

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: P1192851

Luminaire Tested: 24PT-100-PB1-L840

Issue Date: 10/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1192851  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2202-549-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PT-100-PB1-L840  
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND BEVEL LENS  
Light Source: -  
Ballast/Driver: -

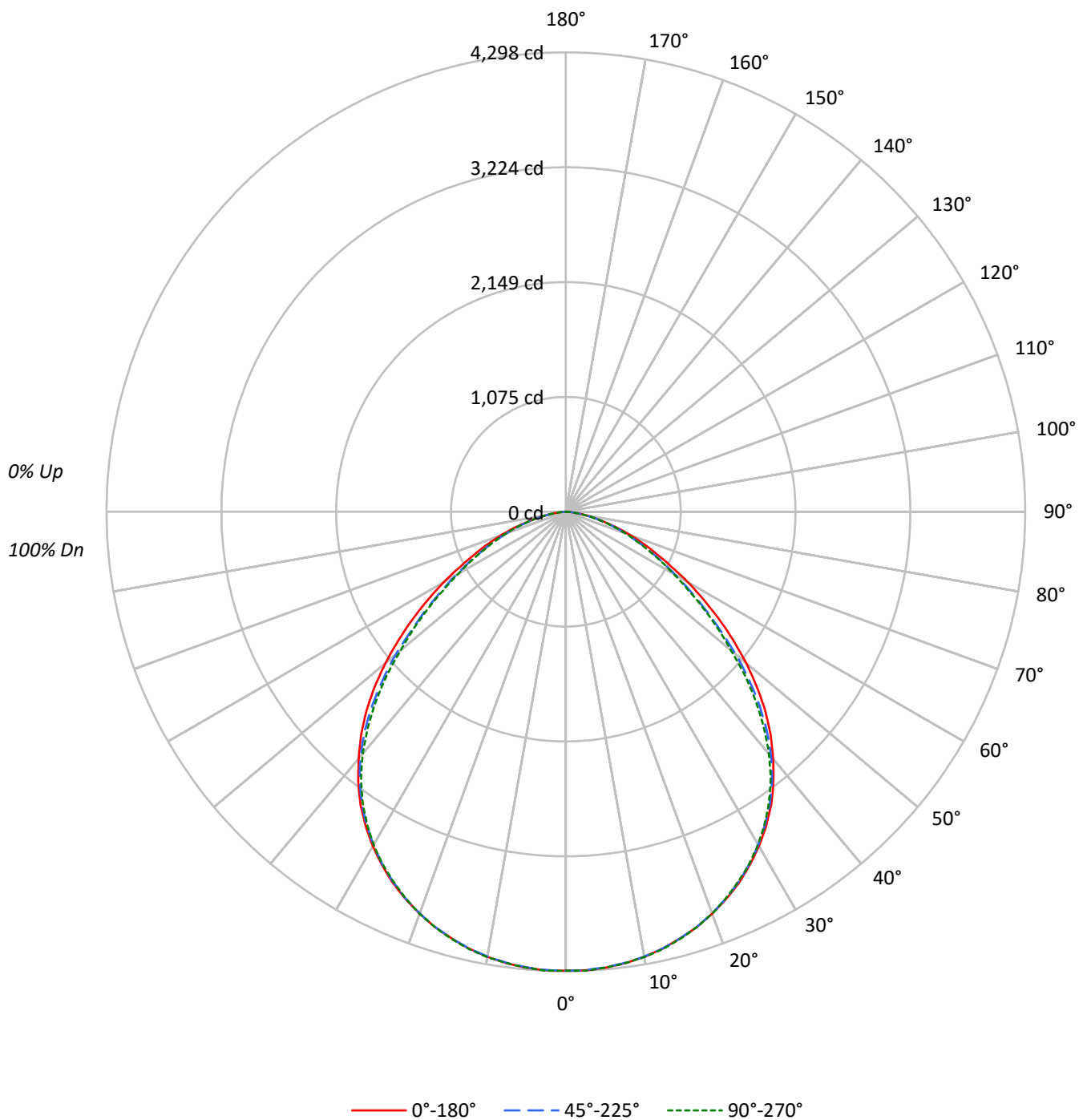
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10197.0 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32  
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 85  
Input Voltage (V): NR  
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  |     |     |     |     | 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   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 89  | 89  | 87  |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 86  | 82  | 88  | 84  | 80  | 85  | 81  | 78  | 82  | 79  | 76  | 76  | 76  | 74  |
| 3   | 93  | 83  | 76  | 70  | 91  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 66  | 66  | 64  |
| 4   | 86  | 75  | 66  | 60  | 83  | 73  | 66  | 60  | 71  | 64  | 59  | 69  | 63  | 58  | 66  | 62  | 58  | 58  | 58  | 55  |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 58  | 52  | 64  | 57  | 52  | 62  | 56  | 51  | 60  | 55  | 51  | 51  | 51  | 49  |
| 6   | 73  | 61  | 52  | 46  | 71  | 60  | 52  | 46  | 58  | 51  | 46  | 56  | 50  | 45  | 55  | 49  | 45  | 45  | 45  | 43  |
| 7   | 68  | 55  | 47  | 41  | 66  | 55  | 47  | 41  | 53  | 46  | 41  | 52  | 45  | 40  | 50  | 45  | 40  | 40  | 40  | 38  |
| 8   | 64  | 51  | 43  | 37  | 62  | 50  | 42  | 37  | 49  | 42  | 37  | 47  | 41  | 36  | 46  | 41  | 36  | 36  | 36  | 34  |
| 9   | 59  | 47  | 39  | 33  | 58  | 46  | 38  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 33  | 33  | 31  |
| 10  | 56  | 43  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  | 30  | 30  | 28  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6141 | 6141 | 6141 |
| 5°  | 6145 | 6141 | 6145 |
| 10° | 6140 | 6135 | 6143 |
| 15° | 6118 | 6118 | 6125 |
| 20° | 6090 | 6085 | 6090 |
| 25° | 6045 | 6032 | 6024 |
| 30° | 5966 | 5944 | 5938 |
| 35° | 5847 | 5811 | 5787 |
| 40° | 5630 | 5576 | 5519 |
| 45° | 5336 | 5179 | 5090 |
| 50° | 4896 | 4621 | 4489 |
| 55° | 4356 | 3968 | 3909 |
| 60° | 3773 | 3391 | 3333 |
| 65° | 3182 | 2908 | 2873 |
| 70° | 2702 | 2489 | 2503 |
| 75° | 2121 | 2028 | 2047 |
| 80° | 1546 | 1519 | 1532 |
| 85° | 944  | 999  | 999  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5336 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 406.8   | 4.0       |
| 10°-20°   | 1166.3  | 11.4      |
| 20°-30°   | 1760.6  | 17.3      |
| 30°-40°   | 2076.1  | 20.4      |
| 40°-50°   | 1972.5  | 19.3      |
| 50°-60°   | 1455.5  | 14.3      |
| 60°-70°   | 878.6   | 8.6       |
| 70°-80°   | 402.1   | 3.9       |
| 80°-90°   | 78.5    | 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°    | 3333.7  | 32.7      |
| 0°-40°    | 5409.7  | 53.1      |
| 0°-60°    | 8837.8  | 86.7      |
| 0°-90°    | 10197.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10197.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4294 | 4294  | 4294 | 4294  | 4294 |      |
| 5°  | 4281 | 4282  | 4277 | 4274  | 4281 | 407  |
| 15° | 4132 | 4134  | 4132 | 4130  | 4137 | 1167 |
| 25° | 3831 | 3829  | 3822 | 3816  | 3817 | 1763 |
| 35° | 3349 | 3344  | 3328 | 3315  | 3315 | 2088 |
| 45° | 2638 | 2620  | 2561 | 2525  | 2517 | 2026 |
| 55° | 1747 | 1676  | 1592 | 1554  | 1568 | 1564 |
| 65° | 940  | 910   | 859  | 842   | 849  | 945  |
| 75° | 384  | 377   | 367  | 362   | 370  | 418  |
| 85° | 58   | 59    | 61   | 59    | 61   | 77   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4294.2 | 4294.2 | 4294.2 | 4294.2 | 4294.2 |
| 2.5°  | 4294.2 | 4294.2 | 4290.8 | 4287.4 | 4297.6 |
| 5°    | 4280.7 | 4282.4 | 4277.3 | 4273.9 | 4280.7 |
| 7.5°  | 4260.4 | 4260.4 | 4255.3 | 4251.9 | 4258.7 |
| 10°   | 4228.2 | 4228.2 | 4224.9 | 4223.2 | 4229.9 |
| 12.5° | 4186.0 | 4187.7 | 4184.3 | 4182.6 | 4191.0 |
| 15°   | 4131.8 | 4133.5 | 4131.8 | 4130.1 | 4136.9 |
| 17.5° | 4074.3 | 4076.0 | 4072.6 | 4067.6 | 4074.3 |
| 20°   | 4001.6 | 4005.0 | 3998.2 | 3994.8 | 4001.6 |
| 22.5° | 3920.4 | 3923.8 | 3917.0 | 3913.7 | 3913.7 |
| 25°   | 3830.8 | 3829.1 | 3822.3 | 3815.6 | 3817.3 |
| 27.5° | 3725.9 | 3727.6 | 3717.5 | 3710.7 | 3715.8 |
| 30°   | 3612.6 | 3614.3 | 3599.1 | 3594.0 | 3595.7 |
| 32.5° | 3485.8 | 3484.1 | 3470.5 | 3462.1 | 3462.1 |
| 35°   | 3348.8 | 3343.7 | 3328.5 | 3314.9 | 3314.9 |
| 37.5° | 3189.8 | 3186.4 | 3169.5 | 3152.6 | 3147.5 |
| 40°   | 3015.6 | 3012.2 | 2986.8 | 2964.8 | 2956.4 |
| 42.5° | 2836.3 | 2826.2 | 2785.6 | 2751.7 | 2743.3 |
| 45°   | 2638.4 | 2619.8 | 2560.6 | 2525.1 | 2516.7 |
| 47.5° | 2425.3 | 2401.6 | 2320.5 | 2279.9 | 2276.5 |
| 50°   | 2200.4 | 2158.1 | 2076.9 | 2024.5 | 2017.7 |
| 52.5° | 1973.7 | 1912.9 | 1819.8 | 1780.9 | 1791.1 |
| 55°   | 1747.1 | 1676.1 | 1591.5 | 1554.3 | 1567.8 |
| 57.5° | 1527.2 | 1452.8 | 1380.1 | 1342.9 | 1351.3 |
| 60°   | 1319.2 | 1254.9 | 1185.6 | 1155.2 | 1165.3 |
| 62.5° | 1114.6 | 1074.0 | 1014.8 | 987.7  | 1001.2 |
| 65°   | 940.4  | 909.9  | 859.2  | 842.3  | 849.0  |
| 67.5° | 788.1  | 764.5  | 720.5  | 707.0  | 717.1  |
| 70°   | 646.1  | 629.2  | 595.3  | 590.3  | 598.7  |
| 72.5° | 510.8  | 500.6  | 482.0  | 473.6  | 478.6  |
| 75°   | 383.9  | 377.2  | 367.0  | 361.9  | 370.4  |
| 77.5° | 277.4  | 272.3  | 268.9  | 268.9  | 270.6  |
| 80°   | 187.7  | 186.0  | 184.4  | 182.7  | 186.0  |
| 82.5° | 115.0  | 115.0  | 115.0  | 115.0  | 116.7  |
| 85°   | 57.5   | 59.2   | 60.9   | 59.2   | 60.9   |
| 87.5° | 18.6   | 20.3   | 22.0   | 22.0   | 23.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)