

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: P247472

Luminaire Tested: **LD8B100D010 ER8B1009727 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B1009727 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8444.0 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

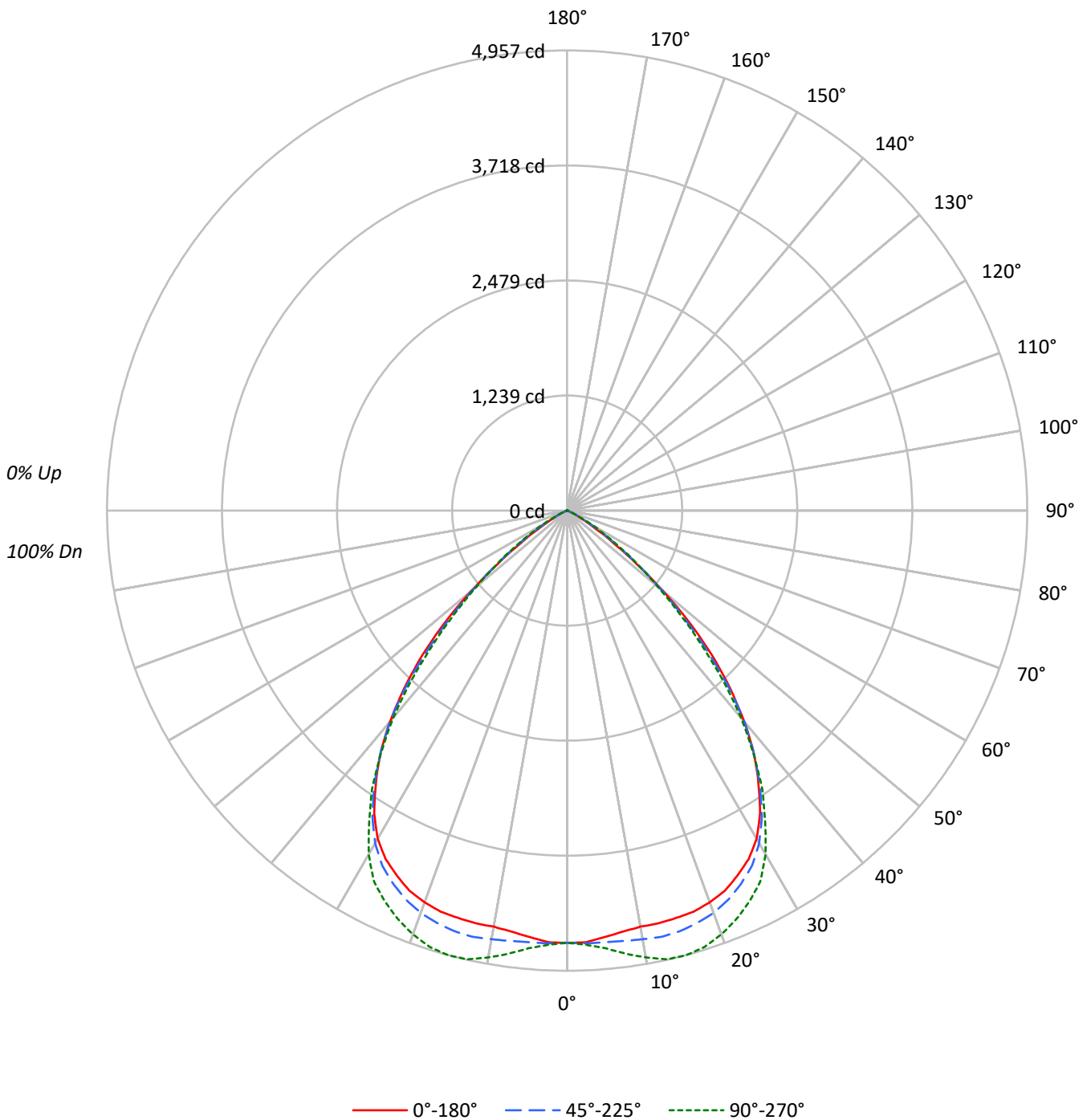
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  | 91  | 88  | 85  | 88  | 86  | 84  | 82  |
| 3   | 98  | 90  | 84  | 80  | 96  | 89  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 68  | 66  |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 54  |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 62  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |

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

|     | 0°   | 45° | 90° |
|-----|--|-----|-----|
| 0°  | Luminaire represents a point source (luminous area is zero). |     |     |
| 5°  | No luminance values can be calculated.                       |     |     |
| 10° |  |     |     |
| 15° |  |     |     |
| 20° |  |     |     |
| 25° |  |     |     |
| 30° |  |     |     |
| 35° |  |     |     |
| 40° |  |     |     |
| 45° |  |     |     |
| 50° |  |     |     |
| 55° |  |     |     |
| 60° |  |     |     |
| 65° |  |     |     |
| 70° |  |     |     |
| 75° |  |     |     |
| 80° |  |     |     |
| 85° |  |     |     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 447.1  | 5.3       |
| 10°-20°   | 1332.3 | 15.8      |
| 20°-30°   | 2050.1 | 24.3      |
| 30°-40°   | 2245.5 | 26.6      |
| 40°-50°   | 1632.7 | 19.3      |
| 50°-60°   | 628.1  | 7.4       |
| 60°-70°   | 98.4   | 1.2       |
| 70°-80°   | 7.1    | 0.1       |
| 80°-90°   | 2.8    | 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°    | 3829.5 | 45.4      |
| 0°-40°    | 6075.0 | 71.9      |
| 0°-60°    | 8335.7 | 98.7      |
| 0°-90°    | 8444.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8444.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4656 | 4656  | 4656 | 4656  | 4656 |      |
| 5°  | 4612 | 4636  | 4667 | 4712  | 4732 | 438  |
| 15° | 4542 | 4578  | 4691 | 4864  | 4957 | 1285 |
| 25° | 4339 | 4365  | 4435 | 4566  | 4645 | 1996 |
| 35° | 3594 | 3594  | 3618 | 3640  | 3663 | 2232 |
| 45° | 2209 | 2186  | 2126 | 2072  | 2044 | 1679 |
| 55° | 611  | 627   | 663  | 685   | 704  | 597  |
| 65° | 69   | 72    | 73   | 83    | 86   | 84   |
| 75° | 5    | 12    | 9    | 12    | 12   | 7    |
| 85° | 2    | 0     | 0    | 0     | 2    | 4    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4655.5 | 4655.5 | 4655.5 | 4655.5 | 4655.5 |
| 2.5°  | 4654.6 | 4661.8 | 4666.3 | 4676.3 | 4680.8 |
| 5°    | 4612.1 | 4635.6 | 4667.3 | 4711.6 | 4732.4 |
| 7.5°  | 4575.0 | 4607.5 | 4675.4 | 4771.3 | 4813.8 |
| 10°   | 4551.4 | 4586.7 | 4688.1 | 4818.4 | 4887.1 |
| 12.5° | 4554.1 | 4593.1 | 4702.5 | 4859.1 | 4951.4 |
| 15°   | 4542.4 | 4577.7 | 4690.8 | 4864.5 | 4956.8 |
| 17.5° | 4528.8 | 4557.8 | 4658.2 | 4828.3 | 4927.9 |
| 20°   | 4490.8 | 4515.2 | 4611.2 | 4765.0 | 4857.3 |
| 22.5° | 4433.8 | 4456.4 | 4536.1 | 4679.0 | 4764.1 |
| 25°   | 4338.8 | 4365.0 | 4434.7 | 4565.9 | 4644.6 |
| 27.5° | 4232.9 | 4248.3 | 4312.6 | 4432.0 | 4507.1 |
| 30°   | 4082.7 | 4088.1 | 4136.1 | 4228.4 | 4273.6 |
| 32.5° | 3868.3 | 3867.4 | 3903.6 | 3949.7 | 3966.9 |
| 35°   | 3594.1 | 3594.1 | 3617.6 | 3640.2 | 3662.9 |
| 37.5° | 3309.1 | 3305.4 | 3308.2 | 3313.6 | 3294.6 |
| 40°   | 2970.6 | 2963.4 | 2967.0 | 2934.5 | 2913.6 |
| 42.5° | 2599.7 | 2606.0 | 2569.8 | 2511.9 | 2490.2 |
| 45°   | 2208.8 | 2186.1 | 2126.4 | 2072.1 | 2044.1 |
| 47.5° | 1793.4 | 1758.1 | 1701.1 | 1645.0 | 1640.5 |
| 50°   | 1348.2 | 1350.0 | 1312.9 | 1281.3 | 1268.6 |
| 52.5° | 935.6  | 945.6  | 964.6  | 968.2  | 972.7  |
| 55°   | 610.8  | 627.1  | 663.3  | 685.0  | 704.0  |
| 57.5° | 373.7  | 403.6  | 434.3  | 475.1  | 478.7  |
| 60°   | 218.1  | 232.5  | 266.9  | 297.7  | 311.3  |
| 62.5° | 123.1  | 136.6  | 143.9  | 162.0  | 166.5  |
| 65°   | 68.8   | 71.5   | 73.3   | 83.2   | 86.0   |
| 67.5° | 41.6   | 43.4   | 45.2   | 44.3   | 46.1   |
| 70°   | 3.6    | 8.1    | 3.6    | 4.5    | 2.7    |
| 72.5° | 15.4   | 10.0   | 10.9   | 8.1    | 5.4    |
| 75°   | 5.4    | 11.8   | 9.0    | 11.8   | 11.8   |
| 77.5° | 3.6    | 2.7    | 4.5    | 5.4    | 4.5    |
| 80°   | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 8.1    | 7.2    | 4.5    | 7.2    | 2.7    |
| 85°   | 1.8    | 0.0    | 0.0    | 0.0    | 1.8    |
| 87.5° | 5.4    | 2.7    | 2.7    | 6.3    | 1.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)