

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: P250767

Luminaire Tested: **LD8B120D010 ER8B120940 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250767  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120940 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10959.0 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

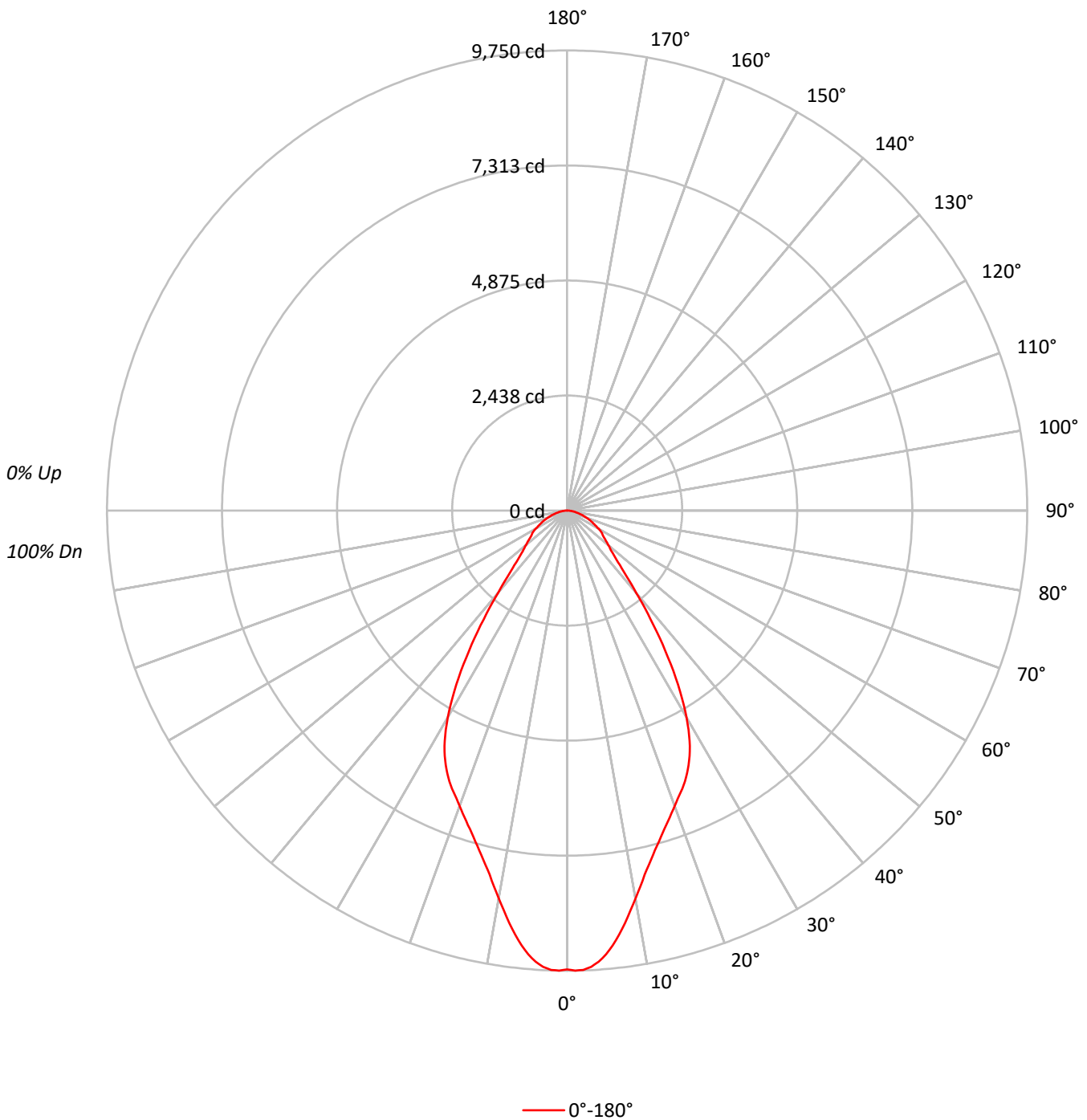
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  |  | 98  | 96  | 94  |  | 94  | 93  | 91  | 89  |
| 2   | 104 | 98  | 93  | 88  | 102 | 96  | 91  | 87  | 93  | 89  | 85  |  | 90  | 86  | 83  |  | 87  | 84  | 82  | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  |  | 82  | 78  | 75  |  | 80  | 76  | 73  | 71  |
| 4   | 91  | 82  | 75  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 66  | 65  |
| 5   | 85  | 75  | 68  | 63  | 83  | 74  | 67  | 62  | 72  | 66  | 62  |  | 70  | 65  | 61  |  | 69  | 64  | 60  | 59  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 55  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  |  | 61  | 55  | 51  |  | 60  | 55  | 51  | 49  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 53  | 48  | 58  | 52  | 48  |  | 57  | 51  | 47  |  | 56  | 51  | 47  | 46  |
| 9   | 67  | 56  | 49  | 44  | 66  | 56  | 49  | 44  | 54  | 48  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 44  | 42  |
| 10  | 64  | 53  | 46  | 41  | 63  | 52  | 46  | 41  | 51  | 45  | 41  |  | 50  | 45  | 41  |  | 50  | 45  | 41  | 39  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 299766 |
| 5°  | 292176 |
| 10° | 261205 |
| 15° | 234728 |
| 20° | 218599 |
| 25° | 205938 |
| 30° | 180067 |
| 35° | 136423 |
| 40° | 91638  |
| 45° | 64572  |
| 50° | 54756  |
| 55° | 49944  |
| 60° | 47321  |
| 65° | 42568  |
| 70° | 38300  |
| 75° | 34373  |
| 80° | 30402  |
| 85° | 29189  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 863.9   | 7.9       |
| 10°-20°   | 2073.6  | 18.9      |
| 20°-30°   | 2747.9  | 25.1      |
| 30°-40°   | 2253.3  | 20.6      |
| 40°-50°   | 1200.1  | 11.0      |
| 50°-60°   | 844.7   | 7.7       |
| 60°-70°   | 582.5   | 5.3       |
| 70°-80°   | 303.3   | 2.8       |
| 80°-90°   | 89.7    | 0.8       |
| 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°    | 5685.4  | 51.9      |
| 0°-40°    | 7938.7  | 72.4      |
| 0°-60°    | 9983.5  | 91.1      |
| 0°-90°    | 10959.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10959.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 9721 |      |
| 5°  | 9439 | 864  |
| 15° | 7353 | 2074 |
| 25° | 6053 | 2748 |
| 35° | 3624 | 2253 |
| 45° | 1481 | 1200 |
| 55° | 929  | 845  |
| 65° | 583  | 582  |
| 75° | 288  | 303  |
| 85° | 82   | 90   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 9721.2 |
| 1°    | 9749.7 |
| 2°    | 9737.0 |
| 3°    | 9679.9 |
| 4°    | 9581.7 |
| 5°    | 9439.0 |
| 6°    | 9261.5 |
| 7°    | 9049.0 |
| 8°    | 8820.7 |
| 9°    | 8576.6 |
| 10°   | 8342.0 |
| 11°   | 8116.8 |
| 12°   | 7888.5 |
| 13°   | 7698.3 |
| 14°   | 7517.6 |
| 15°   | 7352.7 |
| 16°   | 7197.4 |
| 17°   | 7054.7 |
| 18°   | 6921.5 |
| 19°   | 6788.3 |
| 20°   | 6661.5 |
| 21°   | 6537.8 |
| 22°   | 6430.1 |
| 23°   | 6319.1 |
| 24°   | 6189.1 |
| 25°   | 6052.7 |
| 26°   | 5897.4 |
| 27°   | 5723.0 |
| 28°   | 5526.4 |
| 29°   | 5307.7 |
| 30°   | 5057.1 |
| 31°   | 4794.0 |
| 32°   | 4518.2 |
| 33°   | 4223.3 |
| 34°   | 3928.4 |
| 35°   | 3624.0 |
| 37.5° | 2904.3 |
| 40°   | 2276.5 |
| 42.5° | 1797.8 |
| 45°   | 1480.7 |
| 47.5° | 1271.5 |
| 50°   | 1141.4 |
| 52.5° | 1027.3 |
| 55°   | 929.0  |
| 57.5° | 868.7  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    |
|-------|-------|
| 60°   | 767.3 |
| 62.5° | 669.0 |
| 65°   | 583.4 |
| 67.5° | 507.3 |
| 70°   | 424.8 |
| 72.5° | 355.1 |
| 75°   | 288.5 |
| 77.5° | 209.2 |
| 80°   | 171.2 |
| 82.5° | 123.7 |
| 85°   | 82.5  |
| 87.5° | 38.0  |
| 90°   | 0.0   |

(END OF REPORT)