

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: P244679

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244679  
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: LSR8B50D010 EC8B50835 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5355.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 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

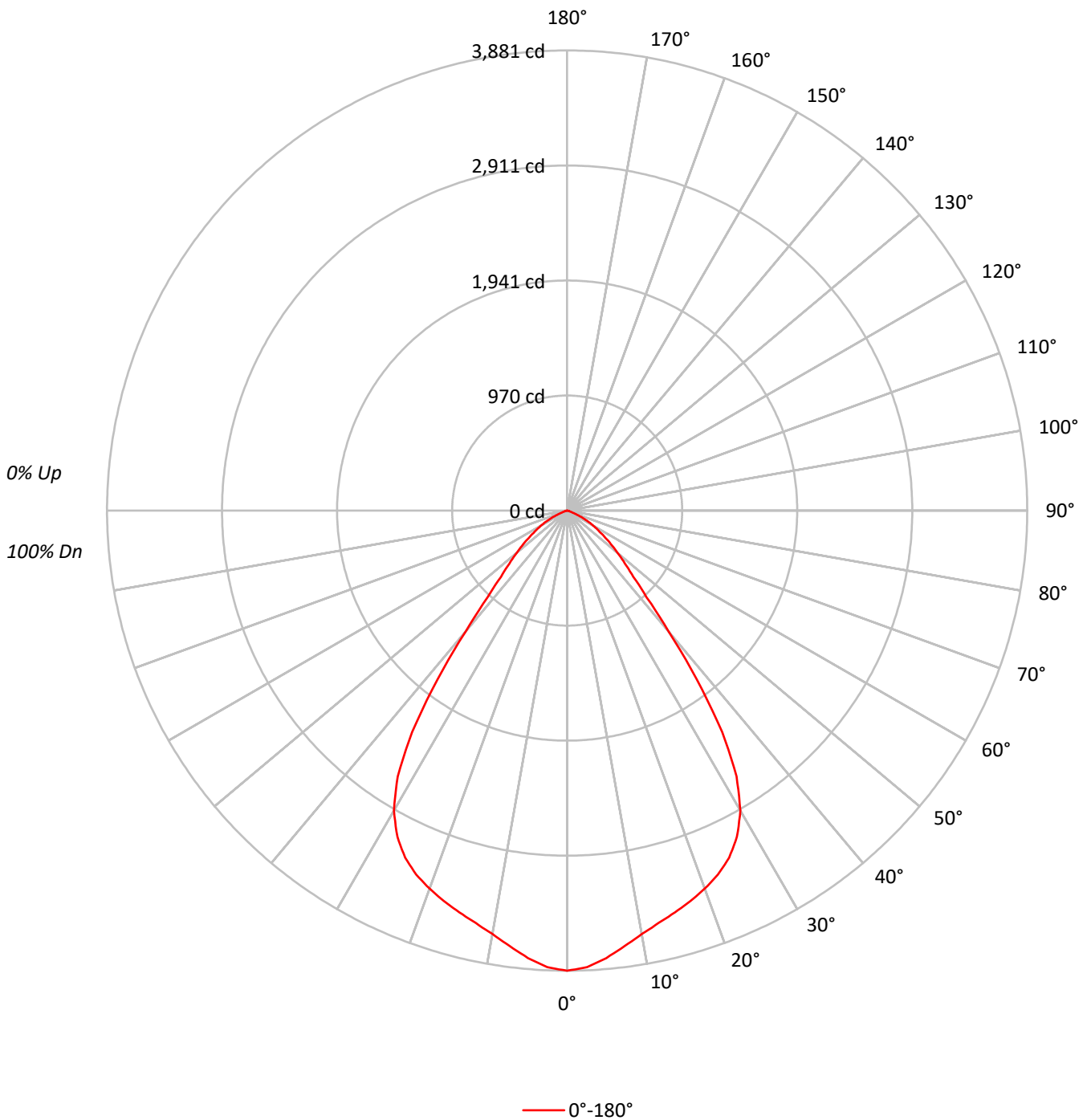
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 119670 |
| 5°  | 117263 |
| 10° | 113550 |
| 15° | 112018 |
| 20° | 111352 |
| 25° | 109942 |
| 30° | 104032 |
| 35° | 85806  |
| 40° | 53578  |
| 45° | 34451  |
| 50° | 26716  |
| 55° | 20569  |
| 60° | 15585  |
| 65° | 10128  |
| 70° | 4328   |
| 75° | 2121   |
| 80° | 941    |
| 85° | 637    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 356.3  | 6.7       |
| 10°-20°   | 991.3  | 18.5      |
| 20°-30°   | 1476.6 | 27.6      |
| 30°-40°   | 1371.3 | 25.6      |
| 40°-50°   | 647.7  | 12.1      |
| 50°-60°   | 348.0  | 6.5       |
| 60°-70°   | 139.7  | 2.6       |
| 70°-80°   | 22.0   | 0.4       |
| 80°-90°   | 2.2    | 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°    | 2824.2 | 52.7      |
| 0°-40°    | 4195.5 | 78.3      |
| 0°-60°    | 5191.1 | 96.9      |
| 0°-90°    | 5355.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5355.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3881 |      |
| 5°  | 3788 | 356  |
| 15° | 3509 | 991  |
| 25° | 3231 | 1477 |
| 35° | 2279 | 1371 |
| 45° | 790  | 648  |
| 55° | 383  | 348  |
| 65° | 139  | 140  |
| 75° | 18   | 22   |
| 85° | 2    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3880.8 |
| 2.5°  | 3854.1 |
| 5°    | 3788.3 |
| 7.5°  | 3704.6 |
| 10°   | 3626.4 |
| 12.5° | 3562.3 |
| 15°   | 3508.9 |
| 17.5° | 3453.8 |
| 20°   | 3393.3 |
| 22.5° | 3323.9 |
| 25°   | 3231.3 |
| 27.5° | 3101.4 |
| 30°   | 2921.7 |
| 32.5° | 2658.4 |
| 35°   | 2279.4 |
| 37.5° | 1795.4 |
| 40°   | 1331.0 |
| 42.5° | 991.1  |
| 45°   | 790.0  |
| 47.5° | 660.1  |
| 50°   | 556.9  |
| 52.5° | 464.4  |
| 55°   | 382.6  |
| 57.5° | 311.4  |
| 60°   | 252.7  |
| 62.5° | 197.5  |
| 65°   | 138.8  |
| 67.5° | 81.9   |
| 70°   | 48.0   |
| 72.5° | 28.5   |
| 75°   | 17.8   |
| 77.5° | 10.7   |
| 80°   | 5.3    |
| 82.5° | 3.6    |
| 85°   | 1.8    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)