

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: P1050727

Luminaire Tested: 24PTR-100-PL1-L840-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-100-PL1-L840-UNV-STD-W  
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source:  
Ballast/Driver: -

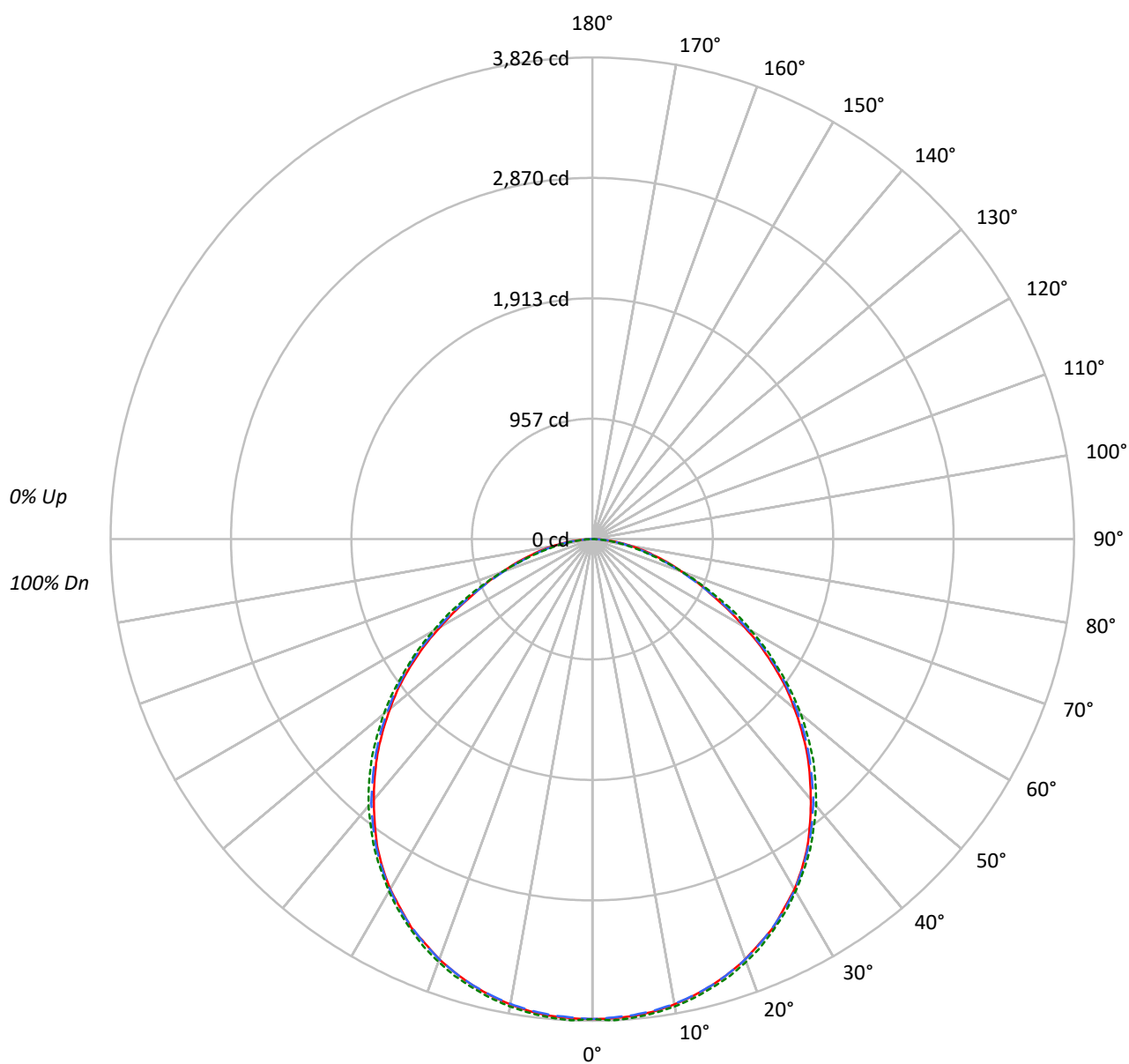
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10050.2 lumens  
Efficiency: N/A  
Efficacy: 118.2 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): 85  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
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  |     |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 94  | 92  | 90  | 91  | 89  | 87  | 87  | 87  | 85  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 74  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 55  | 55  | 52  |
| 5   | 77  | 65  | 56  | 49  | 75  | 64  | 55  | 49  | 61  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 48  | 48  | 46  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 47  | 42  | 42  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 37  | 37  | 35  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 34  | 34  | 32  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 30  | 30  | 29  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 28  | 28  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5130 | 5130 | 5130 |
| 5°  | 5134 | 5125 | 5153 |
| 10° | 5128 | 5122 | 5151 |
| 15° | 5112 | 5110 | 5136 |
| 20° | 5087 | 5087 | 5115 |
| 25° | 5052 | 5045 | 5073 |
| 30° | 4988 | 4995 | 5019 |
| 35° | 4893 | 4912 | 4952 |
| 40° | 4741 | 4796 | 4858 |
| 45° | 4593 | 4631 | 4720 |
| 50° | 4391 | 4438 | 4527 |
| 55° | 4136 | 4202 | 4252 |
| 60° | 3751 | 3832 | 3927 |
| 65° | 3332 | 3368 | 3504 |
| 70° | 2978 | 2918 | 2991 |
| 75° | 2687 | 2532 | 2482 |
| 80° | 2442 | 2267 | 2012 |
| 85° | 2069 | 1877 | 1616 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4720 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 361.7   | 3.6       |
| 10°-20°   | 1037.3  | 10.3      |
| 20°-30°   | 1569.0  | 15.6      |
| 30°-40°   | 1870.2  | 18.6      |
| 40°-50°   | 1880.6  | 18.7      |
| 50°-60°   | 1596.1  | 15.9      |
| 60°-70°   | 1062.7  | 10.6      |
| 70°-80°   | 530.6   | 5.3       |
| 80°-90°   | 142.0   | 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°    | 2968.0  | 29.5      |
| 0°-40°    | 4838.2  | 48.1      |
| 0°-60°    | 8314.9  | 82.7      |
| 0°-90°    | 10050.2 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10050.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3813 | 3813  | 3813 | 3813  | 3813 |      |
| 5°  | 3801 | 3802  | 3794 | 3811  | 3815 | 361  |
| 15° | 3670 | 3674  | 3668 | 3684  | 3687 | 1035 |
| 25° | 3403 | 3403  | 3398 | 3414  | 3417 | 1565 |
| 35° | 2979 | 2982  | 2990 | 3012  | 3015 | 1858 |
| 45° | 2414 | 2418  | 2434 | 2466  | 2481 | 1857 |
| 55° | 1763 | 1776  | 1791 | 1808  | 1812 | 1571 |
| 65° | 1047 | 1055  | 1058 | 1074  | 1100 | 1049 |
| 75° | 517  | 510   | 487  | 476   | 477  | 555  |
| 85° | 134  | 131   | 122  | 114   | 105  | 155  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3812.7 | 3812.7 | 3812.7 | 3812.7 | 3812.7 |
| 2.5°  | 3809.6 | 3812.7 | 3802.5 | 3820.9 | 3825.6 |
| 5°    | 3801.4 | 3802.5 | 3794.2 | 3811.2 | 3815.3 |
| 7.5°  | 3783.0 | 3784.5 | 3775.8 | 3794.2 | 3796.8 |
| 10°   | 3753.2 | 3756.3 | 3749.1 | 3766.0 | 3770.1 |
| 12.5° | 3715.2 | 3719.3 | 3712.1 | 3730.6 | 3733.7 |
| 15°   | 3670.0 | 3674.1 | 3668.5 | 3683.9 | 3687.0 |
| 17.5° | 3614.6 | 3617.7 | 3614.6 | 3629.0 | 3637.2 |
| 20°   | 3552.5 | 3552.5 | 3552.5 | 3565.3 | 3572.5 |
| 22.5° | 3475.0 | 3482.2 | 3479.1 | 3496.0 | 3503.2 |
| 25°   | 3403.1 | 3403.1 | 3398.5 | 3414.4 | 3417.0 |
| 27.5° | 3302.5 | 3313.8 | 3312.8 | 3326.6 | 3329.7 |
| 30°   | 3210.6 | 3213.7 | 3215.3 | 3225.0 | 3230.7 |
| 32.5° | 3099.3 | 3101.8 | 3106.4 | 3120.3 | 3121.8 |
| 35°   | 2979.1 | 2982.2 | 2990.4 | 3011.5 | 3014.6 |
| 37.5° | 2839.5 | 2854.9 | 2862.1 | 2884.7 | 2887.3 |
| 40°   | 2699.4 | 2709.1 | 2730.7 | 2754.3 | 2765.6 |
| 42.5° | 2556.7 | 2568.0 | 2580.8 | 2613.2 | 2623.4 |
| 45°   | 2414.0 | 2418.1 | 2434.0 | 2466.4 | 2480.7 |
| 47.5° | 2255.9 | 2268.7 | 2282.6 | 2310.8 | 2319.6 |
| 50°   | 2097.8 | 2111.7 | 2120.4 | 2145.6 | 2162.5 |
| 52.5° | 1938.2 | 1951.0 | 1960.8 | 1976.2 | 1993.1 |
| 55°   | 1763.2 | 1775.5 | 1791.4 | 1808.3 | 1812.4 |
| 57.5° | 1585.0 | 1598.9 | 1609.2 | 1627.1 | 1645.6 |
| 60°   | 1394.1 | 1410.0 | 1423.9 | 1440.8 | 1459.3 |
| 62.5° | 1216.5 | 1223.2 | 1237.5 | 1265.8 | 1292.5 |
| 65°   | 1046.6 | 1055.3 | 1057.9 | 1073.8 | 1100.5 |
| 67.5° | 905.4  | 905.4  | 892.6  | 898.3  | 928.0  |
| 70°   | 757.1  | 751.5  | 741.7  | 736.1  | 760.2  |
| 72.5° | 637.0  | 629.8  | 608.8  | 599.0  | 611.8  |
| 75°   | 516.9  | 509.7  | 487.1  | 475.8  | 477.4  |
| 77.5° | 415.3  | 404.0  | 385.5  | 366.0  | 361.9  |
| 80°   | 315.2  | 310.5  | 292.6  | 274.1  | 259.7  |
| 82.5° | 223.3  | 213.5  | 203.3  | 192.0  | 180.7  |
| 85°   | 134.0  | 131.4  | 121.6  | 114.5  | 104.7  |
| 87.5° | 54.9   | 54.9   | 52.4   | 49.3   | 46.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |









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





(END OF REPORT)