

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: P248124

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B1759730 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13880.0 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

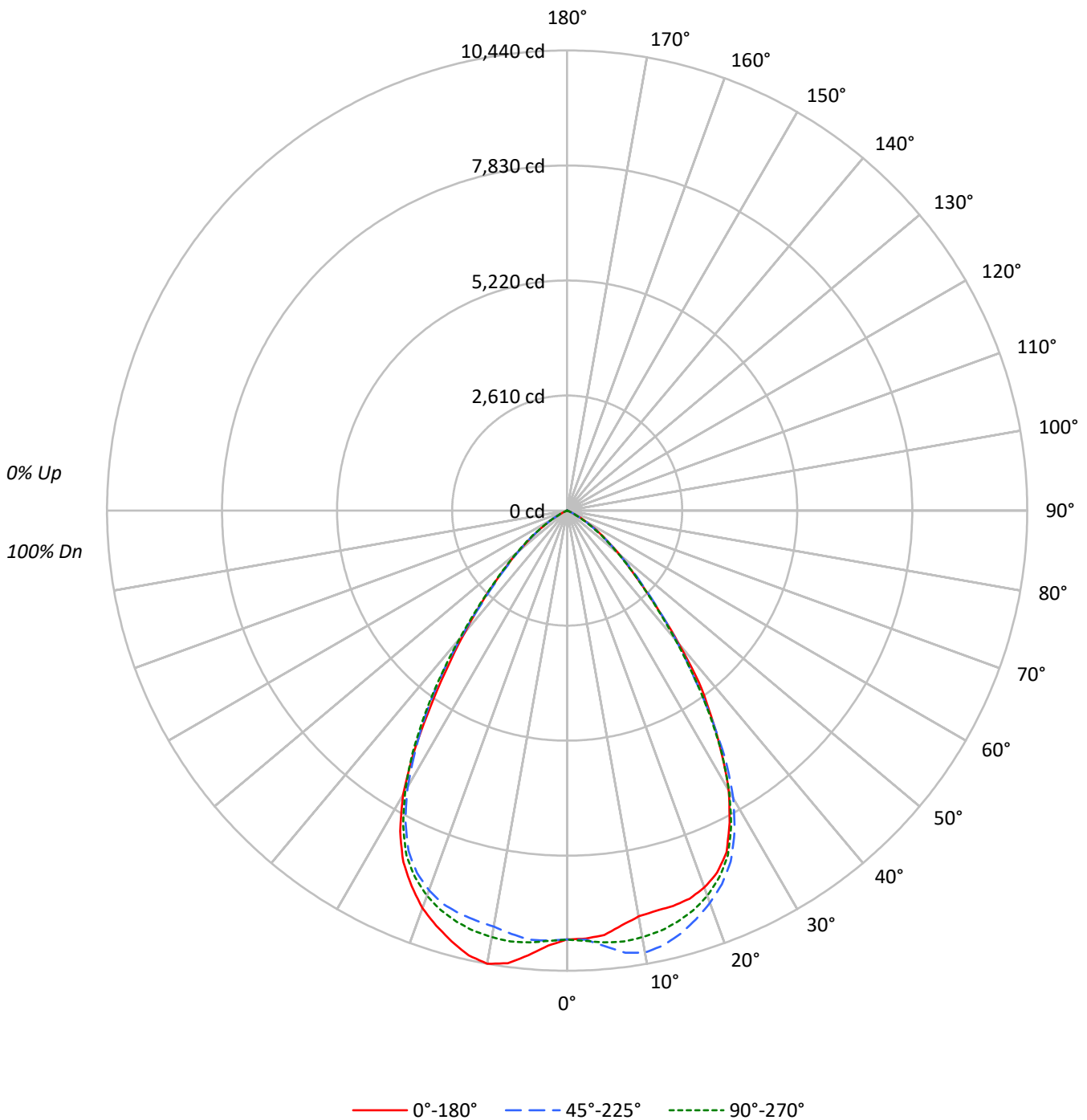
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  |
| 2   | 106 | 101 | 96  | 92  | 104 | 99  | 95  | 91  | 96  | 92  | 89  | 93  | 90  | 87  | 90  | 87  | 85  | 84  |
| 3   | 100 | 92  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 84  | 80  | 86  | 82  | 79  | 83  | 80  | 78  | 76  |
| 4   | 94  | 85  | 79  | 74  | 92  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 72  | 78  | 74  | 71  | 69  |
| 5   | 88  | 78  | 72  | 67  | 86  | 77  | 71  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 65  | 63  |
| 6   | 83  | 72  | 66  | 61  | 81  | 72  | 65  | 61  | 70  | 64  | 60  | 69  | 64  | 60  | 67  | 63  | 59  | 58  |
| 7   | 78  | 67  | 60  | 56  | 76  | 67  | 60  | 55  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 53  |
| 8   | 73  | 63  | 56  | 51  | 72  | 62  | 55  | 51  | 61  | 55  | 51  | 60  | 54  | 50  | 59  | 54  | 50  | 49  |
| 9   | 69  | 58  | 52  | 47  | 68  | 58  | 51  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 45  |
| 10  | 65  | 55  | 48  | 44  | 64  | 54  | 48  | 44  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 47  | 43  | 42  |

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

|     |  |     |      |
|-----|--|-----|------|
|     | 0°   | 90° | 180° |
| 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°    | 941.3   | 6.8       |
| 10°-20°   | 2729.7  | 19.7      |
| 20°-30°   | 3920.0  | 28.2      |
| 30°-40°   | 3465.0  | 25.0      |
| 40°-50°   | 1896.7  | 13.7      |
| 50°-60°   | 780.8   | 5.6       |
| 60°-70°   | 139.9   | 1.0       |
| 70°-80°   | 6.1     | 0.0       |
| 80°-90°   | 0.5     | 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°    | 7590.9  | 54.7      |
| 0°-40°    | 11056.0 | 79.7      |
| 0°-60°    | 13733.5 | 98.9      |
| 0°-90°    | 13880.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 13880.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180°  | Flux |
|-----|------|------|------|------|-------|------|
| 0°  | 9730 | 9730 | 9730 | 9730 | 9730  |      |
| 5°  | 9665 | 9924 | 9834 | 9774 | 10127 | 911  |
| 15° | 9285 | 9941 | 9662 | 9462 | 10120 | 2622 |
| 25° | 8552 | 8783 | 8632 | 8518 | 8797  | 3868 |
| 35° | 5696 | 5645 | 5612 | 5536 | 5369  | 3534 |
| 45° | 2409 | 2480 | 2391 | 2289 | 2355  | 1939 |
| 55° | 924  | 881  | 841  | 813  | 795   | 837  |
| 65° | 148  | 116  | 106  | 86   | 88    | 172  |
| 75° | 8    | 3    | 4    | 5    | 5     | 11   |
| 85° | 2    | 2    | 0    | 5    | 0     | 0    |
| 90° | 0    | 0    | 0    | 0    | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°     | 67.5°   | 90°    | 112.5° | 135°   | 157.5°  | 180°    |
|-------|--------|--------|---------|---------|--------|--------|--------|---------|---------|
| 0°    | 9730.5 | 9730.5 | 9730.5  | 9730.5  | 9730.5 | 9730.5 | 9730.5 | 9730.5  | 9730.5  |
| 2.5°  | 9718.0 | 9735.5 | 9743.8  | 9787.9  | 9772.9 | 9752.1 | 9763.8 | 9799.5  | 9876.9  |
| 5°    | 9664.8 | 9758.0 | 9924.3  | 9980.8  | 9833.6 | 9705.6 | 9773.8 | 9969.2  | 10127.2 |
| 7.5°  | 9489.3 | 9723.9 | 10117.2 | 10202.9 | 9861.9 | 9567.5 | 9686.4 | 10108.1 | 10357.6 |
| 10°   | 9348.8 | 9639.9 | 10180.4 | 10307.7 | 9827.8 | 9446.9 | 9585.8 | 10101.4 | 10439.9 |
| 12.5° | 9301.4 | 9570.0 | 10100.6 | 10244.5 | 9770.4 | 9404.5 | 9526.8 | 10004.1 | 10335.1 |
| 15°   | 9284.7 | 9500.1 | 9940.9  | 10056.5 | 9661.5 | 9362.9 | 9461.9 | 9845.3  | 10119.7 |
| 17.5° | 9233.2 | 9393.7 | 9722.2  | 9816.2  | 9511.8 | 9280.6 | 9357.1 | 9654.8  | 9875.2  |
| 20°   | 9100.1 | 9236.5 | 9472.7  | 9538.4  | 9298.0 | 9116.7 | 9165.8 | 9389.5  | 9599.1  |
| 22.5° | 8892.2 | 8980.4 | 9171.6  | 9203.2  | 9012.8 | 8868.1 | 8898.8 | 9066.0  | 9219.0  |
| 25°   | 8552.0 | 8613.6 | 8783.2  | 8791.6  | 8631.9 | 8505.5 | 8517.9 | 8657.7  | 8797.4  |
| 27.5° | 7979.9 | 8096.3 | 8221.0  | 8256.8  | 8056.4 | 7908.3 | 7946.6 | 8039.7  | 8203.6  |
| 30°   | 7330.3 | 7416.0 | 7538.2  | 7510.8  | 7349.5 | 7216.4 | 7232.2 | 7315.4  | 7437.6  |
| 32.5° | 6520.3 | 6610.9 | 6673.3  | 6616.8  | 6535.2 | 6416.3 | 6380.6 | 6416.3  | 6449.6  |
| 35°   | 5696.1 | 5726.9 | 5645.4  | 5612.9  | 5612.1 | 5575.5 | 5535.6 | 5427.5  | 5369.2  |
| 37.5° | 4909.3 | 4812.9 | 4666.5  | 4604.1  | 4675.6 | 4764.6 | 4644.9 | 4503.5  | 4430.3  |
| 40°   | 3935.5 | 3937.9 | 3846.5  | 3781.6  | 3808.2 | 3778.3 | 3725.9 | 3635.2  | 3613.6  |
| 42.5° | 3076.3 | 3085.5 | 3114.6  | 3078.0  | 3014.0 | 2916.7 | 2887.6 | 2891.7  | 2955.7  |
| 45°   | 2409.3 | 2427.6 | 2480.0  | 2475.0  | 2391.0 | 2329.5 | 2288.8 | 2346.1  | 2355.3  |
| 47.5° | 1916.2 | 1941.9 | 1963.6  | 1961.9  | 1897.0 | 1835.5 | 1817.2 | 1828.0  | 1850.5  |
| 50°   | 1549.4 | 1546.9 | 1530.3  | 1508.6  | 1482.0 | 1469.6 | 1448.8 | 1447.1  | 1447.1  |
| 52.5° | 1193.4 | 1197.6 | 1164.3  | 1166.0  | 1153.5 | 1118.6 | 1109.4 | 1091.1  | 1091.1  |
| 55°   | 924.0  | 907.3  | 880.7   | 855.0   | 840.8  | 816.7  | 813.4  | 794.2   | 795.1   |
| 57.5° | 656.2  | 641.2  | 609.6   | 593.8   | 583.0  | 576.3  | 562.2  | 547.2   | 540.6   |
| 60°   | 453.3  | 440.8  | 423.3   | 407.5   | 393.4  | 390.1  | 376.7  | 361.8   | 358.4   |
| 62.5° | 273.6  | 270.3  | 239.5   | 233.7   | 222.9  | 217.9  | 208.7  | 198.8   | 199.6   |
| 65°   | 148.0  | 126.4  | 115.6   | 108.9   | 106.5  | 93.1   | 85.7   | 84.0    | 88.2    |
| 67.5° | 39.9   | 39.9   | 32.4    | 30.8    | 30.8   | 22.5   | 25.8   | 25.0    | 32.4    |
| 70°   | 34.9   | 25.0   | 21.6    | 17.5    | 20.0   | 11.6   | 21.6   | 17.5    | 16.6    |
| 72.5° | 18.3   | 10.0   | 8.3     | 8.3     | 9.1    | 5.8    | 13.3   | 7.5     | 5.8     |
| 75°   | 7.5    | 5.0    | 3.3     | 1.7     | 4.2    | 4.2    | 5.0    | 1.7     | 5.0     |
| 77.5° | 0.0    | 0.0    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 80°   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 82.5° | 0.0    | 0.0    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 85°   | 1.7    | 2.5    | 1.7     | 0.0     | 0.0    | 0.0    | 5.0    | 0.0     | 0.0     |
| 87.5° | 0.0    | 1.7    | 0.8     | 0.0     | 0.0    | 0.0    | 1.7    | 0.0     | 0.0     |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

(END OF REPORT)