

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: P250056

Luminaire Tested: **LD8B200D010 ER8B200835 8LBNOWH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200835 8LBN0WH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19458.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

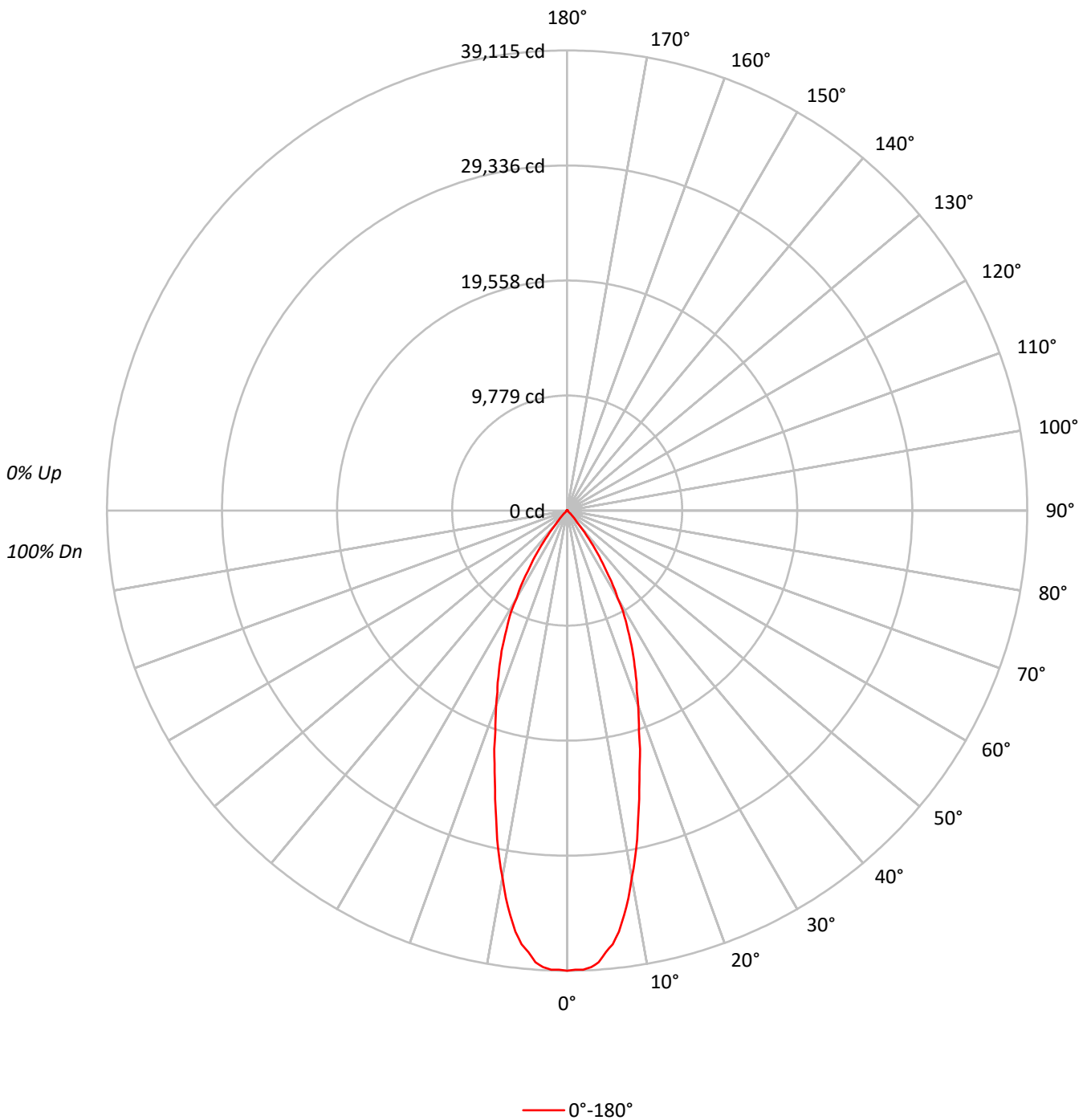
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 93  | 91  | 89  |
| 3   | 105 | 99  | 94  | 91  | 103 | 97  | 93  | 90  | 95  | 91  | 89  | 92  | 90  | 87  | 90  | 88  | 86  | 85  |
| 4   | 100 | 93  | 88  | 85  | 98  | 92  | 88  | 84  | 90  | 86  | 83  | 88  | 85  | 82  | 86  | 84  | 81  | 80  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 83  | 79  | 86  | 82  | 78  | 84  | 81  | 78  | 83  | 80  | 77  | 76  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 74  | 82  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 72  |
| 7   | 88  | 80  | 74  | 71  | 87  | 79  | 74  | 70  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 68  |
| 8   | 84  | 76  | 71  | 67  | 83  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 72  | 69  | 66  | 65  |
| 9   | 81  | 72  | 67  | 64  | 80  | 72  | 67  | 64  | 71  | 66  | 63  | 70  | 66  | 63  | 69  | 66  | 63  | 62  |
| 10  | 78  | 69  | 64  | 61  | 77  | 69  | 64  | 61  | 68  | 63  | 60  | 67  | 63  | 60  | 67  | 63  | 60  | 59  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1206172 |
| 5°  | 1166434 |
| 10° | 991977  |
| 15° | 757118  |
| 20° | 578626  |
| 25° | 448394  |
| 30° | 305822  |
| 35° | 179676  |
| 40° | 54939   |
| 45° | 21613   |
| 50° | 326     |
| 55° | 366     |
| 60° | 419     |
| 65° | 992     |
| 70° | 1839    |
| 75° | 1620    |
| 80° | 1208    |
| 85° | 7218    |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3416.2  | 17.6      |
| 10°-20°   | 6619.7  | 34.0      |
| 20°-30°   | 5959.9  | 30.6      |
| 30°-40°   | 2948.7  | 15.2      |
| 40°-50°   | 448.6   | 2.3       |
| 50°-60°   | 18.4    | 0.1       |
| 60°-70°   | 23.7    | 0.1       |
| 70°-80°   | 8.9     | 0.0       |
| 80°-90°   | 13.9    | 0.1       |
| 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°    | 15995.8 | 82.2      |
| 0°-40°    | 18944.4 | 97.4      |
| 0°-60°    | 19411.4 | 99.8      |
| 0°-90°    | 19458.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 19458.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 39115 |      |
| 5°  | 37683 | ###  |
| 15° | 23716 | 6620 |
| 25° | 13179 | 5960 |
| 35° | 4773  | 2949 |
| 45° | 496   | 449  |
| 55° | 7     | 18   |
| 65° | 14    | 24   |
| 75° | 14    | 9    |
| 85° | 20    | 14   |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 39115.3 |
| 1°    | 39033.9 |
| 2°    | 39054.0 |
| 3°    | 38857.1 |
| 4°    | 38497.4 |
| 5°    | 37682.7 |
| 6°    | 37058.0 |
| 7°    | 36066.8 |
| 8°    | 34736.0 |
| 9°    | 33350.8 |
| 10°   | 31680.4 |
| 11°   | 30186.8 |
| 12°   | 28584.6 |
| 13°   | 26812.4 |
| 14°   | 25284.7 |
| 15°   | 23716.2 |
| 16°   | 22378.6 |
| 17°   | 21197.4 |
| 18°   | 19744.3 |
| 19°   | 18678.2 |
| 20°   | 17632.8 |
| 21°   | 16546.3 |
| 22°   | 15752.0 |
| 23°   | 14828.6 |
| 24°   | 13979.8 |
| 25°   | 13178.7 |
| 26°   | 12234.8 |
| 27°   | 11386.3 |
| 28°   | 10625.8 |
| 29°   | 9790.6  |
| 30°   | 8588.9  |
| 31°   | 7910.0  |
| 32°   | 7054.4  |
| 33°   | 6117.4  |
| 34°   | 5404.5  |
| 35°   | 4773.0  |
| 37.5° | 3021.3  |
| 40°   | 1364.8  |
| 42.5° | 930.2   |
| 45°   | 495.6   |
| 47.5° | 278.3   |
| 50°   | 6.8     |
| 52.5° | 27.2    |
| 55°   | 6.8     |
| 57.5° | 40.9    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   |
|-------|------|
| 60°   | 6.8  |
| 62.5° | 34.1 |
| 65°   | 13.6 |
| 67.5° | 34.1 |
| 70°   | 20.4 |
| 72.5° | 6.8  |
| 75°   | 13.6 |
| 77.5° | 0.0  |
| 80°   | 6.8  |
| 82.5° | 27.2 |
| 85°   | 20.4 |
| 87.5° | 0.0  |
| 90°   | 0.0  |

(END OF REPORT)