

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: P243868

Luminaire Tested: **LSR8B40D010 EC8B40930 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40930 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3833.8 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

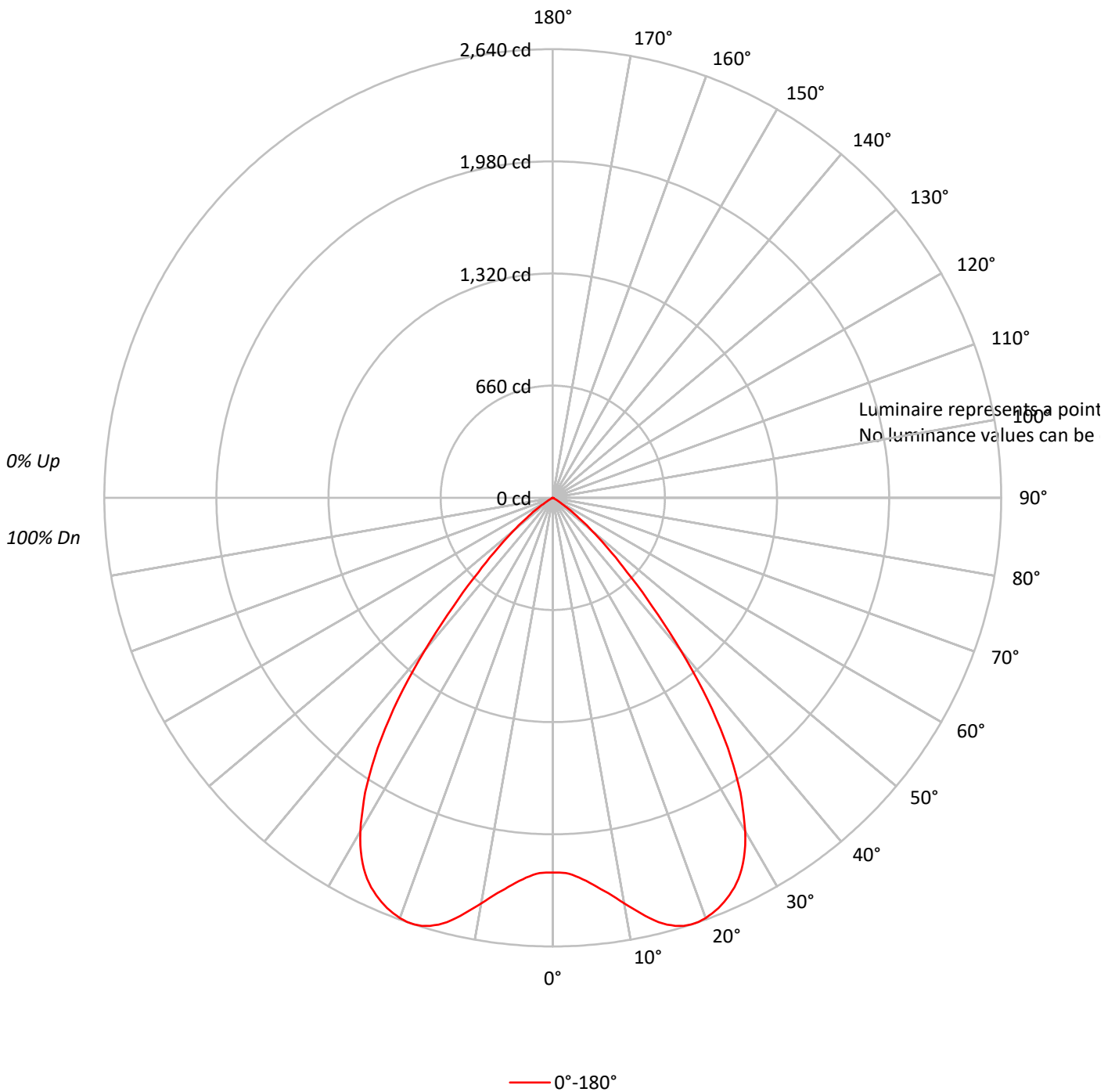
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 |  | 100 | 98  | 97  |  | 96  | 95  | 94  | 92  |
| 2   | 106 | 101 | 97  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 90  |  | 93  | 90  | 88  |  | 90  | 88  | 86  | 84  |
| 3   | 100 | 93  | 87  | 83  | 98  | 92  | 86  | 82  | 89  | 85  | 81  |  | 86  | 83  | 80  |  | 84  | 81  | 78  | 77  |
| 4   | 94  | 86  | 79  | 75  | 92  | 84  | 79  | 74  | 82  | 77  | 73  |  | 80  | 76  | 72  |  | 78  | 75  | 72  | 70  |
| 5   | 88  | 79  | 72  | 68  | 87  | 78  | 72  | 67  | 76  | 71  | 67  |  | 74  | 70  | 66  |  | 73  | 69  | 65  | 64  |
| 6   | 83  | 73  | 66  | 62  | 82  | 72  | 66  | 61  | 71  | 65  | 61  |  | 69  | 64  | 60  |  | 68  | 63  | 60  | 58  |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  |  | 64  | 59  | 55  |  | 63  | 59  | 55  | 54  |
| 8   | 74  | 63  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 55  | 51  |  | 60  | 55  | 51  |  | 59  | 54  | 51  | 49  |
| 9   | 70  | 59  | 52  | 48  | 68  | 58  | 52  | 47  | 57  | 51  | 47  |  | 56  | 51  | 47  |  | 55  | 50  | 47  | 45  |
| 10  | 66  | 55  | 48  | 44  | 65  | 54  | 48  | 44  | 53  | 48  | 44  |  | 53  | 47  | 44  |  | 52  | 47  | 43  | 42  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 221.2  | 5.8       |
| 10°-20°   | 732.9  | 19.1      |
| 20°-30°   | 1153.1 | 30.1      |
| 30°-40°   | 1096.9 | 28.6      |
| 40°-50°   | 505.7  | 13.2      |
| 50°-60°   | 114.9  | 3.0       |
| 60°-70°   | 7.6    | 0.2       |
| 70°-80°   | 1.5    | 0.0       |
| 80°-90°   | 0.1    | 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°    | 2107.2 | 55.0      |
| 0°-40°    | 3204.0 | 83.6      |
| 0°-60°    | 3824.6 | 99.8      |
| 0°-90°    | 3833.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3833.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2206 |      |
| 5°  | 2262 | 221  |
| 15° | 2600 | 733  |
| 25° | 2529 | 1153 |
| 35° | 1798 | 1097 |
| 45° | 619  | 506  |
| 55° | 111  | 115  |
| 65° | 5    | 8    |
| 75° | 1    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2205.9 |
| 1°    | 2204.8 |
| 2°    | 2209.0 |
| 3°    | 2221.6 |
| 4°    | 2240.4 |
| 5°    | 2262.5 |
| 6°    | 2289.8 |
| 7°    | 2319.1 |
| 8°    | 2349.6 |
| 9°    | 2385.3 |
| 10°   | 2422.9 |
| 11°   | 2460.7 |
| 12°   | 2500.6 |
| 13°   | 2538.4 |
| 14°   | 2573.0 |
| 15°   | 2600.3 |
| 16°   | 2620.2 |
| 17°   | 2633.8 |
| 18°   | 2640.1 |
| 19°   | 2639.1 |
| 20°   | 2631.8 |
| 21°   | 2619.1 |
| 22°   | 2603.4 |
| 23°   | 2582.4 |
| 24°   | 2558.3 |
| 25°   | 2529.0 |
| 26°   | 2494.3 |
| 27°   | 2450.3 |
| 28°   | 2397.8 |
| 29°   | 2336.9 |
| 30°   | 2266.7 |
| 32.5° | 2055.9 |
| 35°   | 1797.9 |
| 37.5° | 1497.9 |
| 40°   | 1170.5 |
| 42.5° | 865.3  |
| 45°   | 618.9  |
| 47.5° | 438.4  |
| 50°   | 302.1  |
| 52.5° | 193.0  |
| 55°   | 111.2  |
| 57.5° | 55.6   |
| 60°   | 24.1   |
| 62.5° | 9.4    |
| 65°   | 5.3    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 67.5° | 3.1 |
| 70°   | 2.1 |
| 72.5° | 2.1 |
| 75°   | 1.0 |
| 77.5° | 1.0 |
| 80°   | 1.0 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)