

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: P251235

Luminaire Tested: **LSR8B70D010 EC8B70940 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70940 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6005.1 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

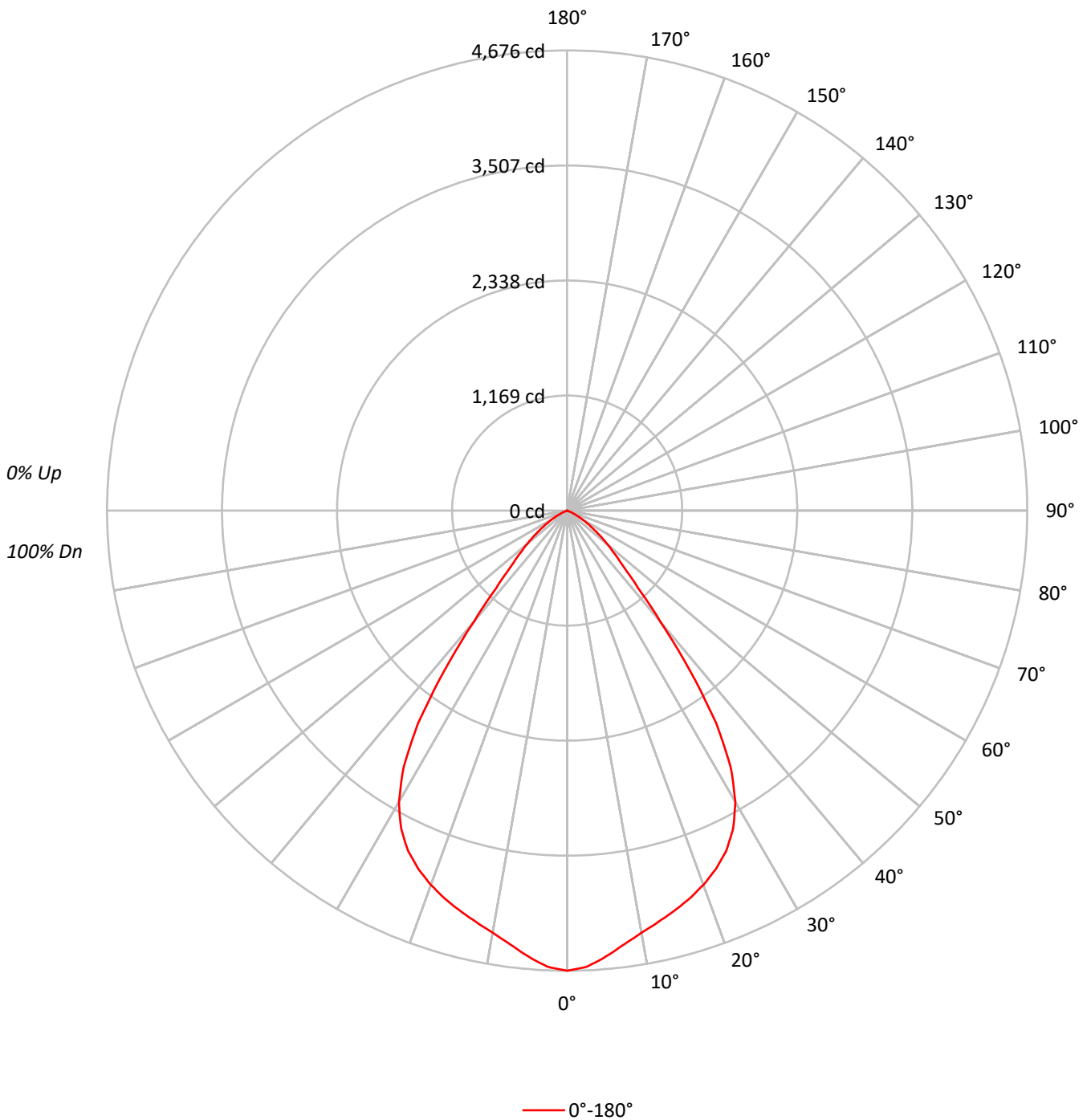
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 104 | 110 | 108 | 105 | 103 | 103 | 101 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  |
| 2   | 106 | 101 | 96  | 92  | 104 | 99  | 95  | 91  | 96  | 92  | 89  | 93  | 90  | 87  | 90  | 88  | 86  | 84  |
| 3   | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 89  | 84  | 81  | 86  | 82  | 79  | 84  | 81  | 78  | 76  |
| 4   | 94  | 85  | 79  | 74  | 92  | 84  | 78  | 74  | 82  | 77  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 70  |
| 5   | 88  | 79  | 72  | 67  | 87  | 78  | 72  | 67  | 76  | 71  | 66  | 74  | 70  | 66  | 73  | 69  | 65  | 64  |
| 6   | 83  | 73  | 66  | 61  | 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  | 65  | 59  | 56  | 63  | 59  | 55  | 54  |
| 8   | 74  | 63  | 56  | 52  | 73  | 63  | 56  | 52  | 61  | 56  | 51  | 60  | 55  | 51  | 59  | 55  | 51  | 49  |
| 9   | 70  | 59  | 52  | 48  | 69  | 58  | 52  | 48  | 57  | 52  | 48  | 57  | 51  | 47  | 56  | 51  | 47  | 46  |
| 10  | 66  | 55  | 49  | 44  | 65  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 47  | 44  | 43  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 144184 |
| 5°  | 140776 |
| 10° | 136364 |
| 15° | 134391 |
| 20° | 132810 |
| 25° | 129955 |
| 30° | 121722 |
| 35° | 99392  |
| 40° | 59338  |
| 45° | 35637  |
| 50° | 25685  |
| 55° | 17483  |
| 60° | 10965  |
| 65° | 5378   |
| 70° | 1370   |
| 75° | 512    |
| 80° | 391    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 427.9  | 7.1       |
| 10°-20°   | 1188.0 | 19.8      |
| 20°-30°   | 1744.6 | 29.1      |
| 30°-40°   | 1581.5 | 26.3      |
| 40°-50°   | 677.0  | 11.3      |
| 50°-60°   | 299.6  | 5.0       |
| 60°-70°   | 79.9   | 1.3       |
| 70°-80°   | 6.3    | 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°    | 3360.5 | 56.0      |
| 0°-40°    | 4942.0 | 82.3      |
| 0°-60°    | 5918.6 | 98.6      |
| 0°-90°    | 6005.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6005.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4676 |      |
| 5°  | 4548 | 428  |
| 15° | 4210 | 1188 |
| 25° | 3820 | 1745 |
| 35° | 2640 | 1582 |
| 45° | 817  | 677  |
| 55° | 325  | 300  |
| 65° | 74   | 80   |
| 75° | 4    | 6    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4675.8 |
| 2.5°  | 4638.9 |
| 5°    | 4547.9 |
| 7.5°  | 4443.9 |
| 10°   | 4355.0 |
| 12.5° | 4281.3 |
| 15°   | 4209.7 |
| 17.5° | 4133.9 |
| 20°   | 4047.2 |
| 22.5° | 3945.3 |
| 25°   | 3819.5 |
| 27.5° | 3650.5 |
| 30°   | 3418.5 |
| 32.5° | 3093.4 |
| 35°   | 2640.3 |
| 37.5° | 2046.3 |
| 40°   | 1474.1 |
| 42.5° | 1064.4 |
| 45°   | 817.2  |
| 47.5° | 659.0  |
| 50°   | 535.4  |
| 52.5° | 424.9  |
| 55°   | 325.2  |
| 57.5° | 242.8  |
| 60°   | 177.8  |
| 62.5° | 123.6  |
| 65°   | 73.7   |
| 67.5° | 32.5   |
| 70°   | 15.2   |
| 72.5° | 8.7    |
| 75°   | 4.3    |
| 77.5° | 2.2    |
| 80°   | 2.2    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)