

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: P250544

Luminaire Tested: **LD8B150D010 ER8B150827 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B150D010 ER8B150827 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9592.9 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

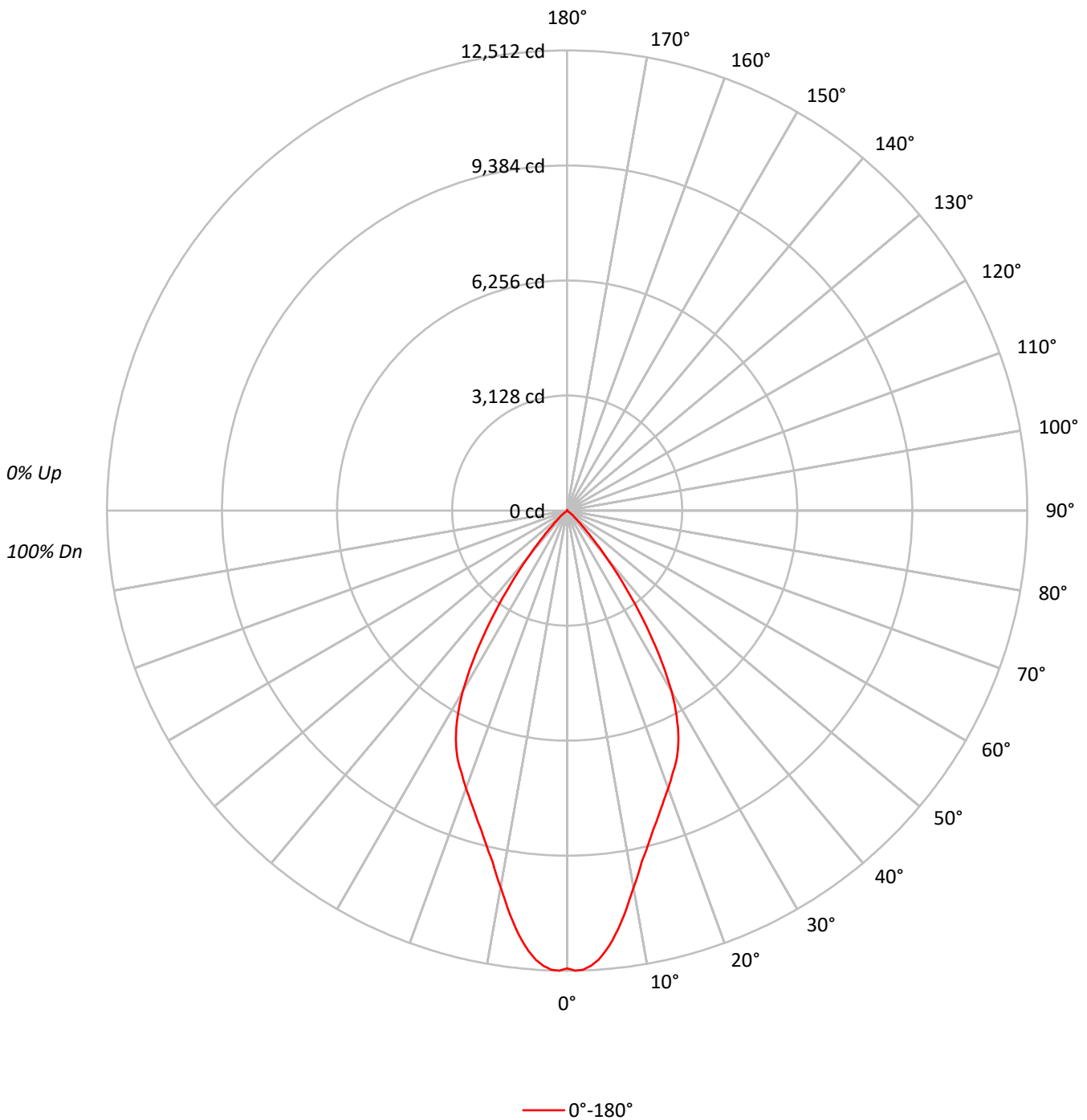
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 108 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98  | 98  | 97  | 96  | 94  |
| 2   | 108 | 103 | 99  | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 93  | 95  | 93  | 91  | 93  | 91  | 89  | 87  |
| 3   | 103 | 96  | 92  | 88  | 101 | 95  | 91  | 87  | 92  | 89  | 86  | 90  | 87  | 84  | 88  | 85  | 83  | 81  |
| 4   | 98  | 90  | 85  | 81  | 96  | 89  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 76  |
| 5   | 93  | 85  | 79  | 75  | 91  | 84  | 78  | 74  | 82  | 77  | 74  | 80  | 76  | 73  | 79  | 75  | 72  | 71  |
| 6   | 88  | 79  | 74  | 69  | 87  | 79  | 73  | 69  | 77  | 72  | 69  | 76  | 71  | 68  | 74  | 71  | 68  | 66  |
| 7   | 84  | 75  | 69  | 65  | 83  | 74  | 68  | 64  | 73  | 68  | 64  | 72  | 67  | 64  | 70  | 66  | 63  | 62  |
| 8   | 80  | 70  | 64  | 60  | 79  | 70  | 64  | 60  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 58  |
| 9   | 76  | 66  | 61  | 57  | 75  | 66  | 60  | 57  | 65  | 60  | 56  | 64  | 60  | 56  | 63  | 59  | 56  | 55  |
| 10  | 72  | 63  | 57  | 53  | 71  | 62  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 51  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 383826 |
| 5°  | 372090 |
| 10° | 325877 |
| 15° | 287703 |
| 20° | 263635 |
| 25° | 242748 |
| 30° | 202043 |
| 35° | 134198 |
| 40° | 65312  |
| 45° | 23654  |
| 50° | 7119   |
| 55° | 500    |
| 60° | 0      |
| 65° | 336    |
| 70° | 0      |
| 75° | 0      |
| 80° | 817    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1093.3 | 11.4      |
| 10°-20°   | 2539.0 | 26.5      |
| 20°-30°   | 3221.1 | 33.6      |
| 30°-40°   | 2206.7 | 23.0      |
| 40°-50°   | 502.9  | 5.2       |
| 50°-60°   | 25.1   | 0.3       |
| 60°-70°   | 1.1    | 0.0       |
| 70°-80°   | 1.8    | 0.0       |
| 80°-90°   | 1.9    | 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°    | 6853.4 | 71.4      |
| 0°-40°    | 9060.2 | 94.4      |
| 0°-60°    | 9588.1 | 99.9      |
| 0°-90°    | 9592.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9592.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 12447 |      |
| 5°  | 12021 | ###  |
| 15° | 9012  | 2539 |
| 25° | 7135  | 3221 |
| 35° | 3565  | 2207 |
| 45° | 542   | 503  |
| 55° | 9     | 25   |
| 65° | 5     | 1    |
| 75° | 0     | 2    |
| 85° | 0     | 2    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |         |
|-------|---------|
| 0°    | 12447.2 |
| 1°    | 12512.1 |
| 2°    | 12488.9 |
| 3°    | 12396.2 |
| 4°    | 12238.5 |
| 5°    | 12020.7 |
| 6°    | 11756.5 |
| 7°    | 11450.5 |
| 8°    | 11112.1 |
| 9°    | 10750.4 |
| 10°   | 10407.4 |
| 11°   | 10092.2 |
| 12°   | 9753.8  |
| 13°   | 9508.1  |
| 14°   | 9248.5  |
| 15°   | 9012.1  |
| 16°   | 8798.8  |
| 17°   | 8590.1  |
| 18°   | 8395.5  |
| 19°   | 8205.4  |
| 20°   | 8033.9  |
| 21°   | 7857.7  |
| 22°   | 7676.9  |
| 23°   | 7519.3  |
| 24°   | 7343.2  |
| 25°   | 7134.6  |
| 26°   | 6902.7  |
| 27°   | 6633.9  |
| 28°   | 6346.5  |
| 29°   | 6026.6  |
| 30°   | 5674.3  |
| 31°   | 5275.6  |
| 32°   | 4863.0  |
| 33°   | 4431.9  |
| 34°   | 3991.4  |
| 35°   | 3564.9  |
| 37.5° | 2517.3  |
| 40°   | 1622.5  |
| 42.5° | 955.0   |
| 45°   | 542.4   |
| 47.5° | 292.1   |
| 50°   | 148.4   |
| 52.5° | 27.8    |
| 55°   | 9.3     |
| 57.5° | 4.6     |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 60°   | 0.0 |
| 62.5° | 0.0 |
| 65°   | 4.6 |
| 67.5° | 0.0 |
| 70°   | 0.0 |
| 72.5° | 4.6 |
| 75°   | 0.0 |
| 77.5° | 0.0 |
| 80°   | 4.6 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 4.6 |
| 90°   | 0.0 |

(END OF REPORT)