

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: P246746

Luminaire Tested: **LD8B20D010 ER8B20930 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246746  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B20D010 ER8B20930 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1796.9 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

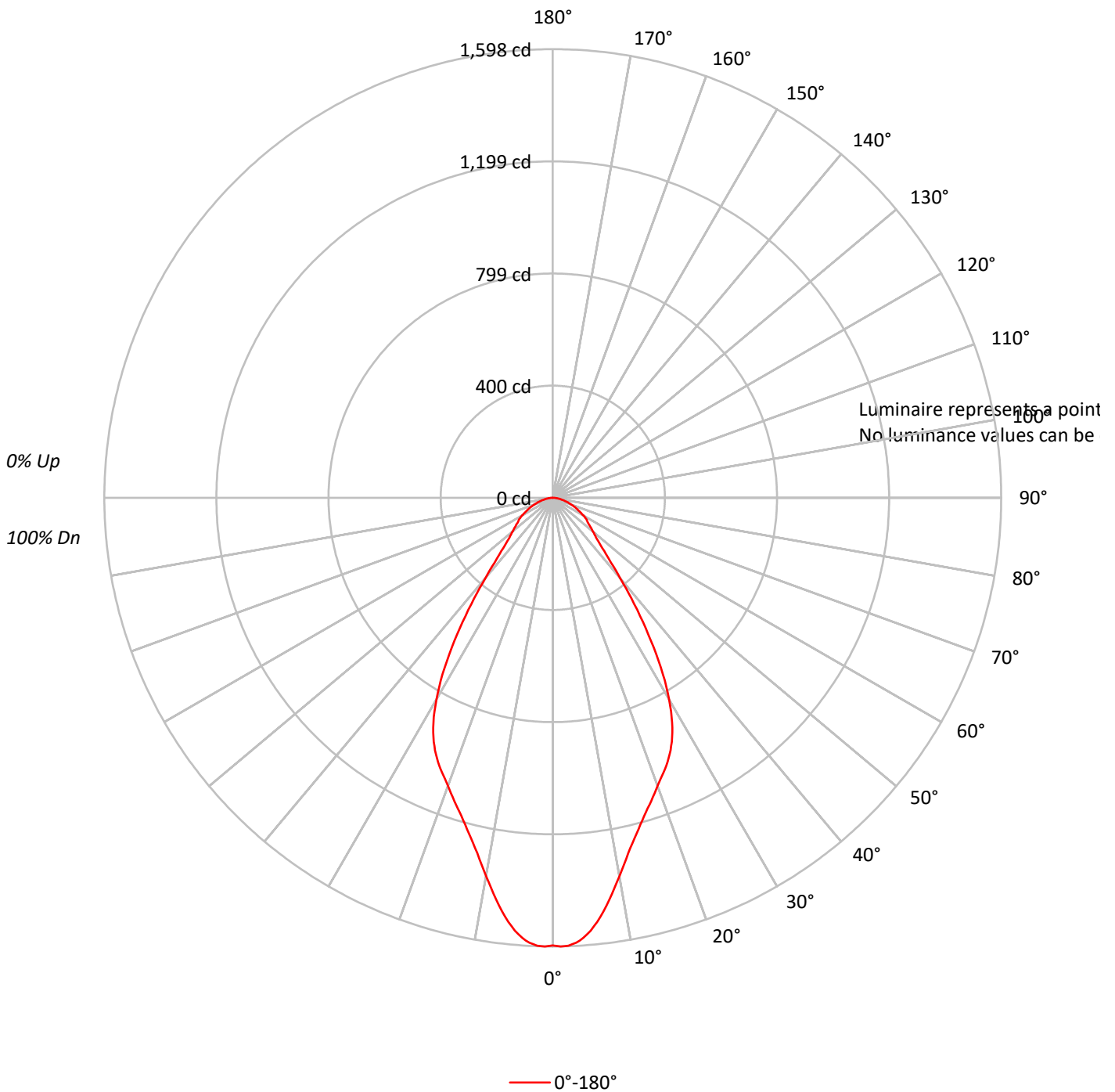
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246746

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBM0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P246746

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBM0MW

**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 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  |  | 98  | 96  | 94  |  | 94  | 93  | 91  | 89  |
| 2   | 104 | 98  | 93  | 88  | 102 | 96  | 91  | 87  | 93  | 89  | 85  |  | 90  | 86  | 83  |  | 87  | 84  | 82  | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  |  | 82  | 78  | 75  |  | 80  | 76  | 73  | 71  |
| 4   | 91  | 82  | 75  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 66  | 65  |
| 5   | 85  | 75  | 68  | 63  | 83  | 74  | 67  | 62  | 72  | 66  | 62  |  | 70  | 65  | 61  |  | 69  | 64  | 60  | 59  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 55  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  |  | 61  | 55  | 51  |  | 60  | 55  | 51  | 49  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 53  | 48  | 58  | 52  | 48  |  | 57  | 51  | 47  |  | 56  | 51  | 47  | 46  |
| 9   | 67  | 56  | 49  | 44  | 66  | 56  | 49  | 44  | 54  | 48  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 44  | 42  |
| 10  | 64  | 53  | 46  | 41  | 63  | 52  | 46  | 41  | 51  | 45  | 41  |  | 50  | 45  | 41  |  | 50  | 45  | 41  | 39  |

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





TEST NUMBER: P246746

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBM0MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 141.7  | 7.9       |
| 10°-20°   | 340.0  | 18.9      |
| 20°-30°   | 450.5  | 25.1      |
| 30°-40°   | 369.5  | 20.6      |
| 40°-50°   | 196.8  | 11.0      |
| 50°-60°   | 138.5  | 7.7       |
| 60°-70°   | 95.5   | 5.3       |
| 70°-80°   | 49.7   | 2.8       |
| 80°-90°   | 14.7   | 0.8       |
| 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°    | 932.2  | 51.9      |
| 0°-40°    | 1301.7 | 72.4      |
| 0°-60°    | 1637.0 | 91.1      |
| 0°-90°    | 1796.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1796.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1594 |      |
| 5°  | 1548 | 142  |
| 15° | 1206 | 340  |
| 25° | 992  | 451  |
| 35° | 594  | 369  |
| 45° | 243  | 197  |
| 55° | 152  | 139  |
| 65° | 96   | 95   |
| 75° | 47   | 50   |
| 85° | 14   | 15   |
| 90° | 0    |      |



TEST NUMBER: P246746

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBM0MW

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1594.1 |
| 1°    | 1598.5 |
| 2°    | 1596.6 |
| 3°    | 1587.2 |
| 4°    | 1571.0 |
| 5°    | 1547.8 |
| 6°    | 1518.6 |
| 7°    | 1483.8 |
| 8°    | 1446.2 |
| 9°    | 1406.4 |
| 10°   | 1367.8 |
| 11°   | 1331.0 |
| 12°   | 1293.5 |
| 13°   | 1262.2 |
| 14°   | 1232.7 |
| 15°   | 1205.6 |
| 16°   | 1180.2 |
| 17°   | 1156.6 |
| 18°   | 1134.9 |
| 19°   | 1113.2 |
| 20°   | 1092.3 |
| 21°   | 1071.9 |
| 22°   | 1054.3 |
| 23°   | 1036.1 |
| 24°   | 1014.8 |
| 25°   | 992.4  |
| 26°   | 967.0  |
| 27°   | 938.4  |
| 28°   | 906.1  |
| 29°   | 870.2  |
| 30°   | 829.2  |
| 31°   | 786.0  |
| 32°   | 740.8  |
| 33°   | 692.6  |
| 34°   | 644.0  |
| 35°   | 594.2  |
| 37.5° | 476.2  |
| 40°   | 373.3  |
| 42.5° | 294.7  |
| 45°   | 242.8  |
| 47.5° | 208.5  |
| 50°   | 187.2  |
| 52.5° | 168.5  |
| 55°   | 152.3  |
| 57.5° | 142.5  |



TEST NUMBER: P246746

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBM0MW

**CANDELA DISTRIBUTION (continued):**

|       | 0°    |
|-------|-------|
| 60°   | 125.8 |
| 62.5° | 109.7 |
| 65°   | 95.6  |
| 67.5° | 83.2  |
| 70°   | 69.6  |
| 72.5° | 58.2  |
| 75°   | 47.4  |
| 77.5° | 34.3  |
| 80°   | 28.0  |
| 82.5° | 20.3  |
| 85°   | 13.6  |
| 87.5° | 6.3   |
| 90°   | 0.0   |

(END OF REPORT)