

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: P246742

Luminaire Tested: **LSR8B40D010 EC8B40927 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246742  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40927 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3453.7 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

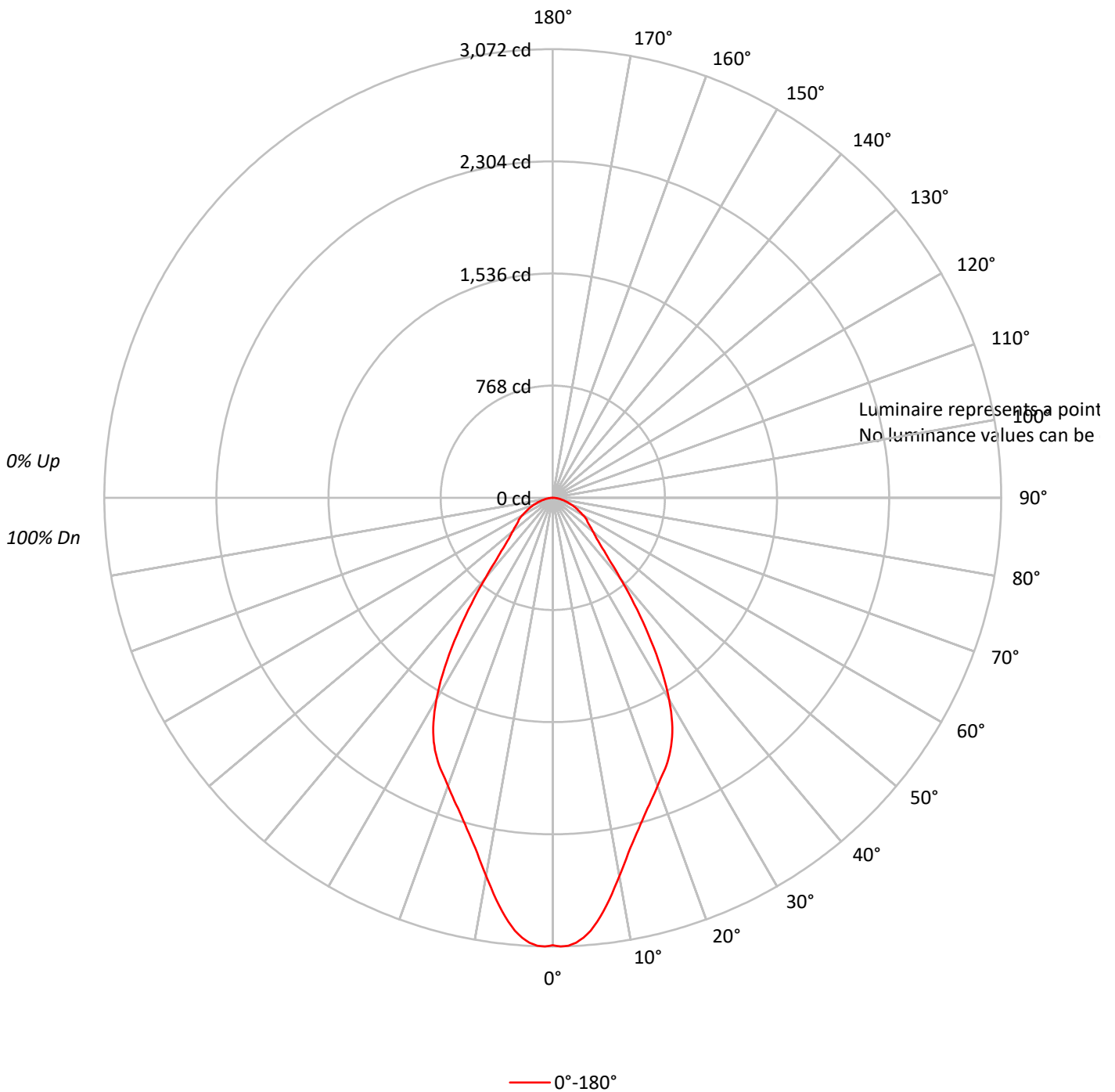
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  |  | 98  | 96  | 94  |  | 94  | 93  | 91  | 89  |
| 2   | 104 | 98  | 93  | 88  | 102 | 96  | 91  | 87  | 93  | 89  | 85  |  | 90  | 86  | 83  |  | 87  | 84  | 82  | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  |  | 82  | 78  | 75  |  | 80  | 76  | 73  | 71  |
| 4   | 91  | 82  | 75  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 66  | 65  |
| 5   | 85  | 75  | 68  | 63  | 83  | 74  | 67  | 62  | 72  | 66  | 62  |  | 70  | 65  | 61  |  | 69  | 64  | 60  | 59  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 55  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  |  | 61  | 55  | 51  |  | 60  | 55  | 51  | 49  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 53  | 48  | 58  | 52  | 48  |  | 57  | 51  | 47  |  | 56  | 51  | 47  | 46  |
| 9   | 67  | 56  | 49  | 44  | 66  | 56  | 49  | 44  | 54  | 48  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 44  | 42  |
| 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°    | 272.3  | 7.9       |
| 10°-20°   | 653.5  | 18.9      |
| 20°-30°   | 866.0  | 25.1      |
| 30°-40°   | 710.1  | 20.6      |
| 40°-50°   | 378.3  | 11.0      |
| 50°-60°   | 266.2  | 7.7       |
| 60°-70°   | 183.6  | 5.3       |
| 70°-80°   | 95.6   | 2.8       |
| 80°-90°   | 28.2   | 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°    | 1791.7 | 51.9      |
| 0°-40°    | 2501.8 | 72.4      |
| 0°-60°    | 3146.3 | 91.1      |
| 0°-90°    | 3453.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3453.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3064 |      |
| 5°  | 2975 | 272  |
| 15° | 2317 | 653  |
| 25° | 1907 | 866  |
| 35° | 1142 | 710  |
| 45° | 467  | 378  |
| 55° | 293  | 266  |
| 65° | 184  | 184  |
| 75° | 91   | 96   |
| 85° | 26   | 28   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 3063.8 |
| 1°    | 3072.5 |
| 2°    | 3068.8 |
| 3°    | 3050.5 |
| 4°    | 3019.5 |
| 5°    | 2974.7 |
| 6°    | 2918.8 |
| 7°    | 2851.6 |
| 8°    | 2779.6 |
| 9°    | 2703.0 |
| 10°   | 2629.0 |
| 11°   | 2558.1 |
| 12°   | 2486.1 |
| 13°   | 2426.1 |
| 14°   | 2369.1 |
| 15°   | 2317.2 |
| 16°   | 2268.2 |
| 17°   | 2223.1 |
| 18°   | 2181.3 |
| 19°   | 2139.4 |
| 20°   | 2099.4 |
| 21°   | 2060.2 |
| 22°   | 2026.2 |
| 23°   | 1991.5 |
| 24°   | 1950.5 |
| 25°   | 1907.4 |
| 26°   | 1858.6 |
| 27°   | 1803.5 |
| 28°   | 1741.5 |
| 29°   | 1672.6 |
| 30°   | 1593.6 |
| 31°   | 1510.8 |
| 32°   | 1423.8 |
| 33°   | 1331.0 |
| 34°   | 1237.8 |
| 35°   | 1142.2 |
| 37.5° | 915.2  |
| 40°   | 717.4  |
| 42.5° | 566.6  |
| 45°   | 466.8  |
| 47.5° | 400.8  |
| 50°   | 359.8  |
| 52.5° | 323.9  |
| 55°   | 292.7  |
| 57.5° | 273.7  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    |
|-------|-------|
| 60°   | 241.9 |
| 62.5° | 210.8 |
| 65°   | 183.9 |
| 67.5° | 160.0 |
| 70°   | 133.9 |
| 72.5° | 111.8 |
| 75°   | 91.1  |
| 77.5° | 65.9  |
| 80°   | 53.8  |
| 82.5° | 38.9  |
| 85°   | 26.0  |
| 87.5° | 12.0  |
| 90°   | 0.0   |

(END OF REPORT)