

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: P249943

Luminaire Tested: **LD8B175D010 ER8B175927 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175927 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13943.3 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

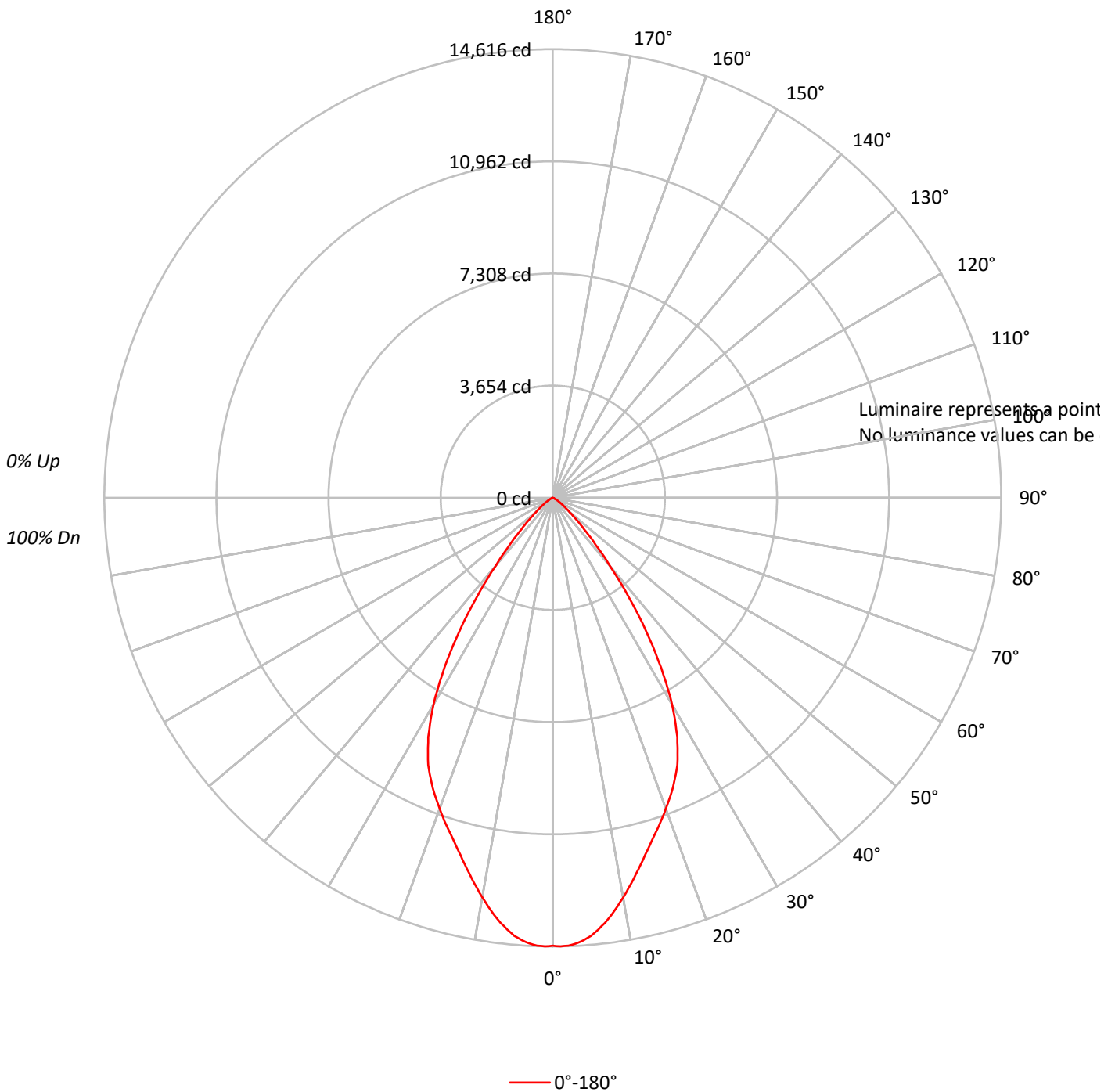
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 101 |  | 100 | 99  | 98  |  | 97  | 96  | 95  | 93  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 97  | 93  | 97  | 94  | 91  |  | 94  | 92  | 89  |  | 91  | 89  | 87  | 86  |
| 3   | 101 | 95  | 90  | 85  | 99  | 93  | 89  | 85  | 91  | 87  | 83  |  | 88  | 85  | 82  |  | 86  | 83  | 81  | 79  |
| 4   | 96  | 88  | 82  | 78  | 94  | 87  | 82  | 77  | 85  | 80  | 76  |  | 83  | 79  | 76  |  | 81  | 77  | 75  | 73  |
| 5   | 91  | 82  | 76  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  |  | 78  | 73  | 70  |  | 76  | 72  | 69  | 68  |
| 6   | 86  | 77  | 70  | 66  | 84  | 76  | 70  | 66  | 74  | 69  | 65  |  | 73  | 68  | 65  |  | 71  | 67  | 64  | 63  |
| 7   | 81  | 72  | 65  | 61  | 80  | 71  | 65  | 61  | 70  | 64  | 60  |  | 68  | 64  | 60  |  | 67  | 63  | 60  | 58  |
| 8   | 77  | 67  | 61  | 57  | 76  | 67  | 61  | 56  | 65  | 60  | 56  |  | 64  | 60  | 56  |  | 63  | 59  | 56  | 54  |
| 9   | 73  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 56  | 53  |  | 61  | 56  | 52  |  | 60  | 55  | 52  | 51  |
| 10  | 70  | 60  | 53  | 49  | 69  | 59  | 53  | 49  | 58  | 53  | 49  |  | 57  | 53  | 49  |  | 57  | 52  | 49  | 48  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1330.5  | 9.5       |
| 10°-20°   | 3347.5  | 24.0      |
| 20°-30°   | 4345.8  | 31.2      |
| 30°-40°   | 3280.1  | 23.5      |
| 40°-50°   | 1200.2  | 8.6       |
| 50°-60°   | 335.5   | 2.4       |
| 60°-70°   | 88.2    | 0.6       |
| 70°-80°   | 14.8    | 0.1       |
| 80°-90°   | 0.6     | 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°    | 9023.8  | 64.7      |
| 0°-40°    | 12303.9 | 88.2      |
| 0°-60°    | 13839.7 | 99.3      |
| 0°-90°    | 13943.3 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 13943.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 14594 |      |
| 5°  | 14324 | ###  |
| 15° | 11898 | 3348 |
| 25° | 9606  | 4346 |
| 35° | 5297  | 3280 |
| 45° | 1439  | 1200 |
| 55° | 344   | 336  |
| 65° | 83    | 88   |
| 75° | 13    | 15   |
| 85° | 0     | 1    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |         |
|-------|---------|
| 0°    | 14594.1 |
| 1°    | 14615.9 |
| 2°    | 14598.4 |
| 3°    | 14542.0 |
| 4°    | 14446.2 |
| 5°    | 14324.5 |
| 6°    | 14146.2 |
| 7°    | 13950.6 |
| 8°    | 13724.3 |
| 9°    | 13476.5 |
| 10°   | 13215.6 |
| 11°   | 12954.7 |
| 12°   | 12685.1 |
| 13°   | 12411.1 |
| 14°   | 12150.1 |
| 15°   | 11897.9 |
| 16°   | 11658.7 |
| 17°   | 11428.3 |
| 18°   | 11219.5 |
| 19°   | 11002.2 |
| 20°   | 10780.3 |
| 22.5° | 10228.1 |
| 25°   | 9606.2  |
| 27.5° | 8784.3  |
| 30°   | 7784.1  |
| 32.5° | 6579.6  |
| 35°   | 5296.7  |
| 37.5° | 4044.3  |
| 40°   | 2917.9  |
| 42.5° | 2065.6  |
| 45°   | 1439.4  |
| 47.5° | 1013.3  |
| 50°   | 682.8   |
| 52.5° | 500.1   |
| 55°   | 343.6   |
| 57.5° | 247.8   |
| 60°   | 165.3   |
| 62.5° | 121.7   |
| 65°   | 82.6    |
| 67.5° | 56.6    |
| 70°   | 30.5    |
| 72.5° | 21.7    |
| 75°   | 13.0    |
| 77.5° | 4.4     |
| 80°   | 4.4     |



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)