

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: P250032

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBNOWMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B1209730 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8002.0 lumens  
Efficiency: N/A  
Efficacy: 67.6 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

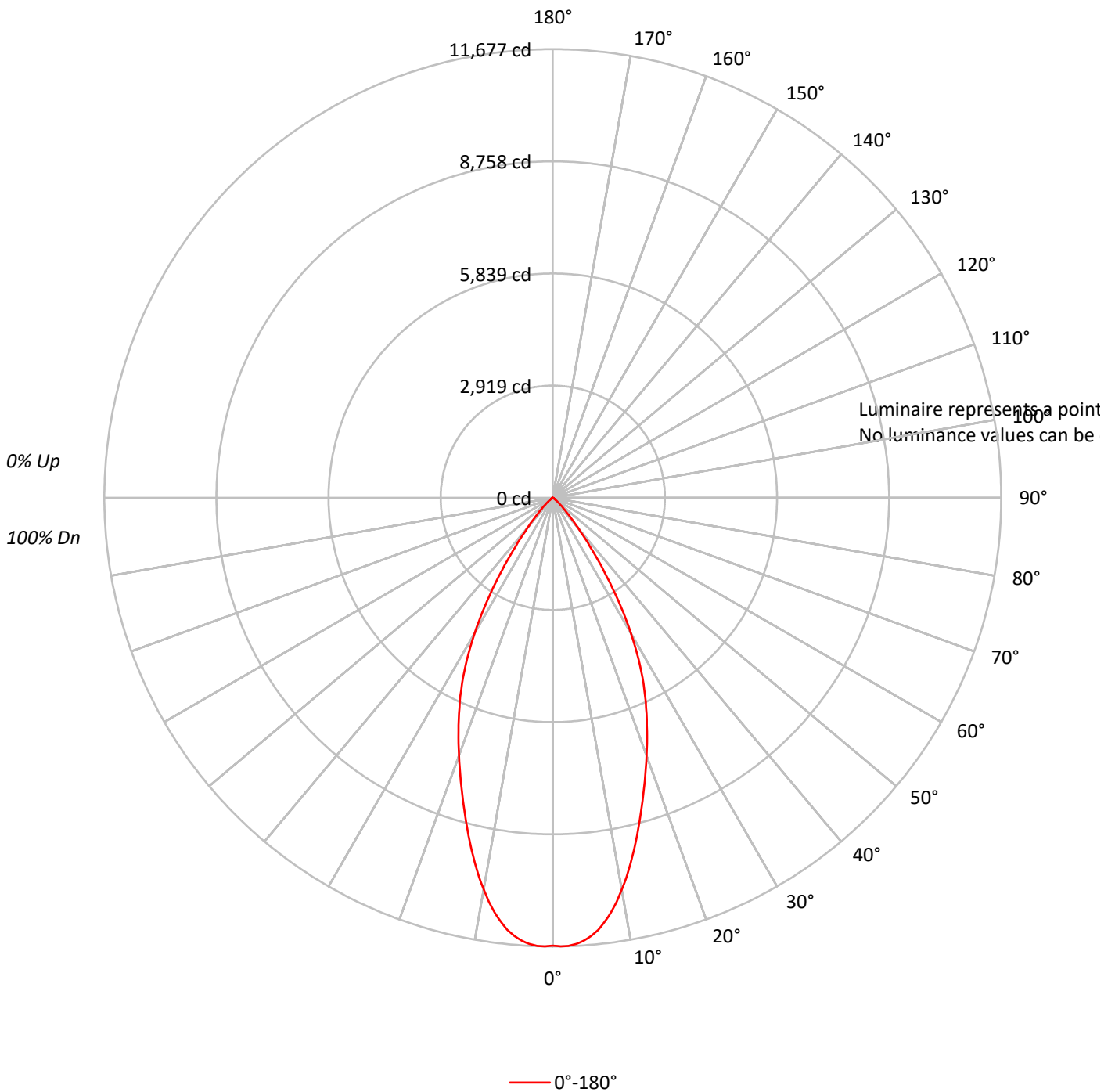
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250032

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBN0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P250032

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBN0WMH

**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 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2   | 108 | 104 | 100 | 97  | 106 | 102 | 99  | 96  | 99  | 96  | 93  | 96  | 94  | 91  | 93  | 91  | 90  | 88  |
| 3   | 103 | 97  | 92  | 89  | 101 | 96  | 91  | 88  | 93  | 89  | 86  | 91  | 88  | 85  | 89  | 86  | 84  | 82  |
| 4   | 98  | 91  | 86  | 82  | 97  | 90  | 85  | 81  | 88  | 84  | 80  | 86  | 82  | 79  | 84  | 81  | 79  | 77  |
| 5   | 94  | 86  | 80  | 76  | 92  | 85  | 80  | 76  | 83  | 78  | 75  | 81  | 77  | 74  | 80  | 76  | 74  | 72  |
| 6   | 89  | 81  | 75  | 71  | 88  | 80  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 68  |
| 7   | 85  | 76  | 71  | 67  | 84  | 76  | 70  | 66  | 74  | 70  | 66  | 73  | 69  | 66  | 72  | 68  | 65  | 64  |
| 8   | 81  | 72  | 66  | 63  | 80  | 72  | 66  | 62  | 71  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 60  |
| 9   | 78  | 68  | 63  | 59  | 77  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 58  | 65  | 61  | 58  | 57  |
| 10  | 74  | 65  | 59  | 56  | 73  | 65  | 59  | 56  | 64  | 59  | 56  | 63  | 59  | 55  | 62  | 58  | 55  | 54  |

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





TEST NUMBER: P250032

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBN0WMH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1057.8 | 13.2      |
| 10°-20°   | 2427.1 | 30.3      |
| 20°-30°   | 2578.5 | 32.2      |
| 30°-40°   | 1471.1 | 18.4      |
| 40°-50°   | 364.8  | 4.6       |
| 50°-60°   | 71.7   | 0.9       |
| 60°-70°   | 21.7   | 0.3       |
| 70°-80°   | 5.1    | 0.1       |
| 80°-90°   | 4.2    | 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°    | 6063.4 | 75.8      |
| 0°-40°    | 7534.5 | 94.2      |
| 0°-60°    | 7971.0 | 99.6      |
| 0°-90°    | 8002.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8002.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 11655 |      |
| 5°  | 11449 | ###  |
| 15° | 8720  | 2427 |
| 25° | 5692  | 2578 |
| 35° | 2300  | 1471 |
| 45° | 412   | 365  |
| 55° | 67    | 72   |
| 65° | 17    | 22   |
| 75° | 0     | 5    |
| 85° | 6     | 4    |
| 90° | 0     |      |



TEST NUMBER: P250032

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBN0WMH

**CANDELA DISTRIBUTION (FULL):**

| 0°    |         |
|-------|---------|
| 0°    | 11655.1 |
| 1°    | 11677.4 |
| 2°    | 11669.1 |
| 3°    | 11627.3 |
| 4°    | 11554.9 |
| 5°    | 11449.0 |
| 6°    | 11309.9 |
| 7°    | 11117.6 |
| 8°    | 10897.6 |
| 9°    | 10638.7 |
| 10°   | 10354.5 |
| 11°   | 10053.8 |
| 12°   | 9730.7  |
| 13°   | 9402.1  |
| 14°   | 9065.1  |
| 15°   | 8719.7  |
| 16°   | 8393.9  |
| 17°   | 8065.3  |
| 18°   | 7756.1  |
| 19°   | 7441.5  |
| 20°   | 7143.5  |
| 22.5° | 6405.4  |
| 25°   | 5692.4  |
| 27.5° | 4926.7  |
| 30°   | 4080.0  |
| 32.5° | 3172.0  |
| 35°   | 2300.4  |
| 37.5° | 1584.6  |
| 40°   | 1024.9  |
| 42.5° | 649.0   |
| 45°   | 412.2   |
| 47.5° | 270.2   |
| 50°   | 169.9   |
| 52.5° | 103.1   |
| 55°   | 66.8    |
| 57.5° | 52.9    |
| 60°   | 33.4    |
| 62.5° | 30.6    |
| 65°   | 16.8    |
| 67.5° | 16.8    |
| 70°   | 14.0    |
| 72.5° | 8.4     |
| 75°   | 0.0     |
| 77.5° | 2.8     |
| 80°   | 2.8     |



TEST NUMBER: P250032

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBN0WMH

**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 82.5° | 5.6 |
| 85°   | 5.6 |
| 87.5° | 2.8 |
| 90°   | 0.0 |

(END OF REPORT)