

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: P250866

Luminaire Tested: **LSR8B60D010 EC8B60830 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-12)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B60D010 EC8B60830 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6761.0 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

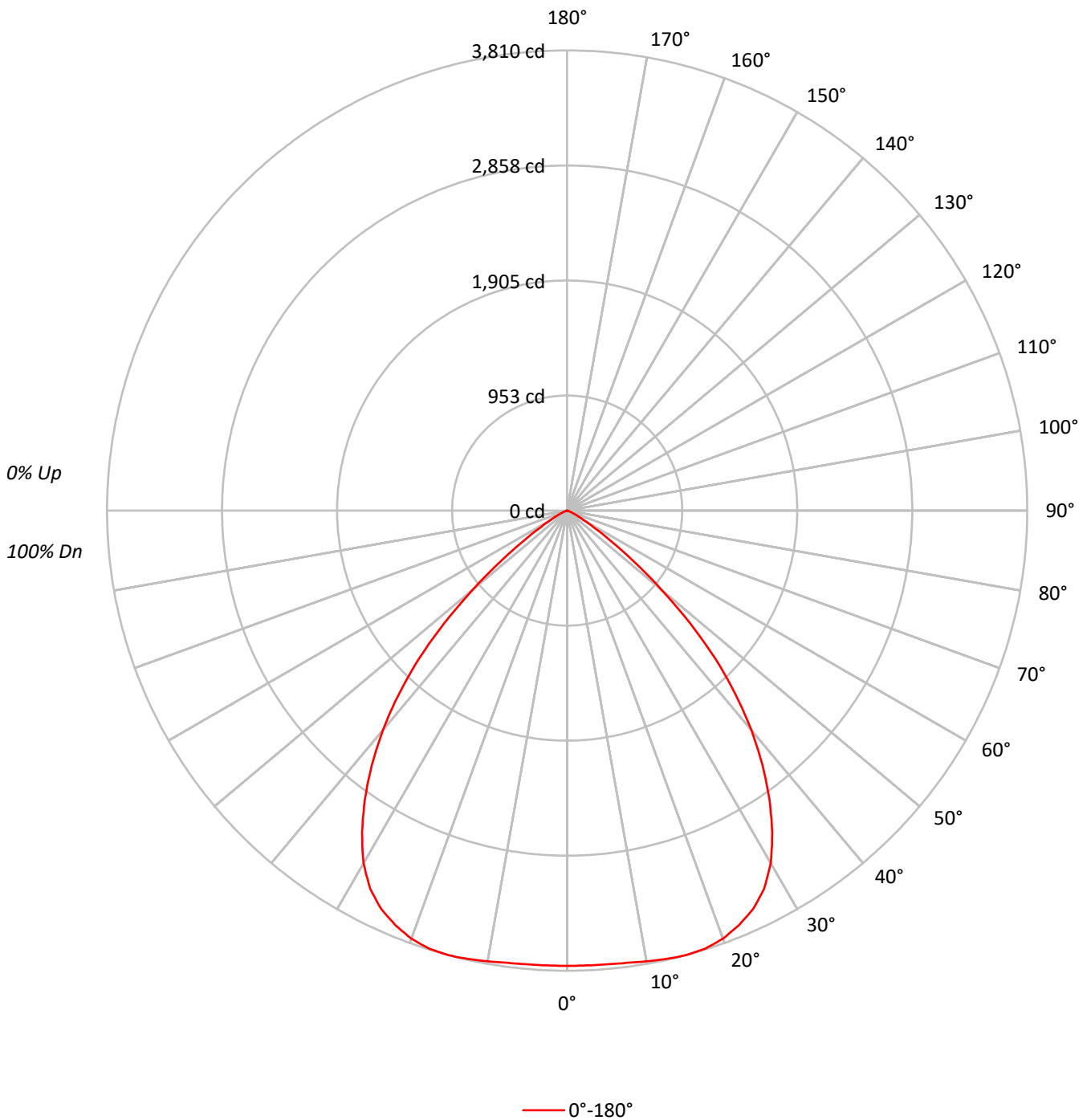
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  |  | 99  | 97  | 96  |  | 96  | 94  | 93  | 91  |
| 2   | 105 | 99  | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  |  | 91  | 88  | 86  |  | 88  | 86  | 84  | 82  |
| 3   | 98  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 86  | 82  | 78  |  | 84  | 80  | 77  |  | 82  | 78  | 75  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 71  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 75  | 71  | 68  | 66  |
| 5   | 86  | 76  | 69  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 63  |  | 71  | 66  | 62  |  | 69  | 65  | 61  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  |  | 66  | 60  | 56  |  | 64  | 59  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 52  | 62  | 56  | 51  |  | 61  | 55  | 51  |  | 59  | 54  | 51  | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 58  | 52  | 47  | 57  | 51  | 47  |  | 56  | 51  | 46  |  | 55  | 50  | 46  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  |  | 52  | 47  | 43  |  | 51  | 46  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 50  | 43  | 39  |  | 49  | 43  | 39  |  | 48  | 43  | 39  | 37  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 116241 |
| 5°  | 116746 |
| 10° | 118641 |
| 15° | 121644 |
| 20° | 123766 |
| 25° | 123906 |
| 30° | 120069 |
| 35° | 109932 |
| 40° | 95543  |
| 45° | 75601  |
| 50° | 49023  |
| 55° | 24499  |
| 60° | 10287  |
| 65° | 4531   |
| 70° | 1397   |
| 75° | 691    |
| 80° | 693    |
| 85° | 672    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 360.6  | 5.3       |
| 10°-20°   | 1076.7 | 15.9      |
| 20°-30°   | 1668.0 | 24.7      |
| 30°-40°   | 1811.5 | 26.8      |
| 40°-50°   | 1316.4 | 19.5      |
| 50°-60°   | 447.4  | 6.6       |
| 60°-70°   | 71.3   | 1.1       |
| 70°-80°   | 7.7    | 0.1       |
| 80°-90°   | 1.6    | 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°    | 3105.3 | 45.9      |
| 0°-40°    | 4916.8 | 72.7      |
| 0°-60°    | 6680.6 | 98.8      |
| 0°-90°    | 6761.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6761.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3770 |      |
| 5°  | 3772 | 361  |
| 15° | 3810 | 1077 |
| 25° | 3642 | 1668 |
| 35° | 2920 | 1811 |
| 45° | 1734 | 1316 |
| 55° | 456  | 447  |
| 65° | 62   | 71   |
| 75° | 6    | 8    |
| 85° | 2    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3769.6 |
| 2.5°  | 3769.6 |
| 5°    | 3771.6 |
| 7.5°  | 3777.4 |
| 10°   | 3789.0 |
| 12.5° | 3802.6 |
| 15°   | 3810.4 |
| 17.5° | 3802.6 |
| 20°   | 3771.6 |
| 22.5° | 3715.3 |
| 25°   | 3641.7 |
| 27.5° | 3531.1 |
| 30°   | 3372.1 |
| 32.5° | 3160.8 |
| 35°   | 2920.3 |
| 37.5° | 2658.5 |
| 40°   | 2373.5 |
| 42.5° | 2065.2 |
| 45°   | 1733.6 |
| 47.5° | 1376.8 |
| 50°   | 1021.9 |
| 52.5° | 700.0  |
| 55°   | 455.7  |
| 57.5° | 277.3  |
| 60°   | 166.8  |
| 62.5° | 102.8  |
| 65°   | 62.1   |
| 67.5° | 34.9   |
| 70°   | 15.5   |
| 72.5° | 9.7    |
| 75°   | 5.8    |
| 77.5° | 3.9    |
| 80°   | 3.9    |
| 82.5° | 1.9    |
| 85°   | 1.9    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)