

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: P247934

Luminaire Tested: **LD8B150D010 ER8B150940 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B150D010 ER8B150940 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14490.0 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

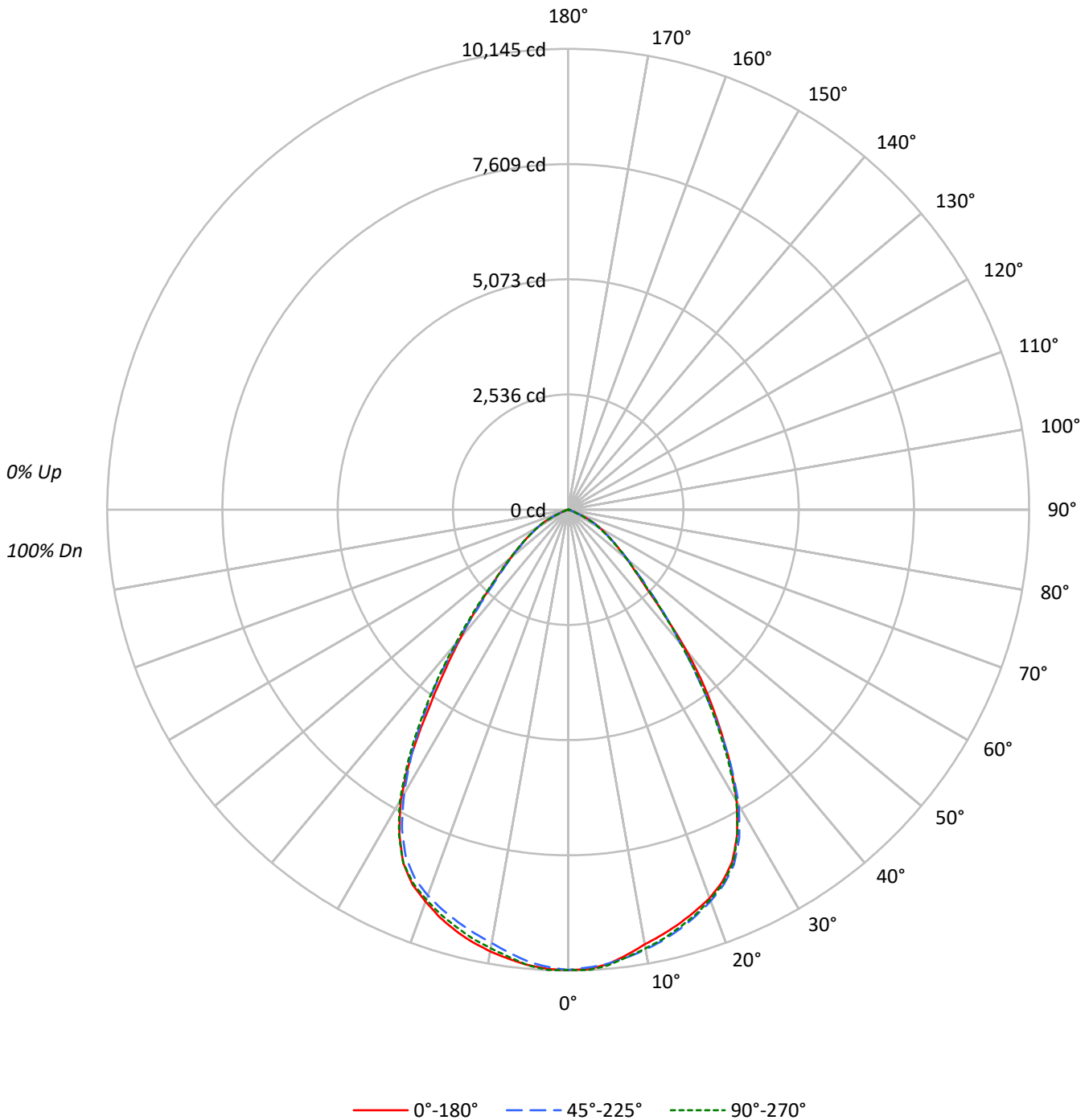
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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 |    |    |    |    | 100 |   |  |   |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |    |    | 91  |   |  |   |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |    |    | 82  |   |  |   |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |    |    | 74  |   |  |   |
| 4   | 92  | 83  | 77  | 72  | 90  | 82  | 76  | 71  | 80  | 75  | 70  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |    |    | 67  |   |  |   |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 64  | 74  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |    |    |    | 61  |   |  |   |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  |    |    |    |    | 55  |   |  |   |
| 7   | 76  | 65  | 58  | 53  | 75  | 65  | 58  | 53  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 52  | 51  |    |    |    |    | 51  |   |  |   |
| 8   | 72  | 61  | 54  | 49  | 71  | 60  | 54  | 49  | 59  | 53  | 49  | 58  | 52  | 48  | 57  | 52  | 48  | 47  |    |    |    |    | 47  |   |  |   |
| 9   | 68  | 57  | 50  | 45  | 67  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 53  | 48  | 45  | 43  |    |    |    |    | 43  |   |  |   |
| 10  | 64  | 53  | 46  | 42  | 63  | 52  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 41  | 50  | 45  | 41  | 40  |    |    |    |    | 40  |   |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 312452 | 312452 | 312452 |
| 5°  | 310835 | 311717 | 311550 |
| 10° | 304193 | 307008 | 309156 |
| 15° | 301210 | 303627 | 306159 |
| 20° | 298629 | 299709 | 301202 |
| 25° | 290780 | 291900 | 292145 |
| 30° | 263931 | 263678 | 261902 |
| 35° | 217305 | 212445 | 201814 |
| 40° | 162493 | 155179 | 148151 |
| 45° | 105224 | 107981 | 105534 |
| 50° | 80546  | 80119  | 79774  |
| 55° | 63111  | 61965  | 61439  |
| 60° | 50208  | 47463  | 48123  |
| 65° | 32951  | 29113  | 29441  |
| 70° | 11802  | 10837  | 11243  |
| 75° | 4241   | 5195   | 4241   |
| 80° | 2681   | 3800   | 3161   |
| 85° | 637    | 1875   | 1274   |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 949.1   | 6.5       |
| 10°-20°   | 2675.7  | 18.5      |
| 20°-30°   | 3879.2  | 26.8      |
| 30°-40°   | 3486.9  | 24.1      |
| 40°-50°   | 1964.9  | 13.6      |
| 50°-60°   | 1046.9  | 7.2       |
| 60°-70°   | 418.4   | 2.9       |
| 70°-80°   | 55.7    | 0.4       |
| 80°-90°   | 13.1    | 0.1       |
| 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°    | 7504.0  | 51.8      |
| 0°-40°    | 10990.9 | 75.9      |
| 0°-60°    | 14002.7 | 96.6      |
| 0°-90°    | 14490.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 14490.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°   | 90°   | 135°  | 180°  | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 10133 | 10133 | 10133 | 10133 | 10133 |      |
| 5°  | 10042 | 10033 | 10070 | 9991  | 10065 | 947  |
| 15° | 9435  | 9545  | 9511  | 9393  | 9590  | 2662 |
| 25° | 8546  | 8626  | 8579  | 8446  | 8586  | 3879 |
| 35° | 5773  | 5690  | 5644  | 5565  | 5361  | 3582 |
| 45° | 2413  | 2544  | 2476  | 2360  | 2420  | 1982 |
| 55° | 1174  | 1178  | 1153  | 1126  | 1143  | 1070 |
| 65° | 452   | 430   | 399   | 388   | 404   | 447  |
| 75° | 36    | 45    | 44    | 43    | 36    | 53   |
| 85° | 2     | 11    | 5     | 15    | 4     | 5    |
| 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°    | 10132.6 | 10132.6 | 10132.6 | 10132.6 | 10132.6 | 10132.6 | 10132.6 | 10132.6 | 10132.6 |
| 2.5°  | 10125.5 | 10104.1 | 10088.1 | 10118.4 | 10145.1 | 10072.0 | 10077.4 | 10109.5 | 10120.1 |
| 5°    | 10041.8 | 10022.2 | 10032.9 | 10057.8 | 10070.3 | 9978.5  | 9991.0  | 10045.3 | 10064.9 |
| 7.5°  | 9885.0  | 9900.1  | 9938.4  | 9970.5  | 9933.1  | 9825.3  | 9843.1  | 9936.7  | 9975.0  |
| 10°   | 9714.9  | 9750.5  | 9830.7  | 9868.1  | 9804.8  | 9666.8  | 9687.3  | 9812.9  | 9873.4  |
| 12.5° | 9579.5  | 9618.7  | 9702.4  | 9730.9  | 9674.8  | 9526.0  | 9547.4  | 9677.5  | 9749.6  |
| 15°   | 9435.2  | 9470.8  | 9544.7  | 9567.9  | 9510.9  | 9373.7  | 9393.3  | 9518.0  | 9590.2  |
| 17.5° | 9272.2  | 9303.4  | 9369.3  | 9390.7  | 9340.8  | 9195.6  | 9226.8  | 9342.6  | 9405.8  |
| 20°   | 9100.3  | 9122.6  | 9168.9  | 9181.3  | 9133.2  | 9023.7  | 9037.9  | 9137.7  | 9178.7  |
| 22.5° | 8866.0  | 8894.5  | 8937.3  | 8950.7  | 8906.1  | 8785.9  | 8799.2  | 8897.2  | 8941.7  |
| 25°   | 8546.3  | 8588.1  | 8626.4  | 8643.4  | 8579.2  | 8419.8  | 8446.5  | 8530.2  | 8586.4  |
| 27.5° | 8050.2  | 8084.0  | 8151.7  | 8153.5  | 8065.3  | 7899.6  | 7921.9  | 8029.7  | 8043.9  |
| 30°   | 7412.4  | 7443.6  | 7503.3  | 7489.9  | 7405.3  | 7208.4  | 7226.3  | 7331.4  | 7355.4  |
| 32.5° | 6631.3  | 6642.8  | 6658.9  | 6654.4  | 6551.1  | 6458.5  | 6422.0  | 6434.4  | 6443.3  |
| 35°   | 5772.6  | 5793.1  | 5689.8  | 5633.7  | 5643.5  | 5651.5  | 5565.1  | 5436.8  | 5361.1  |
| 37.5° | 4940.7  | 4842.7  | 4715.4  | 4671.7  | 4752.8  | 4779.5  | 4701.1  | 4509.6  | 4439.3  |
| 40°   | 4036.7  | 3949.4  | 3848.7  | 3856.7  | 3855.0  | 3873.7  | 3774.8  | 3704.4  | 3680.4  |
| 42.5° | 3106.8  | 3107.7  | 3173.6  | 3128.1  | 3119.2  | 2989.2  | 2950.9  | 2990.1  | 3032.8  |
| 45°   | 2412.9  | 2493.1  | 2543.8  | 2530.5  | 2476.1  | 2359.5  | 2359.5  | 2428.1  | 2420.0  |
| 47.5° | 1986.3  | 2014.8  | 2053.1  | 2050.4  | 2011.2  | 1925.7  | 1939.9  | 1987.2  | 2011.2  |
| 50°   | 1679.0  | 1691.4  | 1709.3  | 1694.1  | 1670.1  | 1616.6  | 1615.7  | 1648.7  | 1662.9  |
| 52.5° | 1404.6  | 1411.8  | 1407.3  | 1399.3  | 1385.9  | 1357.4  | 1348.5  | 1376.1  | 1379.7  |
| 55°   | 1173.9  | 1187.3  | 1177.5  | 1155.2  | 1152.6  | 1126.7  | 1125.8  | 1148.1  | 1142.8  |
| 57.5° | 978.0   | 964.6   | 951.3   | 932.6   | 929.9   | 921.9   | 930.8   | 934.3   | 929.0   |
| 60°   | 814.1   | 815.0   | 789.2   | 771.3   | 769.6   | 758.0   | 770.5   | 780.3   | 780.3   |
| 62.5° | 655.6   | 652.0   | 636.0   | 609.2   | 613.7   | 609.2   | 614.6   | 616.4   | 608.3   |
| 65°   | 451.6   | 452.5   | 430.2   | 398.1   | 399.0   | 395.5   | 387.5   | 399.9   | 403.5   |
| 67.5° | 240.5   | 238.7   | 221.8   | 210.2   | 205.8   | 207.5   | 216.4   | 219.1   | 209.3   |
| 70°   | 130.9   | 126.5   | 130.0   | 117.6   | 120.2   | 115.8   | 120.2   | 127.4   | 124.7   |
| 72.5° | 66.8    | 71.3    | 64.1    | 58.8    | 65.9    | 65.0    | 75.7    | 69.5    | 62.3    |
| 75°   | 35.6    | 38.3    | 45.4    | 41.9    | 43.6    | 41.9    | 42.8    | 40.1    | 35.6    |
| 77.5° | 25.8    | 28.5    | 33.0    | 32.1    | 31.2    | 29.4    | 33.0    | 36.5    | 29.4    |
| 80°   | 15.1    | 18.7    | 20.5    | 24.0    | 21.4    | 24.0    | 27.6    | 22.3    | 17.8    |
| 82.5° | 9.8     | 15.1    | 15.1    | 16.0    | 23.2    | 15.1    | 24.9    | 22.3    | 17.8    |
| 85°   | 1.8     | 2.7     | 10.7    | 6.2     | 5.3     | 16.0    | 15.1    | 11.6    | 3.6     |
| 87.5° | 0.0     | 6.2     | 14.3    | 7.1     | 11.6    | 10.7    | 15.1    | 16.0    | 3.6     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)