

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: P251403

Luminaire Tested: **LD8B70D010 ER8B70850 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-17)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70850 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6950.0 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

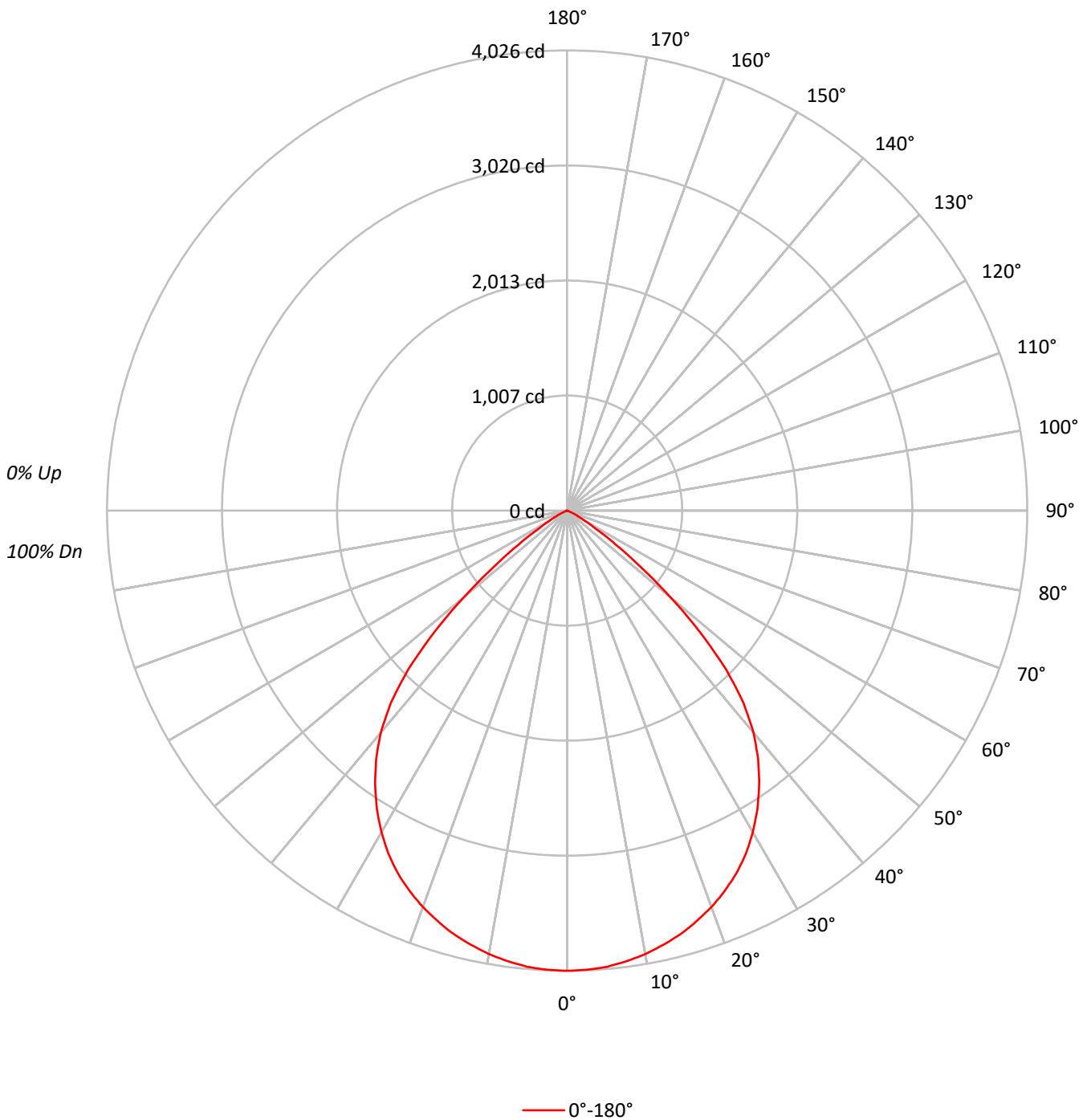
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 102 | 103 | 101 | 99  |  | 99  | 97  | 96  |  | 96  | 94  | 93  | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 98  | 93  | 89  | 94  | 90  | 87  |  | 91  | 88  | 85  |  | 88  | 86  | 84  | 82  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  |  | 84  | 80  | 76  |  | 81  | 78  | 75  | 73  |
| 4   | 92  | 82  | 76  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  |  | 77  | 72  | 68  |  | 75  | 71  | 67  | 66  |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 66  | 62  |  | 71  | 65  | 61  |  | 69  | 64  | 61  | 59  |
| 6   | 80  | 69  | 62  | 56  | 78  | 68  | 61  | 56  | 67  | 60  | 56  |  | 65  | 60  | 55  |  | 64  | 59  | 55  | 53  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  |  | 60  | 54  | 50  |  | 59  | 54  | 50  | 48  |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  |  | 56  | 50  | 46  |  | 54  | 49  | 46  | 44  |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  |  | 52  | 46  | 42  |  | 51  | 45  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  |  | 48  | 42  | 38  |  | 47  | 42  | 38  | 37  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 124150 |
| 5°  | 124015 |
| 10° | 123363 |
| 15° | 122470 |
| 20° | 121115 |
| 25° | 119200 |
| 30° | 115704 |
| 35° | 110260 |
| 40° | 102124 |
| 45° | 85692  |
| 50° | 56656  |
| 55° | 27967  |
| 60° | 11101  |
| 65° | 4320   |
| 70° | 667    |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 380.2  | 5.5       |
| 10°-20°   | 1081.3 | 15.6      |
| 20°-30°   | 1609.6 | 23.2      |
| 30°-40°   | 1823.0 | 26.2      |
| 40°-50°   | 1473.9 | 21.2      |
| 50°-60°   | 511.2  | 7.4       |
| 60°-70°   | 69.9   | 1.0       |
| 70°-80°   | 1.0    | 0.0       |
| 80°-90°   | 0.0    | 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°    | 3071.1 | 44.2      |
| 0°-40°    | 4894.1 | 70.4      |
| 0°-60°    | 6879.2 | 99.0      |
| 0°-90°    | 6950.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6950.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4026 |      |
| 5°  | 4006 | 380  |
| 15° | 3836 | 1081 |
| 25° | 3503 | 1610 |
| 35° | 2929 | 1823 |
| 45° | 1965 | 1474 |
| 55° | 520  | 511  |
| 65° | 59   | 70   |
| 75° | 0    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4026.1 |
| 2.5°  | 4021.2 |
| 5°    | 4006.4 |
| 7.5°  | 3976.8 |
| 10°   | 3939.8 |
| 12.5° | 3890.5 |
| 15°   | 3836.3 |
| 17.5° | 3767.2 |
| 20°   | 3690.8 |
| 22.5° | 3602.1 |
| 25°   | 3503.4 |
| 27.5° | 3385.1 |
| 30°   | 3249.5 |
| 32.5° | 3096.6 |
| 35°   | 2929.0 |
| 37.5° | 2744.1 |
| 40°   | 2537.0 |
| 42.5° | 2283.0 |
| 45°   | 1965.0 |
| 47.5° | 1580.4 |
| 50°   | 1181.0 |
| 52.5° | 808.7  |
| 55°   | 520.2  |
| 57.5° | 308.2  |
| 60°   | 180.0  |
| 62.5° | 106.0  |
| 65°   | 59.2   |
| 67.5° | 27.1   |
| 70°   | 7.4    |
| 72.5° | 0.0    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)