

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: P251011

Luminaire Tested: **LD8B70D010 ER8B70830 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-44)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70830 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7042.0 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

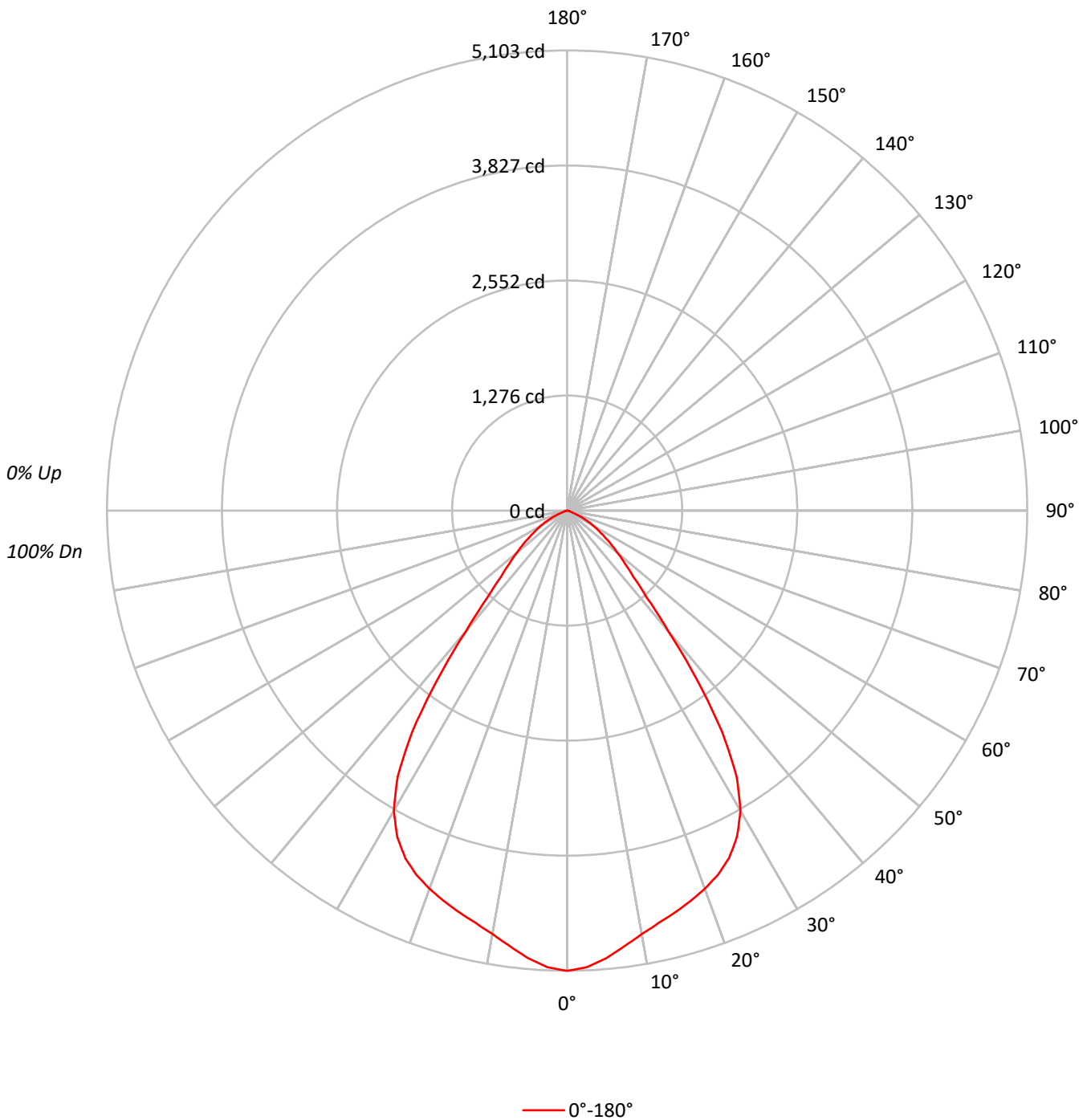
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 98  | 96  |  | 96  | 94  | 93  | 91  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  |  | 92  | 89  | 86  |  | 89  | 87  | 84  | 83  |
| 3   | 99  | 91  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  |  | 85  | 81  | 78  |  | 82  | 79  | 76  | 75  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  |  | 78  | 74  | 70  |  | 76  | 73  | 69  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  |  | 73  | 68  | 64  |  | 71  | 67  | 63  | 62  |
| 6   | 82  | 71  | 64  | 59  | 80  | 70  | 64  | 59  | 69  | 63  | 59  |  | 67  | 62  | 58  |  | 66  | 61  | 58  | 56  |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 59  | 54  | 64  | 58  | 54  |  | 63  | 57  | 53  |  | 61  | 57  | 53  | 51  |
| 8   | 72  | 61  | 54  | 50  | 71  | 61  | 54  | 50  | 60  | 54  | 49  |  | 58  | 53  | 49  |  | 57  | 53  | 49  | 47  |
| 9   | 68  | 57  | 50  | 46  | 67  | 57  | 50  | 46  | 56  | 50  | 46  |  | 55  | 49  | 45  |  | 54  | 49  | 45  | 44  |
| 10  | 65  | 54  | 47  | 42  | 63  | 53  | 47  | 42  | 52  | 46  | 42  |  | 51  | 46  | 42  |  | 51  | 46  | 42  | 41  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 157370 |
| 5°  | 154204 |
| 10° | 149321 |
| 15° | 147307 |
| 20° | 146429 |
| 25° | 144579 |
| 30° | 136808 |
| 35° | 112835 |
| 40° | 70456  |
| 45° | 45306  |
| 50° | 35135  |
| 55° | 27047  |
| 60° | 20494  |
| 65° | 13316  |
| 70° | 5698   |
| 75° | 2788   |
| 80° | 1243   |
| 85° | 814    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 468.6  | 6.7       |
| 10°-20°   | 1303.6 | 18.5      |
| 20°-30°   | 1941.7 | 27.6      |
| 30°-40°   | 1803.3 | 25.6      |
| 40°-50°   | 851.7  | 12.1      |
| 50°-60°   | 457.6  | 6.5       |
| 60°-70°   | 183.7  | 2.6       |
| 70°-80°   | 28.9   | 0.4       |
| 80°-90°   | 2.9    | 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°    | 3713.9 | 52.7      |
| 0°-40°    | 5517.2 | 78.3      |
| 0°-60°    | 6826.5 | 96.9      |
| 0°-90°    | 7042.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7042.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5103 |      |
| 5°  | 4982 | 469  |
| 15° | 4614 | 1304 |
| 25° | 4249 | 1942 |
| 35° | 2997 | 1803 |
| 45° | 1039 | 852  |
| 55° | 503  | 458  |
| 65° | 182  | 184  |
| 75° | 23   | 29   |
| 85° | 2    | 3    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 5103.4 |
| 2.5°  | 5068.3 |
| 5°    | 4981.7 |
| 7.5°  | 4871.7 |
| 10°   | 4768.8 |
| 12.5° | 4684.5 |
| 15°   | 4614.3 |
| 17.5° | 4541.8 |
| 20°   | 4462.2 |
| 22.5° | 4371.0 |
| 25°   | 4249.3 |
| 27.5° | 4078.5 |
| 30°   | 3842.2 |
| 32.5° | 3495.9 |
| 35°   | 2997.4 |
| 37.5° | 2361.0 |
| 40°   | 1750.3 |
| 42.5° | 1303.3 |
| 45°   | 1038.9 |
| 47.5° | 868.1  |
| 50°   | 732.4  |
| 52.5° | 610.7  |
| 55°   | 503.1  |
| 57.5° | 409.5  |
| 60°   | 332.3  |
| 62.5° | 259.7  |
| 65°   | 182.5  |
| 67.5° | 107.6  |
| 70°   | 63.2   |
| 72.5° | 37.4   |
| 75°   | 23.4   |
| 77.5° | 14.0   |
| 80°   | 7.0    |
| 82.5° | 4.7    |
| 85°   | 2.3    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)