

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: CORELITE

Report Number: P412504

Luminaire Tested: **24PD-35-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-35-PB1-L940  
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

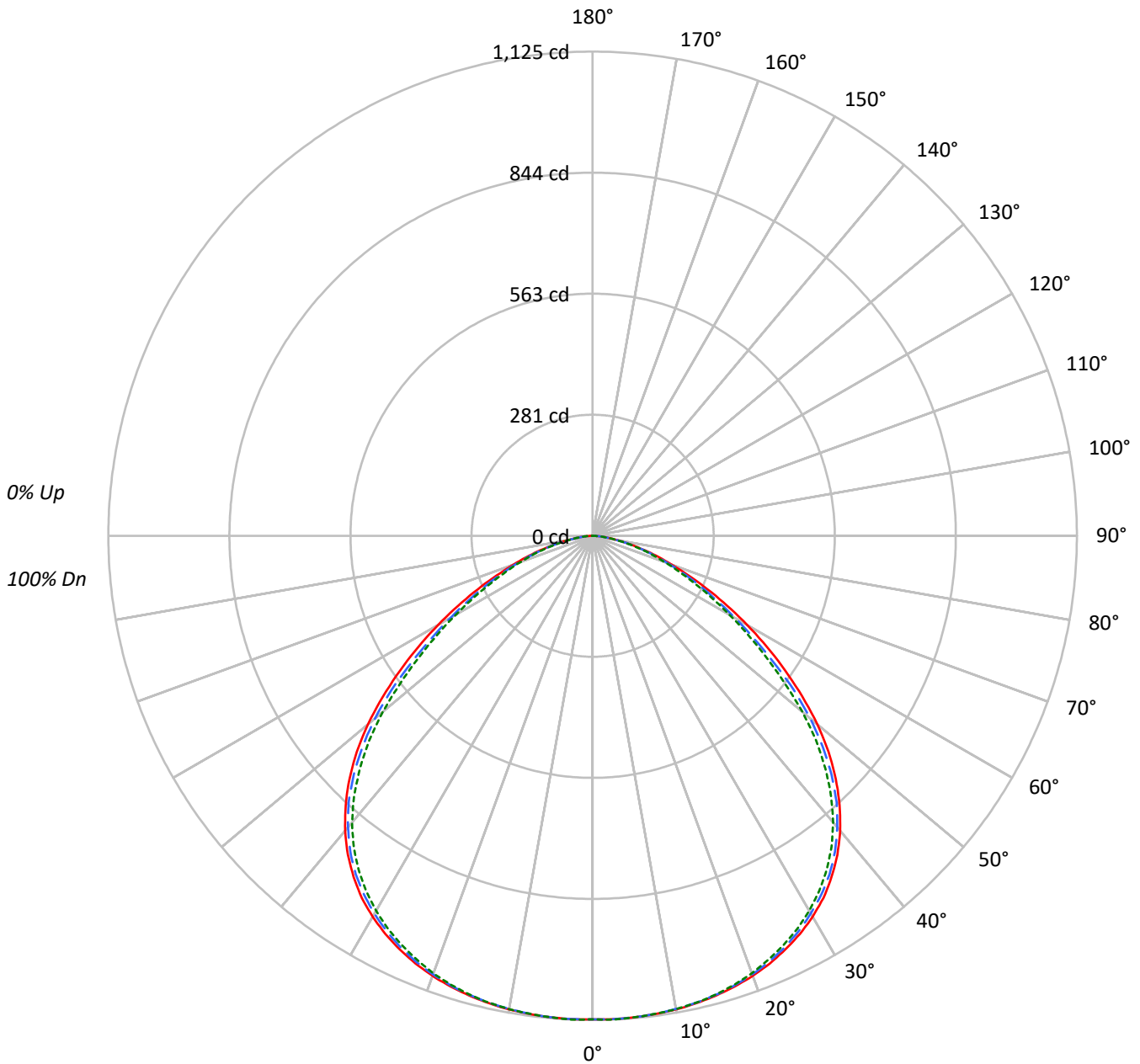
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2990.0 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 25.3  
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

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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 | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    | 100 |
| 1   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  |     |    |    | 86  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  |     |    |    | 73  |
| 3   | 92  | 83  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 69  | 65  |     |    |    | 63  |
| 4   | 85  | 74  | 65  | 59  | 83  | 72  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 65  | 60  | 56  |     |    |    | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 56  | 50  | 61  | 55  | 50  | 59  | 54  | 49  |     |    |    | 47  |
| 6   | 72  | 60  | 51  | 45  | 70  | 59  | 51  | 45  | 57  | 50  | 44  | 55  | 49  | 44  | 54  | 48  | 43  |     |    |    | 41  |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 40  | 52  | 45  | 39  | 50  | 44  | 39  | 49  | 43  | 39  |     |    |    | 37  |
| 8   | 63  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  |     |    |    | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  |     |    |    | 30  |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 39  | 33  | 29  |     |    |    | 27  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1512 | 1512 | 1512 |
| 5°  | 1517 | 1517 | 1517 |
| 10° | 1527 | 1525 | 1526 |
| 15° | 1541 | 1539 | 1537 |
| 20° | 1558 | 1553 | 1549 |
| 25° | 1574 | 1567 | 1558 |
| 30° | 1588 | 1575 | 1563 |
| 35° | 1590 | 1576 | 1557 |
| 40° | 1571 | 1553 | 1527 |
| 45° | 1521 | 1493 | 1454 |
| 50° | 1426 | 1382 | 1331 |
| 55° | 1281 | 1205 | 1156 |
| 60° | 1116 | 1027 | 987  |
| 65° | 939  | 869  | 831  |
| 70° | 765  | 726  | 697  |
| 75° | 613  | 592  | 567  |
| 80° | 471  | 434  | 422  |
| 85° | 295  | 286  | 286  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 107.0  | 3.6       |
| 10°-20°   | 312.3  | 10.4      |
| 20°-30°   | 486.5  | 16.3      |
| 30°-40°   | 598.4  | 20.0      |
| 40°-50°   | 601.1  | 20.1      |
| 50°-60°   | 463.3  | 15.5      |
| 60°-70°   | 275.0  | 9.2       |
| 70°-80°   | 122.5  | 4.1       |
| 80°-90°   | 23.9   | 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°    | 905.7  | 30.3      |
| 0°-40°    | 1504.2 | 50.3      |
| 0°-60°    | 2568.6 | 85.9      |
| 0°-90°    | 2990.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2990.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1124 | 1124  | 1124 | 1124  | 1124 |      |
| 5°  | 1123 | 1123  | 1123 | 1122  | 1123 | 107  |
| 15° | 1106 | 1106  | 1105 | 1103  | 1104 | 313  |
| 25° | 1060 | 1060  | 1055 | 1050  | 1049 | 489  |
| 35° | 968  | 966   | 960  | 952   | 948  | 604  |
| 45° | 799  | 797   | 784  | 771   | 764  | 613  |
| 55° | 546  | 536   | 514  | 498   | 493  | 488  |
| 65° | 295  | 282   | 273  | 262   | 261  | 295  |
| 75° | 118  | 116   | 114  | 110   | 109  | 128  |
| 85° | 19   | 18    | 18   | 18    | 18   | 25   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1123.7 | 1123.7 | 1123.7 | 1123.7 | 1123.7 |
| 2.5°  | 1124.3 | 1124.0 | 1124.0 | 1122.8 | 1125.2 |
| 5°    | 1123.1 | 1123.4 | 1123.1 | 1121.9 | 1123.1 |
| 7.5°  | 1120.7 | 1121.0 | 1120.4 | 1119.2 | 1120.4 |
| 10°   | 1117.7 | 1117.7 | 1116.5 | 1115.9 | 1116.8 |
| 12.5° | 1112.7 | 1112.7 | 1111.5 | 1110.6 | 1111.5 |
| 15°   | 1106.1 | 1106.1 | 1104.6 | 1102.8 | 1103.7 |
| 17.5° | 1098.1 | 1098.1 | 1095.7 | 1093.3 | 1093.9 |
| 20°   | 1088.2 | 1087.9 | 1084.7 | 1081.4 | 1081.7 |
| 22.5° | 1075.7 | 1075.4 | 1071.3 | 1067.4 | 1066.2 |
| 25°   | 1060.5 | 1060.2 | 1055.2 | 1050.4 | 1049.2 |
| 27.5° | 1043.0 | 1041.8 | 1036.1 | 1030.8 | 1029.6 |
| 30°   | 1022.1 | 1021.2 | 1013.8 | 1008.4 | 1006.0 |
| 32.5° | 998.0  | 995.6  | 988.8  | 982.2  | 978.9  |
| 35°   | 967.9  | 966.4  | 959.6  | 951.5  | 947.7  |
| 37.5° | 934.0  | 932.5  | 925.0  | 916.1  | 911.6  |
| 40°   | 894.7  | 893.5  | 884.2  | 875.0  | 869.3  |
| 42.5° | 849.4  | 848.5  | 838.7  | 825.9  | 819.9  |
| 45°   | 799.1  | 797.0  | 784.5  | 771.4  | 764.2  |
| 47.5° | 743.1  | 739.5  | 724.3  | 711.8  | 704.0  |
| 50°   | 681.1  | 676.4  | 660.0  | 643.9  | 635.8  |
| 52.5° | 614.1  | 605.8  | 588.8  | 570.3  | 562.6  |
| 55°   | 546.2  | 535.8  | 513.7  | 498.3  | 492.6  |
| 57.5° | 479.8  | 464.6  | 443.8  | 432.7  | 427.1  |
| 60°   | 414.6  | 397.9  | 381.5  | 370.8  | 366.9  |
| 62.5° | 352.3  | 338.3  | 324.3  | 313.6  | 311.2  |
| 65°   | 294.8  | 282.0  | 272.8  | 262.4  | 260.9  |
| 67.5° | 241.2  | 235.3  | 226.9  | 218.0  | 216.8  |
| 70°   | 194.5  | 192.1  | 184.6  | 179.3  | 177.2  |
| 72.5° | 155.2  | 152.8  | 147.4  | 143.5  | 143.0  |
| 75°   | 117.9  | 115.6  | 113.8  | 109.9  | 109.0  |
| 77.5° | 84.0   | 84.3   | 82.8   | 80.7   | 81.3   |
| 80°   | 60.8   | 57.2   | 56.0   | 54.8   | 54.5   |
| 82.5° | 37.2   | 35.1   | 34.2   | 34.0   | 34.5   |
| 85°   | 19.1   | 18.2   | 18.5   | 17.6   | 18.5   |
| 87.5° | 6.6    | 6.6    | 6.8    | 6.6    | 7.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)