

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: P250021

Luminaire Tested: **LD8B200D010 ER8B200950 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200950 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17038.0 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

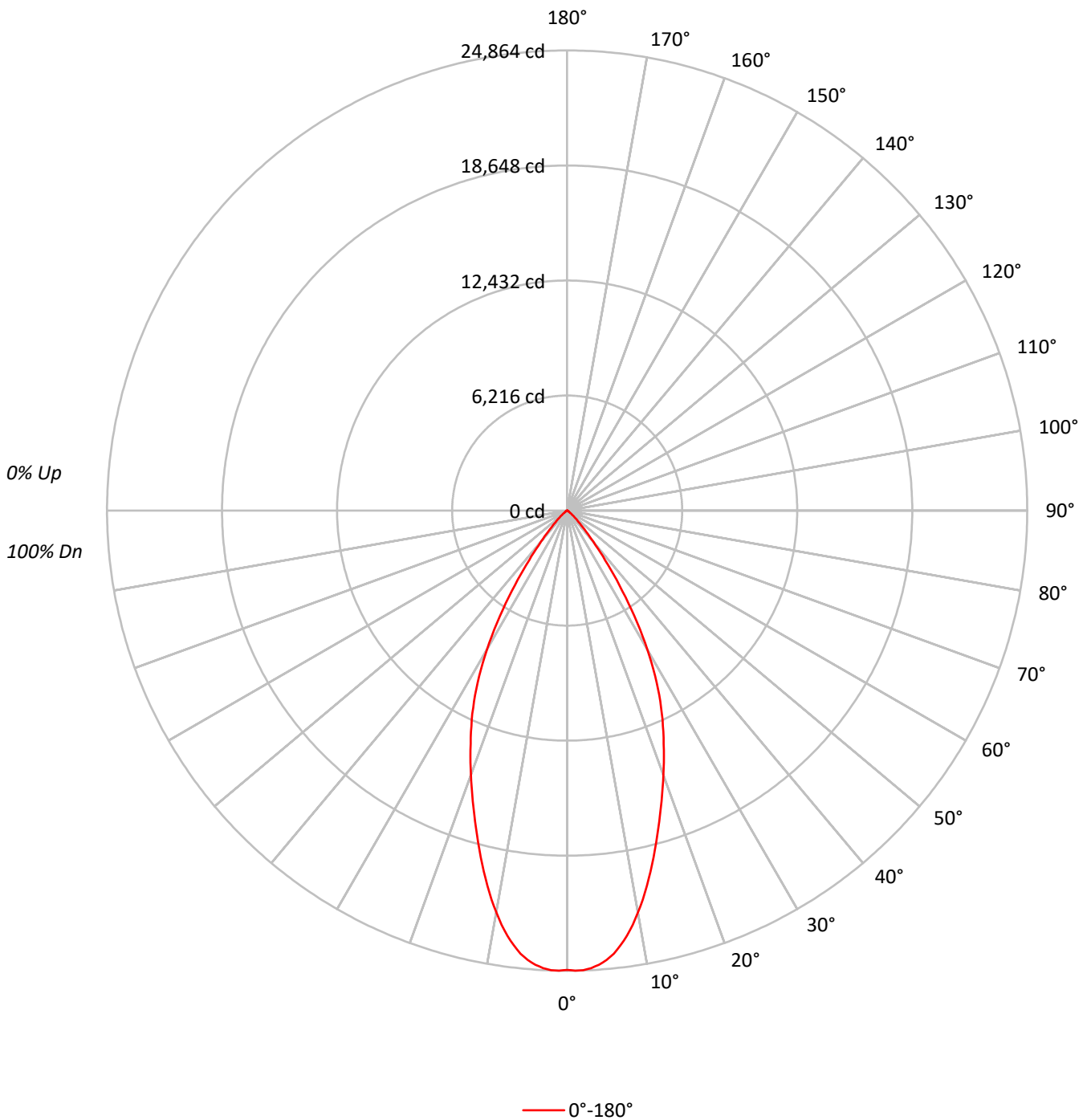
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2   | 108 | 104 | 100 | 97  | 106 | 102 | 99  | 96  | 99  | 96  | 93  | 96  | 94  | 91  | 93  | 91  | 90  | 88  |
| 3   | 103 | 97  | 92  | 89  | 101 | 96  | 91  | 88  | 93  | 89  | 86  | 91  | 88  | 85  | 89  | 86  | 84  | 82  |
| 4   | 98  | 91  | 86  | 82  | 97  | 90  | 85  | 81  | 88  | 84  | 80  | 86  | 82  | 79  | 84  | 81  | 79  | 77  |
| 5   | 94  | 86  | 80  | 76  | 92  | 85  | 80  | 76  | 83  | 78  | 75  | 81  | 77  | 74  | 80  | 76  | 74  | 72  |
| 6   | 89  | 81  | 75  | 71  | 88  | 80  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 68  |
| 7   | 85  | 76  | 71  | 67  | 84  | 76  | 70  | 66  | 74  | 70  | 66  | 73  | 69  | 66  | 72  | 68  | 65  | 64  |
| 8   | 81  | 72  | 66  | 63  | 80  | 72  | 66  | 62  | 71  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 60  |
| 9   | 78  | 68  | 63  | 59  | 77  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 58  | 65  | 61  | 58  | 57  |
| 10  | 74  | 65  | 59  | 56  | 73  | 65  | 59  | 56  | 64  | 59  | 56  | 63  | 59  | 55  | 62  | 58  | 55  | 54  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 765240 |
| 5°  | 754581 |
| 10° | 690336 |
| 15° | 592709 |
| 20° | 499124 |
| 25° | 412389 |
| 30° | 309323 |
| 35° | 184381 |
| 40° | 87846  |
| 45° | 38271  |
| 50° | 17352  |
| 55° | 7645   |
| 60° | 4385   |
| 65° | 2605   |
| 70° | 2678   |
| 75° | 0      |
| 80° | 1048   |
| 85° | 4210   |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2252.4  | 13.2      |
| 10°-20°   | 5167.8  | 30.3      |
| 20°-30°   | 5490.2  | 32.2      |
| 30°-40°   | 3132.4  | 18.4      |
| 40°-50°   | 776.7   | 4.6       |
| 50°-60°   | 152.7   | 0.9       |
| 60°-70°   | 46.1    | 0.3       |
| 70°-80°   | 10.9    | 0.1       |
| 80°-90°   | 8.9     | 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°    | 12910.3 | 75.8      |
| 0°-40°    | 16042.7 | 94.2      |
| 0°-60°    | 16972.1 | 99.6      |
| 0°-90°    | 17038.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 17038.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 24816 |      |
| 5°  | 24377 | ###  |
| 15° | 18566 | 5168 |
| 25° | 12120 | 5490 |
| 35° | 4898  | 3132 |
| 45° | 878   | 777  |
| 55° | 142   | 153  |
| 65° | 36    | 46   |
| 75° | 0     | 11   |
| 85° | 12    | 9    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 24816.2 |
| 1°    | 24863.8 |
| 2°    | 24846.0 |
| 3°    | 24757.0 |
| 4°    | 24602.9 |
| 5°    | 24377.4 |
| 6°    | 24081.1 |
| 7°    | 23671.8 |
| 8°    | 23203.3 |
| 9°    | 22652.1 |
| 10°   | 22047.0 |
| 11°   | 21406.8 |
| 12°   | 20718.8 |
| 13°   | 20019.1 |
| 14°   | 19301.6 |
| 15°   | 18566.2 |
| 16°   | 17872.5 |
| 17°   | 17172.8 |
| 18°   | 16514.5 |
| 19°   | 15844.6 |
| 20°   | 15210.1 |
| 22.5° | 13638.5 |
| 25°   | 12120.5 |
| 27.5° | 10490.0 |
| 30°   | 8687.2  |
| 32.5° | 6754.0  |
| 35°   | 4898.0  |
| 37.5° | 3374.0  |
| 40°   | 2182.3  |
| 42.5° | 1381.8  |
| 45°   | 877.6   |
| 47.5° | 575.3   |
| 50°   | 361.7   |
| 52.5° | 219.5   |
| 55°   | 142.2   |
| 57.5° | 112.7   |
| 60°   | 71.1    |
| 62.5° | 65.2    |
| 65°   | 35.7    |
| 67.5° | 35.7    |
| 70°   | 29.7    |
| 72.5° | 17.8    |
| 75°   | 0.0     |
| 77.5° | 5.9     |
| 80°   | 5.9     |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   |
|-------|------|
| 82.5° | 11.9 |
| 85°   | 11.9 |
| 87.5° | 5.9  |
| 90°   | 0.0  |

(END OF REPORT)