

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: P247943

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247943  
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: LSR8B150D010 EC8B150930 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13434.1 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

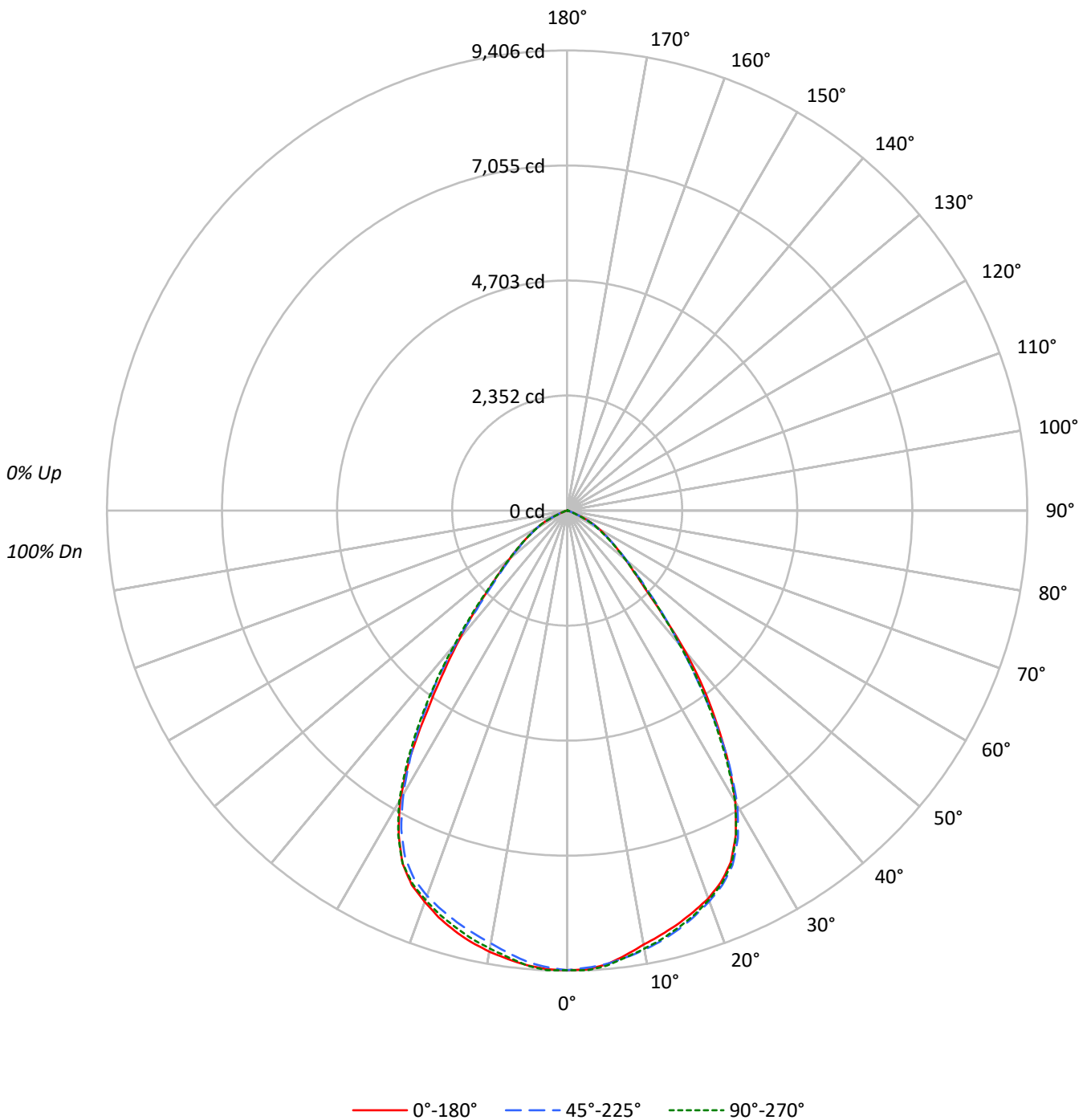
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**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°    | 879.9   | 6.5       |
| 10°-20°   | 2480.7  | 18.5      |
| 20°-30°   | 3596.5  | 26.8      |
| 30°-40°   | 3232.8  | 24.1      |
| 40°-50°   | 1821.7  | 13.6      |
| 50°-60°   | 970.6   | 7.2       |
| 60°-70°   | 387.9   | 2.9       |
| 70°-80°   | 51.7    | 0.4       |
| 80°-90°   | 12.2    | 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°    | 6957.1  | 51.8      |
| 0°-40°    | 10189.9 | 75.9      |
| 0°-60°    | 12982.3 | 96.6      |
| 0°-90°    | 13434.1 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 13434.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 9394 | 9394 | 9394 | 9394 | 9394 |      |
| 5°  | 9310 | 9302 | 9336 | 9263 | 9331 | 878  |
| 15° | 8748 | 8849 | 8818 | 8709 | 8891 | 2468 |
| 25° | 7924 | 7998 | 7954 | 7831 | 7961 | 3597 |
| 35° | 5352 | 5275 | 5232 | 5160 | 4970 | 3321 |
| 45° | 2237 | 2358 | 2296 | 2188 | 2244 | 1838 |
| 55° | 1088 | 1092 | 1068 | 1044 | 1060 | 992  |
| 65° | 419  | 399  | 370  | 359  | 374  | 414  |
| 75° | 33   | 42   | 40   | 40   | 33   | 49   |
| 85° | 2    | 10   | 5    | 14   | 3    | 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°    | 9394.2 | 9394.2 | 9394.2 | 9394.2 | 9394.2 | 9394.2 | 9394.2 | 9394.2 | 9394.2 |
| 2.5°  | 9387.6 | 9367.7 | 9353.0 | 9381.0 | 9405.8 | 9338.0 | 9343.0 | 9372.8 | 9382.7 |
| 5°    | 9310.0 | 9291.9 | 9301.7 | 9324.8 | 9336.4 | 9251.4 | 9262.9 | 9313.3 | 9331.4 |
| 7.5°  | 9164.6 | 9178.6 | 9214.2 | 9243.9 | 9209.2 | 9109.4 | 9125.8 | 9212.5 | 9248.0 |
| 10°   | 9006.9 | 9040.0 | 9114.3 | 9148.9 | 9090.3 | 8962.3 | 8981.3 | 9097.7 | 9153.9 |
| 12.5° | 8881.3 | 8917.8 | 8995.4 | 9021.8 | 8969.8 | 8831.8 | 8851.6 | 8972.3 | 9039.1 |
| 15°   | 8747.6 | 8780.7 | 8849.2 | 8870.7 | 8817.8 | 8690.7 | 8708.8 | 8824.4 | 8891.3 |
| 17.5° | 8596.5 | 8625.4 | 8686.5 | 8706.4 | 8660.1 | 8525.4 | 8554.4 | 8661.7 | 8720.4 |
| 20°   | 8437.1 | 8457.7 | 8500.7 | 8512.3 | 8467.7 | 8366.1 | 8379.4 | 8471.8 | 8509.7 |
| 22.5° | 8220.0 | 8246.4 | 8286.0 | 8298.4 | 8257.1 | 8145.6 | 8158.0 | 8248.9 | 8290.1 |
| 25°   | 7923.5 | 7962.2 | 7997.8 | 8013.5 | 7954.1 | 7806.2 | 7831.0 | 7908.7 | 7960.7 |
| 27.5° | 7463.5 | 7494.9 | 7557.7 | 7559.4 | 7477.5 | 7323.9 | 7344.6 | 7444.6 | 7457.7 |
| 30°   | 6872.3 | 6901.1 | 6956.5 | 6944.0 | 6865.7 | 6683.2 | 6699.7 | 6797.1 | 6819.4 |
| 32.5° | 6148.0 | 6158.8 | 6173.6 | 6169.5 | 6073.7 | 5987.8 | 5954.0 | 5965.5 | 5973.8 |
| 35°   | 5352.0 | 5370.9 | 5275.2 | 5223.2 | 5232.3 | 5239.7 | 5159.5 | 5040.7 | 4970.4 |
| 37.5° | 4580.6 | 4489.8 | 4371.8 | 4331.3 | 4406.4 | 4431.2 | 4358.6 | 4181.0 | 4115.8 |
| 40°   | 3742.5 | 3661.5 | 3568.3 | 3575.7 | 3574.1 | 3591.3 | 3499.8 | 3434.5 | 3412.2 |
| 42.5° | 2880.4 | 2881.2 | 2942.3 | 2900.1 | 2892.0 | 2771.3 | 2735.8 | 2772.2 | 2811.8 |
| 45°   | 2237.1 | 2311.4 | 2358.5 | 2346.0 | 2295.7 | 2187.5 | 2187.5 | 2251.1 | 2243.7 |
| 47.5° | 1841.5 | 1867.9 | 1903.5 | 1901.0 | 1864.7 | 1785.4 | 1798.5 | 1842.4 | 1864.7 |
| 50°   | 1556.6 | 1568.2 | 1584.6 | 1570.6 | 1548.3 | 1498.8 | 1498.0 | 1528.6 | 1541.7 |
| 52.5° | 1302.3 | 1308.9 | 1304.7 | 1297.3 | 1284.9 | 1258.5 | 1250.3 | 1275.8 | 1279.2 |
| 55°   | 1088.4 | 1100.8 | 1091.7 | 1071.0 | 1068.5 | 1044.7 | 1043.8 | 1064.5 | 1059.5 |
| 57.5° | 906.7  | 894.3  | 881.9  | 864.6  | 862.2  | 854.7  | 862.9  | 866.3  | 861.3  |
| 60°   | 754.8  | 755.6  | 731.7  | 715.1  | 713.5  | 702.8  | 714.3  | 723.4  | 723.4  |
| 62.5° | 607.8  | 604.4  | 589.6  | 564.9  | 569.0  | 564.9  | 569.8  | 571.5  | 564.0  |
| 65°   | 418.7  | 419.5  | 398.9  | 369.1  | 369.9  | 366.7  | 359.2  | 370.8  | 374.1  |
| 67.5° | 223.0  | 221.3  | 205.6  | 194.9  | 190.8  | 192.4  | 200.7  | 203.1  | 194.0  |
| 70°   | 121.4  | 117.3  | 120.6  | 109.0  | 111.4  | 107.4  | 111.4  | 118.0  | 115.6  |
| 72.5° | 61.9   | 66.0   | 59.4   | 54.5   | 61.1   | 60.3   | 70.2   | 64.5   | 57.8   |
| 75°   | 33.1   | 35.5   | 42.1   | 38.8   | 40.5   | 38.8   | 39.7   | 37.1   | 33.1   |
| 77.5° | 24.0   | 26.5   | 30.6   | 29.7   | 28.9   | 27.2   | 30.6   | 33.9   | 27.2   |
| 80°   | 14.0   | 17.4   | 18.9   | 22.3   | 19.8   | 22.3   | 25.6   | 20.6   | 16.5   |
| 82.5° | 9.1    | 14.0   | 14.0   | 14.9   | 21.5   | 14.0   | 23.1   | 20.6   | 16.5   |
| 85°   | 1.7    | 2.5    | 9.9    | 5.8    | 4.9    | 14.9   | 14.0   | 10.8   | 3.3    |
| 87.5° | 0.0    | 5.8    | 13.2   | 6.6    | 10.8   | 9.9    | 14.0   | 14.9   | 3.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)