

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: P250592

Luminaire Tested: **LD8B120D010 ER8B120935 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250592  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120935 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6702.9 lumens  
Efficiency: N/A  
Efficacy: 56.7 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

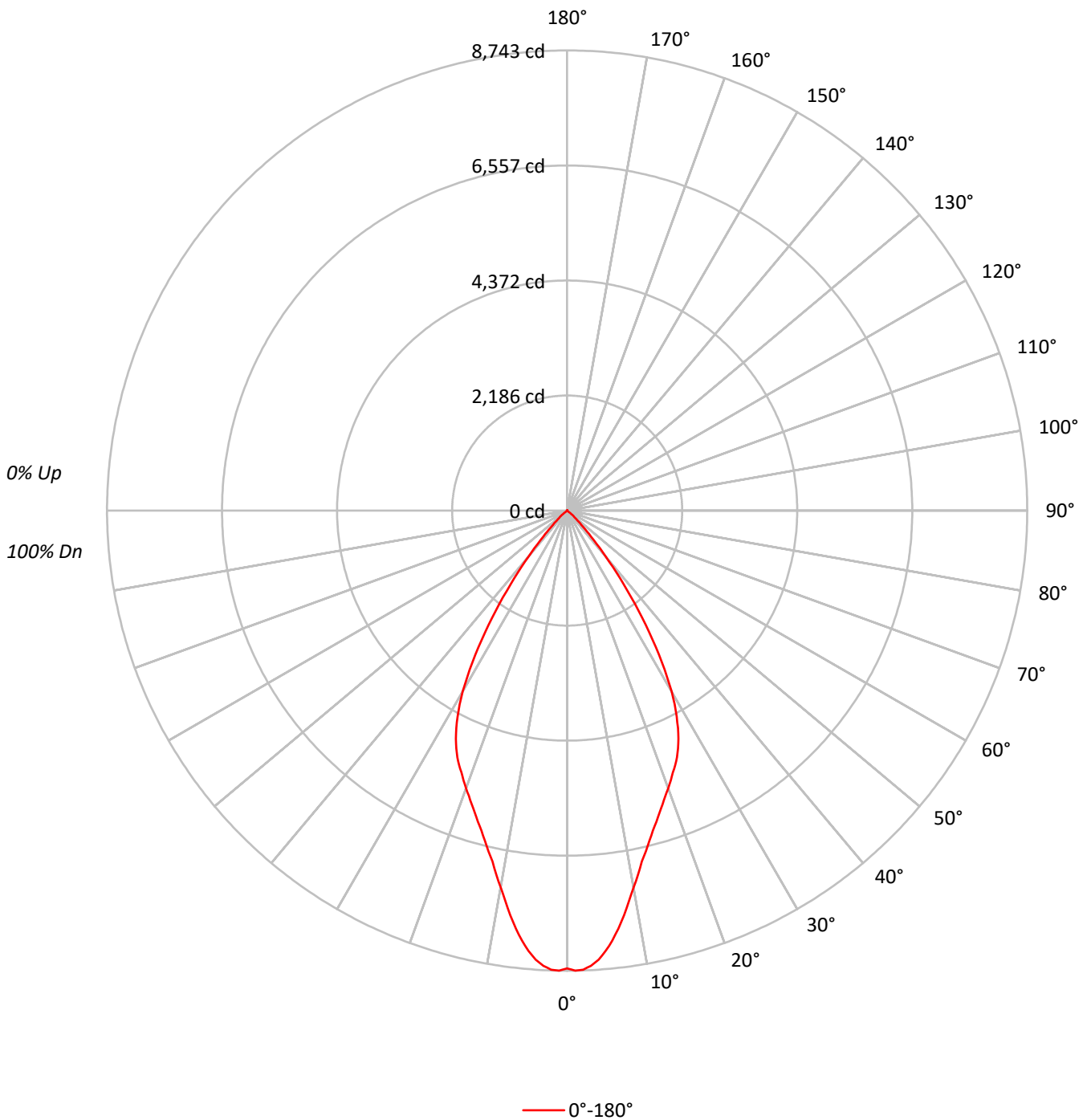
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 114 | 111 | 108 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98  | 98  | 97  | 96  | 94  |
| 2   | 108 | 103 | 99  | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 93  | 95  | 93  | 91  | 93  | 91  | 89  | 87  |
| 3   | 103 | 96  | 92  | 88  | 101 | 95  | 91  | 87  | 92  | 89  | 86  | 90  | 87  | 84  | 88  | 85  | 83  | 81  |
| 4   | 98  | 90  | 85  | 81  | 96  | 89  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 76  |
| 5   | 93  | 85  | 79  | 75  | 91  | 84  | 78  | 74  | 82  | 77  | 74  | 80  | 76  | 73  | 79  | 75  | 72  | 71  |
| 6   | 88  | 79  | 74  | 69  | 87  | 79  | 73  | 69  | 77  | 72  | 69  | 76  | 71  | 68  | 74  | 71  | 68  | 66  |
| 7   | 84  | 75  | 69  | 65  | 83  | 74  | 68  | 64  | 73  | 68  | 64  | 72  | 67  | 64  | 70  | 66  | 63  | 62  |
| 8   | 80  | 70  | 64  | 60  | 79  | 70  | 64  | 60  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 58  |
| 9   | 76  | 66  | 61  | 57  | 75  | 66  | 60  | 57  | 65  | 60  | 56  | 64  | 60  | 56  | 63  | 59  | 56  | 55  |
| 10  | 72  | 63  | 57  | 53  | 71  | 62  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 51  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 268196 |
| 5°  | 259996 |
| 10° | 227704 |
| 15° | 201029 |
| 20° | 184212 |
| 25° | 169617 |
| 30° | 141173 |
| 35° | 93768  |
| 40° | 45636  |
| 45° | 16528  |
| 50° | 4975   |
| 55° | 349    |
| 60° | 0      |
| 65° | 233    |
| 70° | 0      |
| 75° | 0      |
| 80° | 568    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 763.9  | 11.4      |
| 10°-20°   | 1774.1 | 26.5      |
| 20°-30°   | 2250.7 | 33.6      |
| 30°-40°   | 1541.9 | 23.0      |
| 40°-50°   | 351.4  | 5.2       |
| 50°-60°   | 17.5   | 0.3       |
| 60°-70°   | 0.8    | 0.0       |
| 70°-80°   | 1.3    | 0.0       |
| 80°-90°   | 1.3    | 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°    | 4788.8 | 71.4      |
| 0°-40°    | 6330.7 | 94.4      |
| 0°-60°    | 6699.6 | 99.9      |
| 0°-90°    | 6702.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6702.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 8697 |      |
| 5°  | 8399 | 764  |
| 15° | 6297 | 1774 |
| 25° | 4985 | 2251 |
| 35° | 2491 | 1542 |
| 45° | 379  | 351  |
| 55° | 6    | 18   |
| 65° | 3    | 1    |
| 75° | 0    | 1    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 8697.4 |
| 1°    | 8742.7 |
| 2°    | 8726.5 |
| 3°    | 8661.7 |
| 4°    | 8551.5 |
| 5°    | 8399.4 |
| 6°    | 8214.7 |
| 7°    | 8000.9 |
| 8°    | 7764.4 |
| 9°    | 7511.7 |
| 10°   | 7272.1 |
| 11°   | 7051.8 |
| 12°   | 6815.4 |
| 13°   | 6643.7 |
| 14°   | 6462.3 |
| 15°   | 6297.1 |
| 16°   | 6148.1 |
| 17°   | 6002.3 |
| 18°   | 5866.3 |
| 19°   | 5733.4 |
| 20°   | 5613.6 |
| 21°   | 5490.5 |
| 22°   | 5364.1 |
| 23°   | 5254.1 |
| 24°   | 5131.0 |
| 25°   | 4985.2 |
| 26°   | 4823.2 |
| 27°   | 4635.4 |
| 28°   | 4434.5 |
| 29°   | 4211.0 |
| 30°   | 3964.8 |
| 31°   | 3686.2 |
| 32°   | 3398.0 |
| 33°   | 3096.7 |
| 34°   | 2789.0 |
| 35°   | 2490.9 |
| 37.5° | 1758.9 |
| 40°   | 1133.7 |
| 42.5° | 667.3  |
| 45°   | 379.0  |
| 47.5° | 204.1  |
| 50°   | 103.7  |
| 52.5° | 19.4   |
| 55°   | 6.5    |
| 57.5° | 3.2    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 60°   | 0.0 |
| 62.5° | 0.0 |
| 65°   | 3.2 |
| 67.5° | 0.0 |
| 70°   | 0.0 |
| 72.5° | 3.2 |
| 75°   | 0.0 |
| 77.5° | 0.0 |
| 80°   | 3.2 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 3.2 |
| 90°   | 0.0 |

(END OF REPORT)