

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: P247092

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25264)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100930 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9566.6 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.22  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

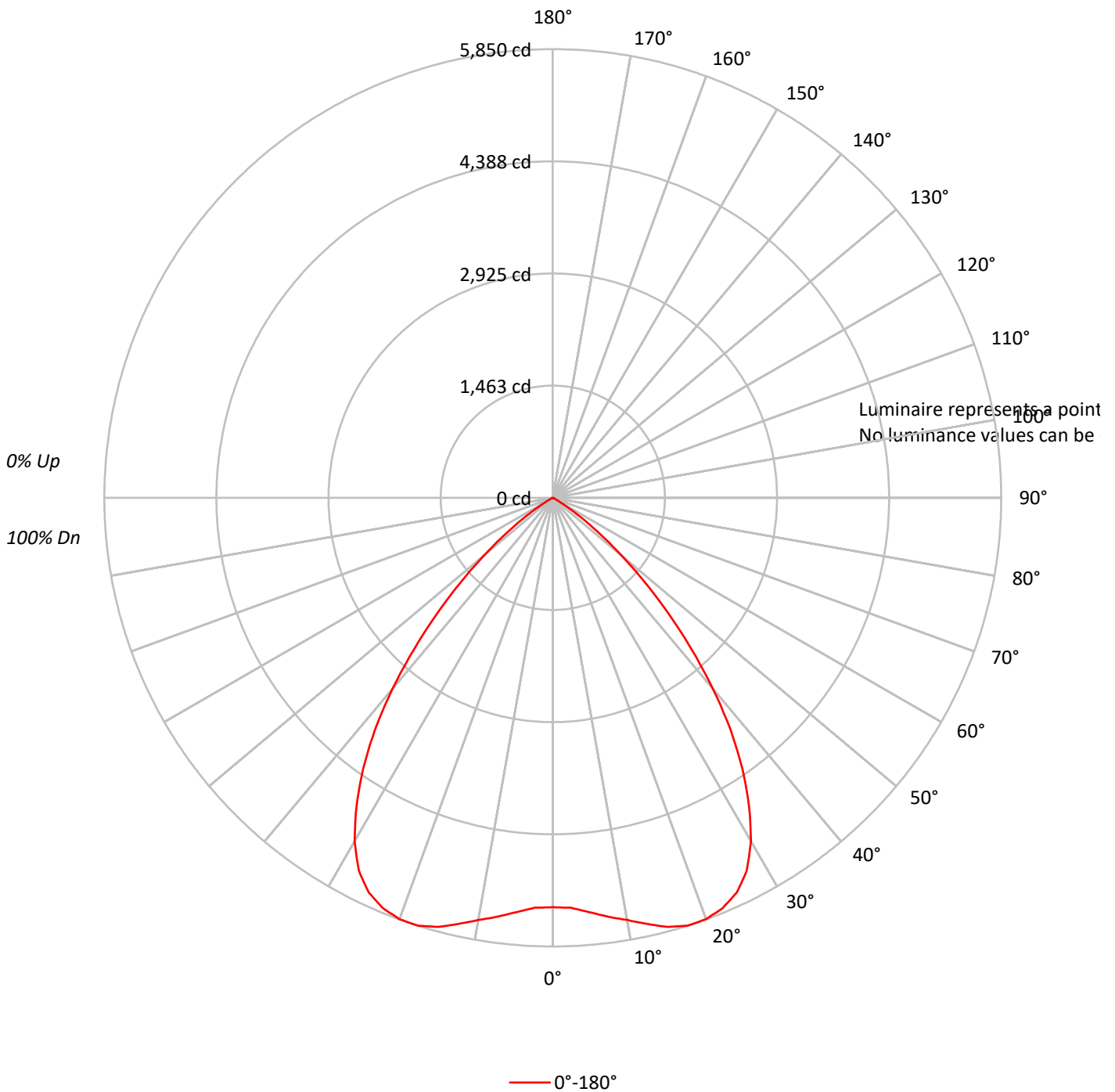
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





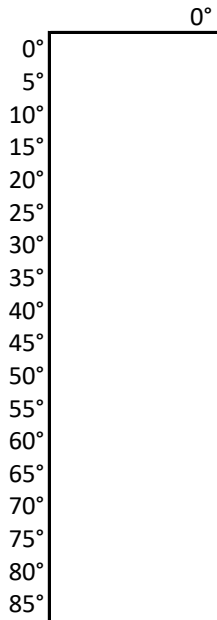
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |   |  |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|---|--|--|--|--|
| 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  | 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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 94  | 92  |    |    |    |    |    |    |    |    |   |  |  |  |  |
| 2   | 106 | 100 | 96  | 92  | 104 | 98  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |    |    |    |    |    |    |   |  |  |  |  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |    |    |    |    |    |    |   |  |  |  |  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 68  |    |    |    |    |    |    |    |    |   |  |  |  |  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 73  | 68  | 64  | 71  | 67  | 63  | 62  |    |    |    |    |    |    |    |    |   |  |  |  |  |
| 6   | 82  | 71  | 64  | 59  | 80  | 70  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 58  | 56  |    |    |    |    |    |    |    |    |   |  |  |  |  |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 58  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 51  |    |    |    |    |    |    |    |    |   |  |  |  |  |
| 8   | 72  | 61  | 54  | 49  | 71  | 60  | 54  | 49  | 59  | 53  | 49  | 58  | 52  | 48  | 57  | 52  | 48  | 47  |    |    |    |    |    |    |    |    |   |  |  |  |  |
| 9   | 68  | 56  | 50  | 45  | 66  | 56  | 49  | 45  | 55  | 49  | 45  | 54  | 48  | 45  | 53  | 48  | 44  | 43  |    |    |    |    |    |    |    |    |   |  |  |  |  |
| 10  | 64  | 53  | 46  | 41  | 63  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |    |    |    |    |    |    |   |  |  |  |  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 523.0  | 5.5       |
| 10°-20°   | 1637.6 | 17.1      |
| 20°-30°   | 2589.8 | 27.1      |
| 30°-40°   | 2661.1 | 27.8      |
| 40°-50°   | 1650.7 | 17.3      |
| 50°-60°   | 468.0  | 4.9       |
| 60°-70°   | 31.6   | 0.3       |
| 70°-80°   | 4.2    | 0.0       |
| 80°-90°   | 0.5    | 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°    | 4750.4 | 49.7      |
| 0°-40°    | 7411.5 | 77.5      |
| 0°-60°    | 9530.2 | 99.6      |
| 0°-90°    | 9566.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9566.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5338 |      |
| 5°  | 5422 | 523  |
| 15° | 5792 | 1638 |
| 25° | 5680 | 2590 |
| 35° | 4314 | 2661 |
| 45° | 2131 | 1651 |
| 55° | 468  | 468  |
| 65° | 19   | 32   |
| 75° | 4    | 4    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 5338.3 |
| 2.5°  | 5348.6 |
| 5°    | 5421.8 |
| 7.5°  | 5507.7 |
| 10°   | 5589.8 |
| 12.5° | 5691.0 |
| 15°   | 5792.3 |
| 17.5° | 5850.1 |
| 20°   | 5846.2 |
| 22.5° | 5789.7 |
| 25°   | 5679.5 |
| 27.5° | 5479.4 |
| 30°   | 5170.5 |
| 32.5° | 4763.9 |
| 35°   | 4313.8 |
| 37.5° | 3804.8 |
| 40°   | 3252.0 |
| 42.5° | 2677.5 |
| 45°   | 2131.2 |
| 47.5° | 1623.5 |
| 50°   | 1164.4 |
| 52.5° | 783.6  |
| 55°   | 468.1  |
| 57.5° | 241.1  |
| 60°   | 105.1  |
| 62.5° | 42.4   |
| 65°   | 19.2   |
| 67.5° | 11.5   |
| 70°   | 7.6    |
| 72.5° | 5.2    |
| 75°   | 3.9    |
| 77.5° | 2.6    |
| 80°   | 1.3    |
| 82.5° | 1.3    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)