

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: P244704

Luminaire Tested: **LSR8B10D010 EC8B10935 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-44)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B10D010 EC8B10935 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 940.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

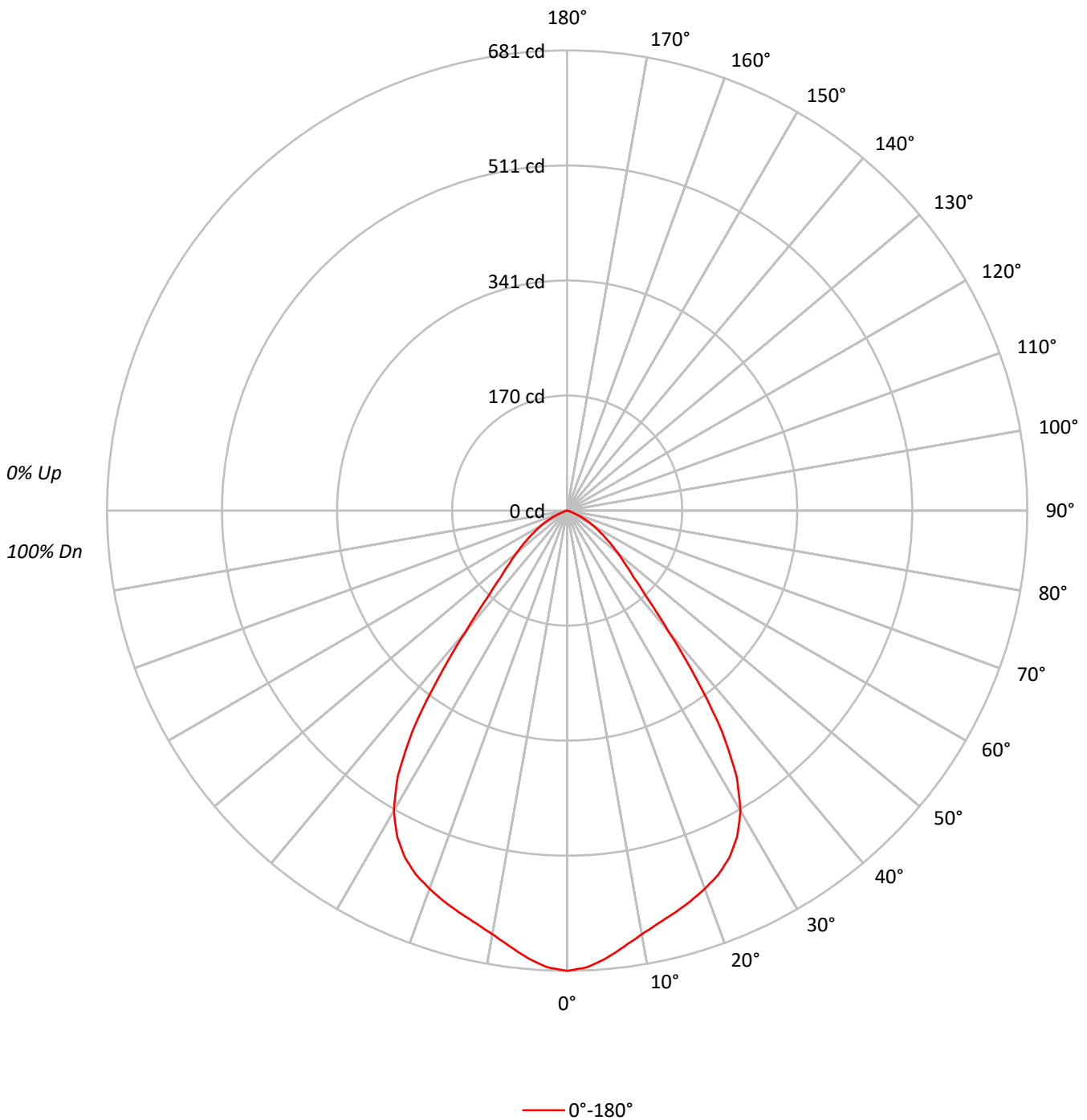
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 84  | 83  |
| 3   | 99  | 91  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 75  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 73  | 68  | 64  | 71  | 67  | 63  | 62  |
| 6   | 82  | 71  | 64  | 59  | 80  | 70  | 64  | 59  | 69  | 63  | 59  | 67  | 62  | 58  | 66  | 61  | 58  | 56  |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 59  | 54  | 64  | 58  | 54  | 63  | 57  | 53  | 61  | 57  | 53  | 51  |
| 8   | 72  | 61  | 54  | 50  | 71  | 61  | 54  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 57  | 53  | 49  | 47  |
| 9   | 68  | 57  | 50  | 46  | 67  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 45  | 54  | 49  | 45  | 44  |
| 10  | 65  | 54  | 47  | 42  | 63  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 46  | 42  | 41  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 21006 |
| 5°  | 20584 |
| 10° | 19933 |
| 15° | 19662 |
| 20° | 19545 |
| 25° | 19298 |
| 30° | 18263 |
| 35° | 15061 |
| 40° | 9403  |
| 45° | 6049  |
| 50° | 4692  |
| 55° | 3613  |
| 60° | 2738  |
| 65° | 1780  |
| 70° | 757   |
| 75° | 369   |
| 80° | 160   |
| 85° | 106   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.5   | 6.7       |
| 10°-20°   | 174.0  | 18.5      |
| 20°-30°   | 259.2  | 27.6      |
| 30°-40°   | 240.7  | 25.6      |
| 40°-50°   | 113.7  | 12.1      |
| 50°-60°   | 61.1   | 6.5       |
| 60°-70°   | 24.6   | 2.6       |
| 70°-80°   | 3.8    | 0.4       |
| 80°-90°   | 0.4    | 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°    | 495.8  | 52.7      |
| 0°-40°    | 736.5  | 78.3      |
| 0°-60°    | 911.3  | 96.9      |
| 0°-90°    | 940.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 940.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 681 |      |
| 5°  | 665 | 63   |
| 15° | 616 | 174  |
| 25° | 567 | 259  |
| 35° | 400 | 241  |
| 45° | 139 | 114  |
| 55° | 67  | 61   |
| 65° | 24  | 25   |
| 75° | 3   | 4    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 681.2 |
| 2.5°  | 676.5 |
| 5°    | 665.0 |
| 7.5°  | 650.3 |
| 10°   | 636.6 |
| 12.5° | 625.3 |
| 15°   | 615.9 |
| 17.5° | 606.3 |
| 20°   | 595.6 |
| 22.5° | 583.5 |
| 25°   | 567.2 |
| 27.5° | 544.4 |
| 30°   | 512.9 |
| 32.5° | 466.6 |
| 35°   | 400.1 |
| 37.5° | 315.2 |
| 40°   | 233.6 |
| 42.5° | 174.0 |
| 45°   | 138.7 |
| 47.5° | 115.9 |
| 50°   | 97.8  |
| 52.5° | 81.5  |
| 55°   | 67.2  |
| 57.5° | 54.7  |
| 60°   | 44.4  |
| 62.5° | 34.7  |
| 65°   | 24.4  |
| 67.5° | 14.4  |
| 70°   | 8.4   |
| 72.5° | 5.0   |
| 75°   | 3.1   |
| 77.5° | 1.9   |
| 80°   | 0.9   |
| 82.5° | 0.6   |
| 85°   | 0.3   |
| 87.5° | 0.0   |
| 90°   | 0.0   |

(END OF REPORT)