

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: P412507

Luminaire Tested: **24PD-40-PB1-L835**

Issue Date: 9/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412507  
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-40-PB1-L835  
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

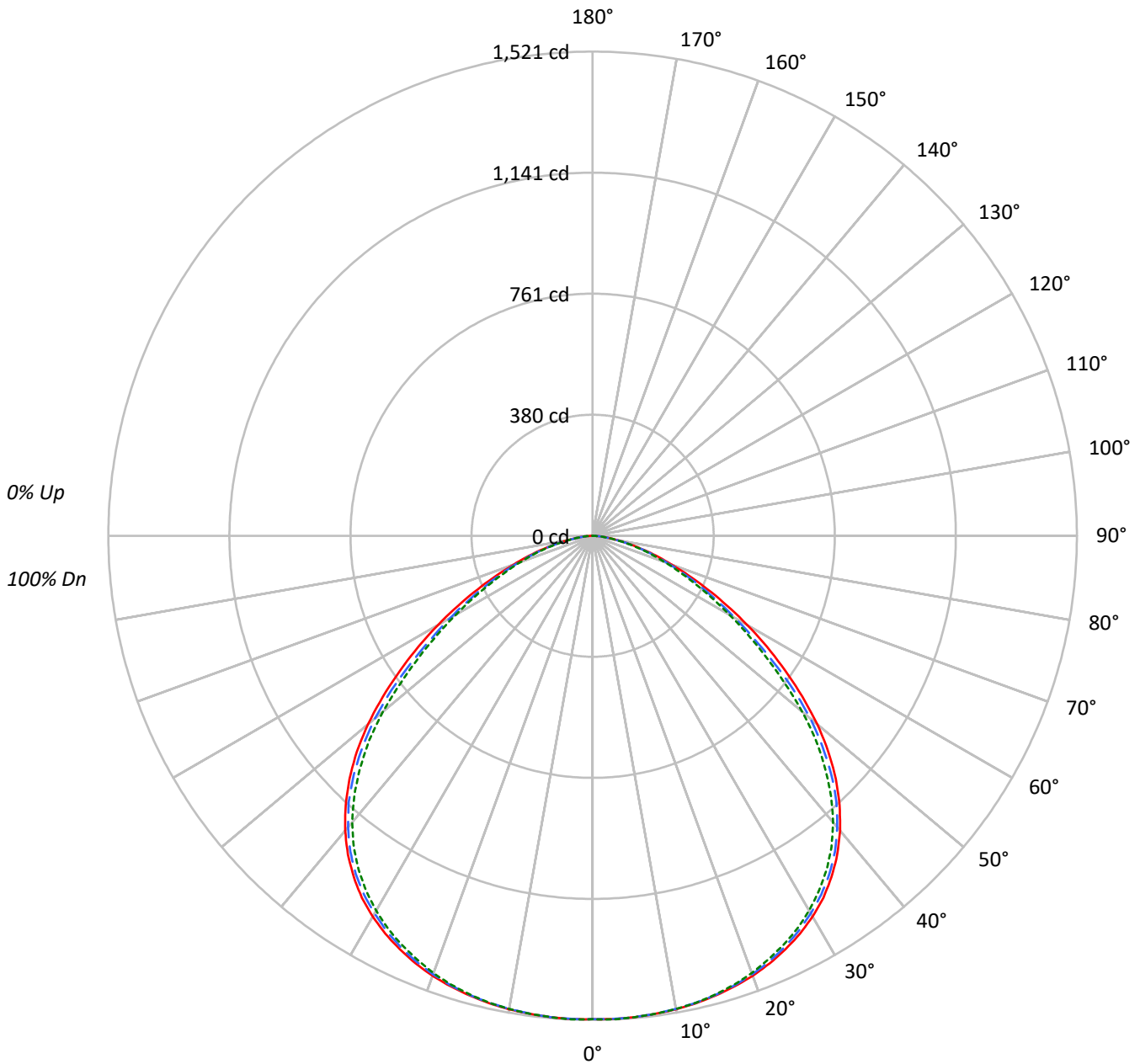
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4041.0 lumens  
Efficiency: N/A  
Efficacy: 137.4 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): 29.4  
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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 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°  | 2043 | 2043 | 2043 |
| 5°  | 2050 | 2050 | 2050 |
| 10° | 2064 | 2062 | 2062 |
| 15° | 2082 | 2080 | 2078 |
| 20° | 2106 | 2099 | 2093 |
| 25° | 2128 | 2117 | 2105 |
| 30° | 2146 | 2129 | 2112 |
| 35° | 2149 | 2130 | 2104 |
| 40° | 2124 | 2099 | 2064 |
| 45° | 2055 | 2017 | 1965 |
| 50° | 1927 | 1867 | 1799 |
| 55° | 1732 | 1629 | 1562 |
| 60° | 1508 | 1387 | 1334 |
| 65° | 1269 | 1174 | 1123 |
| 70° | 1034 | 982  | 942  |
| 75° | 829  | 800  | 766  |
| 80° | 636  | 587  | 571  |
| 85° | 398  | 386  | 386  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 144.6  | 3.6       |
| 10°-20°   | 422.0  | 10.4      |
| 20°-30°   | 657.5  | 16.3      |
| 30°-40°   | 808.8  | 20.0      |
| 40°-50°   | 812.4  | 20.1      |
| 50°-60°   | 626.1  | 15.5      |
| 60°-70°   | 371.7  | 9.2       |
| 70°-80°   | 165.5  | 4.1       |
| 80°-90°   | 32.3   | 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°    | 1224.1 | 30.3      |
| 0°-40°    | 2032.9 | 50.3      |
| 0°-60°    | 3471.4 | 85.9      |
| 0°-90°    | 4041.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4041.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1519 | 1519  | 1519 | 1519  | 1519 |      |
| 5°  | 1518 | 1518  | 1518 | 1516  | 1518 | 145  |
| 15° | 1495 | 1495  | 1493 | 1490  | 1492 | 423  |
| 25° | 1433 | 1433  | 1426 | 1420  | 1418 | 661  |
| 35° | 1308 | 1306  | 1297 | 1286  | 1281 | 817  |
| 45° | 1080 | 1077  | 1060 | 1042  | 1033 | 829  |
| 55° | 738  | 724   | 694  | 673   | 666  | 660  |
| 65° | 398  | 381   | 369  | 355   | 353  | 398  |
| 75° | 159  | 156   | 154  | 148   | 147  | 173  |
| 85° | 26   | 25    | 25   | 24    | 25   | 34   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 |
| 2.5°  | 1519.5 | 1519.1 | 1519.1 | 1517.5 | 1520.7 |
| 5°    | 1517.9 | 1518.3 | 1517.9 | 1516.2 | 1517.9 |
| 7.5°  | 1514.6 | 1515.0 | 1514.2 | 1512.6 | 1514.2 |
| 10°   | 1510.6 | 1510.6 | 1509.0 | 1508.2 | 1509.4 |
| 12.5° | 1503.8 | 1503.8 | 1502.2 | 1500.9 | 1502.2 |
| 15°   | 1494.9 | 1494.9 | 1492.9 | 1490.5 | 1491.7 |
| 17.5° | 1484.0 | 1484.0 | 1480.8 | 1477.6 | 1478.4 |
| 20°   | 1470.8 | 1470.4 | 1465.9 | 1461.5 | 1461.9 |
| 22.5° | 1453.9 | 1453.5 | 1447.8 | 1442.6 | 1441.0 |
| 25°   | 1433.3 | 1432.9 | 1426.1 | 1419.6 | 1418.0 |
| 27.5° | 1409.6 | 1408.0 | 1400.3 | 1393.1 | 1391.5 |
| 30°   | 1381.4 | 1380.2 | 1370.1 | 1362.9 | 1359.7 |
| 32.5° | 1348.8 | 1345.6 | 1336.3 | 1327.5 | 1323.0 |
| 35°   | 1308.1 | 1306.1 | 1296.9 | 1286.0 | 1280.8 |
| 37.5° | 1262.3 | 1260.2 | 1250.2 | 1238.1 | 1232.1 |
| 40°   | 1209.1 | 1207.5 | 1195.0 | 1182.6 | 1174.9 |
| 42.5° | 1148.0 | 1146.7 | 1133.5 | 1116.2 | 1108.1 |
| 45°   | 1079.9 | 1077.1 | 1060.2 | 1042.5 | 1032.8 |
| 47.5° | 1004.3 | 999.4  | 978.9  | 962.0  | 951.5  |
| 50°   | 920.5  | 914.1  | 892.0  | 870.2  | 859.4  |
| 52.5° | 830.0  | 818.7  | 795.8  | 770.8  | 760.3  |
| 55°   | 738.2  | 724.1  | 694.3  | 673.4  | 665.7  |
| 57.5° | 648.4  | 627.9  | 599.7  | 584.8  | 577.2  |
| 60°   | 560.3  | 537.7  | 515.6  | 501.1  | 495.9  |
| 62.5° | 476.2  | 457.2  | 438.3  | 423.8  | 420.6  |
| 65°   | 398.5  | 381.2  | 368.7  | 354.6  | 352.6  |
| 67.5° | 326.0  | 318.0  | 306.7  | 294.6  | 293.0  |
| 70°   | 262.8  | 259.6  | 249.6  | 242.3  | 239.5  |
| 72.5° | 209.7  | 206.5  | 199.2  | 194.0  | 193.2  |
| 75°   | 159.4  | 156.2  | 153.8  | 148.5  | 147.3  |
| 77.5° | 113.5  | 113.9  | 111.9  | 109.1  | 109.9  |
| 80°   | 82.1   | 77.3   | 75.7   | 74.1   | 73.7   |
| 82.5° | 50.3   | 47.5   | 46.3   | 45.9   | 46.7   |
| 85°   | 25.8   | 24.6   | 25.0   | 23.7   | 25.0   |
| 87.5° | 8.9    | 8.9    | 9.3    | 8.9    | 9.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)