

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: P246543

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B30830 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3032.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

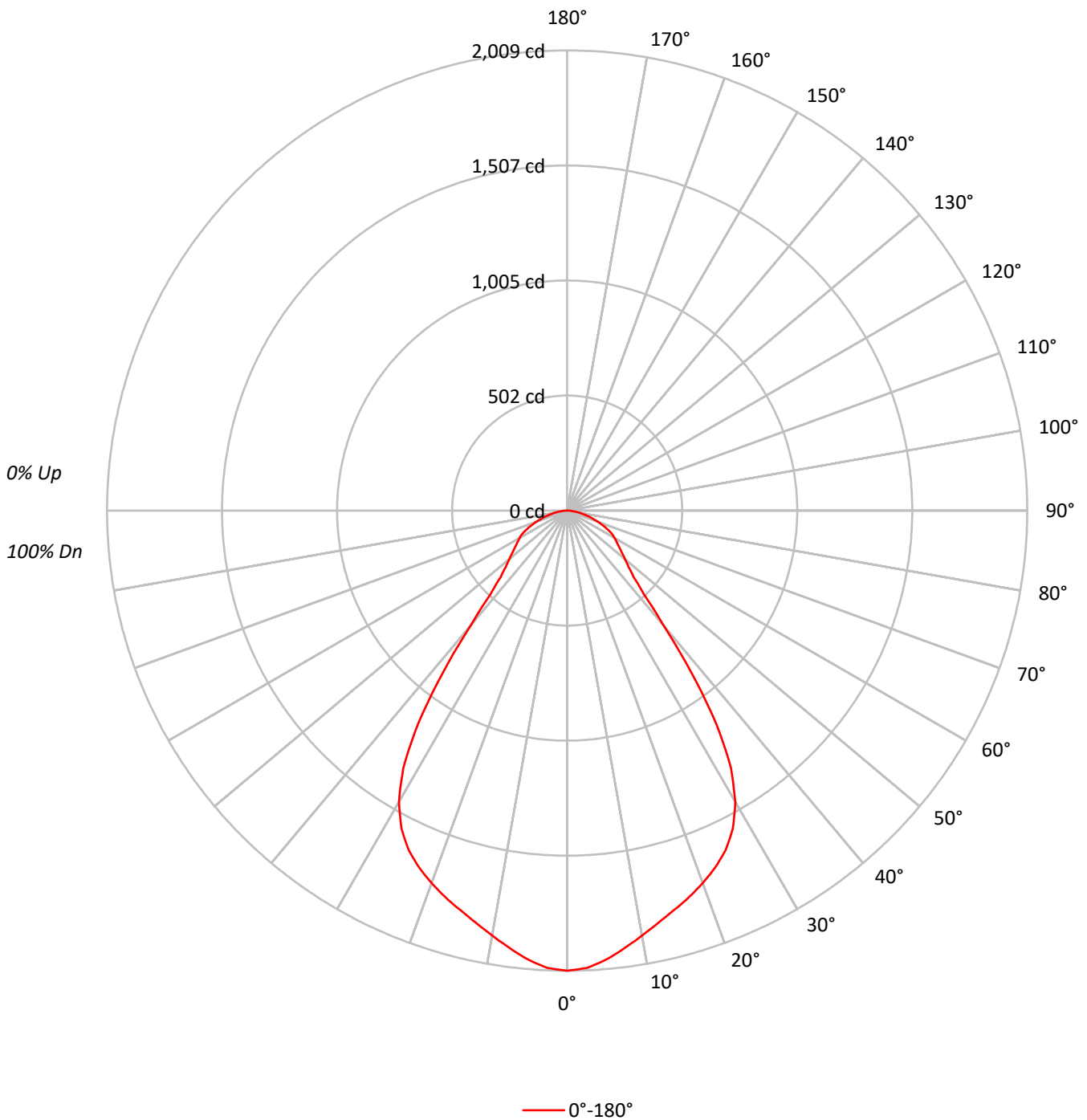
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  | 101 | 99  | 96  |  | 97  | 95  | 93  |  | 94  | 92  | 91  | 89  |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 92  | 87  | 84  |  | 88  | 85  | 82  |  | 86  | 83  | 80  | 78  |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  |  | 81  | 76  | 73  |  | 78  | 75  | 72  | 70  |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 76  | 70  | 66  |  | 74  | 69  | 65  |  | 72  | 68  | 64  | 62  |
| 5   | 84  | 73  | 66  | 60  | 82  | 72  | 65  | 60  | 70  | 64  | 59  |  | 68  | 63  | 59  |  | 67  | 62  | 58  | 56  |
| 6   | 79  | 67  | 60  | 54  | 77  | 66  | 59  | 54  | 65  | 58  | 54  |  | 63  | 58  | 53  |  | 62  | 57  | 53  | 51  |
| 7   | 74  | 62  | 55  | 49  | 72  | 61  | 54  | 49  | 60  | 54  | 49  |  | 59  | 53  | 49  |  | 57  | 52  | 48  | 47  |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 50  | 45  |  | 55  | 49  | 45  |  | 54  | 48  | 45  | 43  |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  |  | 51  | 45  | 41  |  | 50  | 45  | 41  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  |  | 48  | 42  | 38  |  | 47  | 42  | 38  | 37  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 61947 |
| 5°  | 60905 |
| 10° | 58989 |
| 15° | 57623 |
| 20° | 56803 |
| 25° | 55687 |
| 30° | 52288 |
| 35° | 42681 |
| 40° | 26439 |
| 45° | 17906 |
| 50° | 15778 |
| 55° | 14892 |
| 60° | 14771 |
| 65° | 14316 |
| 70° | 12830 |
| 75° | 11116 |
| 80° | 9394  |
| 85° | 7501  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 185.1  | 6.1       |
| 10°-20°   | 509.8  | 16.8      |
| 20°-30°   | 747.6  | 24.7      |
| 30°-40°   | 683.4  | 22.5      |
| 40°-50°   | 338.3  | 11.2      |
| 50°-60°   | 250.2  | 8.3       |
| 60°-70°   | 192.3  | 6.3       |
| 70°-80°   | 100.2  | 3.3       |
| 80°-90°   | 25.0   | 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°    | 1442.5 | 47.6      |
| 0°-40°    | 2125.9 | 70.1      |
| 0°-60°    | 2714.5 | 89.5      |
| 0°-90°    | 3032.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3032.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2009 |      |
| 5°  | 1968 | 185  |
| 15° | 1805 | 510  |
| 25° | 1637 | 748  |
| 35° | 1134 | 683  |
| 45° | 411  | 338  |
| 55° | 277  | 250  |
| 65° | 196  | 192  |
| 75° | 93   | 100  |
| 85° | 21   | 25   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2008.9 |
| 2.5°  | 1998.3 |
| 5°    | 1967.6 |
| 7.5°  | 1926.2 |
| 10°   | 1883.9 |
| 12.5° | 1842.5 |
| 15°   | 1805.0 |
| 17.5° | 1769.5 |
| 20°   | 1731.0 |
| 22.5° | 1687.7 |
| 25°   | 1636.7 |
| 27.5° | 1566.5 |
| 30°   | 1468.5 |
| 32.5° | 1330.9 |
| 35°   | 1133.8 |
| 37.5° | 889.5  |
| 40°   | 656.8  |
| 42.5° | 497.2  |
| 45°   | 410.6  |
| 47.5° | 363.5  |
| 50°   | 328.9  |
| 52.5° | 301.0  |
| 55°   | 277.0  |
| 57.5° | 256.8  |
| 60°   | 239.5  |
| 62.5° | 221.2  |
| 65°   | 196.2  |
| 67.5° | 169.3  |
| 70°   | 142.3  |
| 72.5° | 117.3  |
| 75°   | 93.3   |
| 77.5° | 72.1   |
| 80°   | 52.9   |
| 82.5° | 36.5   |
| 85°   | 21.2   |
| 87.5° | 7.7    |
| 90°   | 0.0    |

(END OF REPORT)