

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: P246599

Luminaire Tested: **LD8B50D010 ER8B509727 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B509727 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3907.0 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

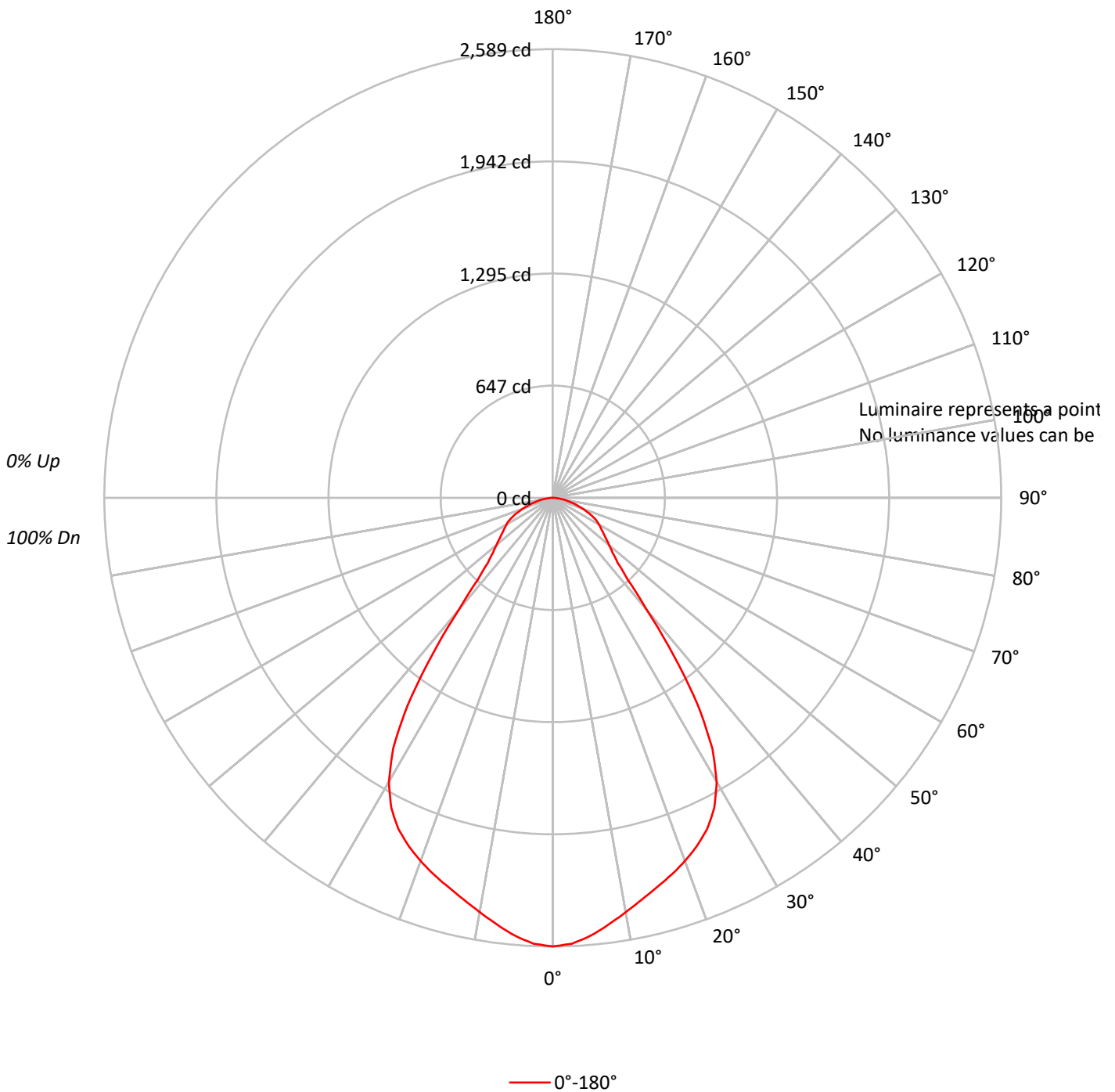
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  | 101 | 99  | 96  |  | 97  | 95  | 93  |  | 94  | 92  | 91  | 89  |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 92  | 87  | 84  |  | 88  | 85  | 82  |  | 86  | 83  | 80  | 78  |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  |  | 81  | 76  | 73  |  | 78  | 75  | 72  | 70  |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 76  | 70  | 66  |  | 74  | 69  | 65  |  | 72  | 68  | 64  | 62  |
| 5   | 84  | 73  | 66  | 60  | 82  | 72  | 65  | 60  | 70  | 64  | 59  |  | 68  | 63  | 59  |  | 67  | 62  | 58  | 56  |
| 6   | 79  | 67  | 60  | 54  | 77  | 66  | 59  | 54  | 65  | 58  | 54  |  | 63  | 58  | 53  |  | 62  | 57  | 53  | 51  |
| 7   | 74  | 62  | 55  | 49  | 72  | 61  | 54  | 49  | 60  | 54  | 49  |  | 59  | 53  | 49  |  | 57  | 52  | 48  | 47  |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 50  | 45  |  | 55  | 49  | 45  |  | 54  | 48  | 45  | 43  |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  |  | 51  | 45  | 41  |  | 50  | 45  | 41  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  |  | 48  | 42  | 38  |  | 47  | 42  | 38  | 37  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 238.5  | 6.1       |
| 10°-20°   | 656.9  | 16.8      |
| 20°-30°   | 963.4  | 24.7      |
| 30°-40°   | 880.6  | 22.5      |
| 40°-50°   | 436.0  | 11.2      |
| 50°-60°   | 322.4  | 8.3       |
| 60°-70°   | 247.8  | 6.3       |
| 70°-80°   | 129.2  | 3.3       |
| 80°-90°   | 32.2   | 0.8       |
| 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°    | 1858.8 | 47.6      |
| 0°-40°    | 2739.4 | 70.1      |
| 0°-60°    | 3497.8 | 89.5      |
| 0°-90°    | 3907.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3907.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2589 |      |
| 5°  | 2535 | 238  |
| 15° | 2326 | 657  |
| 25° | 2109 | 963  |
| 35° | 1461 | 881  |
| 45° | 529  | 436  |
| 55° | 357  | 322  |
| 65° | 253  | 248  |
| 75° | 120  | 129  |
| 85° | 27   | 32   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2588.7 |
| 2.5°  | 2575.0 |
| 5°    | 2535.4 |
| 7.5°  | 2482.1 |
| 10°   | 2427.6 |
| 12.5° | 2374.3 |
| 15°   | 2326.0 |
| 17.5° | 2280.1 |
| 20°   | 2230.5 |
| 22.5° | 2174.8 |
| 25°   | 2109.1 |
| 27.5° | 2018.6 |
| 30°   | 1892.2 |
| 32.5° | 1715.0 |
| 35°   | 1461.0 |
| 37.5° | 1146.2 |
| 40°   | 846.4  |
| 42.5° | 640.7  |
| 45°   | 529.1  |
| 47.5° | 468.4  |
| 50°   | 423.8  |
| 52.5° | 387.9  |
| 55°   | 356.9  |
| 57.5° | 330.9  |
| 60°   | 308.6  |
| 62.5° | 285.0  |
| 65°   | 252.8  |
| 67.5° | 218.1  |
| 70°   | 183.4  |
| 72.5° | 151.2  |
| 75°   | 120.2  |
| 77.5° | 92.9   |
| 80°   | 68.2   |
| 82.5° | 47.1   |
| 85°   | 27.3   |
| 87.5° | 9.9    |
| 90°   | 0.0    |

(END OF REPORT)