

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: P247907

Luminaire Tested: **LD8B150D010 ER8B150930 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B150D010 ER8B150930 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14977.7 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

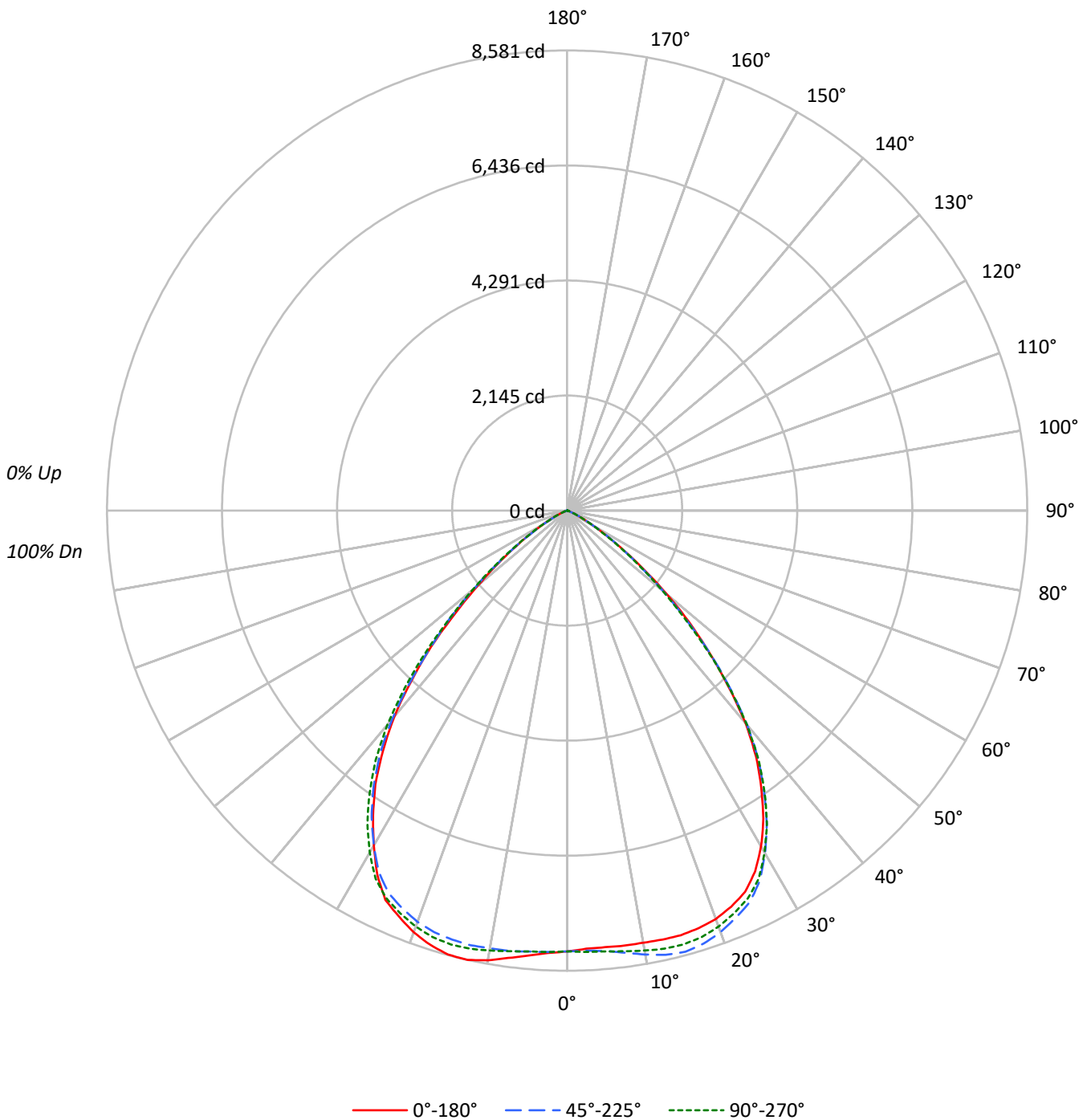
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |
| 4   | 92  | 82  | 76  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 66  |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 66  | 62  | 71  | 65  | 61  | 69  | 64  | 61  | 59  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 61  | 56  | 67  | 60  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 48  |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  |

**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°    | 790.5   | 5.3       |
| 10°-20°   | 2366.9  | 15.8      |
| 20°-30°   | 3637.7  | 24.3      |
| 30°-40°   | 3935.4  | 26.3      |
| 40°-50°   | 2836.5  | 18.9      |
| 50°-60°   | 1151.4  | 7.7       |
| 60°-70°   | 230.0   | 1.5       |
| 70°-80°   | 23.0    | 0.2       |
| 80°-90°   | 6.2     | 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°    | 6795.2  | 45.4      |
| 0°-40°    | 10730.6 | 71.6      |
| 0°-60°    | 14718.5 | 98.3      |
| 0°-90°    | 14977.7 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 14977.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 8220 | 8220 | 8220 | 8220 | 8220 |      |
| 5°  | 8173 | 8243 | 8252 | 8255 | 8328 | 781  |
| 15° | 8198 | 8516 | 8376 | 8282 | 8570 | 2316 |
| 25° | 7848 | 8057 | 7976 | 7874 | 8015 | 3587 |
| 35° | 6310 | 6403 | 6421 | 6290 | 6232 | 3918 |
| 45° | 3750 | 3768 | 3720 | 3595 | 3577 | 2893 |
| 55° | 1286 | 1246 | 1240 | 1198 | 1161 | 1206 |
| 65° | 200  | 216  | 192  | 183  | 197  | 238  |
| 75° | 18   | 22   | 20   | 19   | 20   | 24   |
| 85° | 7    | 11   | 14   | 7    | 6    | 6    |
| 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°    | 8220.3 | 8220.3 | 8220.3 | 8220.3 | 8220.3 | 8220.3 | 8220.3 | 8220.3 | 8220.3 |
| 2.5°  | 8178.1 | 8230.2 | 8212.8 | 8190.6 | 8237.6 | 8228.5 | 8238.5 | 8242.6 | 8258.3 |
| 5°    | 8173.2 | 8231.8 | 8242.6 | 8218.6 | 8251.7 | 8236.0 | 8254.9 | 8290.5 | 8328.5 |
| 7.5°  | 8181.5 | 8269.8 | 8316.0 | 8302.0 | 8286.3 | 8232.6 | 8282.2 | 8364.0 | 8414.3 |
| 10°   | 8181.5 | 8298.8 | 8406.0 | 8405.3 | 8330.9 | 8231.1 | 8286.3 | 8427.6 | 8515.9 |
| 12.5° | 8194.6 | 8338.3 | 8485.4 | 8495.3 | 8368.9 | 8242.6 | 8302.0 | 8468.8 | 8581.1 |
| 15°   | 8198.0 | 8339.2 | 8515.9 | 8520.8 | 8375.6 | 8226.9 | 8282.2 | 8461.4 | 8570.4 |
| 17.5° | 8163.2 | 8299.5 | 8467.1 | 8484.5 | 8338.3 | 8187.2 | 8243.4 | 8403.6 | 8490.3 |
| 20°   | 8105.5 | 8227.7 | 8364.0 | 8392.8 | 8254.9 | 8111.2 | 8160.8 | 8298.8 | 8368.9 |
| 22.5° | 7994.9 | 8106.3 | 8218.6 | 8240.1 | 8129.4 | 8003.9 | 8028.7 | 8136.0 | 8194.6 |
| 25°   | 7847.8 | 7958.4 | 8056.7 | 8068.3 | 7975.8 | 7863.5 | 7873.5 | 7955.2 | 8014.6 |
| 27.5° | 7586.8 | 7691.7 | 7781.0 | 7795.0 | 7739.6 | 7619.9 | 7601.7 | 7640.5 | 7665.3 |
| 30°   | 7233.4 | 7305.2 | 7379.5 | 7424.2 | 7359.8 | 7260.6 | 7209.5 | 7230.1 | 7207.8 |
| 32.5° | 6809.0 | 6882.4 | 6927.9 | 6941.9 | 6931.9 | 6845.3 | 6785.0 | 6733.0 | 6736.3 |
| 35°   | 6310.1 | 6377.0 | 6402.6 | 6428.3 | 6420.8 | 6353.0 | 6289.5 | 6240.7 | 6231.6 |
| 37.5° | 5787.4 | 5832.0 | 5860.9 | 5880.7 | 5864.2 | 5821.2 | 5738.6 | 5654.4 | 5640.4 |
| 40°   | 5173.8 | 5241.5 | 5218.4 | 5228.3 | 5212.6 | 5158.1 | 5075.6 | 5027.6 | 5014.5 |
| 42.5° | 4453.7 | 4513.1 | 4508.2 | 4511.5 | 4476.8 | 4402.5 | 4330.6 | 4304.2 | 4290.2 |
| 45°   | 3750.1 | 3779.0 | 3768.2 | 3733.6 | 3719.5 | 3673.3 | 3594.8 | 3544.5 | 3577.4 |
| 47.5° | 3087.8 | 3077.8 | 3006.0 | 2977.9 | 2957.3 | 2963.9 | 2946.5 | 2858.2 | 2810.2 |
| 50°   | 2422.1 | 2396.6 | 2328.0 | 2285.8 | 2309.0 | 2327.2 | 2262.7 | 2209.9 | 2151.3 |
| 52.5° | 1796.2 | 1801.1 | 1735.9 | 1689.7 | 1711.1 | 1714.5 | 1676.5 | 1646.7 | 1629.4 |
| 55°   | 1285.8 | 1285.8 | 1246.2 | 1231.3 | 1239.6 | 1223.9 | 1197.5 | 1187.6 | 1161.1 |
| 57.5° | 874.6  | 880.3  | 877.9  | 860.5  | 821.7  | 807.7  | 792.8  | 807.7  | 816.8  |
| 60°   | 562.4  | 576.4  | 574.0  | 572.3  | 539.3  | 506.2  | 520.3  | 533.5  | 535.2  |
| 62.5° | 346.1  | 352.7  | 364.2  | 354.2  | 337.8  | 311.3  | 308.1  | 327.9  | 346.1  |
| 65°   | 199.9  | 207.3  | 216.4  | 209.7  | 192.4  | 188.3  | 183.3  | 194.0  | 197.4  |
| 67.5° | 114.0  | 110.6  | 111.5  | 106.5  | 101.6  | 95.8   | 96.6   | 101.6  | 109.0  |
| 70°   | 60.3   | 52.0   | 52.8   | 47.9   | 52.0   | 46.3   | 44.6   | 48.8   | 50.3   |
| 72.5° | 30.6   | 29.7   | 33.9   | 33.9   | 36.3   | 32.2   | 32.2   | 30.6   | 34.6   |
| 75°   | 18.2   | 20.6   | 22.3   | 24.8   | 19.8   | 18.9   | 18.9   | 18.9   | 19.8   |
| 77.5° | 4.9    | 2.5    | 3.3    | 10.8   | 4.1    | 8.3    | 4.1    | 3.3    | 7.4    |
| 80°   | 14.0   | 8.3    | 4.9    | 9.1    | 9.9    | 4.9    | 12.4   | 11.5   | 3.3    |
| 82.5° | 4.9    | 0.0    | 9.1    | 9.9    | 8.3    | 8.3    | 9.9    | 9.9    | 9.1    |
| 85°   | 7.4    | 4.9    | 10.8   | 12.4   | 14.0   | 8.3    | 6.6    | 4.1    | 5.8    |
| 87.5° | 3.3    | 0.0    | 4.9    | 4.1    | 2.5    | 0.8    | 2.5    | 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)