

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: P1471737

Luminaire Tested: 22PTR-45S-PP3-L835-UNV-STD-B

Issue Date: 6/22/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1471737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/22/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22PTR-45S-PP3-L835-UNV-STD-B  
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PP3 Lens Black Recess Frame  
Light Source: -  
Ballast/Driver: -

**Summary**

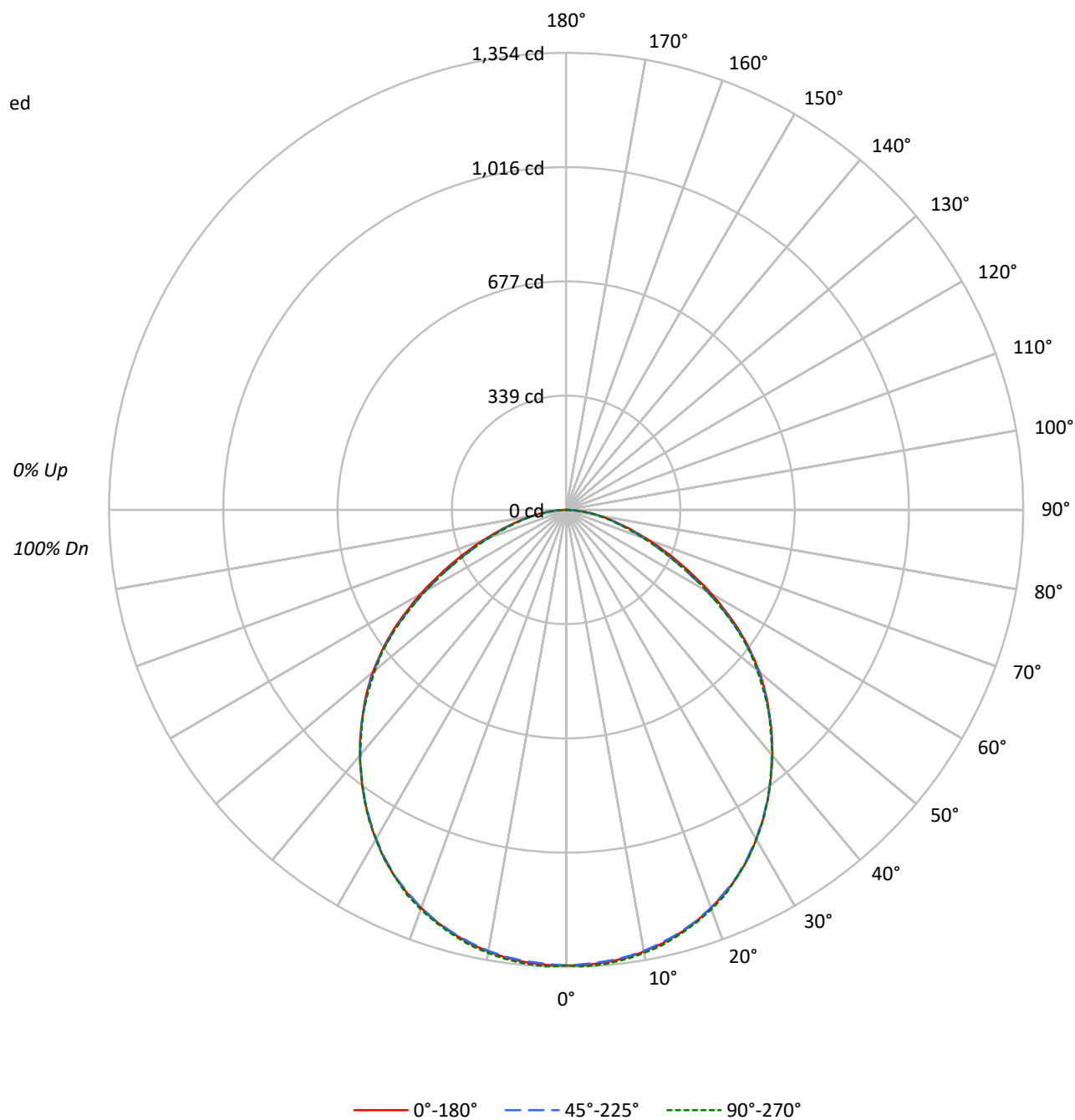
Lumens per Lamp: N/A  
Luminaire Lumens: 3487.2 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.1  
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  |  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  |  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  | 89  | 87  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  |  | 87  | 82  | 78  |  | 84  | 79  | 76  |  | 81  | 77  | 74  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  |  | 77  | 71  | 66  |  | 74  | 69  | 65  |  | 72  | 67  | 63  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  |  | 69  | 62  | 56  |  | 66  | 60  | 56  |  | 64  | 59  | 55  |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 50  |  | 62  | 55  | 49  |  | 60  | 54  | 49  |  | 58  | 52  | 48  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  |  | 56  | 49  | 43  |  | 54  | 48  | 43  |  | 53  | 47  | 42  |
| 7   | 66  | 53  | 45  | 39  | 65  | 52  | 44  | 39  |  | 51  | 44  | 38  |  | 50  | 43  | 38  |  | 48  | 42  | 38  |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 35  |  | 47  | 39  | 34  |  | 45  | 39  | 34  |  | 44  | 38  | 34  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 36  | 31  |  | 43  | 36  | 31  |  | 42  | 35  | 31  |  | 41  | 35  | 31  |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  |  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  | 32  | 28  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3632 | 3632 | 3632 |
| 5°  | 3635 | 3627 | 3647 |
| 10° | 3630 | 3625 | 3642 |
| 15° | 3618 | 3611 | 3628 |
| 20° | 3594 | 3591 | 3607 |
| 25° | 3562 | 3556 | 3561 |
| 30° | 3502 | 3495 | 3502 |
| 35° | 3426 | 3421 | 3424 |
| 40° | 3339 | 3328 | 3337 |
| 45° | 3238 | 3229 | 3233 |
| 50° | 3130 | 3115 | 3093 |
| 55° | 2946 | 2912 | 2903 |
| 60° | 2674 | 2584 | 2589 |
| 65° | 2348 | 2230 | 2227 |
| 70° | 2031 | 1939 | 1916 |
| 75° | 1756 | 1692 | 1654 |
| 80° | 1556 | 1534 | 1464 |
| 85° | 1288 | 1331 | 1254 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3250 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.0  | 3.7       |
| 10°-20°   | 366.7  | 10.5      |
| 20°-30°   | 552.0  | 15.8      |
| 30°-40°   | 651.6  | 18.7      |
| 40°-50°   | 655.3  | 18.8      |
| 50°-60°   | 553.2  | 15.9      |
| 60°-70°   | 355.3  | 10.2      |
| 70°-80°   | 176.7  | 5.1       |
| 80°-90°   | 48.4   | 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°    | 1046.7 | 30.0      |
| 0°-40°    | 1698.3 | 48.7      |
| 0°-60°    | 2906.8 | 83.4      |
| 0°-90°    | 3487.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3487.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1350 | 1350  | 1350 | 1350  | 1350 |      |
| 5°  | 1346 | 1346  | 1343 | 1349  | 1350 | 128  |
| 15° | 1299 | 1299  | 1296 | 1302  | 1302 | 366  |
| 25° | 1200 | 1200  | 1198 | 1200  | 1199 | 552  |
| 35° | 1043 | 1044  | 1042 | 1042  | 1042 | 652  |
| 45° | 851  | 854   | 848  | 850   | 850  | 657  |
| 55° | 628  | 628   | 621  | 618   | 619  | 559  |
| 65° | 369  | 364   | 350  | 347   | 350  | 368  |
| 75° | 169  | 168   | 163  | 161   | 159  | 183  |
| 85° | 42   | 43    | 43   | 41    | 41   | 49   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 |
| 2.5°  | 1349.1 | 1349.7 | 1346.1 | 1352.5 | 1353.6 |
| 5°    | 1345.7 | 1346.1 | 1342.7 | 1349.1 | 1350.0 |
| 7.5°  | 1338.8 | 1339.3 | 1336.3 | 1342.2 | 1343.3 |
| 10°   | 1328.5 | 1330.1 | 1326.5 | 1332.0 | 1332.9 |
| 12.5° | 1315.8 | 1316.4 | 1312.8 | 1319.2 | 1320.3 |
| 15°   | 1298.7 | 1299.1 | 1296.3 | 1302.1 | 1302.1 |
| 17.5° | 1279.0 | 1279.5 | 1277.6 | 1282.5 | 1282.0 |
| 20°   | 1255.1 | 1256.6 | 1254.1 | 1257.5 | 1259.4 |
| 22.5° | 1229.1 | 1229.7 | 1226.7 | 1231.1 | 1233.1 |
| 25°   | 1199.8 | 1200.1 | 1197.8 | 1200.1 | 1199.2 |
| 27.5° | 1165.4 | 1166.3 | 1162.9 | 1165.4 | 1166.0 |
| 30°   | 1127.1 | 1129.6 | 1124.8 | 1126.8 | 1127.1 |
| 32.5° | 1086.0 | 1087.5 | 1084.1 | 1084.6 | 1087.1 |
| 35°   | 1043.0 | 1043.5 | 1041.5 | 1042.4 | 1042.4 |
| 37.5° | 996.5  | 998.4  | 995.4  | 996.8  | 994.9  |
| 40°   | 950.4  | 948.4  | 947.4  | 948.4  | 949.9  |
| 42.5° | 901.8  | 902.3  | 900.9  | 899.8  | 897.5  |
| 45°   | 850.9  | 853.9  | 848.4  | 849.5  | 849.5  |
| 47.5° | 801.0  | 801.4  | 798.5  | 795.5  | 793.6  |
| 50°   | 747.6  | 747.6  | 744.1  | 741.8  | 738.7  |
| 52.5° | 689.2  | 688.4  | 684.4  | 681.9  | 683.4  |
| 55°   | 628.0  | 627.5  | 620.7  | 618.2  | 618.8  |
| 57.5° | 560.9  | 562.0  | 551.6  | 549.2  | 549.2  |
| 60°   | 496.8  | 491.8  | 480.1  | 476.7  | 481.0  |
| 62.5° | 429.5  | 423.7  | 411.0  | 411.0  | 414.4  |
| 65°   | 368.8  | 363.5  | 350.3  | 346.8  | 349.8  |
| 67.5° | 312.0  | 307.1  | 295.0  | 293.0  | 293.9  |
| 70°   | 258.1  | 253.8  | 246.4  | 241.9  | 243.5  |
| 72.5° | 211.7  | 207.7  | 202.8  | 199.4  | 197.4  |
| 75°   | 168.9  | 168.0  | 162.7  | 161.1  | 159.1  |
| 77.5° | 133.7  | 133.3  | 128.9  | 126.9  | 125.0  |
| 80°   | 100.4  | 99.9   | 99.0   | 95.9   | 94.5   |
| 82.5° | 71.6   | 71.6   | 71.0   | 68.5   | 67.1   |
| 85°   | 41.7   | 43.1   | 43.1   | 40.6   | 40.6   |
| 87.5° | 16.7   | 17.6   | 16.7   | 16.7   | 16.2   |
| 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 | 15.7             | 17.3 | 16.1 | 17.6 | 17.9 | 15.6           | 17.1 | 15.9 | 17.5 | 17.8 |
|                 | 3H   | 17.0             | 18.5 | 17.4 | 18.8 | 19.1 | 16.8           | 18.2 | 17.2 | 18.5 | 18.9 |
|                 | 4H   | 17.5             | 18.8 | 17.9 | 19.2 | 19.5 | 17.2           | 18.6 | 17.6 | 18.9 | 19.3 |
|                 | 6H   | 17.8             | 19.0 | 18.2 | 19.4 | 19.8 | 17.5           | 18.8 | 18.0 | 19.1 | 19.5 |
|                 | 8H   | 17.9             | 19.1 | 18.3 | 19.5 | 19.9 | 17.6           | 18.8 | 18.1 | 19.2 | 19.6 |
|                 | 12H  | 18.0             | 19.1 | 18.4 | 19.5 | 19.9 | 17.7           | 18.8 | 18.1 | 19.2 | 19.6 |
| 4H              | 2H   | 16.1             | 17.5 | 16.5 | 17.8 | 18.2 | 16.0           | 17.4 | 16.4 | 17.7 | 18.1 |
|                 | 3H   | 17.7             | 18.8 | 18.1 | 19.2 | 19.6 | 17.5           | 18.6 | 17.9 | 19.0 | 19.4 |
|                 | 4H   | 18.2             | 19.2 | 18.7 | 19.6 | 20.1 | 18.0           | 19.0 | 18.4 | 19.4 | 19.9 |
|                 | 6H   | 18.7             | 19.6 | 19.1 | 20.0 | 20.5 | 18.4           | 19.3 | 18.9 | 19.7 | 20.2 |
|                 | 8H   | 18.8             | 19.6 | 19.3 | 20.1 | 20.6 | 18.6           | 19.4 | 19.0 | 19.8 | 20.3 |
|                 | 12H  | 18.9             | 19.7 | 19.4 | 20.1 | 20.6 | 18.7           | 19.4 | 19.2 | 19.9 | 20.4 |
| 8H              | 4H   | 18.4             | 19.2 | 18.9 | 19.7 | 20.1 | 18.2           | 19.0 | 18.7 | 19.5 | 19.9 |
|                 | 6H   | 19.0             | 19.7 | 19.5 | 20.1 | 20.6 | 18.8           | 19.4 | 19.2 | 19.9 | 20.4 |
|                 | 8H   | 19.2             | 19.8 | 19.7 | 20.3 | 20.8 | 19.0           | 19.6 | 19.5 | 20.1 | 20.6 |
|                 | 12H  | 19.4             | 19.9 | 19.9 | 20.4 | 21.0 | 19.1           | 19.7 | 19.6 | 20.2 | 20.7 |
| 12H             | 4H   | 18.4             | 19.2 | 18.9 | 19.6 | 20.1 | 18.2           | 19.0 | 18.7 | 19.4 | 19.9 |
|                 | 6H   | 19.0             | 19.6 | 19.5 | 20.1 | 20.6 | 18.8           | 19.4 | 19.3 | 19.9 | 20.4 |
|                 | 8H   | 19.3             | 19.8 | 19.8 | 20.3 | 20.9 | 19.1           | 19.6 | 19.6 | 20.1 | 20.6 |













(END OF REPORT)