

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: P249924

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80940 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7248.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

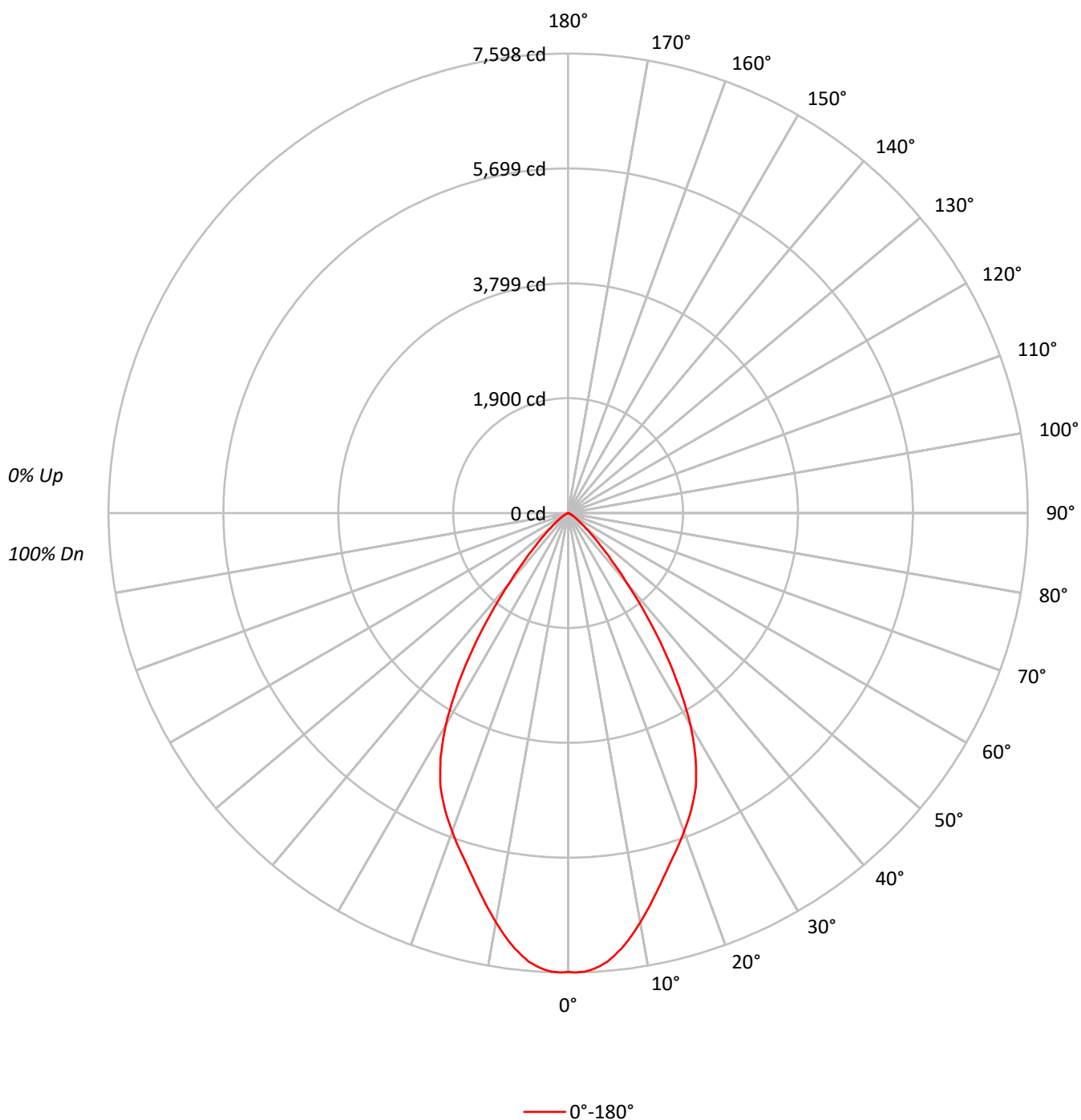
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 30  | 10  |    |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |    |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |    |
| 1   | 113 | 110 | 108 | 105 |  | 111 | 108 | 106 | 104 |  | 104 | 102 | 101 |  | 100 | 99  | 98  |  | 97  | 96  | 95  |    |
| 2   | 107 | 102 | 98  | 94  |  | 105 | 100 | 97  | 93  |  | 97  | 94  | 91  |  | 94  | 92  | 89  |  | 91  | 89  | 87  |    |
| 3   | 101 | 95  | 90  | 85  |  | 99  | 93  | 89  | 85  |  | 91  | 87  | 83  |  | 88  | 85  | 82  |  | 86  | 83  | 81  |    |
| 4   | 96  | 88  | 82  | 78  |  | 94  | 87  | 82  | 77  |  | 85  | 80  | 76  |  | 83  | 79  | 76  |  | 81  | 77  | 75  |    |
| 5   | 91  | 82  | 76  | 71  |  | 89  | 81  | 75  | 71  |  | 79  | 74  | 70  |  | 78  | 73  | 70  |  | 76  | 72  | 69  |    |
| 6   | 86  | 77  | 70  | 66  |  | 84  | 76  | 70  | 66  |  | 74  | 69  | 65  |  | 73  | 68  | 65  |  | 71  | 67  | 64  |    |
| 7   | 81  | 72  | 65  | 61  |  | 80  | 71  | 65  | 61  |  | 70  | 64  | 60  |  | 68  | 64  | 60  |  | 67  | 63  | 60  |    |
| 8   | 77  | 67  | 61  | 57  |  | 76  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  | 60  | 56  |  | 63  | 59  | 56  |    |
| 9   | 73  | 63  | 57  | 53  |  | 72  | 63  | 57  | 53  |  | 62  | 56  | 53  |  | 61  | 56  | 52  |  | 60  | 55  | 52  |    |
| 10  | 70  | 60  | 53  | 49  |  | 69  | 59  | 53  | 49  |  | 58  | 53  | 49  |  | 57  | 53  | 49  |  | 57  | 52  | 49  |    |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 233934 |
| 5°  | 230490 |
| 10° | 215104 |
| 15° | 197444 |
| 20° | 183890 |
| 25° | 169899 |
| 30° | 144075 |
| 35° | 103646 |
| 40° | 61057  |
| 45° | 32628  |
| 50° | 17026  |
| 55° | 9602   |
| 60° | 5298   |
| 65° | 3130   |
| 70° | 1425   |
| 75° | 810    |
| 80° | 408    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 691.6  | 9.5       |
| 10°-20°   | 1740.1 | 24.0      |
| 20°-30°   | 2259.0 | 31.2      |
| 30°-40°   | 1705.1 | 23.5      |
| 40°-50°   | 623.9  | 8.6       |
| 50°-60°   | 174.4  | 2.4       |
| 60°-70°   | 45.8   | 0.6       |
| 70°-80°   | 7.7    | 0.1       |
| 80°-90°   | 0.3    | 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°    | 4690.8 | 64.7      |
| 0°-40°    | 6395.8 | 88.2      |
| 0°-60°    | 7194.2 | 99.3      |
| 0°-90°    | 7248.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7248.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 7586 |      |
| 5°  | 7446 | 692  |
| 15° | 6185 | 1740 |
| 25° | 4994 | 2259 |
| 35° | 2753 | 1705 |
| 45° | 748  | 624  |
| 55° | 179  | 174  |
| 65° | 43   | 46   |
| 75° | 7    | 8    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 7586.3 |
| 1°    | 7597.6 |
| 2°    | 7588.6 |
| 3°    | 7559.2 |
| 4°    | 7509.5 |
| 5°    | 7446.2 |
| 6°    | 7353.5 |
| 7°    | 7251.8 |
| 8°    | 7134.2 |
| 9°    | 7005.4 |
| 10°   | 6869.7 |
| 11°   | 6734.1 |
| 12°   | 6594.0 |
| 13°   | 6451.5 |
| 14°   | 6315.9 |
| 15°   | 6184.8 |
| 16°   | 6060.5 |
| 17°   | 5940.7 |
| 18°   | 5832.2 |
| 19°   | 5719.1 |
| 20°   | 5603.8 |
| 22.5° | 5316.8 |
| 25°   | 4993.5 |
| 27.5° | 4566.3 |
| 30°   | 4046.3 |
| 32.5° | 3420.2 |
| 35°   | 2753.3 |
| 37.5° | 2102.3 |
| 40°   | 1516.8 |
| 42.5° | 1073.8 |
| 45°   | 748.2  |
| 47.5° | 526.7  |
| 50°   | 354.9  |
| 52.5° | 260.0  |
| 55°   | 178.6  |
| 57.5° | 128.9  |
| 60°   | 85.9   |
| 62.5° | 63.3   |
| 65°   | 42.9   |
| 67.5° | 29.4   |
| 70°   | 15.8   |
| 72.5° | 11.3   |
| 75°   | 6.8    |
| 77.5° | 2.3    |
| 80°   | 2.3    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)