

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: P251003

Luminaire Tested: **LSR8B70D010 EC8B70950 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-13)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70950 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7610.9 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

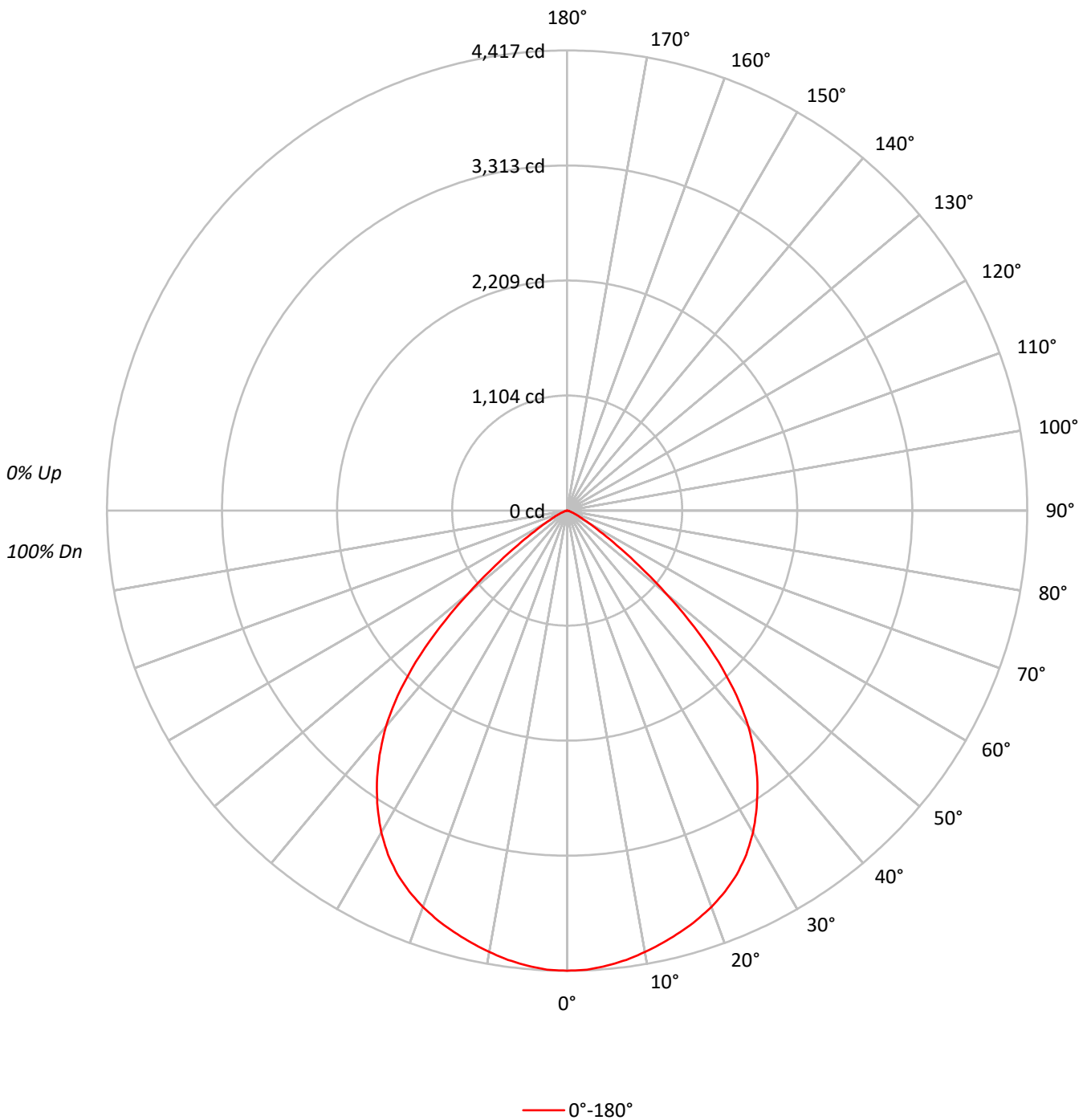
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98  |  | 99  | 97  | 95  |  | 95  | 94  | 93  | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  |  | 91  | 88  | 85  |  | 88  | 85  | 83  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 78  | 86  | 81  | 77  |  | 83  | 79  | 76  |  | 81  | 78  | 75  | 73  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 75  | 70  | 79  | 73  | 69  |  | 76  | 72  | 68  |  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 68  | 63  | 83  | 74  | 67  | 62  | 72  | 66  | 62  |  | 70  | 65  | 61  |  | 69  | 64  | 60  | 59  |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  |  | 65  | 59  | 55  |  | 63  | 58  | 55  | 53  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  |  | 60  | 54  | 50  |  | 59  | 54  | 50  | 48  |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 57  | 50  | 46  |  | 55  | 50  | 46  |  | 54  | 49  | 45  | 44  |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  |  | 51  | 46  | 42  |  | 51  | 45  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  |  | 48  | 42  | 38  |  | 47  | 42  | 38  | 37  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 136201 |
| 5°  | 135746 |
| 10° | 134717 |
| 15° | 133768 |
| 20° | 132863 |
| 25° | 131112 |
| 30° | 127063 |
| 35° | 119885 |
| 40° | 108955 |
| 45° | 89652  |
| 50° | 59755  |
| 55° | 31128  |
| 60° | 14672  |
| 65° | 7698   |
| 70° | 3841   |
| 75° | 2669   |
| 80° | 1989   |
| 85° | 1592   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 416.0  | 5.5       |
| 10°-20°   | 1182.6 | 15.5      |
| 20°-30°   | 1769.2 | 23.2      |
| 30°-40°   | 1978.8 | 26.0      |
| 40°-50°   | 1552.4 | 20.4      |
| 50°-60°   | 566.4  | 7.4       |
| 60°-70°   | 115.5  | 1.5       |
| 70°-80°   | 24.8   | 0.3       |
| 80°-90°   | 5.2    | 0.1       |
| 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°    | 3367.8 | 44.2      |
| 0°-40°    | 5346.6 | 70.2      |
| 0°-60°    | 7465.5 | 98.1      |
| 0°-90°    | 7610.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7610.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4417 |      |
| 5°  | 4385 | 416  |
| 15° | 4190 | 1183 |
| 25° | 3854 | 1769 |
| 35° | 3185 | 1979 |
| 45° | 2056 | 1552 |
| 55° | 579  | 566  |
| 65° | 106  | 115  |
| 75° | 22   | 25   |
| 85° | 4    | 5    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 4416.9 |
| 2.5°  | 4410.1 |
| 5°    | 4385.4 |
| 7.5°  | 4349.5 |
| 10°   | 4302.4 |
| 12.5° | 4248.5 |
| 15°   | 4190.2 |
| 17.5° | 4125.1 |
| 20°   | 4048.8 |
| 22.5° | 3959.0 |
| 25°   | 3853.5 |
| 27.5° | 3723.4 |
| 30°   | 3568.5 |
| 32.5° | 3386.7 |
| 35°   | 3184.7 |
| 37.5° | 2958.0 |
| 40°   | 2706.7 |
| 42.5° | 2408.2 |
| 45°   | 2055.8 |
| 47.5° | 1658.6 |
| 50°   | 1245.6 |
| 52.5° | 873.0  |
| 55°   | 579.0  |
| 57.5° | 370.3  |
| 60°   | 237.9  |
| 62.5° | 157.1  |
| 65°   | 105.5  |
| 67.5° | 67.3   |
| 70°   | 42.6   |
| 72.5° | 29.2   |
| 75°   | 22.4   |
| 77.5° | 15.7   |
| 80°   | 11.2   |
| 82.5° | 6.7    |
| 85°   | 4.5    |
| 87.5° | 2.2    |
| 90°   | 0.0    |

(END OF REPORT)