

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: P251189

Luminaire Tested: **LSR8B70D010 EC8B70935 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-15)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70935 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7171.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

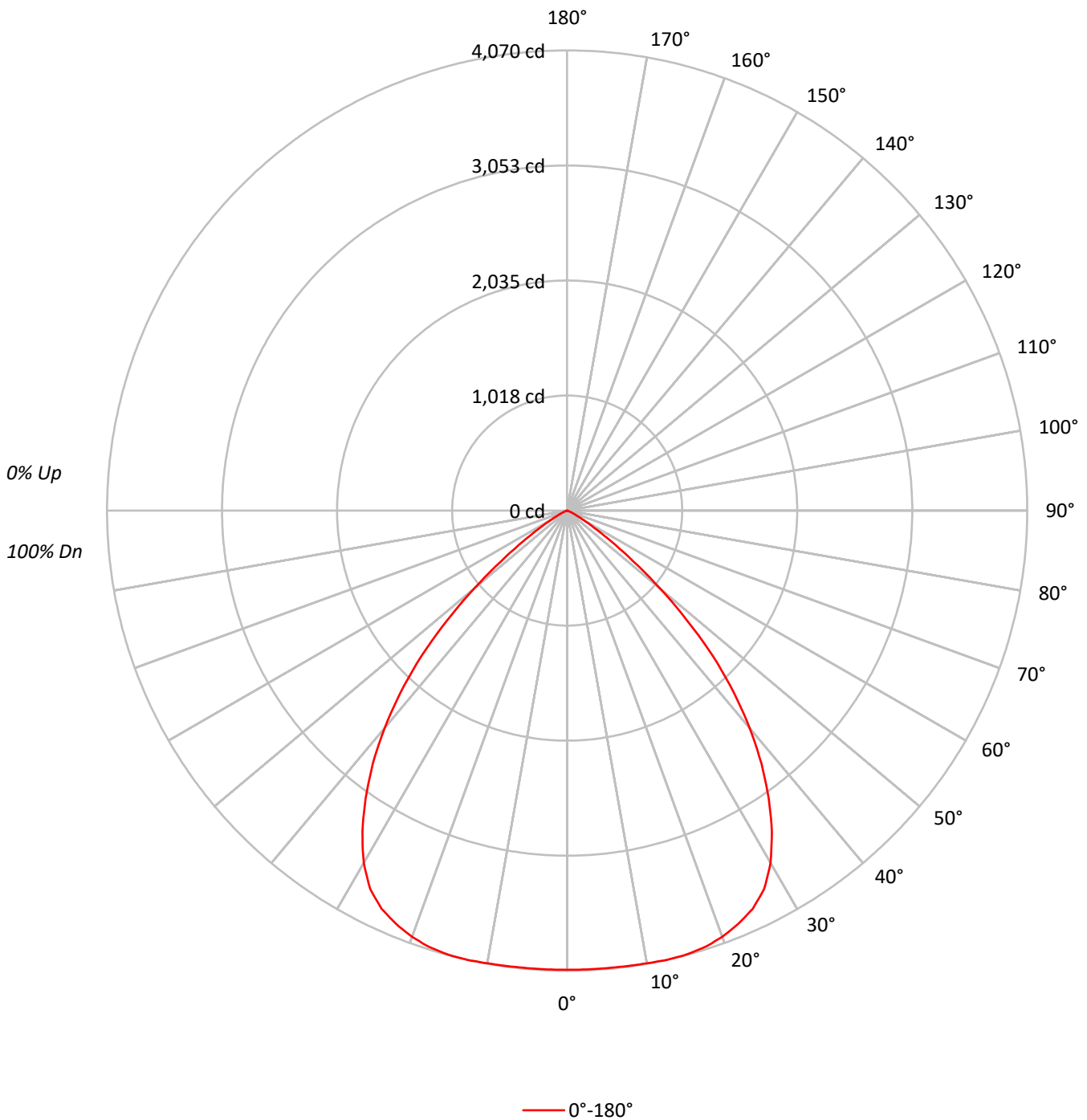
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  |  | 91  | 88  | 86  |  | 89  | 86  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 87  | 82  | 78  |  | 84  | 80  | 77  |  | 82  | 78  | 76  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 75  | 71  | 68  | 66  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  |  | 71  | 66  | 62  |  | 70  | 65  | 62  | 60  |
| 6   | 80  | 70  | 63  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  |  | 66  | 60  | 56  |  | 64  | 60  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  |  | 61  | 55  | 51  |  | 60  | 55  | 51  | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  |  | 56  | 51  | 47  |  | 55  | 50  | 46  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  |  | 52  | 47  | 43  |  | 51  | 46  | 43  | 41  |
| 10  | 63  | 51  | 44  | 40  | 61  | 51  | 44  | 40  | 50  | 44  | 39  |  | 49  | 43  | 39  |  | 48  | 43  | 39  | 38  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 125248 |
| 5°  | 125726 |
| 10° | 127312 |
| 15° | 129800 |
| 20° | 131652 |
| 25° | 132194 |
| 30° | 128145 |
| 35° | 116960 |
| 40° | 101174 |
| 45° | 79648  |
| 50° | 51379  |
| 55° | 25220  |
| 60° | 10367  |
| 65° | 4546   |
| 70° | 1307   |
| 75° | 500    |
| 80° | 373    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 387.9  | 5.4       |
| 10°-20°   | 1149.0 | 16.0      |
| 20°-30°   | 1779.0 | 24.8      |
| 30°-40°   | 1927.2 | 26.9      |
| 40°-50°   | 1386.8 | 19.3      |
| 50°-60°   | 464.0  | 6.5       |
| 60°-70°   | 70.1   | 1.0       |
| 70°-80°   | 6.0    | 0.1       |
| 80°-90°   | 0.9    | 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°    | 3315.9 | 46.2      |
| 0°-40°    | 5243.2 | 73.1      |
| 0°-60°    | 7094.0 | 98.9      |
| 0°-90°    | 7171.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7171.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4062 |      |
| 5°  | 4062 | 388  |
| 15° | 4066 | 1149 |
| 25° | 3885 | 1779 |
| 35° | 3107 | 1927 |
| 45° | 1826 | 1387 |
| 55° | 469  | 464  |
| 65° | 62   | 70   |
| 75° | 4    | 6    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4061.7 |
| 2.5°  | 4061.7 |
| 5°    | 4061.7 |
| 7.5°  | 4063.8 |
| 10°   | 4065.9 |
| 12.5° | 4070.0 |
| 15°   | 4065.9 |
| 17.5° | 4049.3 |
| 20°   | 4011.9 |
| 22.5° | 3955.9 |
| 25°   | 3885.3 |
| 27.5° | 3773.3 |
| 30°   | 3598.9 |
| 32.5° | 3370.6 |
| 35°   | 3107.0 |
| 37.5° | 2822.7 |
| 40°   | 2513.4 |
| 42.5° | 2181.3 |
| 45°   | 1826.4 |
| 47.5° | 1442.5 |
| 50°   | 1071.0 |
| 52.5° | 734.7  |
| 55°   | 469.1  |
| 57.5° | 280.2  |
| 60°   | 168.1  |
| 62.5° | 101.7  |
| 65°   | 62.3   |
| 67.5° | 31.1   |
| 70°   | 14.5   |
| 72.5° | 6.2    |
| 75°   | 4.2    |
| 77.5° | 4.2    |
| 80°   | 2.1    |
| 82.5° | 2.1    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)