

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: P250624

Luminaire Tested: **LD8B80D010 ER8B80827 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80827 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7258.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

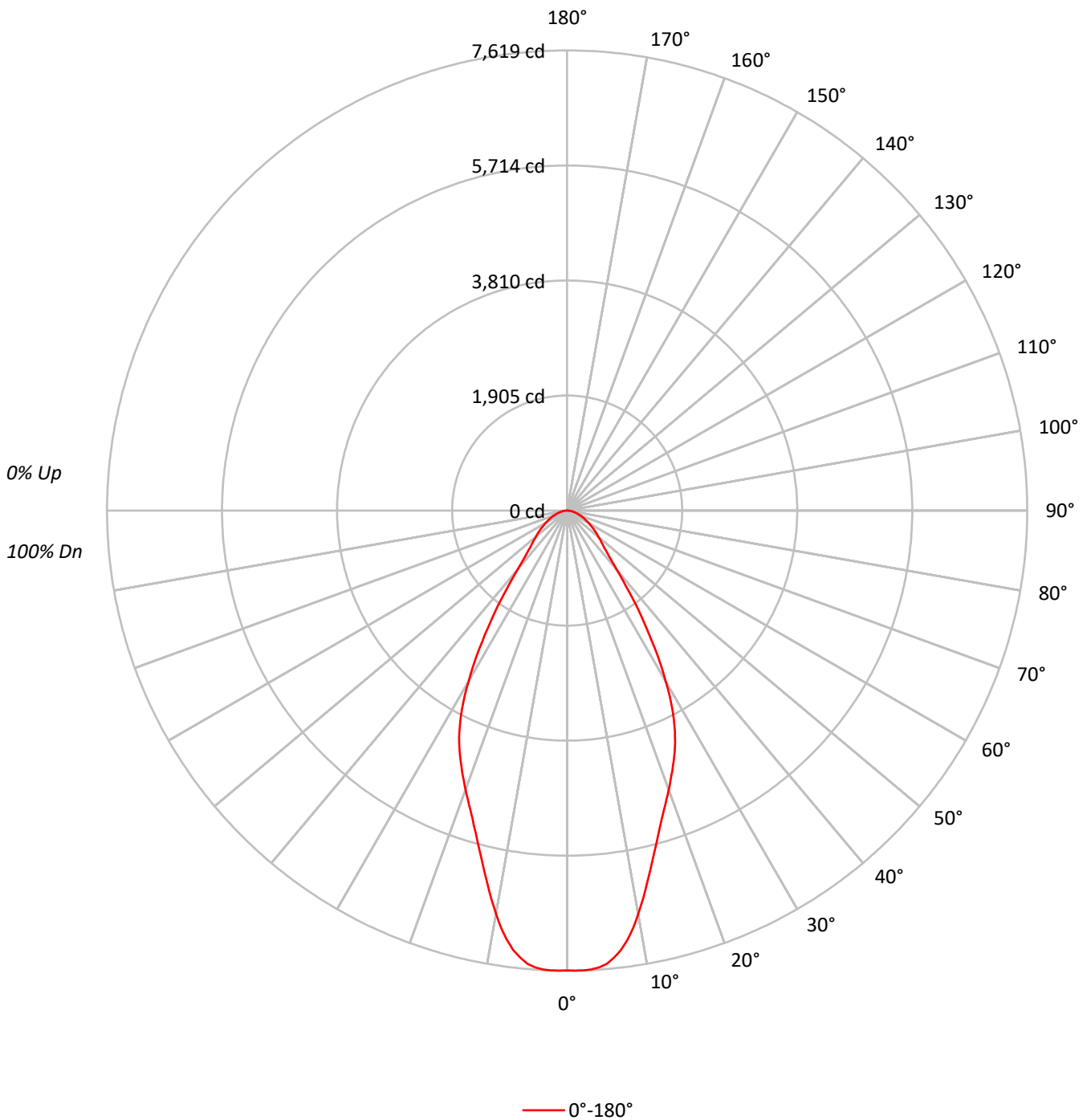
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98  |  | 98  | 97  | 95  |  | 95  | 94  | 92  | 90  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  |  | 91  | 88  | 85  |  | 88  | 86  | 83  | 82  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 87  | 82  | 78  |  | 84  | 80  | 77  |  | 82  | 78  | 76  | 74  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 76  | 72  | 80  | 75  | 71  |  | 78  | 74  | 70  |  | 76  | 72  | 69  | 67  |
| 5   | 87  | 78  | 71  | 66  | 85  | 77  | 70  | 65  | 75  | 69  | 65  |  | 73  | 68  | 64  |  | 71  | 67  | 64  | 62  |
| 6   | 82  | 72  | 65  | 60  | 81  | 71  | 65  | 60  | 70  | 64  | 60  |  | 68  | 63  | 59  |  | 67  | 62  | 59  | 57  |
| 7   | 78  | 67  | 60  | 56  | 76  | 67  | 60  | 55  | 65  | 59  | 55  |  | 64  | 59  | 55  |  | 63  | 58  | 54  | 53  |
| 8   | 74  | 63  | 56  | 52  | 72  | 62  | 56  | 51  | 61  | 55  | 51  |  | 60  | 55  | 51  |  | 59  | 54  | 51  | 49  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 52  | 48  | 58  | 52  | 48  |  | 57  | 51  | 48  |  | 56  | 51  | 47  | 46  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 49  | 45  |  | 54  | 48  | 45  |  | 53  | 48  | 45  | 43  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 234806 |
| 5°  | 233122 |
| 10° | 212396 |
| 15° | 182095 |
| 20° | 161340 |
| 25° | 143959 |
| 30° | 116267 |
| 35° | 80728  |
| 40° | 51183  |
| 45° | 37975  |
| 50° | 32444  |
| 55° | 28515  |
| 60° | 25421  |
| 65° | 22809  |
| 70° | 19628  |
| 75° | 17943  |
| 80° | 16852  |
| 85° | 14754  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 695.1  | 9.6       |
| 10°-20°   | 1603.9 | 22.1      |
| 20°-30°   | 1911.6 | 26.3      |
| 30°-40°   | 1349.3 | 18.6      |
| 40°-50°   | 696.9  | 9.6       |
| 50°-60°   | 478.2  | 6.6       |
| 60°-70°   | 310.9  | 4.3       |
| 70°-80°   | 162.7  | 2.2       |
| 80°-90°   | 49.5   | 0.7       |
| 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°    | 4210.5 | 58.0      |
| 0°-40°    | 5559.9 | 76.6      |
| 0°-60°    | 6735.0 | 92.8      |
| 0°-90°    | 7258.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7258.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 7615 |      |
| 5°  | 7531 | 695  |
| 15° | 5704 | 1604 |
| 25° | 4231 | 1912 |
| 35° | 2144 | 1349 |
| 45° | 871  | 697  |
| 55° | 530  | 478  |
| 65° | 313  | 311  |
| 75° | 151  | 163  |
| 85° | 42   | 49   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 7614.6 |
| 1°    | 7619.3 |
| 2°    | 7619.3 |
| 3°    | 7607.6 |
| 4°    | 7582.2 |
| 5°    | 7531.2 |
| 6°    | 7440.9 |
| 7°    | 7329.7 |
| 8°    | 7176.9 |
| 9°    | 6991.7 |
| 10°   | 6783.2 |
| 11°   | 6563.2 |
| 12°   | 6333.9 |
| 13°   | 6113.9 |
| 14°   | 5900.9 |
| 15°   | 5704.0 |
| 16°   | 5521.1 |
| 17°   | 5352.0 |
| 18°   | 5199.1 |
| 19°   | 5055.5 |
| 20°   | 4916.6 |
| 21°   | 4780.0 |
| 22°   | 4645.7 |
| 23°   | 4511.4 |
| 24°   | 4374.7 |
| 25°   | 4231.1 |
| 26°   | 4068.9 |
| 27°   | 3892.9 |
| 28°   | 3700.8 |
| 29°   | 3497.0 |
| 30°   | 3265.3 |
| 31°   | 3040.8 |
| 32°   | 2811.4 |
| 33°   | 2575.2 |
| 34°   | 2357.5 |
| 35°   | 2144.5 |
| 37.5° | 1651.3 |
| 40°   | 1271.5 |
| 42.5° | 1023.7 |
| 45°   | 870.8  |
| 47.5° | 761.9  |
| 50°   | 676.3  |
| 52.5° | 602.2  |
| 55°   | 530.4  |
| 57.5° | 465.5  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    |
|-------|-------|
| 60°   | 412.2 |
| 62.5° | 359.0 |
| 65°   | 312.6 |
| 67.5° | 270.9 |
| 70°   | 217.7 |
| 72.5° | 187.6 |
| 75°   | 150.6 |
| 77.5° | 122.7 |
| 80°   | 94.9  |
| 82.5° | 69.5  |
| 85°   | 41.7  |
| 87.5° | 23.1  |
| 90°   | 0.0   |

(END OF REPORT)