

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: P243877

Luminaire Tested: **LD8B15D010 ER8B15830 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-10)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B15D010 ER8B15830 8LBN0LI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1443.0 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

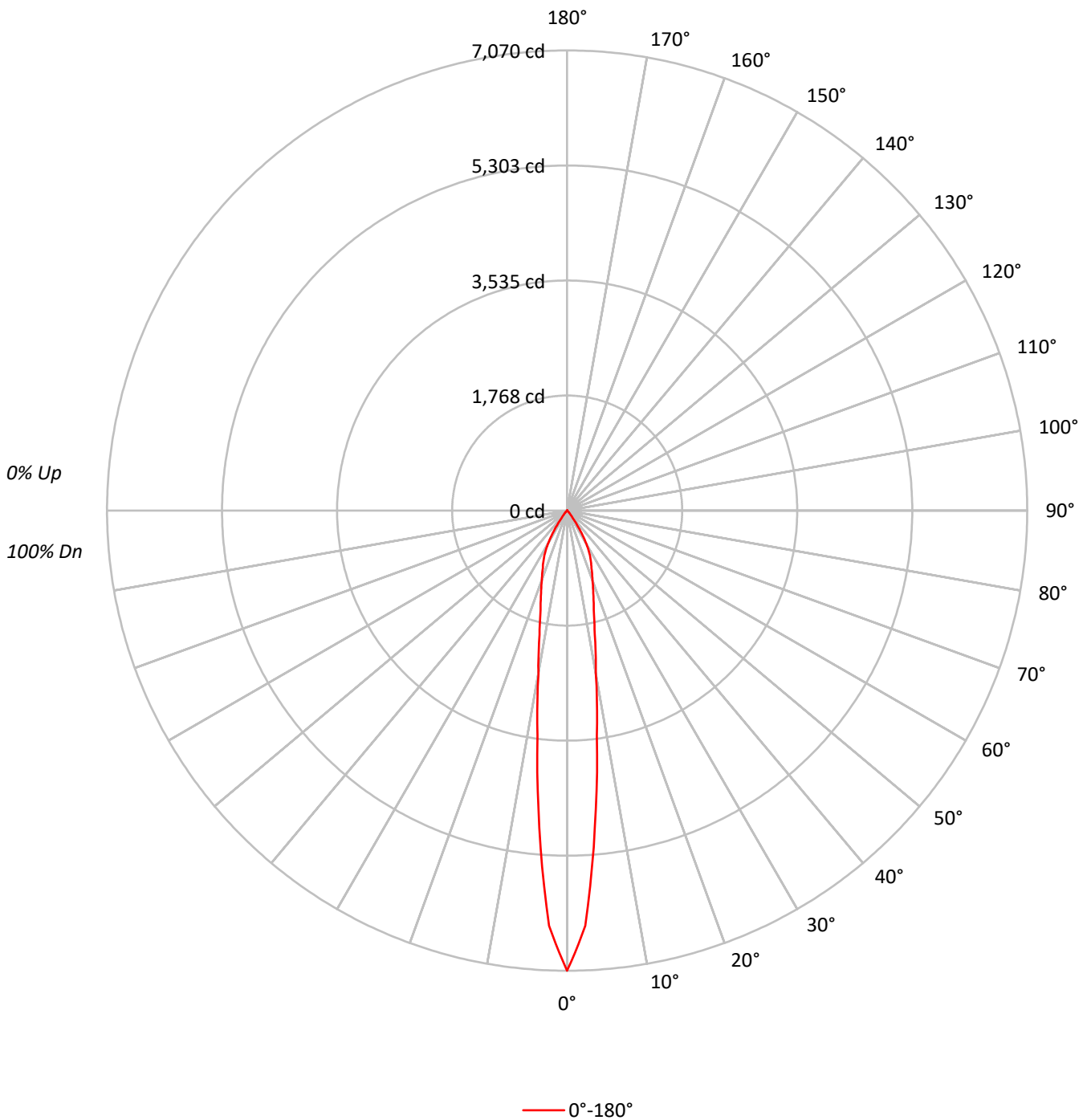
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  | 95  |
| 2   | 110 | 106 | 102 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 96  |  | 98  | 96  | 94  |  | 95  | 94  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 92  | 89  |  | 92  | 90  | 88  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  |  | 90  | 87  | 85  |  | 89  | 86  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 96  | 90  | 86  | 82  | 88  | 85  | 82  |  | 87  | 84  | 81  |  | 85  | 83  | 80  | 79  |
| 6   | 94  | 87  | 82  | 79  | 93  | 86  | 82  | 78  | 85  | 81  | 78  |  | 83  | 80  | 77  |  | 82  | 79  | 77  | 76  |
| 7   | 91  | 83  | 78  | 75  | 90  | 83  | 78  | 75  | 81  | 77  | 74  |  | 80  | 77  | 74  |  | 79  | 76  | 74  | 72  |
| 8   | 88  | 80  | 75  | 72  | 86  | 79  | 75  | 71  | 78  | 74  | 71  |  | 77  | 74  | 71  |  | 76  | 73  | 71  | 70  |
| 9   | 85  | 77  | 72  | 69  | 84  | 76  | 72  | 69  | 75  | 71  | 68  |  | 75  | 71  | 68  |  | 74  | 70  | 68  | 67  |
| 10  | 82  | 74  | 69  | 66  | 81  | 73  | 69  | 66  | 73  | 69  | 66  |  | 72  | 68  | 66  |  | 71  | 68  | 65  | 64  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 218003 |
| 5°  | 151415 |
| 10° | 79680  |
| 15° | 50415  |
| 20° | 37465  |
| 25° | 29455  |
| 30° | 21204  |
| 35° | 9099   |
| 40° | 3172   |
| 45° | 1217   |
| 50° | 283    |
| 55° | 108    |
| 60° | 0      |
| 65° | 146    |
| 70° | 45     |
| 75° | 119    |
| 80° | 178    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 392.2  | 27.2      |
| 10°-20°   | 455.6  | 31.6      |
| 20°-30°   | 393.3  | 27.3      |
| 30°-40°   | 170.6  | 11.8      |
| 40°-50°   | 26.7   | 1.9       |
| 50°-60°   | 1.9    | 0.1       |
| 60°-70°   | 1.1    | 0.1       |
| 70°-80°   | 1.1    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 1241.1 | 86.0      |
| 0°-40°    | 1411.7 | 97.8      |
| 0°-60°    | 1440.3 | 99.8      |
| 0°-90°    | 1443.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1443.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 7070 |      |
| 5°  | 4892 | 392  |
| 15° | 1579 | 456  |
| 25° | 866  | 393  |
| 35° | 242  | 171  |
| 45° | 28   | 27   |
| 55° | 2    | 2    |
| 65° | 2    | 1    |
| 75° | 1    | 1    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 7069.7 |
| 2.5°  | 6384.2 |
| 5°    | 4891.6 |
| 7.5°  | 3488.6 |
| 10°   | 2544.7 |
| 12.5° | 1952.5 |
| 15°   | 1579.2 |
| 17.5° | 1328.1 |
| 20°   | 1141.7 |
| 22.5° | 982.6  |
| 25°   | 865.7  |
| 27.5° | 742.4  |
| 30°   | 595.5  |
| 32.5° | 414.0  |
| 35°   | 241.7  |
| 37.5° | 135.1  |
| 40°   | 78.8   |
| 42.5° | 48.9   |
| 45°   | 27.9   |
| 47.5° | 22.5   |
| 50°   | 5.9    |
| 52.5° | 2.9    |
| 55°   | 2.0    |
| 57.5° | 1.0    |
| 60°   | 0.0    |
| 62.5° | 0.5    |
| 65°   | 2.0    |
| 67.5° | 1.5    |
| 70°   | 0.5    |
| 72.5° | 2.4    |
| 75°   | 1.0    |
| 77.5° | 0.0    |
| 80°   | 1.0    |
| 82.5° | 0.5    |
| 85°   | 0.0    |
| 87.5° | 1.0    |
| 90°   | 0.0    |

(END OF REPORT)