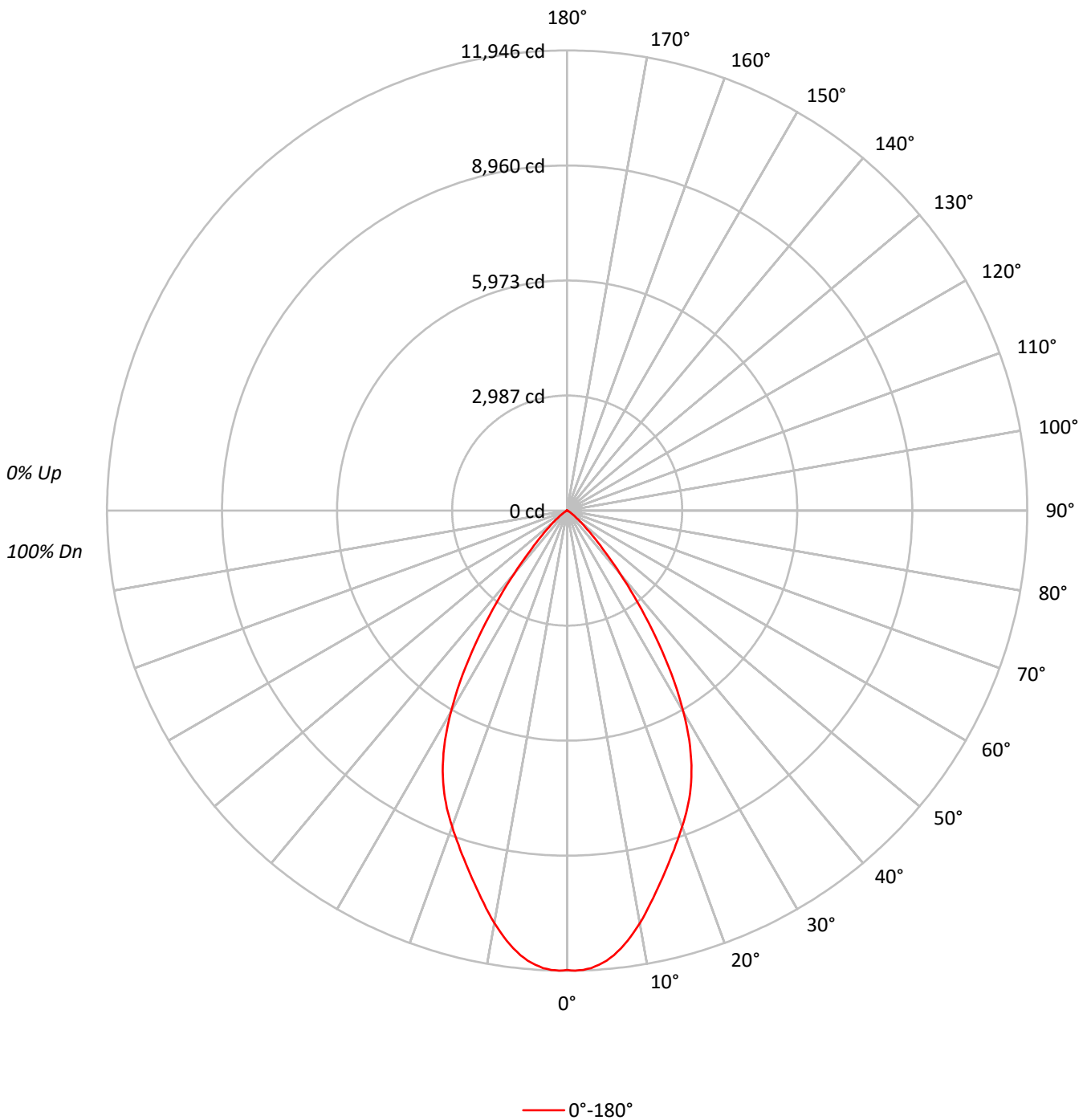
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2   | 108 | 103 | 99  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 86  |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 86  | 91  | 87  | 84  | 89  | 86  | 83  | 87  | 84  | 82  | 80  |
| 4   | 97  | 89  | 83  | 79  | 95  | 88  | 82  | 78  | 86  | 81  | 77  | 84  | 80  | 77  | 82  | 78  | 76  | 74  |
| 5   | 92  | 83  | 77  | 73  | 90  | 82  | 76  | 72  | 80  | 75  | 72  | 79  | 74  | 71  | 77  | 73  | 70  | 69  |
| 6   | 87  | 78  | 72  | 67  | 85  | 77  | 71  | 67  | 75  | 70  | 66  | 74  | 69  | 66  | 73  | 69  | 66  | 64  |
| 7   | 82  | 73  | 67  | 62  | 81  | 72  | 66  | 62  | 71  | 66  | 62  | 70  | 65  | 61  | 68  | 64  | 61  | 60  |
| 8   | 78  | 68  | 62  | 58  | 77  | 68  | 62  | 58  | 67  | 61  | 58  | 66  | 61  | 57  | 65  | 60  | 57  | 56  |
| 9   | 74  | 64  | 58  | 54  | 73  | 64  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 52  |
| 10  | 71  | 61  | 55  | 51  | 70  | 60  | 55  | 51  | 60  | 54  | 51  | 59  | 54  | 51  | 58  | 54  | 50  | 49  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 367846 |
| 5°  | 363104 |
| 10° | 340415 |
| 15° | 311289 |
| 20° | 286573 |
| 25° | 259669 |
| 30° | 215011 |
| 35° | 150788 |
| 40° | 85805  |
| 45° | 42113  |
| 50° | 20772  |
| 55° | 9424   |
| 60° | 4465   |
| 65° | 2415   |
| 70° | 243    |
| 75° | 322    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1091.6  | 10.1      |
| 10°-20°   | 2737.2  | 25.3      |
| 20°-30°   | 3455.4  | 32.0      |
| 30°-40°   | 2485.6  | 23.0      |
| 40°-50°   | 822.7   | 7.6       |
| 50°-60°   | 179.2   | 1.7       |
| 60°-70°   | 36.8    | 0.3       |
| 70°-80°   | 3.6     | 0.0       |
| 80°-90°   | 1.8     | 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°    | 7284.2  | 67.4      |
| 0°-40°    | 9769.8  | 90.3      |
| 0°-60°    | 10771.7 | 99.6      |
| 0°-90°    | 10813.9 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10813.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 11929 |      |
| 5°  | 11730 | ###  |
| 15° | 9751  | 2737 |
| 25° | 7632  | 3455 |
| 35° | 4006  | 2486 |
| 45° | 966   | 823  |
| 55° | 175   | 179  |
| 65° | 33    | 37   |
| 75° | 3     | 4    |
| 85° | 0     | 2    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 11929.0 |
| 1°    | 11945.7 |
| 2°    | 11931.7 |
| 3°    | 11892.4 |
| 4°    | 11819.3 |
| 5°    | 11730.4 |
| 6°    | 11608.4 |
| 7°    | 11449.5 |
| 8°    | 11274.2 |
| 9°    | 11082.5 |
| 10°   | 10871.7 |
| 11°   | 10656.4 |
| 12°   | 10422.0 |
| 13°   | 10196.1 |
| 14°   | 9968.9  |
| 15°   | 9750.9  |
| 16°   | 9536.3  |
| 17°   | 9330.5  |
| 18°   | 9126.5  |
| 19°   | 8930.4  |
| 20°   | 8732.9  |
| 21°   | 8530.6  |
| 22°   | 8333.1  |
| 23°   | 8118.1  |
| 24°   | 7886.5  |
| 25°   | 7631.9  |
| 26°   | 7364.7  |
| 27°   | 7067.0  |
| 28°   | 6752.3  |
| 29°   | 6402.7  |
| 30°   | 6038.5  |
| 31°   | 5655.4  |
| 32°   | 5252.2  |
| 33°   | 4829.1  |
| 34°   | 4415.3  |
| 35°   | 4005.6  |
| 37.5° | 3008.1  |
| 40°   | 2131.6  |
| 42.5° | 1444.1  |
| 45°   | 965.7   |
| 47.5° | 647.9   |
| 50°   | 433.0   |
| 52.5° | 261.4   |
| 55°   | 175.3   |
| 57.5° | 122.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   |
|-------|------|
| 60°   | 72.4 |
| 62.5° | 49.5 |
| 65°   | 33.1 |
| 67.5° | 29.7 |
| 70°   | 2.7  |
| 72.5° | 6.8  |
| 75°   | 2.7  |
| 77.5° | 2.7  |
| 80°   | 0.0  |
| 82.5° | 6.8  |
| 85°   | 0.0  |
| 87.5° | 0.0  |
| 90°   | 0.0  |

(END OF REPORT)