

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: P247320

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247320  
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: LSR8B100D010 EC8B100940 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9213.9 lumens  
Efficiency: N/A  
Efficacy: 86.7 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

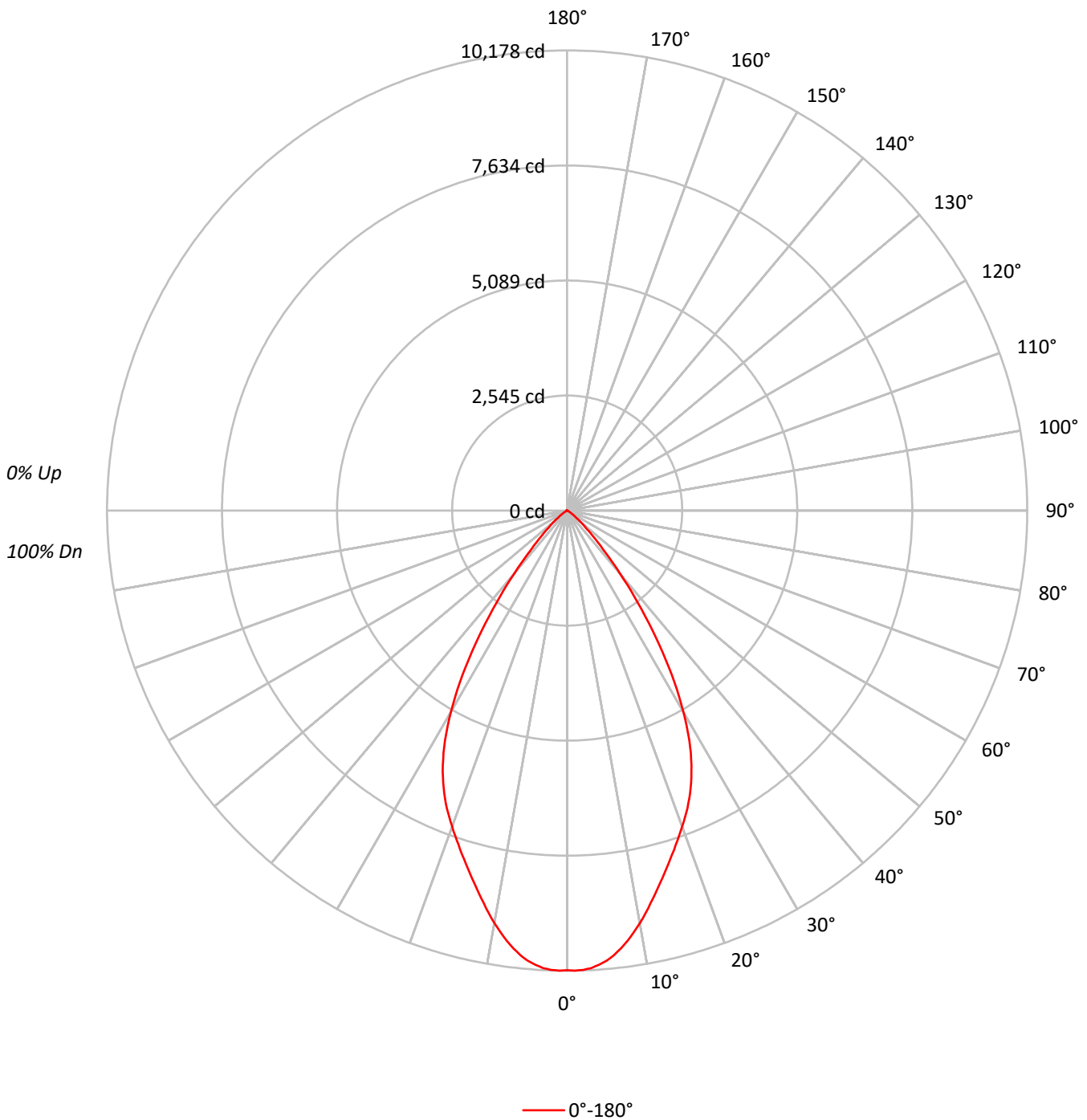
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 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°  | 313420 |
| 5°  | 309380 |
| 10° | 290046 |
| 15° | 265232 |
| 20° | 244172 |
| 25° | 221249 |
| 30° | 183197 |
| 35° | 128476 |
| 40° | 73109  |
| 45° | 35882  |
| 50° | 17697  |
| 55° | 8032   |
| 60° | 3805   |
| 65° | 2058   |
| 70° | 207    |
| 75° | 274    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 930.1  | 10.1      |
| 10°-20°   | 2332.2 | 25.3      |
| 20°-30°   | 2944.1 | 32.0      |
| 30°-40°   | 2117.8 | 23.0      |
| 40°-50°   | 701.0  | 7.6       |
| 50°-60°   | 152.6  | 1.7       |
| 60°-70°   | 31.4   | 0.3       |
| 70°-80°   | 3.0    | 0.0       |
| 80°-90°   | 1.6    | 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°    | 6206.5 | 67.4      |
| 0°-40°    | 8324.3 | 90.3      |
| 0°-60°    | 9177.9 | 99.6      |
| 0°-90°    | 9213.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9213.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 10164 |      |
| 5°  | 9995  | 930  |
| 15° | 8308  | 2332 |
| 25° | 6503  | 2944 |
| 35° | 3413  | 2118 |
| 45° | 823   | 701  |
| 55° | 149   | 153  |
| 65° | 28    | 31   |
| 75° | 2     | 3    |
| 85° | 0     | 2    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |         |
|-------|---------|
| 0°    | 10164.0 |
| 1°    | 10178.3 |
| 2°    | 10166.3 |
| 3°    | 10132.8 |
| 4°    | 10070.5 |
| 5°    | 9994.8  |
| 6°    | 9890.9  |
| 7°    | 9755.5  |
| 8°    | 9606.1  |
| 9°    | 9442.8  |
| 10°   | 9263.1  |
| 11°   | 9079.7  |
| 12°   | 8880.0  |
| 13°   | 8687.5  |
| 14°   | 8493.9  |
| 15°   | 8308.2  |
| 16°   | 8125.3  |
| 17°   | 7950.0  |
| 18°   | 7776.2  |
| 19°   | 7609.1  |
| 20°   | 7440.8  |
| 21°   | 7268.4  |
| 22°   | 7100.1  |
| 23°   | 6917.0  |
| 24°   | 6719.6  |
| 25°   | 6502.7  |
| 26°   | 6275.0  |
| 27°   | 6021.4  |
| 28°   | 5753.3  |
| 29°   | 5455.4  |
| 30°   | 5145.0  |
| 31°   | 4818.6  |
| 32°   | 4475.1  |
| 33°   | 4114.6  |
| 34°   | 3762.0  |
| 35°   | 3412.9  |
| 37.5° | 2563.1  |
| 40°   | 1816.2  |
| 42.5° | 1230.4  |
| 45°   | 822.8   |
| 47.5° | 552.0   |
| 50°   | 368.9   |
| 52.5° | 222.7   |
| 55°   | 149.4   |
| 57.5° | 103.9   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   |
|-------|------|
| 60°   | 61.7 |
| 62.5° | 42.2 |
| 65°   | 28.2 |
| 67.5° | 25.3 |
| 70°   | 2.3  |
| 72.5° | 5.8  |
| 75°   | 2.3  |
| 77.5° | 2.3  |
| 80°   | 0.0  |
| 82.5° | 5.8  |
| 85°   | 0.0  |
| 87.5° | 0.0  |
| 90°   | 0.0  |

(END OF REPORT)