

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: P243873

Luminaire Tested: **LD8B30D010 ER8B30827 8LBNOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243873  
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: LD8B30D010 ER8B30827 8LBN0LI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2767.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

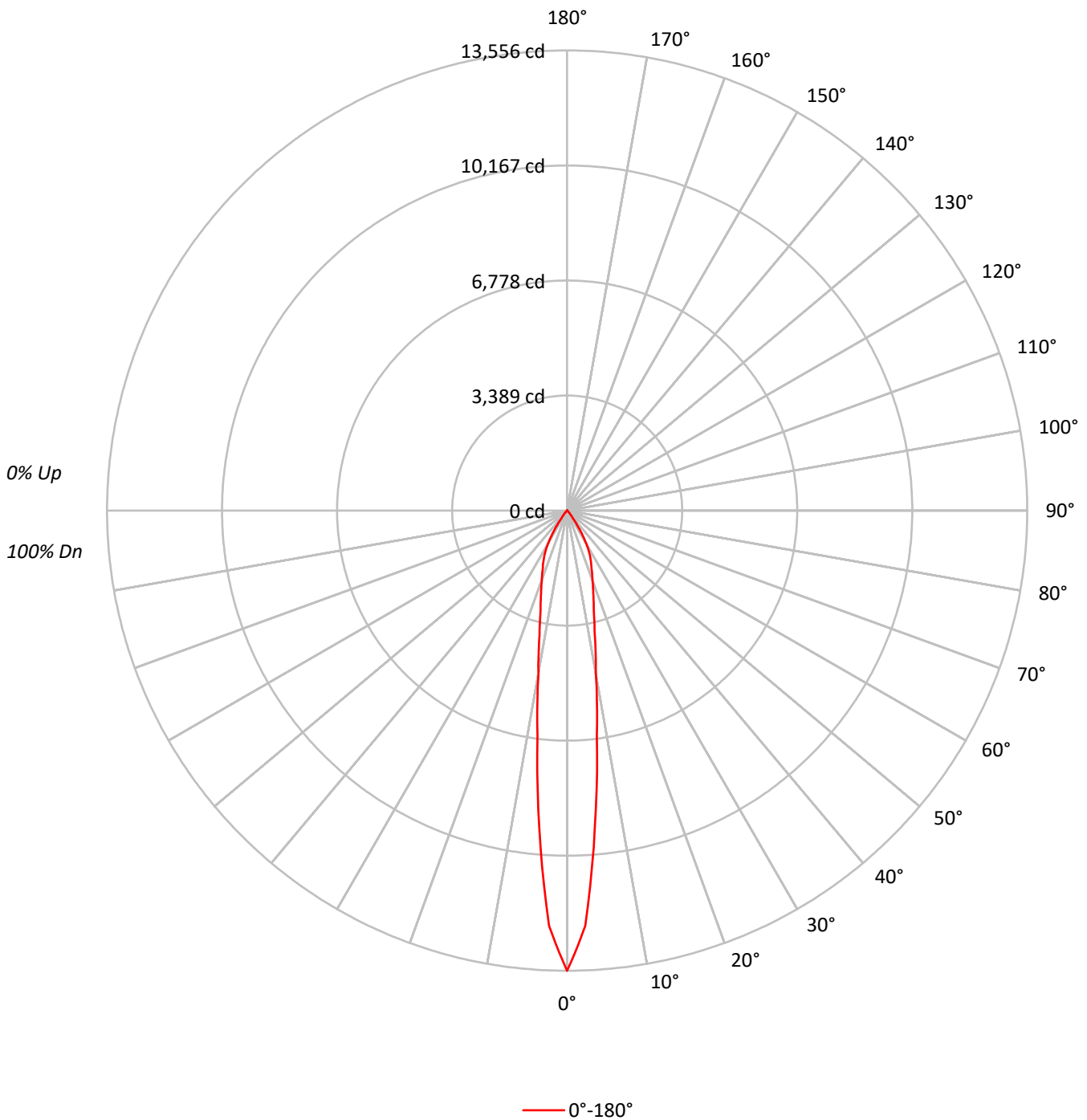
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 418032 |
| 5°  | 290343 |
| 10° | 152787 |
| 15° | 96669  |
| 20° | 71839  |
| 25° | 56480  |
| 30° | 40663  |
| 35° | 17448  |
| 40° | 6082   |
| 45° | 2333   |
| 50° | 542    |
| 55° | 204    |
| 60° | 0      |
| 65° | 277    |
| 70° | 81     |
| 75° | 226    |
| 80° | 337    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 752.0  | 27.2      |
| 10°-20°   | 873.7  | 31.6      |
| 20°-30°   | 754.1  | 27.3      |
| 30°-40°   | 327.1  | 11.8      |
| 40°-50°   | 51.3   | 1.9       |
| 50°-60°   | 3.7    | 0.1       |
| 60°-70°   | 2.0    | 0.1       |
| 70°-80°   | 2.1    | 0.1       |
| 80°-90°   | 1.0    | 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°    | 2379.8 | 86.0      |
| 0°-40°    | 2706.9 | 97.8      |
| 0°-60°    | 2761.9 | 99.8      |
| 0°-90°    | 2767.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2767.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 13556 |      |
| 5°  | 9380  | 752  |
| 15° | 3028  | 874  |
| 25° | 1660  | 754  |
| 35° | 464   | 327  |
| 45° | 54    | 51   |
| 55° | 4     | 4    |
| 65° | 4     | 2    |
| 75° | 2     | 2    |
| 85° | 0     | 1    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 13556.5 |
| 2.5°  | 12241.8 |
| 5°    | 9379.8  |
| 7.5°  | 6689.6  |
| 10°   | 4879.5  |
| 12.5° | 3744.0  |
| 15°   | 3028.1  |
| 17.5° | 2546.7  |
| 20°   | 2189.2  |
| 22.5° | 1884.2  |
| 25°   | 1660.0  |
| 27.5° | 1423.5  |
| 30°   | 1142.0  |
| 32.5° | 793.9   |
| 35°   | 463.5   |
| 37.5° | 259.0   |
| 40°   | 151.1   |
| 42.5° | 93.8    |
| 45°   | 53.5    |
| 47.5° | 43.2    |
| 50°   | 11.3    |
| 52.5° | 5.6     |
| 55°   | 3.8     |
| 57.5° | 1.9     |
| 60°   | 0.0     |
| 62.5° | 0.9     |
| 65°   | 3.8     |
| 67.5° | 2.8     |
| 70°   | 0.9     |
| 72.5° | 4.7     |
| 75°   | 1.9     |
| 77.5° | 0.0     |
| 80°   | 1.9     |
| 82.5° | 0.9     |
| 85°   | 0.0     |
| 87.5° | 1.9     |
| 90°   | 0.0     |

(END OF REPORT)