

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: P247641

Luminaire Tested: **LD8B120D010 ER8B120850 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120850 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11603.0 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

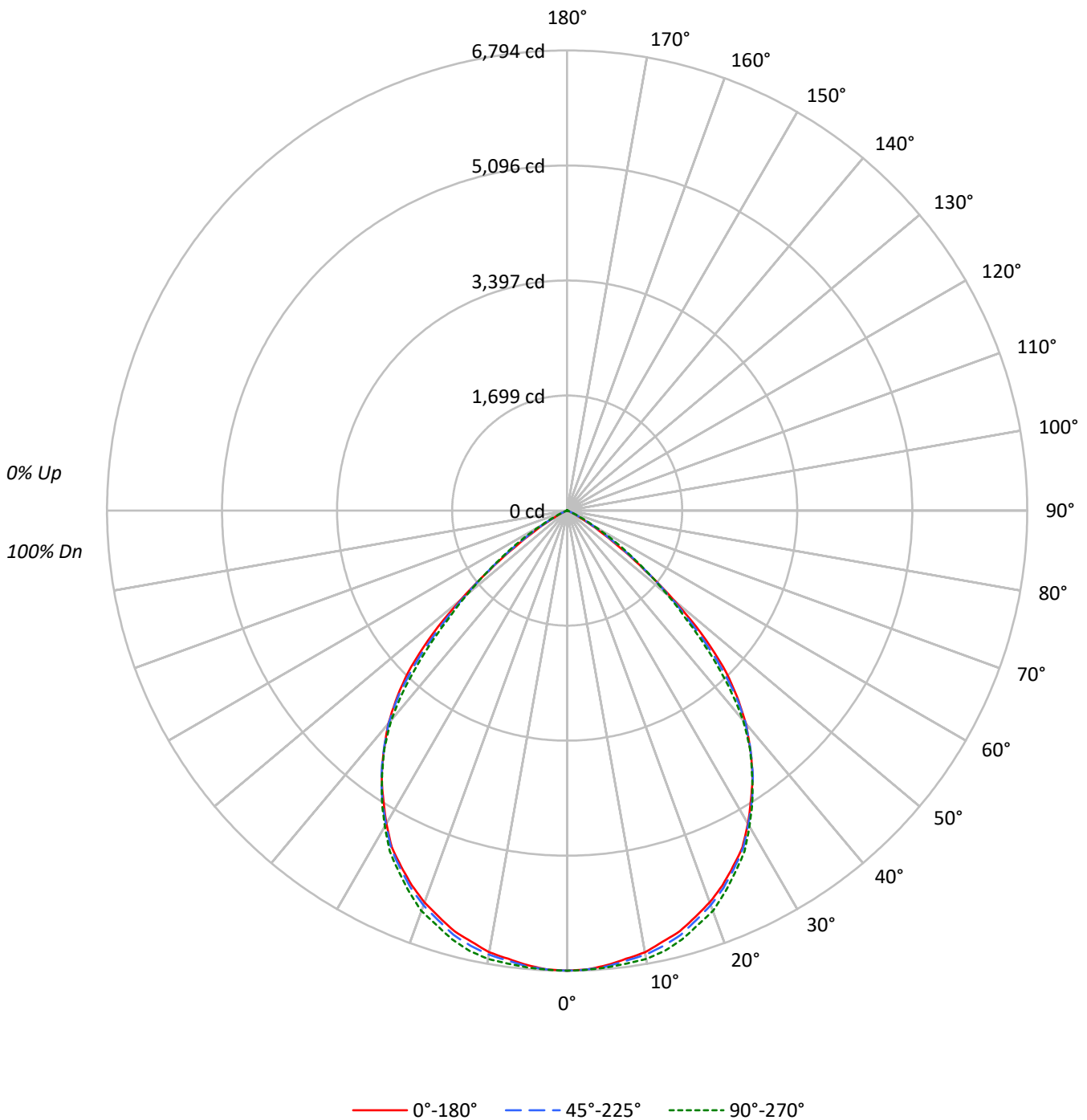
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |  | 95  | 94  | 93  | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  |  | 91  | 88  | 85  |  | 88  | 86  | 83  | 82  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  |  | 83  | 79  | 76  |  | 81  | 78  | 75  | 73  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 75  | 70  | 79  | 73  | 69  |  | 77  | 72  | 68  |  | 75  | 71  | 67  | 65  |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  |  | 70  | 65  | 61  |  | 69  | 64  | 61  | 59  |
| 6   | 80  | 69  | 62  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  |  | 65  | 59  | 55  |  | 63  | 59  | 55  | 53  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  |  | 60  | 54  | 50  |  | 59  | 54  | 50  | 48  |
| 8   | 70  | 58  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  |  | 55  | 50  | 46  |  | 54  | 49  | 45  | 44  |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 52  | 46  | 42  |  | 51  | 46  | 42  |  | 51  | 45  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  |  | 48  | 42  | 38  |  | 47  | 42  | 38  | 37  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 209496 | 209496 | 209496 |
| 5°  | 208541 | 209095 | 209603 |
| 10° | 207354 | 208475 | 210439 |
| 15° | 205262 | 207025 | 209262 |
| 20° | 201982 | 203452 | 206438 |
| 25° | 197289 | 198354 | 200133 |
| 30° | 189994 | 190475 | 191696 |
| 35° | 179691 | 179973 | 179243 |
| 40° | 165118 | 164937 | 162654 |
| 45° | 141987 | 136196 | 129946 |
| 50° | 98714  | 95207  | 92559  |
| 55° | 51503  | 55993  | 59283  |
| 60° | 20889  | 24663  | 28622  |
| 65° | 6640   | 8165   | 8712   |
| 70° | 938    | 541    | 270    |
| 75° | 0      | 0      | 0      |
| 80° | 2380   | 533    | 799    |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 641.6   | 5.5       |
| 10°-20°   | 1825.8  | 15.7      |
| 20°-30°   | 2682.2  | 23.1      |
| 30°-40°   | 2969.5  | 25.6      |
| 40°-50°   | 2366.5  | 20.4      |
| 50°-60°   | 969.7   | 8.4       |
| 60°-70°   | 142.8   | 1.2       |
| 70°-80°   | 2.1     | 0.0       |
| 80°-90°   | 2.9     | 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°    | 5149.5  | 44.4      |
| 0°-40°    | 8119.1  | 70.0      |
| 0°-60°    | 11455.3 | 98.7      |
| 0°-90°    | 11603.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 11603.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6794 | 6794  | 6794 | 6794  | 6794 |      |
| 5°  | 6737 | 6749  | 6755 | 6765  | 6771 | 639  |
| 15° | 6430 | 6434  | 6485 | 6546  | 6555 | 1810 |
| 25° | 5798 | 5792  | 5830 | 5864  | 5882 | 2667 |
| 35° | 4773 | 4767  | 4781 | 4775  | 4762 | 2967 |
| 45° | 3256 | 3226  | 3123 | 3007  | 2980 | 2443 |
| 55° | 958  | 991   | 1042 | 1101  | 1103 | 922  |
| 65° | 91   | 96    | 112  | 122   | 119  | 121  |
| 75° | 0    | 0     | 0    | 0     | 0    | 4    |
| 85° | 0    | 0     | 0    | 6     | 0    | 5    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 6793.8 | 6793.8 | 6793.8 | 6793.8 | 6793.8 |
| 2.5°  | 6781.8 | 6783.3 | 6783.3 | 6775.9 | 6784.8 |
| 5°    | 6737.1 | 6749.0 | 6755.0 | 6765.4 | 6771.4 |
| 7.5°  | 6674.4 | 6671.4 | 6702.7 | 6740.0 | 6744.5 |
| 10°   | 6622.2 | 6616.2 | 6658.0 | 6707.2 | 6720.7 |
| 12.5° | 6519.2 | 6526.7 | 6580.4 | 6631.1 | 6658.0 |
| 15°   | 6429.7 | 6434.2 | 6484.9 | 6546.1 | 6555.0 |
| 17.5° | 6290.9 | 6304.3 | 6338.7 | 6402.8 | 6414.8 |
| 20°   | 6155.1 | 6161.1 | 6199.9 | 6252.1 | 6290.9 |
| 22.5° | 5989.5 | 5999.9 | 6029.8 | 6076.0 | 6095.4 |
| 25°   | 5798.5 | 5792.5 | 5829.8 | 5864.2 | 5882.1 |
| 27.5° | 5604.5 | 5594.1 | 5622.4 | 5655.3 | 5671.7 |
| 30°   | 5335.9 | 5332.9 | 5349.4 | 5370.3 | 5383.7 |
| 32.5° | 5053.9 | 5061.4 | 5077.8 | 5083.8 | 5088.2 |
| 35°   | 4773.4 | 4767.4 | 4780.9 | 4774.9 | 4761.5 |
| 37.5° | 4440.6 | 4445.1 | 4445.1 | 4439.2 | 4433.2 |
| 40°   | 4101.9 | 4106.4 | 4097.4 | 4064.6 | 4040.7 |
| 42.5° | 3705.0 | 3708.0 | 3661.7 | 3588.6 | 3539.4 |
| 45°   | 3255.9 | 3226.0 | 3123.1 | 3006.7 | 2979.8 |
| 47.5° | 2690.3 | 2639.6 | 2532.2 | 2444.1 | 2412.8 |
| 50°   | 2057.7 | 2020.4 | 1984.6 | 1938.3 | 1929.4 |
| 52.5° | 1442.9 | 1462.3 | 1475.7 | 1490.7 | 1486.2 |
| 55°   | 958.0  | 990.8  | 1041.5 | 1101.2 | 1102.7 |
| 57.5° | 576.0  | 613.3  | 677.4  | 743.1  | 774.4  |
| 60°   | 338.7  | 353.6  | 399.9  | 449.1  | 464.1  |
| 62.5° | 183.5  | 188.0  | 208.9  | 258.1  | 250.7  |
| 65°   | 91.0   | 95.5   | 111.9  | 122.4  | 119.4  |
| 67.5° | 44.8   | 49.2   | 52.2   | 67.1   | 55.2   |
| 70°   | 10.4   | 3.0    | 6.0    | 7.5    | 3.0    |
| 72.5° | 0.0    | 0.0    | 3.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 3.0    | 0.0    | 0.0    | 0.0    | 6.0    |
| 80°   | 13.4   | 9.0    | 3.0    | 3.0    | 4.5    |
| 82.5° | 4.5    | 1.5    | 4.5    | 1.5    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 6.0    | 0.0    |
| 87.5° | 7.5    | 1.5    | 1.5    | 4.5    | 7.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)