

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: P244684

Luminaire Tested: **LD8B40D010 ER8B40840 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-44)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B40D010 ER8B40840 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4252.0 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

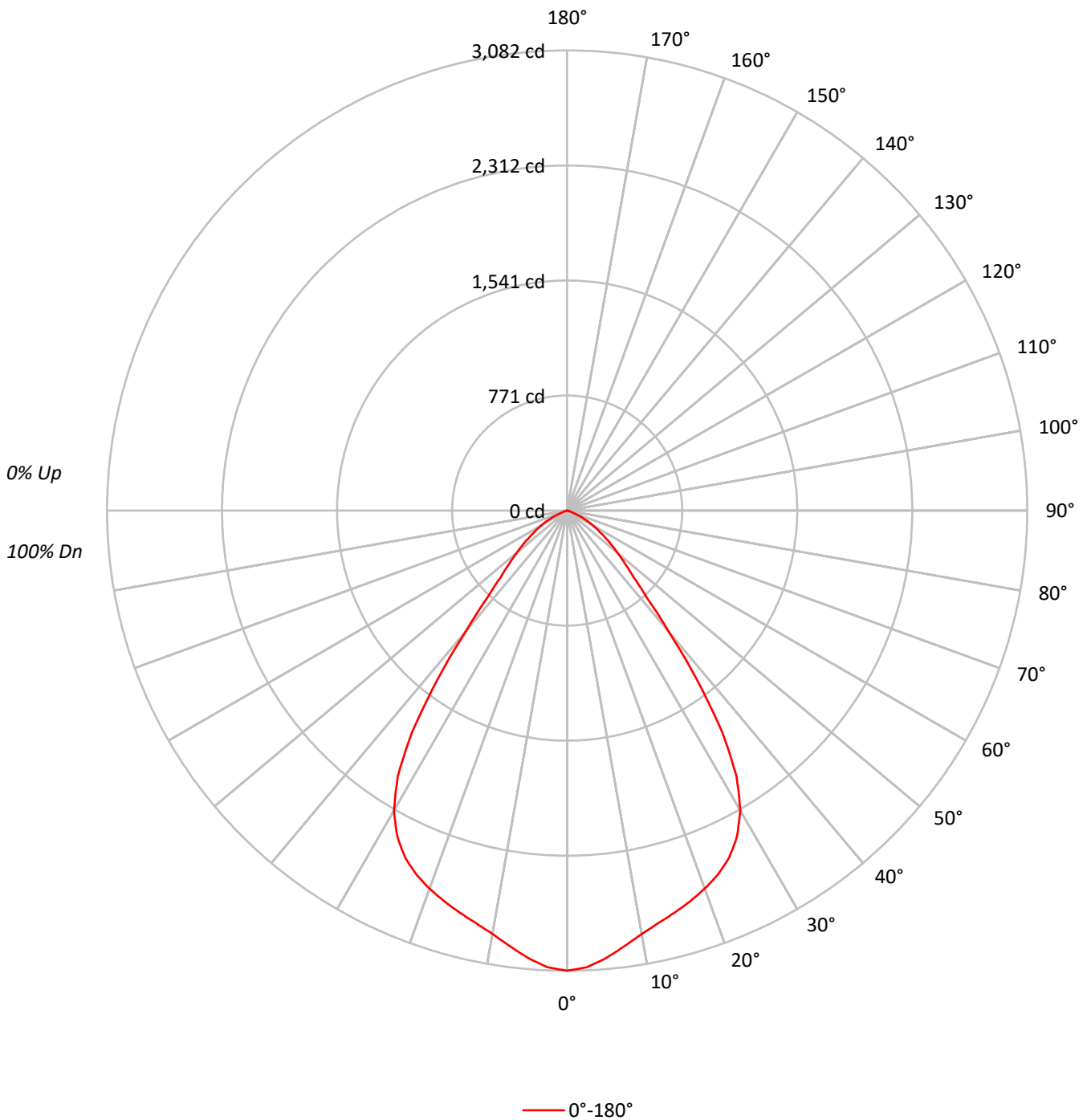
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  |  | 99  | 98  | 96  |  | 96  | 94  | 93  | 91  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  |  | 92  | 89  | 86  |  | 89  | 87  | 84  | 83  |
| 3   | 99  | 91  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  |  | 85  | 81  | 78  |  | 82  | 79  | 76  | 75  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  |  | 78  | 74  | 70  |  | 76  | 73  | 69  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  |  | 73  | 68  | 64  |  | 71  | 67  | 63  | 62  |
| 6   | 82  | 71  | 64  | 59  | 80  | 70  | 64  | 59  | 69  | 63  | 59  |  | 67  | 62  | 58  |  | 66  | 61  | 58  | 56  |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 59  | 54  | 64  | 58  | 54  |  | 63  | 57  | 53  |  | 61  | 57  | 53  | 51  |
| 8   | 72  | 61  | 54  | 50  | 71  | 61  | 54  | 50  | 60  | 54  | 49  |  | 58  | 53  | 49  |  | 57  | 53  | 49  | 47  |
| 9   | 68  | 57  | 50  | 46  | 67  | 57  | 50  | 46  | 56  | 50  | 46  |  | 55  | 49  | 45  |  | 54  | 49  | 45  | 44  |
| 10  | 65  | 54  | 47  | 42  | 63  | 53  | 47  | 42  | 52  | 46  | 42  |  | 51  | 46  | 42  |  | 51  | 46  | 42  | 41  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 95022 |
| 5°  | 93110 |
| 10° | 90160 |
| 15° | 88947 |
| 20° | 88414 |
| 25° | 87299 |
| 30° | 82604 |
| 35° | 68132 |
| 40° | 42540 |
| 45° | 27356 |
| 50° | 21214 |
| 55° | 16333 |
| 60° | 12372 |
| 65° | 8041  |
| 70° | 3435  |
| 75° | 1680  |
| 80° | 746   |
| 85° | 495   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 282.9  | 6.7       |
| 10°-20°   | 787.1  | 18.5      |
| 20°-30°   | 1172.4 | 27.6      |
| 30°-40°   | 1088.8 | 25.6      |
| 40°-50°   | 514.3  | 12.1      |
| 50°-60°   | 276.3  | 6.5       |
| 60°-70°   | 110.9  | 2.6       |
| 70°-80°   | 17.4   | 0.4       |
| 80°-90°   | 1.7    | 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°    | 2242.5 | 52.7      |
| 0°-40°    | 3331.3 | 78.3      |
| 0°-60°    | 4121.9 | 96.9      |
| 0°-90°    | 4252.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4252.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3082 |      |
| 5°  | 3008 | 283  |
| 15° | 2786 | 787  |
| 25° | 2566 | 1172 |
| 35° | 1810 | 1089 |
| 45° | 627  | 514  |
| 55° | 304  | 276  |
| 65° | 110  | 111  |
| 75° | 14   | 17   |
| 85° | 1    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3081.5 |
| 2.5°  | 3060.3 |
| 5°    | 3008.0 |
| 7.5°  | 2941.6 |
| 10°   | 2879.4 |
| 12.5° | 2828.5 |
| 15°   | 2786.2 |
| 17.5° | 2742.4 |
| 20°   | 2694.3 |
| 22.5° | 2639.2 |
| 25°   | 2565.8 |
| 27.5° | 2462.6 |
| 30°   | 2319.9 |
| 32.5° | 2110.8 |
| 35°   | 1809.9 |
| 37.5° | 1425.6 |
| 40°   | 1056.8 |
| 42.5° | 787.0  |
| 45°   | 627.3  |
| 47.5° | 524.2  |
| 50°   | 442.2  |
| 52.5° | 368.8  |
| 55°   | 303.8  |
| 57.5° | 247.3  |
| 60°   | 200.6  |
| 62.5° | 156.8  |
| 65°   | 110.2  |
| 67.5° | 65.0   |
| 70°   | 38.1   |
| 72.5° | 22.6   |
| 75°   | 14.1   |
| 77.5° | 8.5    |
| 80°   | 4.2    |
| 82.5° | 2.8    |
| 85°   | 1.4    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)