

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: P247186

Luminaire Tested: **LD8B80D010 ER8B80930 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247186  
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 ER8B80930 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6964.8 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

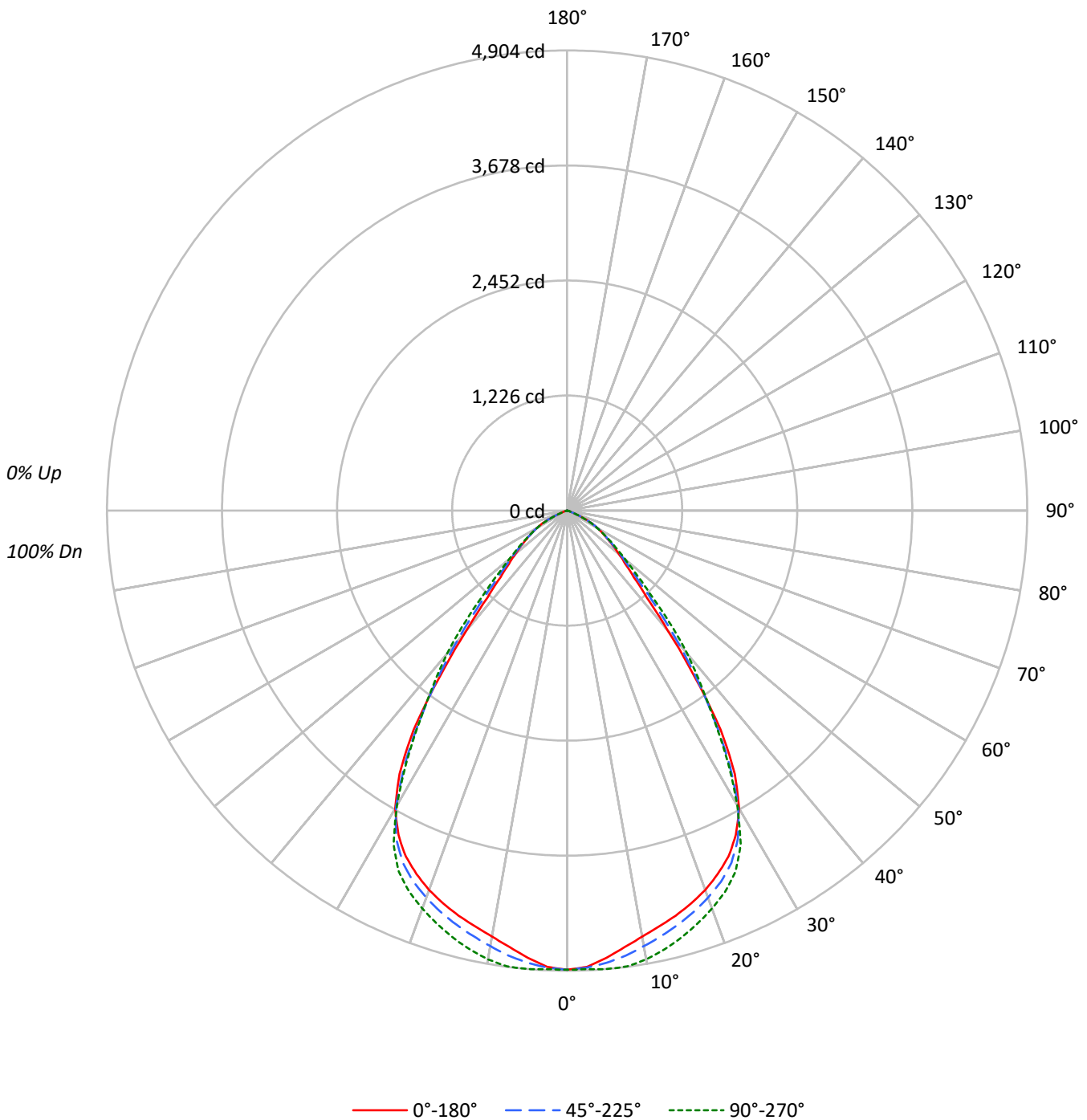
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247186

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBW0H

### Luminous Intensity Polar Plot





TEST NUMBER: P247186

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBW0H

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

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

|     | 0°   | 45° | 90° |
|-----|--|-----|-----|
| 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° |  |     |     |



TEST NUMBER: P247186

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBW0H

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 458.3  | 6.6       |
| 10°-20°   | 1291.4 | 18.5      |
| 20°-30°   | 1888.7 | 27.1      |
| 30°-40°   | 1711.4 | 24.6      |
| 40°-50°   | 910.0  | 13.1      |
| 50°-60°   | 485.7  | 7.0       |
| 60°-70°   | 198.1  | 2.8       |
| 70°-80°   | 20.0   | 0.3       |
| 80°-90°   | 1.2    | 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°    | 3638.5 | 52.2      |
| 0°-40°    | 5349.9 | 76.8      |
| 0°-60°    | 6745.5 | 96.9      |
| 0°-90°    | 6964.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6964.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4893 | 4893  | 4893 | 4893  | 4893 |      |
| 5°  | 4785 | 4797  | 4837 | 4881  | 4904 | 451  |
| 15° | 4469 | 4495  | 4568 | 4662  | 4710 | 1261 |
| 25° | 4068 | 4085  | 4142 | 4213  | 4246 | 1859 |
| 35° | 2852 | 2812  | 2753 | 2733  | 2738 | 1714 |
| 45° | 1006 | 1036  | 1121 | 1211  | 1243 | 823  |
| 55° | 524  | 524   | 534  | 541   | 550  | 475  |
| 65° | 205  | 204   | 199  | 187   | 188  | 204  |
| 75° | 15   | 15    | 14   | 13    | 13   | 21   |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P247186

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBW0H

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4893.1 | 4893.1 | 4893.1 | 4893.1 | 4893.1 |
| 2.5°  | 4866.6 | 4865.8 | 4874.9 | 4885.7 | 4891.4 |
| 5°    | 4784.9 | 4797.3 | 4836.9 | 4880.7 | 4903.8 |
| 7.5°  | 4692.4 | 4715.5 | 4784.1 | 4859.2 | 4899.7 |
| 10°   | 4609.0 | 4638.7 | 4713.9 | 4812.1 | 4856.7 |
| 12.5° | 4537.1 | 4566.1 | 4642.1 | 4742.7 | 4791.5 |
| 15°   | 4469.4 | 4495.0 | 4567.7 | 4661.8 | 4709.8 |
| 17.5° | 4391.0 | 4415.7 | 4485.9 | 4575.1 | 4616.4 |
| 20°   | 4302.6 | 4323.2 | 4389.3 | 4472.7 | 4514.8 |
| 22.5° | 4192.8 | 4215.1 | 4282.0 | 4358.8 | 4398.4 |
| 25°   | 4068.1 | 4085.4 | 4141.5 | 4212.6 | 4245.6 |
| 27.5° | 3894.7 | 3910.3 | 3943.3 | 3981.3 | 4006.1 |
| 30°   | 3665.1 | 3661.0 | 3648.5 | 3637.0 | 3626.2 |
| 32.5° | 3326.5 | 3286.8 | 3226.6 | 3188.6 | 3190.3 |
| 35°   | 2851.6 | 2811.9 | 2753.3 | 2732.7 | 2737.6 |
| 37.5° | 2228.1 | 2257.8 | 2281.8 | 2321.4 | 2340.4 |
| 40°   | 1669.8 | 1721.1 | 1842.5 | 1948.2 | 1991.9 |
| 42.5° | 1255.3 | 1305.6 | 1432.9 | 1544.3 | 1604.6 |
| 45°   | 1005.9 | 1035.6 | 1121.4 | 1210.7 | 1242.9 |
| 47.5° | 842.3  | 855.5  | 905.1  | 962.0  | 990.2  |
| 50°   | 720.9  | 729.2  | 755.7  | 787.1  | 805.2  |
| 52.5° | 617.7  | 621.0  | 634.3  | 652.4  | 664.0  |
| 55°   | 524.4  | 523.6  | 533.5  | 540.9  | 550.0  |
| 57.5° | 443.5  | 442.7  | 442.7  | 445.1  | 450.9  |
| 60°   | 374.1  | 371.6  | 371.6  | 368.4  | 369.9  |
| 62.5° | 304.7  | 302.2  | 296.5  | 292.4  | 290.7  |
| 65°   | 204.8  | 204.0  | 199.0  | 187.4  | 188.3  |
| 67.5° | 106.5  | 105.7  | 100.8  | 97.4   | 95.8   |
| 70°   | 56.9   | 55.4   | 52.8   | 50.3   | 48.8   |
| 72.5° | 28.9   | 28.0   | 27.2   | 25.6   | 25.6   |
| 75°   | 14.9   | 14.9   | 14.0   | 13.2   | 13.2   |
| 77.5° | 7.4    | 7.4    | 6.6    | 6.6    | 6.6    |
| 80°   | 4.1    | 4.1    | 3.3    | 3.3    | 3.3    |
| 82.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 85°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 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)