

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: P247146

Luminaire Tested: **LD8B80D010 ER8B80830 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80830 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8110.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

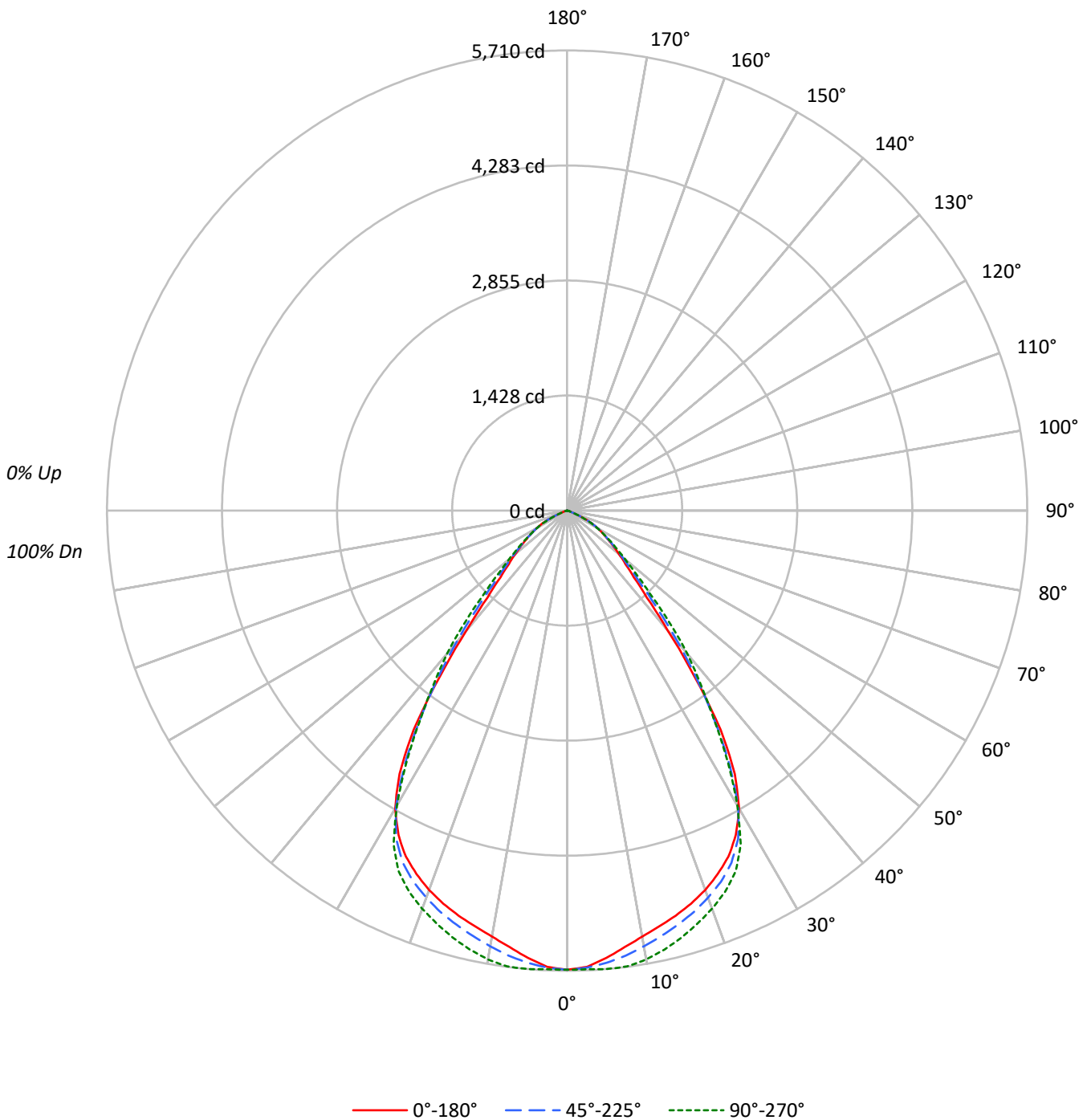
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |    |    | 82  |   |  |   |
| 3   | 99  | 91  | 85  | 81  | 97  | 90  | 84  | 80  | 87  | 82  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |    |    | 74  |   |  |   |
| 4   | 93  | 84  | 77  | 72  | 91  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 72  | 69  | 67  |    |    |    |    | 67  |   |  |   |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 61  |    |    |    |    | 61  |   |  |   |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 57  | 56  |    |    |    |    | 56  |   |  |   |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 58  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 51  |    |    |    |    | 51  |   |  |   |
| 8   | 72  | 61  | 54  | 49  | 71  | 60  | 54  | 49  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 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  | 47  | 42  | 63  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 42  | 40  |    |    |    |    | 40  |   |  |   |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 175693 | 175693 | 175693 |
| 5°  | 172467 | 174343 | 176751 |
| 10° | 168045 | 171872 | 177079 |
| 15° | 166143 | 169798 | 175078 |
| 20° | 164408 | 167722 | 172517 |
| 25° | 161172 | 164085 | 168205 |
| 30° | 151959 | 151275 | 150349 |
| 35° | 124998 | 120691 | 120002 |
| 40° | 78270  | 86361  | 93365  |
| 45° | 51079  | 56949  | 63111  |
| 50° | 40273  | 42211  | 44979  |
| 55° | 32827  | 33397  | 34429  |
| 60° | 26865  | 26686  | 26569  |
| 65° | 17402  | 16913  | 16001  |
| 70° | 5987   | 5545   | 5112   |
| 75° | 2061   | 1942   | 1835   |
| 80° | 852    | 675    | 675    |
| 85° | 354    | 354    | 354    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 533.7  | 6.6       |
| 10°-20°   | 1503.8 | 18.5      |
| 20°-30°   | 2199.3 | 27.1      |
| 30°-40°   | 1992.8 | 24.6      |
| 40°-50°   | 1059.6 | 13.1      |
| 50°-60°   | 565.5  | 7.0       |
| 60°-70°   | 230.7  | 2.8       |
| 70°-80°   | 23.3   | 0.3       |
| 80°-90°   | 1.4    | 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°    | 4236.8 | 52.2      |
| 0°-40°    | 6229.6 | 76.8      |
| 0°-60°    | 7854.7 | 96.9      |
| 0°-90°    | 8110.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8110.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5698 | 5698  | 5698 | 5698  | 5698 |      |
| 5°  | 5572 | 5586  | 5632 | 5683  | 5710 | 525  |
| 15° | 5204 | 5234  | 5319 | 5428  | 5484 | 1468 |
| 25° | 4737 | 4757  | 4823 | 4905  | 4944 | 2165 |
| 35° | 3320 | 3274  | 3206 | 3182  | 3188 | 1996 |
| 45° | 1171 | 1206  | 1306 | 1410  | 1447 | 958  |
| 55° | 611  | 610   | 621  | 630   | 640  | 554  |
| 65° | 238  | 238   | 232  | 218   | 219  | 238  |
| 75° | 17   | 17    | 16   | 15    | 15   | 25   |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5697.6 | 5697.6 | 5697.6 | 5697.6 | 5697.6 |
| 2.5°  | 5666.9 | 5665.9 | 5676.5 | 5689.0 | 5695.7 |
| 5°    | 5571.7 | 5586.1 | 5632.3 | 5683.2 | 5710.1 |
| 7.5°  | 5464.0 | 5490.9 | 5570.7 | 5658.2 | 5705.3 |
| 10°   | 5366.8 | 5401.5 | 5489.0 | 5603.4 | 5655.3 |
| 12.5° | 5283.2 | 5316.8 | 5405.3 | 5522.6 | 5579.4 |
| 15°   | 5204.3 | 5234.1 | 5318.8 | 5428.4 | 5484.2 |
| 17.5° | 5113.0 | 5141.8 | 5223.6 | 5327.4 | 5375.5 |
| 20°   | 5010.1 | 5034.1 | 5111.1 | 5208.2 | 5257.2 |
| 22.5° | 4882.2 | 4908.1 | 4986.0 | 5075.5 | 5121.6 |
| 25°   | 4737.0 | 4757.2 | 4822.6 | 4905.3 | 4943.7 |
| 27.5° | 4535.0 | 4553.3 | 4591.8 | 4636.0 | 4664.9 |
| 30°   | 4267.7 | 4262.9 | 4248.5 | 4235.0 | 4222.5 |
| 32.5° | 3873.4 | 3827.3 | 3757.1 | 3712.8 | 3714.8 |
| 35°   | 3320.5 | 3274.3 | 3206.1 | 3182.0 | 3187.8 |
| 37.5° | 2594.5 | 2629.1 | 2657.0 | 2703.1 | 2725.3 |
| 40°   | 1944.4 | 2004.0 | 2145.4 | 2268.5 | 2319.4 |
| 42.5° | 1461.7 | 1520.3 | 1668.4 | 1798.2 | 1868.4 |
| 45°   | 1171.3 | 1205.9 | 1305.9 | 1409.7 | 1447.2 |
| 47.5° | 980.9  | 996.2  | 1053.9 | 1120.3 | 1153.0 |
| 50°   | 839.5  | 849.1  | 879.9  | 916.4  | 937.6  |
| 52.5° | 719.3  | 723.1  | 738.5  | 759.7  | 773.1  |
| 55°   | 610.6  | 609.7  | 621.2  | 629.9  | 640.4  |
| 57.5° | 516.4  | 515.4  | 515.4  | 518.3  | 525.0  |
| 60°   | 435.6  | 432.7  | 432.7  | 428.9  | 430.8  |
| 62.5° | 354.8  | 352.0  | 345.2  | 340.4  | 338.5  |
| 65°   | 238.5  | 237.5  | 231.8  | 218.3  | 219.3  |
| 67.5° | 124.0  | 123.1  | 117.3  | 113.5  | 111.5  |
| 70°   | 66.4   | 64.4   | 61.5   | 58.7   | 56.7   |
| 72.5° | 33.7   | 32.7   | 31.7   | 29.8   | 29.8   |
| 75°   | 17.3   | 17.3   | 16.3   | 15.4   | 15.4   |
| 77.5° | 8.7    | 8.7    | 7.7    | 7.7    | 7.7    |
| 80°   | 4.8    | 4.8    | 3.8    | 3.8    | 3.8    |
| 82.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 85°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)