

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: P248023

Luminaire Tested: **LD8B200D010 ER8B200830 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13941)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200830 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19654.0 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

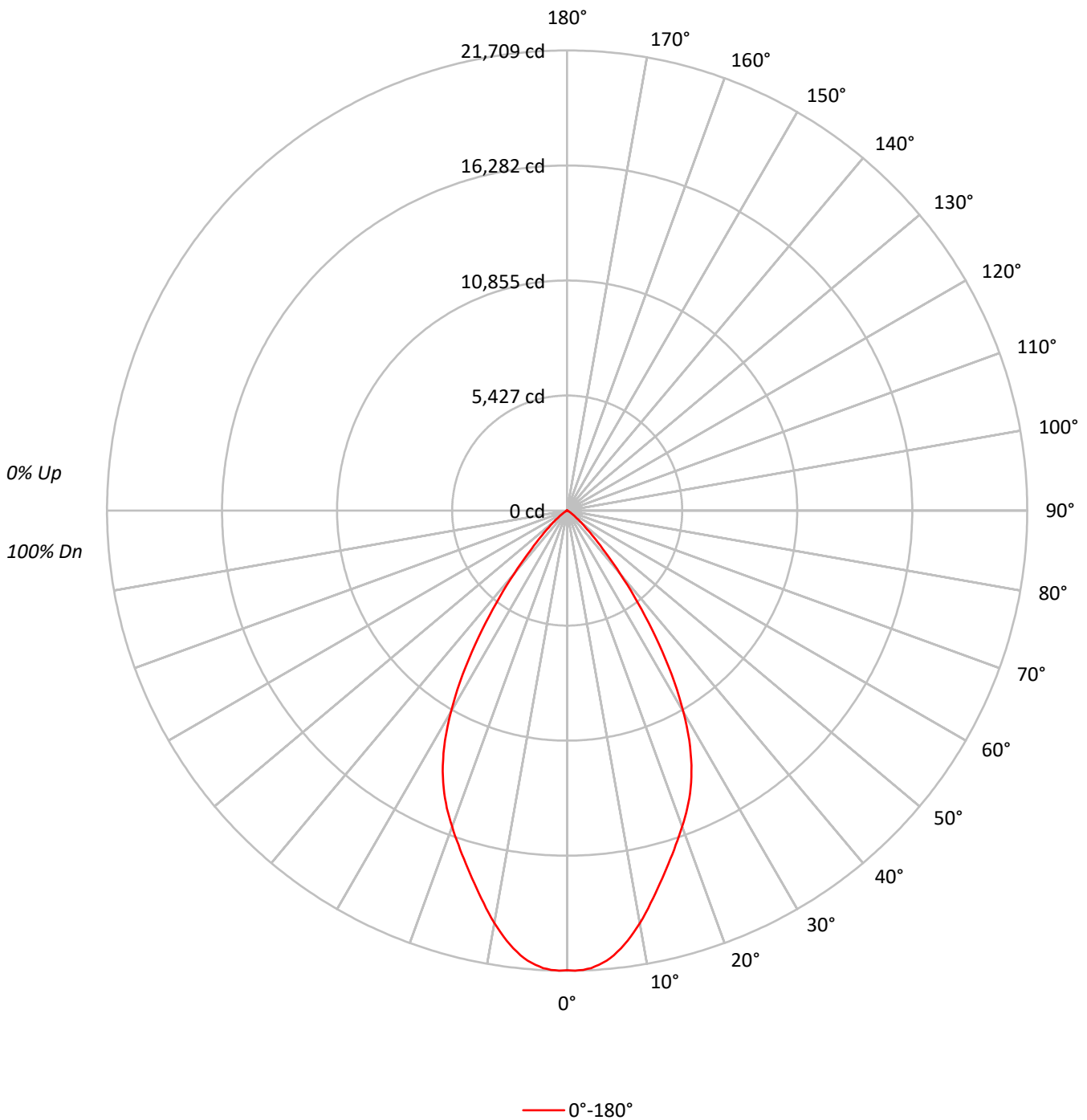
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2   | 108 | 103 | 99  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 86  |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 86  | 91  | 87  | 84  | 89  | 86  | 83  | 87  | 84  | 82  | 80  |
| 4   | 97  | 89  | 83  | 79  | 95  | 88  | 82  | 78  | 86  | 81  | 77  | 84  | 80  | 77  | 82  | 78  | 76  | 74  |
| 5   | 92  | 83  | 77  | 73  | 90  | 82  | 76  | 72  | 80  | 75  | 72  | 79  | 74  | 71  | 77  | 73  | 70  | 69  |
| 6   | 87  | 78  | 72  | 67  | 85  | 77  | 71  | 67  | 75  | 70  | 66  | 74  | 69  | 66  | 73  | 69  | 65  | 64  |
| 7   | 82  | 73  | 67  | 62  | 81  | 72  | 66  | 62  | 71  | 66  | 62  | 70  | 65  | 61  | 68  | 64  | 61  | 60  |
| 8   | 78  | 68  | 62  | 58  | 77  | 68  | 62  | 58  | 67  | 61  | 58  | 66  | 61  | 57  | 65  | 60  | 57  | 56  |
| 9   | 74  | 64  | 58  | 54  | 73  | 64  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 52  |
| 10  | 71  | 61  | 55  | 51  | 70  | 60  | 55  | 51  | 60  | 54  | 51  | 59  | 54  | 51  | 58  | 54  | 50  | 49  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 668516 |
| 5°  | 659907 |
| 10° | 618635 |
| 15° | 565721 |
| 20° | 520799 |
| 25° | 471925 |
| 30° | 390780 |
| 35° | 274069 |
| 40° | 155968 |
| 45° | 76495  |
| 50° | 37750  |
| 55° | 17118  |
| 60° | 8147   |
| 65° | 4385   |
| 70° | 541    |
| 75° | 715    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1983.9  | 10.1      |
| 10°-20°   | 4974.6  | 25.3      |
| 20°-30°   | 6279.7  | 32.0      |
| 30°-40°   | 4517.4  | 23.0      |
| 40°-50°   | 1495.1  | 7.6       |
| 50°-60°   | 325.6   | 1.7       |
| 60°-70°   | 67.2    | 0.3       |
| 70°-80°   | 7.1     | 0.0       |
| 80°-90°   | 3.3     | 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°    | 13238.2 | 67.4      |
| 0°-40°    | 17755.6 | 90.3      |
| 0°-60°    | 19576.4 | 99.6      |
| 0°-90°    | 19654.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 19654.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 21680 |      |
| 5°  | 21319 | ###  |
| 15° | 17721 | 4975 |
| 25° | 13870 | 6280 |
| 35° | 7280  | 4517 |
| 45° | 1754  | 1495 |
| 55° | 318   | 326  |
| 65° | 60    | 67   |
| 75° | 6     | 7    |
| 85° | 0     | 3    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |         |
|-------|---------|
| 0°    | 21679.5 |
| 1°    | 21709.4 |
| 2°    | 21685.3 |
| 3°    | 21613.3 |
| 4°    | 21481.2 |
| 5°    | 21318.9 |
| 6°    | 21096.7 |
| 7°    | 20808.4 |
| 8°    | 20489.9 |
| 9°    | 20141.6 |
| 10°   | 19757.1 |
| 11°   | 19366.7 |
| 12°   | 18940.2 |
| 13°   | 18531.7 |
| 14°   | 18117.2 |
| 15°   | 17720.8 |
| 16°   | 17330.3 |
| 17°   | 16957.8 |
| 18°   | 16585.5 |
| 19°   | 16231.0 |
| 20°   | 15870.6 |
| 21°   | 15504.1 |
| 22°   | 15143.7 |
| 23°   | 14753.2 |
| 24°   | 14332.8 |
| 25°   | 13870.3 |
| 26°   | 13383.6 |
| 27°   | 12843.0 |
| 28°   | 12272.4 |
| 29°   | 11635.6 |
| 30°   | 10974.9 |
| 31°   | 10278.0 |
| 32°   | 9545.2  |
| 33°   | 8776.3  |
| 34°   | 8025.4  |
| 35°   | 7280.5  |
| 37.5° | 5466.4  |
| 40°   | 3874.6  |
| 42.5° | 2625.1  |
| 45°   | 1754.1  |
| 47.5° | 1177.3  |
| 50°   | 786.9   |
| 52.5° | 474.6   |
| 55°   | 318.4   |
| 57.5° | 222.2   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    |
|-------|-------|
| 60°   | 132.1 |
| 62.5° | 90.1  |
| 65°   | 60.1  |
| 67.5° | 54.1  |
| 70°   | 6.0   |
| 72.5° | 12.1  |
| 75°   | 6.0   |
| 77.5° | 6.0   |
| 80°   | 0.0   |
| 82.5° | 12.1  |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |

(END OF REPORT)