

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: P247380

Luminaire Tested: **LD8B100D010 ER8B100930 8LBSOWMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B100930 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9621.6 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

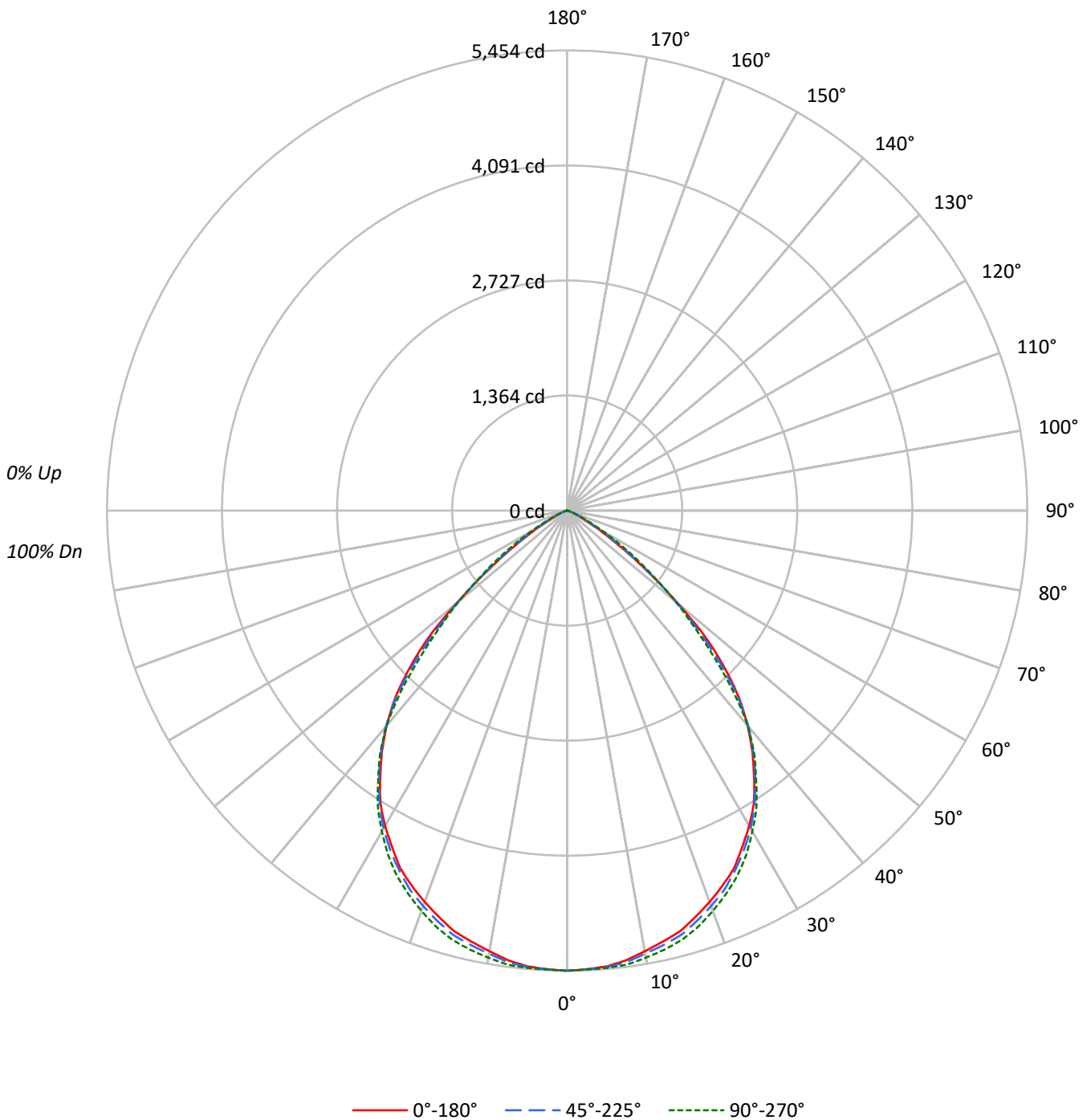
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247380

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBS0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P247380

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBS0WMH

**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 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 91  | 91  | 91  | 91  |  |  |  |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 94  | 90  | 86  | 90  | 87  | 85  | 88  | 85  | 83  | 81  | 81  | 81  | 81  |  |  |  |
| 3   | 98  | 90  | 83  | 78  | 95  | 88  | 82  | 78  | 85  | 80  | 76  | 83  | 79  | 75  | 80  | 77  | 74  | 72  | 72  | 72  | 72  |  |  |  |
| 4   | 91  | 81  | 75  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 64  | 64  | 64  | 64  |  |  |  |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 66  | 61  | 71  | 65  | 61  | 70  | 64  | 60  | 68  | 63  | 60  | 58  | 58  | 58  | 58  |  |  |  |
| 6   | 79  | 68  | 61  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 55  | 64  | 58  | 54  | 62  | 58  | 54  | 52  | 52  | 52  | 52  |  |  |  |
| 7   | 74  | 62  | 55  | 50  | 72  | 62  | 55  | 50  | 60  | 54  | 49  | 59  | 53  | 49  | 58  | 53  | 49  | 47  | 47  | 47  | 47  |  |  |  |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  | 55  | 49  | 45  | 54  | 48  | 44  | 43  | 43  | 43  | 43  |  |  |  |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  | 39  | 39  | 39  |  |  |  |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 46  | 41  | 37  | 36  | 36  | 36  | 36  |  |  |  |

**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: P247380

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBS0WMH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 515.3  | 5.4       |
| 10°-20°   | 1466.3 | 15.2      |
| 20°-30°   | 2166.2 | 22.5      |
| 30°-40°   | 2420.6 | 25.2      |
| 40°-50°   | 1954.2 | 20.3      |
| 50°-60°   | 869.2  | 9.0       |
| 60°-70°   | 195.8  | 2.0       |
| 70°-80°   | 30.2   | 0.3       |
| 80°-90°   | 3.6    | 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°    | 4147.8 | 43.1      |
| 0°-40°    | 6568.5 | 68.3      |
| 0°-60°    | 9391.9 | 97.6      |
| 0°-90°    | 9621.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9621.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5454 | 5454  | 5454 | 5454  | 5454 |      |
| 5°  | 5422 | 5420  | 5430 | 5431  | 5440 | 514  |
| 15° | 5164 | 5167  | 5209 | 5248  | 5265 | 1452 |
| 25° | 4679 | 4679  | 4709 | 4748  | 4774 | 2145 |
| 35° | 3863 | 3861  | 3887 | 3891  | 3907 | 2408 |
| 45° | 2647 | 2627  | 2578 | 2486  | 2475 | 2002 |
| 55° | 880  | 893   | 933  | 981   | 1010 | 828  |
| 65° | 145  | 163   | 175  | 190   | 201  | 168  |
| 75° | 19   | 27    | 28   | 27    | 32   | 25   |
| 85° | 2    | 3     | 5    | 12    | 3    | 2    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P247380

CATALOG NUMBER: LD8B100D010 ER8B100930 8LBS0WMH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5453.7 | 5453.7 | 5453.7 | 5453.7 | 5453.7 |
| 2.5°  | 5439.7 | 5436.5 | 5441.8 | 5438.6 | 5444.0 |
| 5°    | 5421.5 | 5420.4 | 5430.0 | 5431.1 | 5439.7 |
| 7.5°  | 5374.2 | 5375.3 | 5395.7 | 5410.7 | 5427.9 |
| 10°   | 5302.3 | 5306.6 | 5333.5 | 5366.7 | 5380.7 |
| 12.5° | 5233.6 | 5239.0 | 5273.3 | 5319.5 | 5330.2 |
| 15°   | 5163.9 | 5167.1 | 5209.0 | 5247.6 | 5264.8 |
| 17.5° | 5050.1 | 5071.6 | 5103.8 | 5147.7 | 5170.3 |
| 20°   | 4936.4 | 4951.5 | 4987.9 | 5036.2 | 5049.1 |
| 22.5° | 4811.9 | 4828.0 | 4864.5 | 4904.2 | 4918.2 |
| 25°   | 4678.8 | 4678.8 | 4708.9 | 4747.5 | 4774.3 |
| 27.5° | 4493.2 | 4515.7 | 4537.1 | 4571.6 | 4598.3 |
| 30°   | 4316.1 | 4324.7 | 4350.5 | 4378.4 | 4391.3 |
| 32.5° | 4119.8 | 4120.8 | 4132.6 | 4163.7 | 4175.5 |
| 35°   | 3863.3 | 3861.1 | 3886.8 | 3891.2 | 3907.2 |
| 37.5° | 3606.8 | 3617.5 | 3627.2 | 3642.2 | 3643.2 |
| 40°   | 3326.7 | 3332.1 | 3342.8 | 3326.7 | 3334.2 |
| 42.5° | 3021.9 | 3014.4 | 2994.1 | 2945.8 | 2925.4 |
| 45°   | 2647.4 | 2627.1 | 2577.6 | 2486.5 | 2474.6 |
| 47.5° | 2234.3 | 2183.8 | 2123.7 | 2056.1 | 2043.2 |
| 50°   | 1718.0 | 1722.4 | 1692.4 | 1669.8 | 1672.0 |
| 52.5° | 1252.4 | 1267.4 | 1274.9 | 1296.3 | 1308.1 |
| 55°   | 880.0  | 892.9  | 932.6  | 980.9  | 1009.8 |
| 57.5° | 569.8  | 594.5  | 646.0  | 700.7  | 721.1  |
| 60°   | 363.8  | 379.9  | 426.0  | 465.8  | 492.6  |
| 62.5° | 238.2  | 243.6  | 269.4  | 305.8  | 306.9  |
| 65°   | 144.8  | 163.1  | 174.9  | 189.9  | 200.7  |
| 67.5° | 94.4   | 94.4   | 105.1  | 119.2  | 122.3  |
| 70°   | 54.7   | 55.8   | 61.2   | 66.6   | 69.7   |
| 72.5° | 30.0   | 33.3   | 36.4   | 41.8   | 47.2   |
| 75°   | 19.3   | 26.8   | 27.9   | 26.8   | 32.2   |
| 77.5° | 12.9   | 12.9   | 10.8   | 18.3   | 19.3   |
| 80°   | 10.8   | 7.5    | 9.6    | 13.9   | 15.0   |
| 82.5° | 0.0    | 1.1    | 1.1    | 2.1    | 0.0    |
| 85°   | 2.1    | 3.3    | 5.4    | 11.8   | 3.3    |
| 87.5° | 0.0    | 3.3    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)