

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: P244940

Luminaire Tested: **LSR8B20D010 EC8B209727 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-14)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B209727 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1624.0 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

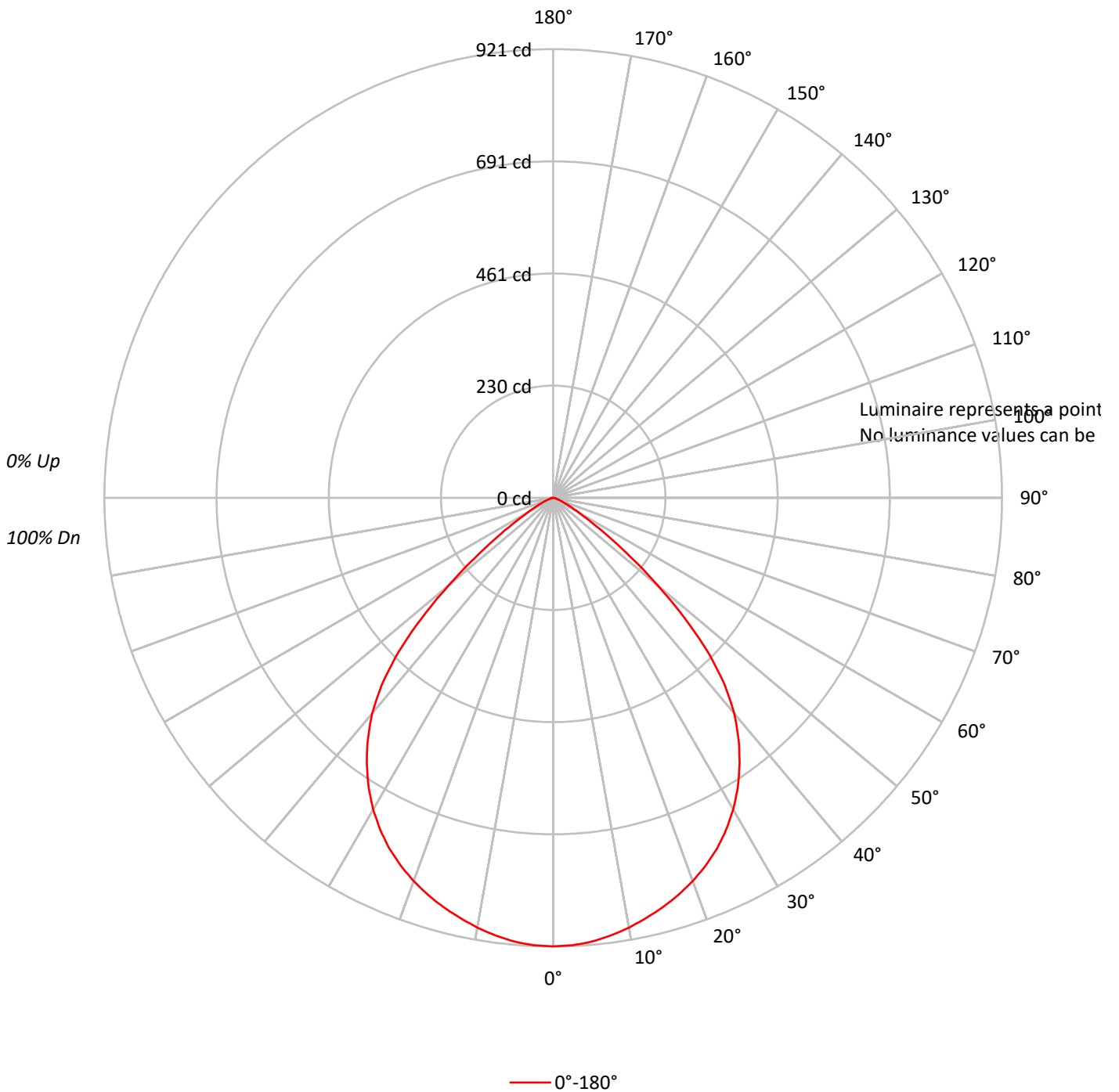
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244940

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBS0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P244940

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBS0WMH

**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 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 91  |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 94  | 90  | 86  | 90  | 87  | 85  | 88  | 85  | 83  | 81  |
| 3   | 98  | 90  | 83  | 78  | 95  | 88  | 82  | 78  | 85  | 80  | 76  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |
| 4   | 91  | 82  | 75  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 65  |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 67  | 61  | 71  | 65  | 61  | 70  | 64  | 60  | 68  | 63  | 60  | 58  |
| 6   | 79  | 68  | 61  | 55  | 77  | 67  | 60  | 55  | 66  | 59  | 55  | 64  | 58  | 54  | 63  | 58  | 54  | 52  |
| 7   | 74  | 63  | 55  | 50  | 72  | 62  | 55  | 50  | 60  | 54  | 49  | 59  | 53  | 49  | 58  | 53  | 49  | 47  |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  | 55  | 49  | 45  | 54  | 48  | 45  | 43  |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 46  | 41  | 37  | 36  |

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





TEST NUMBER: P244940

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBS0WMH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.7   | 5.3       |
| 10°-20°   | 245.4  | 15.1      |
| 20°-30°   | 365.3  | 22.5      |
| 30°-40°   | 415.0  | 25.6      |
| 40°-50°   | 339.2  | 20.9      |
| 50°-60°   | 132.9  | 8.2       |
| 60°-70°   | 31.0   | 1.9       |
| 70°-80°   | 7.4    | 0.5       |
| 80°-90°   | 1.2    | 0.1       |
| 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°    | 697.3  | 42.9      |
| 0°-40°    | 1112.3 | 68.5      |
| 0°-60°    | 1584.4 | 97.6      |
| 0°-90°    | 1624.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1624.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 921 |      |
| 5°  | 914 | 87   |
| 15° | 870 | 245  |
| 25° | 795 | 365  |
| 35° | 667 | 415  |
| 45° | 450 | 339  |
| 55° | 138 | 133  |
| 65° | 29  | 31   |
| 75° | 7   | 7    |
| 85° | 1   | 1    |
| 90° | 0   |      |



TEST NUMBER: P244940

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBS0WMH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 920.8 |
| 2.5°  | 919.3 |
| 5°    | 914.4 |
| 7.5°  | 906.1 |
| 10°   | 895.9 |
| 12.5° | 883.2 |
| 15°   | 870.0 |
| 17.5° | 854.4 |
| 20°   | 837.3 |
| 22.5° | 817.2 |
| 25°   | 794.8 |
| 27.5° | 768.4 |
| 30°   | 738.6 |
| 32.5° | 704.9 |
| 35°   | 666.8 |
| 37.5° | 624.8 |
| 40°   | 577.9 |
| 42.5° | 521.2 |
| 45°   | 450.4 |
| 47.5° | 367.3 |
| 50°   | 280.9 |
| 52.5° | 201.7 |
| 55°   | 138.2 |
| 57.5° | 90.4  |
| 60°   | 60.6  |
| 62.5° | 41.5  |
| 65°   | 28.8  |
| 67.5° | 19.1  |
| 70°   | 12.7  |
| 72.5° | 8.8   |
| 75°   | 6.8   |
| 77.5° | 4.9   |
| 80°   | 2.9   |
| 82.5° | 1.5   |
| 85°   | 1.0   |
| 87.5° | 0.5   |
| 90°   | 0.0   |

(END OF REPORT)