

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: P251478

Luminaire Tested: **LD8B60D010 ER8B60950 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B60D010 ER8B60950 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5764.0 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

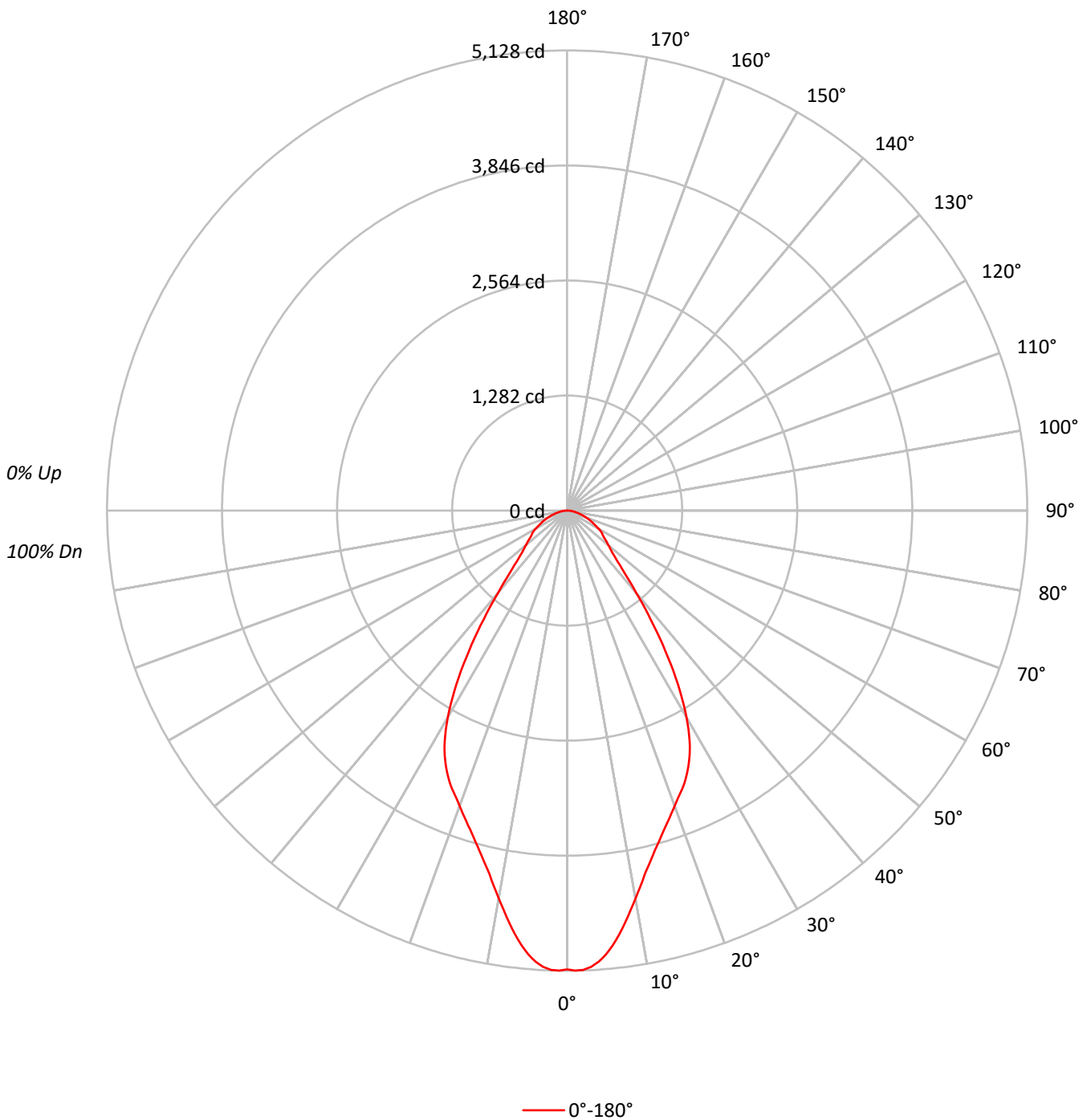
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  |  | 98  | 96  | 94  |  | 94  | 93  | 91  | 89  |
| 2   | 104 | 98  | 93  | 88  | 102 | 96  | 91  | 87  | 93  | 89  | 85  |  | 90  | 86  | 83  |  | 87  | 84  | 82  | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  |  | 82  | 78  | 75  |  | 80  | 76  | 73  | 71  |
| 4   | 91  | 82  | 75  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 66  | 65  |
| 5   | 85  | 75  | 68  | 63  | 83  | 74  | 67  | 62  | 72  | 66  | 62  |  | 70  | 65  | 61  |  | 69  | 64  | 60  | 59  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 55  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  |  | 61  | 55  | 51  |  | 60  | 55  | 51  | 49  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 53  | 48  | 58  | 52  | 48  |  | 57  | 51  | 47  |  | 56  | 51  | 47  | 46  |
| 9   | 67  | 56  | 49  | 44  | 66  | 56  | 49  | 44  | 54  | 48  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 44  | 42  |
| 10  | 64  | 53  | 46  | 41  | 63  | 52  | 46  | 41  | 51  | 45  | 41  |  | 50  | 45  | 41  |  | 50  | 45  | 41  | 39  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 157672 |
| 5°  | 153675 |
| 10° | 137381 |
| 15° | 123457 |
| 20° | 114972 |
| 25° | 108312 |
| 30° | 94700  |
| 35° | 71757  |
| 40° | 48192  |
| 45° | 33972  |
| 50° | 28808  |
| 55° | 26268  |
| 60° | 24891  |
| 65° | 22393  |
| 70° | 20142  |
| 75° | 18122  |
| 80° | 15947  |
| 85° | 15355  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 454.4  | 7.9       |
| 10°-20°   | 1090.6 | 18.9      |
| 20°-30°   | 1445.2 | 25.1      |
| 30°-40°   | 1185.1 | 20.6      |
| 40°-50°   | 631.3  | 11.0      |
| 50°-60°   | 444.3  | 7.7       |
| 60°-70°   | 306.4  | 5.3       |
| 70°-80°   | 159.5  | 2.8       |
| 80°-90°   | 47.2   | 0.8       |
| 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°    | 2990.2 | 51.9      |
| 0°-40°    | 4175.3 | 72.4      |
| 0°-60°    | 5250.9 | 91.1      |
| 0°-90°    | 5764.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5764.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5113 |      |
| 5°  | 4965 | 454  |
| 15° | 3867 | 1091 |
| 25° | 3183 | 1445 |
| 35° | 1906 | 1185 |
| 45° | 779  | 631  |
| 55° | 489  | 444  |
| 65° | 307  | 306  |
| 75° | 152  | 160  |
| 85° | 43   | 47   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 5113.2 |
| 1°    | 5127.7 |
| 2°    | 5121.5 |
| 3°    | 5091.1 |
| 4°    | 5039.2 |
| 5°    | 4964.6 |
| 6°    | 4871.3 |
| 7°    | 4759.2 |
| 8°    | 4639.1 |
| 9°    | 4511.1 |
| 10°   | 4387.5 |
| 11°   | 4269.2 |
| 12°   | 4149.1 |
| 13°   | 4048.9 |
| 14°   | 3953.9 |
| 15°   | 3867.2 |
| 16°   | 3785.4 |
| 17°   | 3710.1 |
| 18°   | 3640.3 |
| 19°   | 3570.5 |
| 20°   | 3503.6 |
| 21°   | 3438.4 |
| 22°   | 3381.7 |
| 23°   | 3323.6 |
| 24°   | 3255.3 |
| 25°   | 3183.4 |
| 26°   | 3101.8 |
| 27°   | 3009.9 |
| 28°   | 2906.3 |
| 29°   | 2791.5 |
| 30°   | 2659.6 |
| 31°   | 2521.3 |
| 32°   | 2376.2 |
| 33°   | 2221.3 |
| 34°   | 2065.8 |
| 35°   | 1906.2 |
| 37.5° | 1527.4 |
| 40°   | 1197.2 |
| 42.5° | 945.5  |
| 45°   | 779.0  |
| 47.5° | 669.0  |
| 50°   | 600.5  |
| 52.5° | 540.5  |
| 55°   | 488.6  |
| 57.5° | 456.9  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    |
|-------|-------|
| 60°   | 403.6 |
| 62.5° | 351.9 |
| 65°   | 306.9 |
| 67.5° | 266.9 |
| 70°   | 223.4 |
| 72.5° | 186.5 |
| 75°   | 152.1 |
| 77.5° | 110.0 |
| 80°   | 89.8  |
| 82.5° | 65.0  |
| 85°   | 43.4  |
| 87.5° | 20.2  |
| 90°   | 0.0   |

(END OF REPORT)