

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: P247002

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBN0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-80)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80830 8LBN0LI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 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: 7662.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

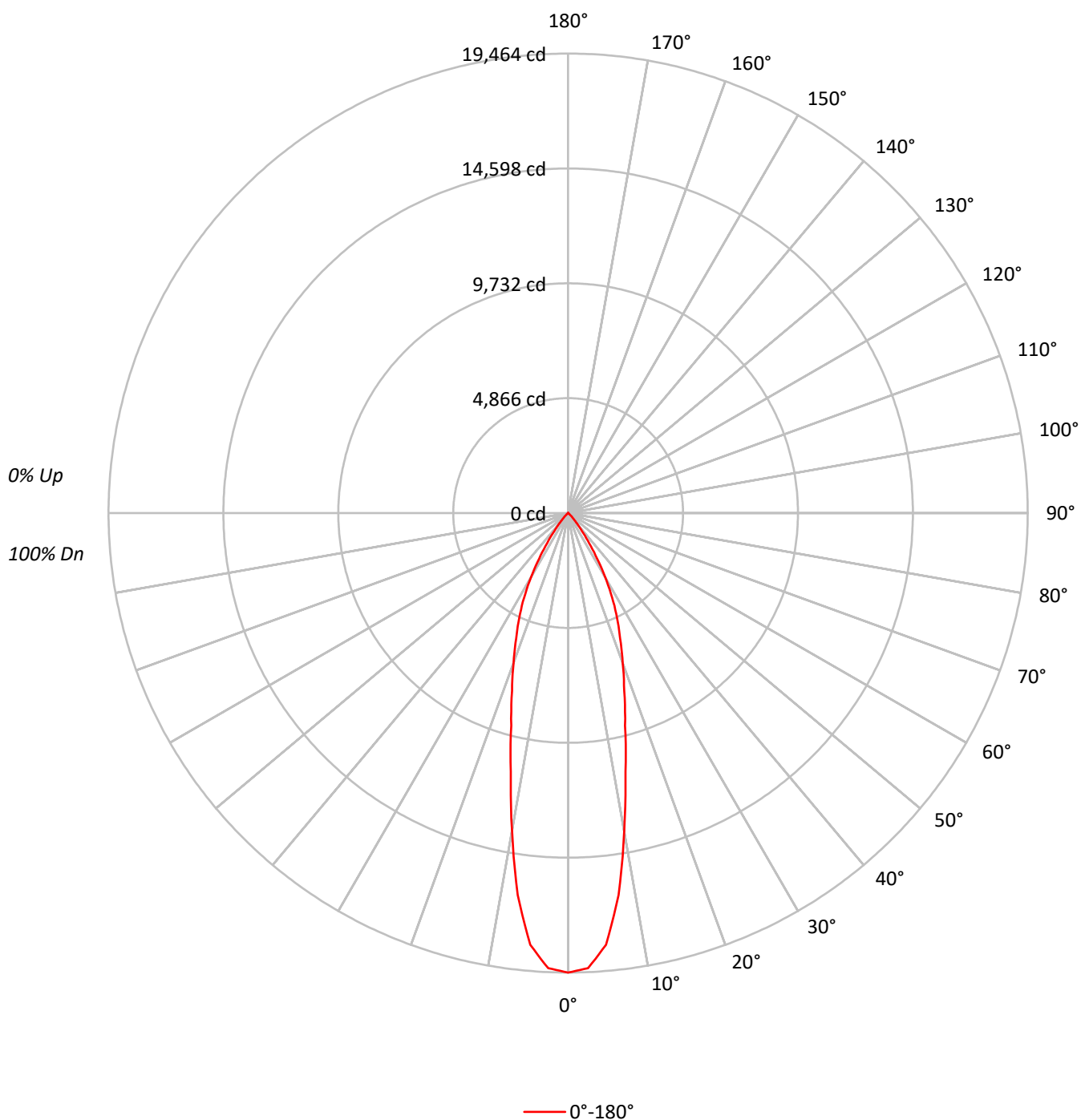
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 114 | 112 | 110 | 108 |  | 112 | 110 | 108 | 106 |  | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  | 95  |
| 2   | 110 | 105 | 102 | 99  |  | 107 | 104 | 100 | 98  |  | 100 | 98  | 96  |  | 98  | 95  | 94  |  | 95  | 93  | 92  | 90  |
| 3   | 105 | 100 | 95  | 92  |  | 103 | 98  | 94  | 91  |  | 96  | 92  | 90  |  | 93  | 91  | 88  |  | 91  | 89  | 87  | 85  |
| 4   | 101 | 94  | 90  | 86  |  | 99  | 93  | 89  | 85  |  | 91  | 87  | 84  |  | 89  | 86  | 83  |  | 87  | 85  | 83  | 81  |
| 5   | 97  | 90  | 85  | 81  |  | 95  | 89  | 84  | 80  |  | 87  | 83  | 80  |  | 85  | 82  | 79  |  | 84  | 81  | 78  | 77  |
| 6   | 93  | 85  | 80  | 76  |  | 91  | 84  | 80  | 76  |  | 83  | 79  | 76  |  | 82  | 78  | 75  |  | 80  | 77  | 75  | 73  |
| 7   | 89  | 81  | 76  | 72  |  | 88  | 81  | 76  | 72  |  | 79  | 75  | 72  |  | 78  | 74  | 72  |  | 77  | 74  | 71  | 70  |
| 8   | 86  | 78  | 72  | 69  |  | 85  | 77  | 72  | 69  |  | 76  | 72  | 69  |  | 75  | 71  | 68  |  | 74  | 71  | 68  | 67  |
| 9   | 82  | 74  | 69  | 66  |  | 81  | 74  | 69  | 66  |  | 73  | 69  | 65  |  | 72  | 68  | 65  |  | 71  | 68  | 65  | 64  |
| 10  | 79  | 71  | 66  | 63  |  | 79  | 71  | 66  | 63  |  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  | 65  | 62  | 61  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 600213 |
| 5°  | 568277 |
| 10° | 427982 |
| 15° | 297478 |
| 20° | 221756 |
| 25° | 166915 |
| 30° | 111613 |
| 35° | 58420  |
| 40° | 22566  |
| 45° | 8342   |
| 50° | 2120   |
| 55° | 414    |
| 60° | 62     |
| 65° | 212    |
| 70° | 261    |
| 75° | 0      |
| 80° | 0      |
| 85° | 354    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1596.4 | 20.8      |
| 10°-20°   | 2640.0 | 34.5      |
| 20°-30°   | 2225.7 | 29.0      |
| 30°-40°   | 1009.9 | 13.2      |
| 40°-50°   | 176.3  | 2.3       |
| 50°-60°   | 9.6    | 0.1       |
| 60°-70°   | 1.5    | 0.0       |
| 70°-80°   | 1.6    | 0.0       |
| 80°-90°   | 1.1    | 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°    | 6462.0 | 84.3      |
| 0°-40°    | 7472.0 | 97.5      |
| 0°-60°    | 7657.8 | 99.9      |
| 0°-90°    | 7662.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7662.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 19464 |      |
| 5°  | 18359 | ###  |
| 15° | 9318  | 2640 |
| 25° | 4906  | 2226 |
| 35° | 1552  | 1010 |
| 45° | 191   | 176  |
| 55° | 8     | 10   |
| 65° | 3     | 1    |
| 75° | 0     | 2    |
| 85° | 1     | 1    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 19464.5 |
| 2.5°  | 19292.3 |
| 5°    | 18358.7 |
| 7.5°  | 16325.0 |
| 10°   | 13668.3 |
| 12.5° | 11212.5 |
| 15°   | 9318.3  |
| 17.5° | 7895.2  |
| 20°   | 6757.7  |
| 22.5° | 5756.7  |
| 25°   | 4905.8  |
| 27.5° | 4040.4  |
| 30°   | 3134.6  |
| 32.5° | 2281.7  |
| 35°   | 1551.9  |
| 37.5° | 952.9   |
| 40°   | 560.6   |
| 42.5° | 328.8   |
| 45°   | 191.3   |
| 47.5° | 114.4   |
| 50°   | 44.2    |
| 52.5° | 6.7     |
| 55°   | 7.7     |
| 57.5° | 6.7     |
| 60°   | 1.0     |
| 62.5° | 1.0     |
| 65°   | 2.9     |
| 67.5° | 0.0     |
| 70°   | 2.9     |
| 72.5° | 4.8     |
| 75°   | 0.0     |
| 77.5° | 0.0     |
| 80°   | 0.0     |
| 82.5° | 0.0     |
| 85°   | 1.0     |
| 87.5° | 2.9     |
| 90°   | 0.0     |

(END OF REPORT)