

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: P251097

Luminaire Tested: **LSR8B70D010 EC8B70940 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251097  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-14)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70940 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7208.0 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

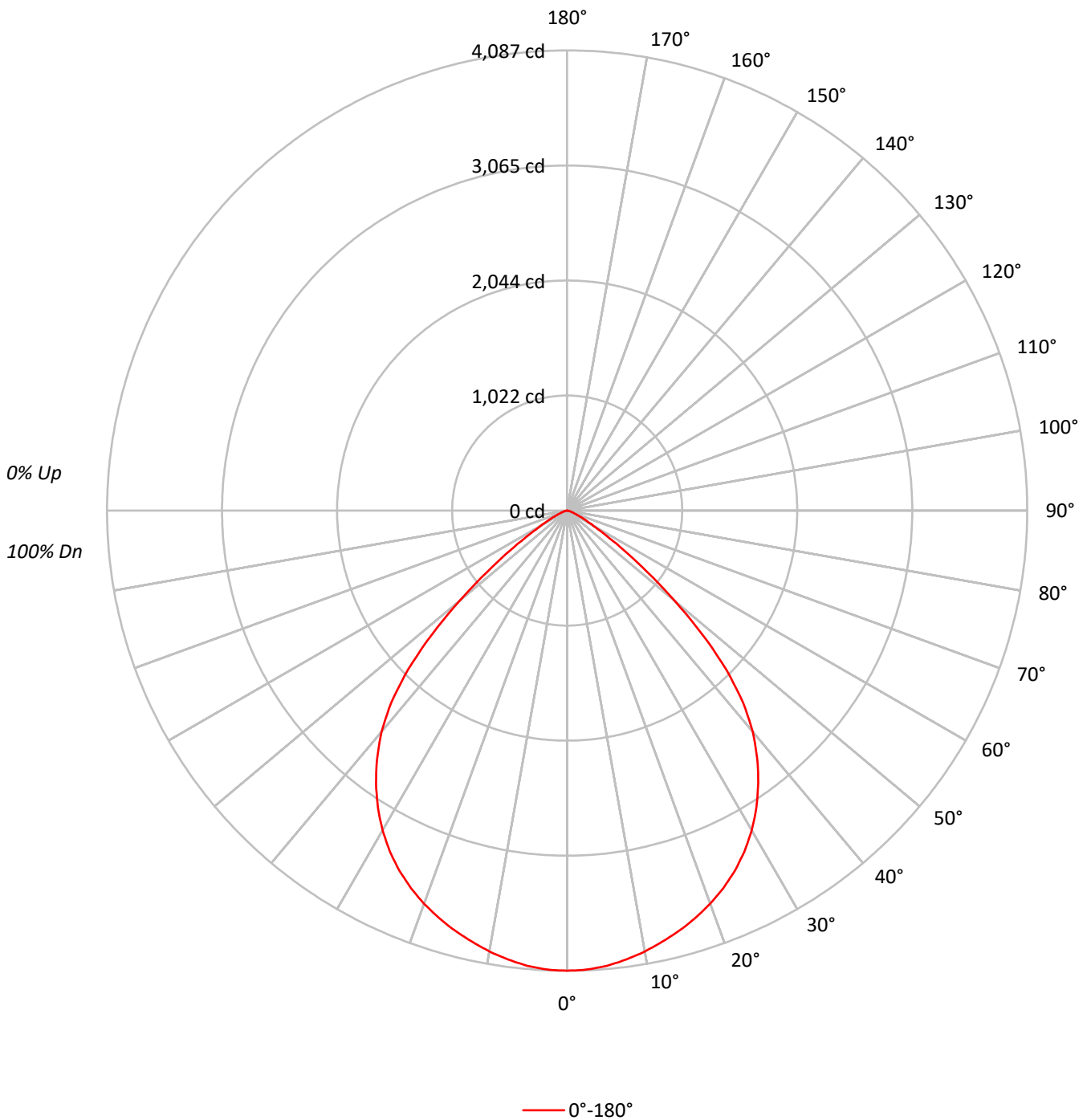
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 91  |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 94  | 90  | 86  | 90  | 87  | 85  | 88  | 85  | 83  | 81  |
| 3   | 98  | 90  | 83  | 78  | 95  | 88  | 82  | 78  | 85  | 80  | 76  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |
| 4   | 91  | 82  | 75  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 65  |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 67  | 61  | 71  | 65  | 61  | 70  | 64  | 60  | 68  | 63  | 60  | 58  |
| 6   | 79  | 68  | 61  | 55  | 77  | 67  | 60  | 55  | 66  | 59  | 55  | 64  | 58  | 54  | 63  | 58  | 54  | 52  |
| 7   | 74  | 63  | 55  | 50  | 72  | 62  | 55  | 50  | 60  | 54  | 49  | 59  | 53  | 49  | 58  | 53  | 49  | 47  |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  | 55  | 49  | 45  | 54  | 48  | 45  | 43  |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 46  | 41  | 37  | 36  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 126022 |
| 5°  | 125630 |
| 10° | 124506 |
| 15° | 123269 |
| 20° | 121945 |
| 25° | 120020 |
| 30° | 116722 |
| 35° | 111404 |
| 40° | 103243 |
| 45° | 87175  |
| 50° | 59803  |
| 55° | 32988  |
| 60° | 16578  |
| 65° | 9332   |
| 70° | 5085   |
| 75° | 3622   |
| 80° | 2309   |
| 85° | 1521   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 384.7  | 5.3       |
| 10°-20°   | 1089.0 | 15.1      |
| 20°-30°   | 1621.3 | 22.5      |
| 30°-40°   | 1841.7 | 25.6      |
| 40°-50°   | 1505.4 | 20.9      |
| 50°-60°   | 589.9  | 8.2       |
| 60°-70°   | 137.5  | 1.9       |
| 70°-80°   | 33.1   | 0.5       |
| 80°-90°   | 5.3    | 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°    | 3095.0 | 42.9      |
| 0°-40°    | 4936.7 | 68.5      |
| 0°-60°    | 7032.1 | 97.6      |
| 0°-90°    | 7208.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7208.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4087 |      |
| 5°  | 4059 | 385  |
| 15° | 3861 | 1089 |
| 25° | 3528 | 1621 |
| 35° | 2959 | 1842 |
| 45° | 1999 | 1505 |
| 55° | 614  | 590  |
| 65° | 128  | 138  |
| 75° | 30   | 33   |
| 85° | 4    | 5    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4086.8 |
| 2.5°  | 4080.3 |
| 5°    | 4058.6 |
| 7.5°  | 4021.8 |
| 10°   | 3976.3 |
| 12.5° | 3919.9 |
| 15°   | 3861.3 |
| 17.5° | 3792.0 |
| 20°   | 3716.1 |
| 22.5° | 3627.2 |
| 25°   | 3527.5 |
| 27.5° | 3410.4 |
| 30°   | 3278.1 |
| 32.5° | 3128.5 |
| 35°   | 2959.4 |
| 37.5° | 2773.0 |
| 40°   | 2564.8 |
| 42.5° | 2313.3 |
| 45°   | 1999.0 |
| 47.5° | 1630.4 |
| 50°   | 1246.6 |
| 52.5° | 895.4  |
| 55°   | 613.6  |
| 57.5° | 401.1  |
| 60°   | 268.8  |
| 62.5° | 184.3  |
| 65°   | 127.9  |
| 67.5° | 84.6   |
| 70°   | 56.4   |
| 72.5° | 39.0   |
| 75°   | 30.4   |
| 77.5° | 21.7   |
| 80°   | 13.0   |
| 82.5° | 6.5    |
| 85°   | 4.3    |
| 87.5° | 2.2    |
| 90°   | 0.0    |

(END OF REPORT)