

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1471797

Luminaire Tested: 24PTR-40S-PL1-L835-UNV-STD-B

Issue Date: 6/22/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1471797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/22/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-40S-PL1-L835-UNV-STD-B  
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PL1 Lens Black Recess  
Frame  
Light Source: -  
Ballast/Driver: -

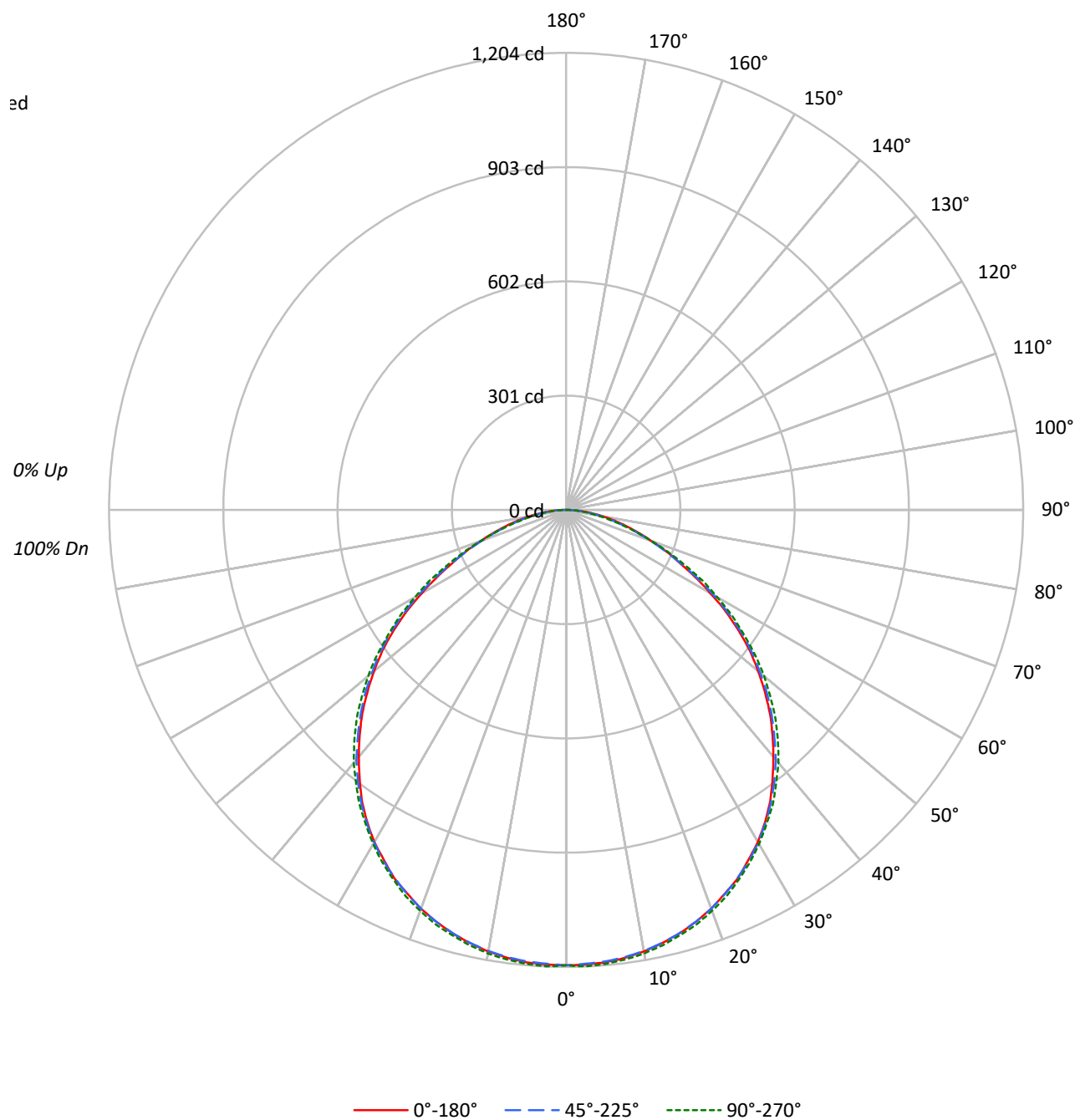
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3162.4 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 30.3  
Input Voltage (V): 120  
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: 24 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  |     |     |  |  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 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 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  |  | 98  | 95  | 93  |  |  | 94  | 92  | 90  |  |  | 91  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  |  | 87  | 82  | 77  |  |  | 83  | 79  | 75  |  |  | 80  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  |  | 77  | 70  | 65  |  |  | 74  | 69  | 64  |  |  | 71  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  |  | 68  | 61  | 56  |  |  | 66  | 60  | 55  |  |  | 64  |
| 5   | 77  | 65  | 56  | 49  | 75  | 64  | 55  | 49  |  | 61  | 54  | 49  |  |  | 60  | 53  | 48  |  |  | 58  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  |  | 56  | 48  | 43  |  |  | 54  | 47  | 42  |  |  | 52  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  |  | 51  | 43  | 38  |  |  | 49  | 43  | 38  |  |  | 48  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  |  | 46  | 39  | 34  |  |  | 45  | 39  | 34  |  |  | 44  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  |  | 43  | 36  | 31  |  |  | 42  | 35  | 30  |  |  | 41  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  |  | 40  | 33  | 28  |  |  | 39  | 32  | 28  |  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1614 | 1614 | 1614 |
| 5°  | 1616 | 1613 | 1621 |
| 10° | 1614 | 1612 | 1621 |
| 15° | 1609 | 1608 | 1616 |
| 20° | 1601 | 1601 | 1610 |
| 25° | 1590 | 1588 | 1596 |
| 30° | 1570 | 1572 | 1579 |
| 35° | 1540 | 1546 | 1558 |
| 40° | 1492 | 1509 | 1528 |
| 45° | 1445 | 1457 | 1485 |
| 50° | 1382 | 1397 | 1424 |
| 55° | 1301 | 1322 | 1338 |
| 60° | 1181 | 1206 | 1236 |
| 65° | 1048 | 1060 | 1103 |
| 70° | 937  | 918  | 941  |
| 75° | 845  | 797  | 781  |
| 80° | 769  | 714  | 633  |
| 85° | 651  | 591  | 508  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1485 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.8  | 3.6       |
| 10°-20°   | 326.4  | 10.3      |
| 20°-30°   | 493.7  | 15.6      |
| 30°-40°   | 588.5  | 18.6      |
| 40°-50°   | 591.8  | 18.7      |
| 50°-60°   | 502.2  | 15.9      |
| 60°-70°   | 334.4  | 10.6      |
| 70°-80°   | 167.0  | 5.3       |
| 80°-90°   | 44.7   | 1.4       |
| 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°    | 933.9  | 29.5      |
| 0°-40°    | 1522.4 | 48.1      |
| 0°-60°    | 2616.4 | 82.7      |
| 0°-90°    | 3162.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3162.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1200 | 1200  | 1200 | 1200  | 1200 |      |
| 5°  | 1196 | 1196  | 1194 | 1199  | 1200 | 114  |
| 15° | 1155 | 1156  | 1154 | 1159  | 1160 | 326  |
| 25° | 1071 | 1071  | 1069 | 1074  | 1075 | 492  |
| 35° | 937  | 938   | 941  | 948   | 949  | 585  |
| 45° | 760  | 761   | 766  | 776   | 781  | 584  |
| 55° | 555  | 559   | 564  | 569   | 570  | 494  |
| 65° | 329  | 332   | 333  | 338   | 346  | 330  |
| 75° | 163  | 160   | 153  | 150   | 150  | 175  |
| 85° | 42   | 41    | 38   | 36    | 33   | 49   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1199.7 | 1199.7 | 1199.7 | 1199.7 | 1199.7 |
| 2.5°  | 1198.7 | 1199.7 | 1196.5 | 1202.3 | 1203.8 |
| 5°    | 1196.2 | 1196.5 | 1193.9 | 1199.2 | 1200.5 |
| 7.5°  | 1190.3 | 1190.8 | 1188.1 | 1193.9 | 1194.7 |
| 10°   | 1181.0 | 1181.9 | 1179.7 | 1185.0 | 1186.3 |
| 12.5° | 1169.0 | 1170.3 | 1168.1 | 1173.9 | 1174.8 |
| 15°   | 1154.8 | 1156.1 | 1154.3 | 1159.2 | 1160.1 |
| 17.5° | 1137.4 | 1138.3 | 1137.4 | 1141.9 | 1144.5 |
| 20°   | 1117.8 | 1117.8 | 1117.8 | 1121.9 | 1124.1 |
| 22.5° | 1093.4 | 1095.7 | 1094.7 | 1100.1 | 1102.3 |
| 25°   | 1070.8 | 1070.8 | 1069.4 | 1074.4 | 1075.2 |
| 27.5° | 1039.2 | 1042.7 | 1042.4 | 1046.8 | 1047.7 |
| 30°   | 1010.3 | 1011.2 | 1011.7 | 1014.8 | 1016.6 |
| 32.5° | 975.2  | 976.0  | 977.5  | 981.8  | 982.3  |
| 35°   | 937.4  | 938.4  | 941.0  | 947.6  | 948.6  |
| 37.5° | 893.5  | 898.3  | 900.6  | 907.7  | 908.5  |
| 40°   | 849.4  | 852.5  | 859.2  | 866.7  | 870.2  |
| 42.5° | 804.5  | 808.0  | 812.1  | 822.3  | 825.5  |
| 45°   | 759.6  | 760.9  | 765.9  | 776.1  | 780.6  |
| 47.5° | 709.8  | 713.9  | 718.2  | 727.1  | 729.9  |
| 50°   | 660.1  | 664.5  | 667.2  | 675.1  | 680.5  |
| 52.5° | 609.9  | 613.9  | 617.0  | 621.8  | 627.2  |
| 55°   | 554.8  | 558.7  | 563.7  | 569.0  | 570.3  |
| 57.5° | 498.8  | 503.1  | 506.3  | 512.0  | 517.8  |
| 60°   | 438.7  | 443.7  | 448.0  | 453.4  | 459.2  |
| 62.5° | 382.8  | 384.9  | 389.4  | 398.3  | 406.7  |
| 65°   | 329.3  | 332.1  | 332.9  | 337.9  | 346.3  |
| 67.5° | 284.9  | 284.9  | 280.9  | 282.6  | 292.0  |
| 70°   | 238.2  | 236.5  | 233.4  | 231.6  | 239.2  |
| 72.5° | 200.4  | 198.2  | 191.6  | 188.5  | 192.5  |
| 75°   | 162.6  | 160.4  | 153.3  | 149.7  | 150.2  |
| 77.5° | 130.7  | 127.1  | 121.3  | 115.2  | 113.9  |
| 80°   | 99.2   | 97.7   | 92.1   | 86.2   | 81.7   |
| 82.5° | 70.3   | 67.2   | 64.0   | 60.4   | 56.9   |
| 85°   | 42.2   | 41.3   | 38.3   | 36.0   | 32.9   |
| 87.5° | 17.3   | 17.3   | 16.5   | 15.5   | 14.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room Dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 12.9             | 14.5 | 13.2 | 14.8 | 15.1 | 13.0           | 14.6 | 13.4 | 14.9 | 15.2 |
|                 | 3H   | 14.2             | 15.7 | 14.6 | 16.0 | 16.4 | 14.4           | 15.8 | 14.7 | 16.1 | 16.5 |
|                 | 4H   | 14.8             | 16.1 | 15.2 | 16.4 | 16.8 | 14.8           | 16.1 | 15.2 | 16.5 | 16.8 |
|                 | 6H   | 15.1             | 16.4 | 15.6 | 16.8 | 17.1 | 15.1           | 16.3 | 15.5 | 16.7 | 17.1 |
|                 | 8H   | 15.3             | 16.5 | 15.7 | 16.8 | 17.2 | 15.1           | 16.3 | 15.6 | 16.7 | 17.1 |
|                 | 12H  | 15.3             | 16.5 | 15.8 | 16.9 | 17.3 | 15.2           | 16.3 | 15.6 | 16.7 | 17.1 |
| 4H              | 2H   | 13.4             | 14.7 | 13.8 | 15.1 | 15.4 | 13.5           | 14.8 | 13.9 | 15.2 | 15.6 |
|                 | 3H   | 14.9             | 16.1 | 15.4 | 16.5 | 16.9 | 15.0           | 16.1 | 15.4 | 16.5 | 16.9 |
|                 | 4H   | 15.6             | 16.6 | 16.0 | 17.0 | 17.4 | 15.5           | 16.6 | 16.0 | 17.0 | 17.4 |
|                 | 6H   | 16.1             | 17.0 | 16.5 | 17.4 | 17.9 | 15.9           | 16.8 | 16.4 | 17.3 | 17.7 |
|                 | 8H   | 16.3             | 17.1 | 16.7 | 17.5 | 18.0 | 16.1           | 16.9 | 16.5 | 17.3 | 17.8 |
|                 | 12H  | 16.4             | 17.1 | 16.9 | 17.6 | 18.1 | 16.1           | 16.9 | 16.6 | 17.3 | 17.8 |
| 8H              | 4H   | 15.8             | 16.6 | 16.2 | 17.0 | 17.5 | 15.8           | 16.6 | 16.2 | 17.0 | 17.5 |
|                 | 6H   | 16.4             | 17.1 | 16.9 | 17.6 | 18.0 | 16.2           | 16.9 | 16.7 | 17.4 | 17.9 |
|                 | 8H   | 16.6             | 17.3 | 17.1 | 17.8 | 18.2 | 16.4           | 17.0 | 16.9 | 17.5 | 18.0 |
|                 | 12H  | 16.8             | 17.4 | 17.3 | 17.9 | 18.4 | 16.6           | 17.1 | 17.1 | 17.6 | 18.2 |
| 12H             | 4H   | 15.8             | 16.5 | 16.3 | 17.0 | 17.5 | 15.8           | 16.5 | 16.3 | 17.0 | 17.5 |
|                 | 6H   | 16.4             | 17.1 | 17.0 | 17.5 | 18.1 | 16.3           | 16.9 | 16.8 | 17.4 | 17.9 |
|                 | 8H   | 16.7             | 17.3 | 17.2 | 17.8 | 18.3 | 16.5           | 17.0 | 17.0 | 17.5 | 18.1 |













(END OF REPORT)