

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: P246311

Luminaire Tested: **LSR8B50D010 EC8B50927 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-47)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50927 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2745.0 lumens  
Efficiency: N/A  
Efficacy: 51.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.02  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

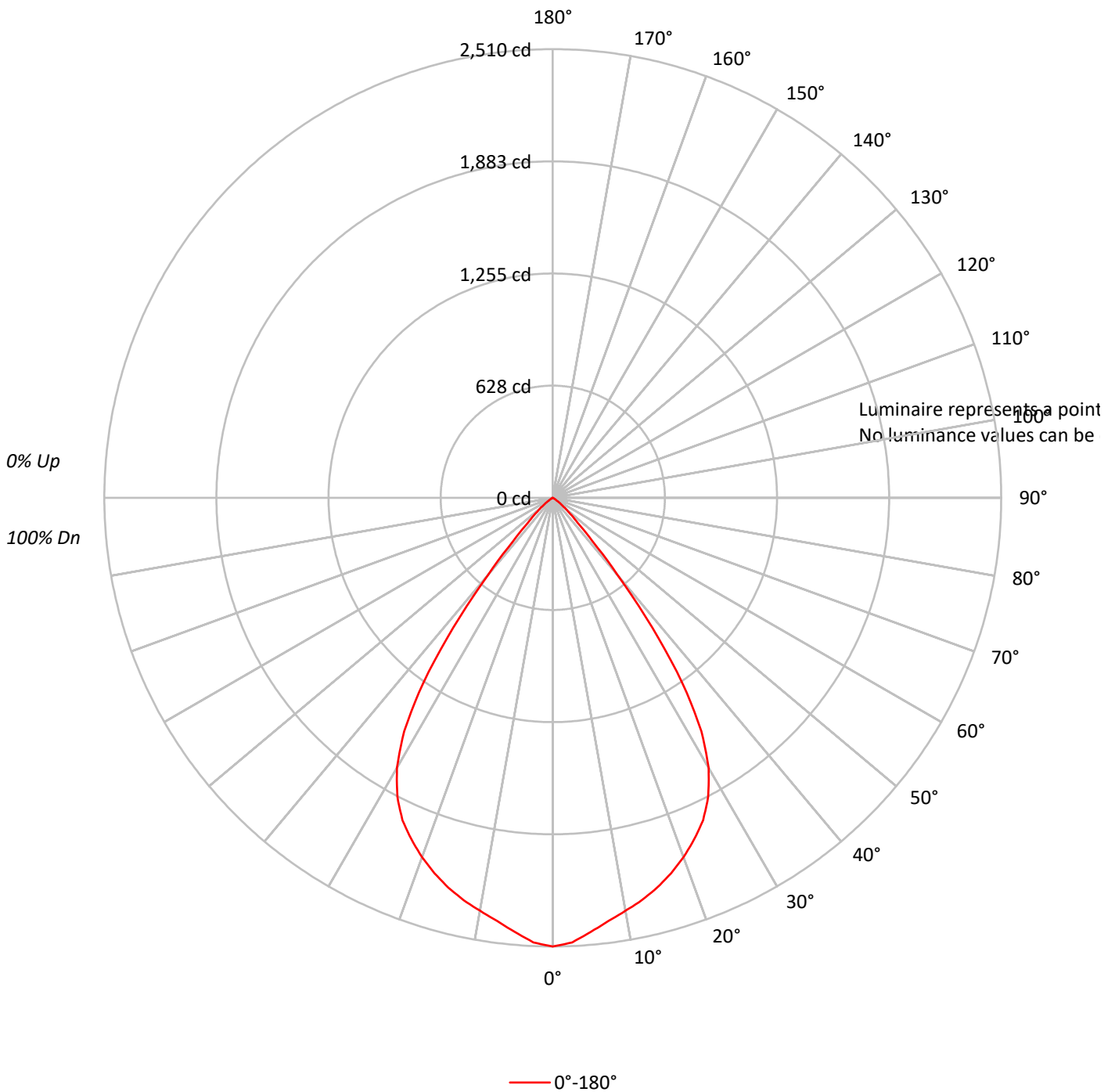
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |    |    |   |  |  |  |
| 2   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 90  | 92  | 90  | 88  | 86  |    |    |   |  |  |  |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  | 89  | 85  | 82  | 86  | 84  | 81  | 80  |    |    |   |  |  |  |
| 4   | 96  | 88  | 83  | 78  | 94  | 87  | 82  | 78  | 85  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 74  |    |    |   |  |  |  |
| 5   | 91  | 82  | 76  | 72  | 89  | 81  | 76  | 71  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 70  | 68  |    |    |   |  |  |  |
| 6   | 86  | 77  | 71  | 66  | 85  | 76  | 70  | 66  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 65  | 63  |    |    |   |  |  |  |
| 7   | 82  | 72  | 66  | 61  | 80  | 71  | 65  | 61  | 70  | 64  | 61  | 69  | 64  | 60  | 67  | 63  | 60  | 58  |    |    |   |  |  |  |
| 8   | 77  | 67  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |   |  |  |  |
| 9   | 73  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 51  |    |    |   |  |  |  |
| 10  | 70  | 59  | 53  | 49  | 68  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 57  | 52  | 49  | 47  |    |    |   |  |  |  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 229.8  | 8.4       |
| 10°-20°   | 635.4  | 23.1      |
| 20°-30°   | 907.3  | 33.1      |
| 30°-40°   | 751.9  | 27.4      |
| 40°-50°   | 185.4  | 6.8       |
| 50°-60°   | 33.4   | 1.2       |
| 60°-70°   | 1.8    | 0.1       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 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°    | 1772.5 | 64.6      |
| 0°-40°    | 2524.3 | 92.0      |
| 0°-60°    | 2743.2 | 99.9      |
| 0°-90°    | 2745.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2745.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2510 |      |
| 5°  | 2438 | 230  |
| 15° | 2258 | 635  |
| 25° | 1990 | 907  |
| 35° | 1266 | 752  |
| 45° | 198  | 185  |
| 55° | 32   | 33   |
| 65° | 1    | 2    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2510.2 |
| 2.5°  | 2489.3 |
| 5°    | 2437.6 |
| 7.5°  | 2387.5 |
| 10°   | 2345.7 |
| 12.5° | 2305.2 |
| 15°   | 2257.9 |
| 17.5° | 2202.2 |
| 20°   | 2139.4 |
| 22.5° | 2068.3 |
| 25°   | 1990.4 |
| 27.5° | 1884.4 |
| 30°   | 1745.0 |
| 32.5° | 1548.4 |
| 35°   | 1265.5 |
| 37.5° | 914.3  |
| 40°   | 563.1  |
| 42.5° | 327.5  |
| 45°   | 197.9  |
| 47.5° | 131.1  |
| 50°   | 87.9   |
| 52.5° | 57.2   |
| 55°   | 32.1   |
| 57.5° | 15.3   |
| 60°   | 7.0    |
| 62.5° | 2.8    |
| 65°   | 1.3    |
| 67.5° | 0.0    |
| 70°   | 0.0    |
| 72.5° | 0.0    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)