

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: P246577

Luminaire Tested: **LSR8B15D010 EC8B15935 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246577  
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: LSR8B15D010 EC8B15935 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1335.1 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

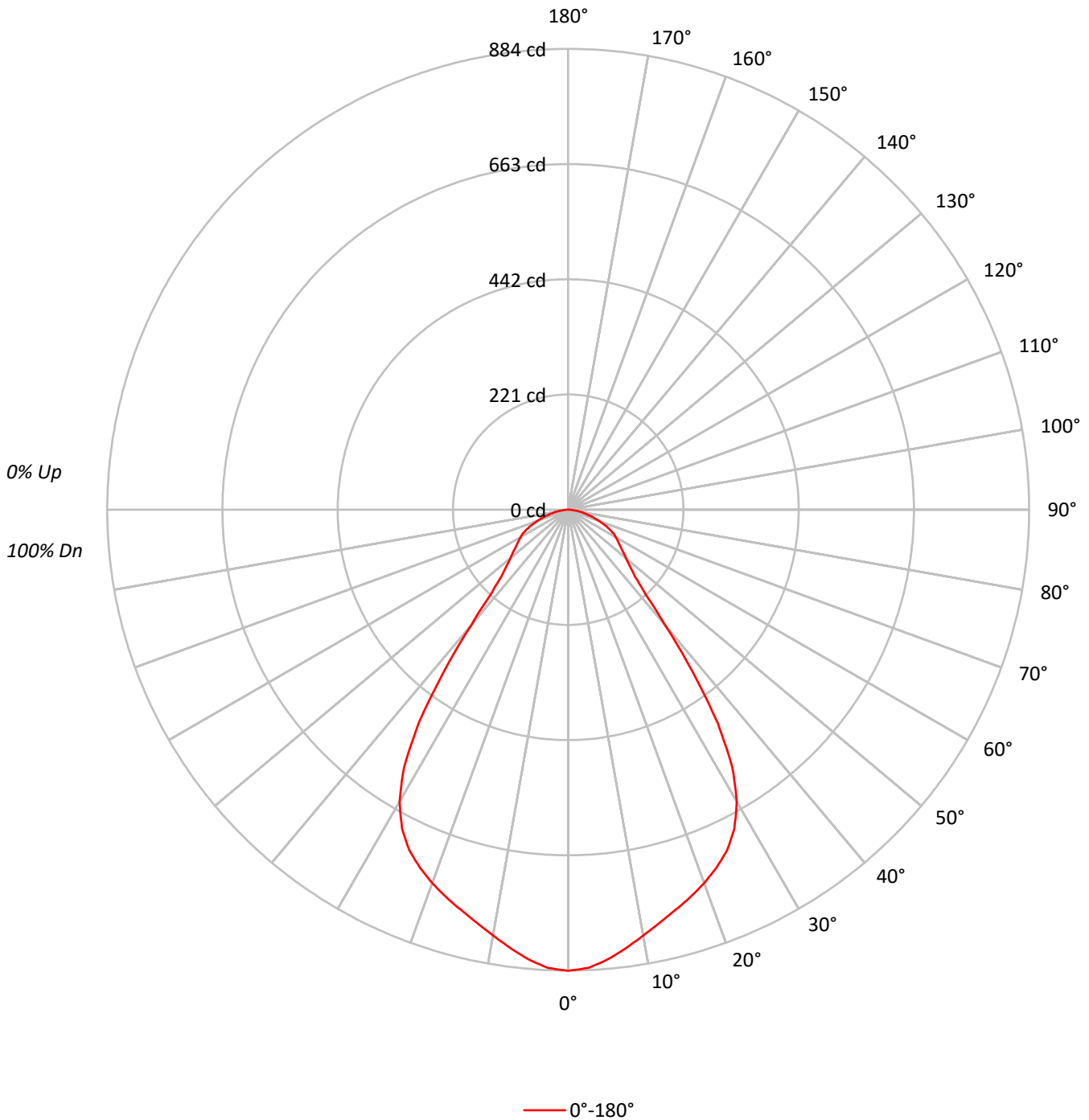
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 27275 |
| 5°  | 26816 |
| 10° | 25973 |
| 15° | 25373 |
| 20° | 25012 |
| 25° | 24521 |
| 30° | 23023 |
| 35° | 18792 |
| 40° | 11641 |
| 45° | 7885  |
| 50° | 6946  |
| 55° | 6554  |
| 60° | 6500  |
| 65° | 6304  |
| 70° | 5653  |
| 75° | 4897  |
| 80° | 4138  |
| 85° | 3290  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.5   | 6.1       |
| 10°-20°   | 224.5  | 16.8      |
| 20°-30°   | 329.2  | 24.7      |
| 30°-40°   | 300.9  | 22.5      |
| 40°-50°   | 149.0  | 11.2      |
| 50°-60°   | 110.1  | 8.3       |
| 60°-70°   | 84.7   | 6.3       |
| 70°-80°   | 44.2   | 3.3       |
| 80°-90°   | 11.0   | 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°    | 635.2  | 47.6      |
| 0°-40°    | 936.1  | 70.1      |
| 0°-60°    | 1195.2 | 89.5      |
| 0°-90°    | 1335.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1335.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 884 |      |
| 5°  | 866 | 81   |
| 15° | 795 | 224  |
| 25° | 721 | 329  |
| 35° | 499 | 301  |
| 45° | 181 | 149  |
| 55° | 122 | 110  |
| 65° | 86  | 85   |
| 75° | 41  | 44   |
| 85° | 9   | 11   |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 884.5 |
| 2.5°  | 879.9 |
| 5°    | 866.3 |
| 7.5°  | 848.1 |
| 10°   | 829.5 |
| 12.5° | 811.3 |
| 15°   | 794.8 |
| 17.5° | 779.1 |
| 20°   | 762.2 |
| 22.5° | 743.1 |
| 25°   | 720.7 |
| 27.5° | 689.8 |
| 30°   | 646.6 |
| 32.5° | 586.0 |
| 35°   | 499.2 |
| 37.5° | 391.7 |
| 40°   | 289.2 |
| 42.5° | 218.9 |
| 45°   | 180.8 |
| 47.5° | 160.1 |
| 50°   | 144.8 |
| 52.5° | 132.5 |
| 55°   | 121.9 |
| 57.5° | 113.1 |
| 60°   | 105.4 |
| 62.5° | 97.4  |
| 65°   | 86.4  |
| 67.5° | 74.5  |
| 70°   | 62.7  |
| 72.5° | 51.7  |
| 75°   | 41.1  |
| 77.5° | 31.8  |
| 80°   | 23.3  |
| 82.5° | 16.1  |
| 85°   | 9.3   |
| 87.5° | 3.4   |
| 90°   | 0.0   |

(END OF REPORT)