

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: P250879

Luminaire Tested: **LSR8B70D010 EC8B70935 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-12)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70935 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7237.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

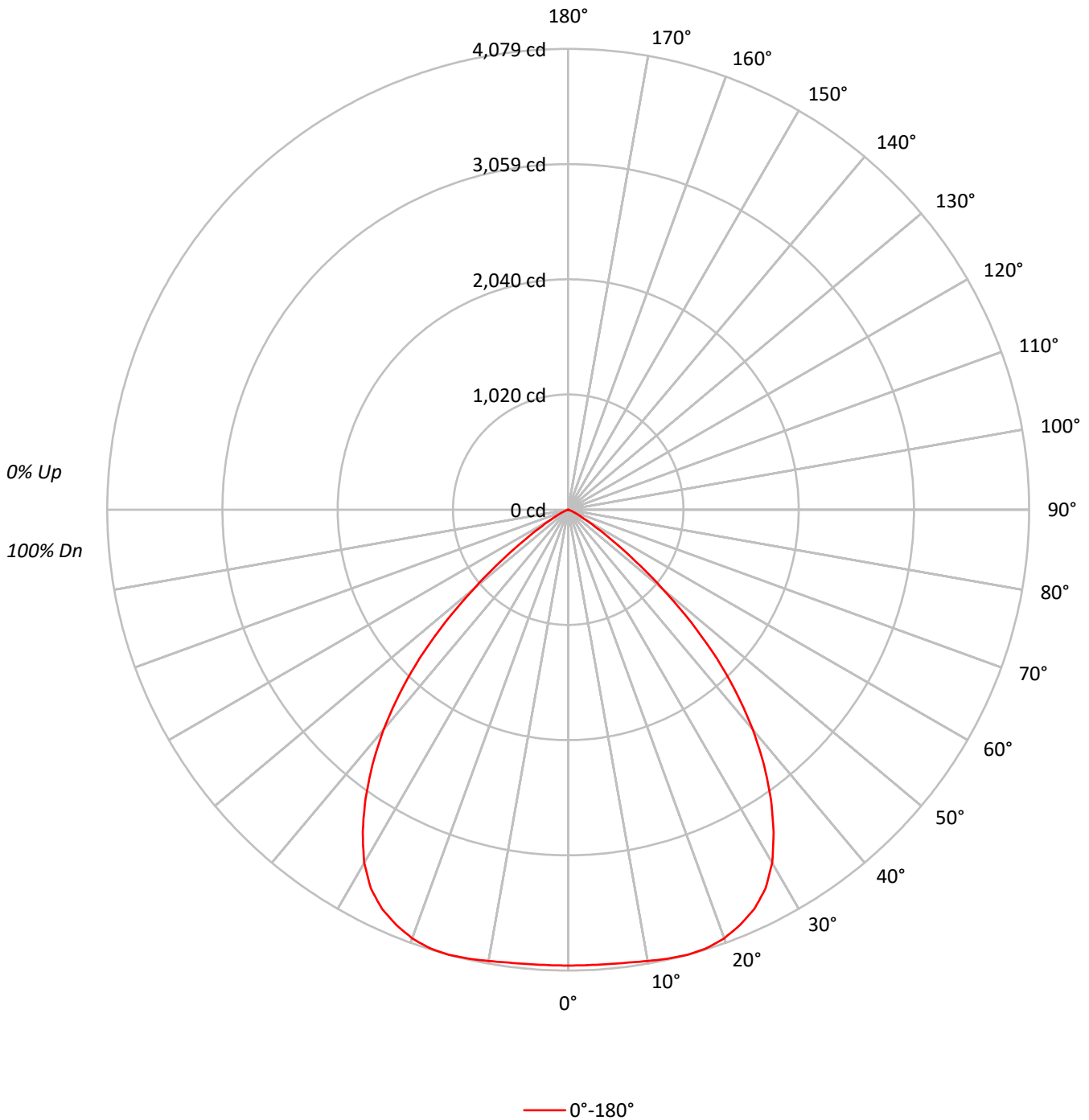
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  |  | 99  | 97  | 96  |  | 96  | 94  | 93  | 91  |
| 2   | 105 | 99  | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  |  | 91  | 88  | 86  |  | 88  | 86  | 84  | 82  |
| 3   | 98  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 86  | 82  | 78  |  | 84  | 80  | 77  |  | 82  | 78  | 75  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 71  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 75  | 71  | 68  | 66  |
| 5   | 86  | 76  | 69  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 63  |  | 71  | 66  | 62  |  | 69  | 65  | 61  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  |  | 66  | 60  | 56  |  | 64  | 59  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 52  | 62  | 56  | 51  |  | 61  | 55  | 51  |  | 59  | 54  | 51  | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 58  | 52  | 47  | 57  | 51  | 47  |  | 56  | 51  | 46  |  | 55  | 50  | 46  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  |  | 52  | 47  | 43  |  | 51  | 46  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 50  | 43  | 39  |  | 49  | 43  | 39  |  | 48  | 43  | 39  | 37  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 124425 |
| 5°  | 124965 |
| 10° | 126995 |
| 15° | 130206 |
| 20° | 132479 |
| 25° | 132626 |
| 30° | 128522 |
| 35° | 117672 |
| 40° | 102269 |
| 45° | 80921  |
| 50° | 52477  |
| 55° | 26225  |
| 60° | 11009  |
| 65° | 4845   |
| 70° | 1497   |
| 75° | 739    |
| 80° | 746    |
| 85° | 743    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 385.9  | 5.3       |
| 10°-20°   | 1152.5 | 15.9      |
| 20°-30°   | 1785.4 | 24.7      |
| 30°-40°   | 1939.0 | 26.8      |
| 40°-50°   | 1409.0 | 19.5      |
| 50°-60°   | 478.9  | 6.6       |
| 60°-70°   | 76.3   | 1.1       |
| 70°-80°   | 8.2    | 0.1       |
| 80°-90°   | 1.7    | 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°    | 3323.9 | 45.9      |
| 0°-40°    | 5262.9 | 72.7      |
| 0°-60°    | 7150.8 | 98.8      |
| 0°-90°    | 7237.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7237.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4035 |      |
| 5°  | 4037 | 386  |
| 15° | 4079 | 1153 |
| 25° | 3898 | 1785 |
| 35° | 3126 | 1939 |
| 45° | 1856 | 1409 |
| 55° | 488  | 479  |
| 65° | 66   | 76   |
| 75° | 6    | 8    |
| 85° | 2    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4035.0 |
| 2.5°  | 4035.0 |
| 5°    | 4037.1 |
| 7.5°  | 4043.3 |
| 10°   | 4055.8 |
| 12.5° | 4070.3 |
| 15°   | 4078.6 |
| 17.5° | 4070.3 |
| 20°   | 4037.1 |
| 22.5° | 3976.9 |
| 25°   | 3898.0 |
| 27.5° | 3779.7 |
| 30°   | 3609.5 |
| 32.5° | 3383.3 |
| 35°   | 3125.9 |
| 37.5° | 2845.7 |
| 40°   | 2540.6 |
| 42.5° | 2210.5 |
| 45°   | 1855.6 |
| 47.5° | 1473.7 |
| 50°   | 1093.9 |
| 52.5° | 749.3  |
| 55°   | 487.8  |
| 57.5° | 296.8  |
| 60°   | 178.5  |
| 62.5° | 110.0  |
| 65°   | 66.4   |
| 67.5° | 37.4   |
| 70°   | 16.6   |
| 72.5° | 10.4   |
| 75°   | 6.2    |
| 77.5° | 4.2    |
| 80°   | 4.2    |
| 82.5° | 2.1    |
| 85°   | 2.1    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)