

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: P1192922

Luminaire Tested: 24PT-80-PB1-L835

Issue Date: 10/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1192922  
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-80-PB1-L835  
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND BEVEL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

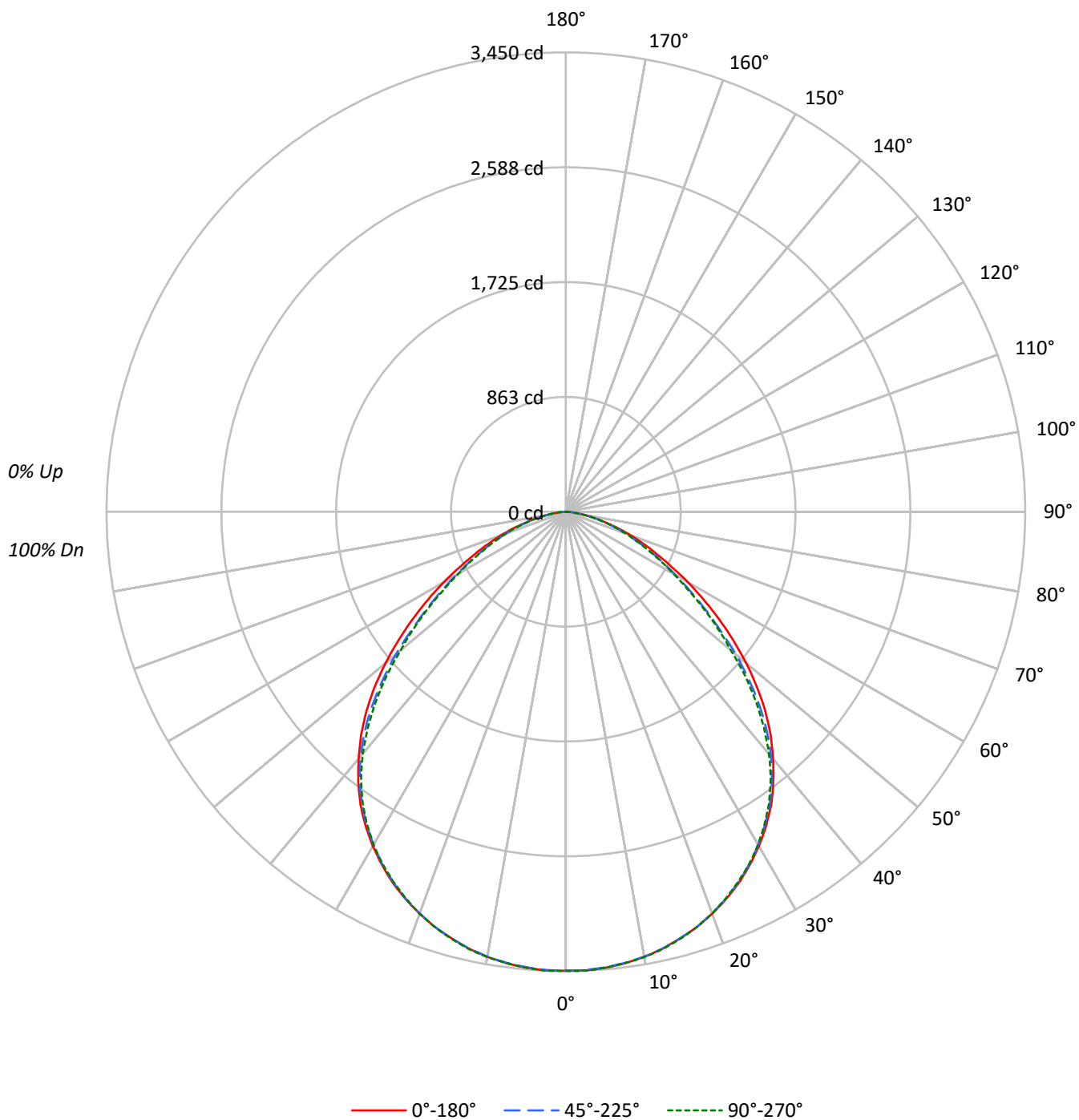
Lumens per Lamp: N/A  
Luminaire Lumens: 8186.0 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32  
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 68  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  |  | 96  | 93  | 91  |  | 92  |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 86  | 82  | 88  | 84  | 80  |  | 85  | 81  | 78  |  | 82  |
| 3   | 93  | 83  | 76  | 70  | 91  | 82  | 75  | 69  | 79  | 73  | 68  |  | 76  | 71  | 67  |  | 74  |
| 4   | 86  | 75  | 66  | 60  | 83  | 73  | 66  | 60  | 71  | 64  | 59  |  | 69  | 63  | 58  |  | 66  |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 58  | 52  | 64  | 57  | 52  |  | 62  | 56  | 51  |  | 60  |
| 6   | 73  | 61  | 52  | 46  | 71  | 60  | 52  | 46  | 58  | 51  | 46  |  | 56  | 50  | 45  |  | 55  |
| 7   | 68  | 55  | 47  | 41  | 66  | 55  | 47  | 41  | 53  | 46  | 41  |  | 52  | 45  | 40  |  | 50  |
| 8   | 64  | 51  | 43  | 37  | 62  | 50  | 42  | 37  | 49  | 42  | 37  |  | 47  | 41  | 36  |  | 46  |
| 9   | 59  | 47  | 39  | 33  | 58  | 46  | 38  | 33  | 45  | 38  | 33  |  | 44  | 38  | 33  |  | 43  |
| 10  | 56  | 43  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 35  | 30  |  | 41  | 34  | 30  |  | 40  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4930 | 4930 | 4930 |
| 5°  | 4933 | 4929 | 4933 |
| 10° | 4929 | 4925 | 4931 |
| 15° | 4911 | 4911 | 4917 |
| 20° | 4889 | 4885 | 4889 |
| 25° | 4853 | 4842 | 4836 |
| 30° | 4789 | 4771 | 4767 |
| 35° | 4693 | 4665 | 4646 |
| 40° | 4520 | 4477 | 4431 |
| 45° | 4284 | 4158 | 4086 |
| 50° | 3930 | 3710 | 3604 |
| 55° | 3497 | 3186 | 3138 |
| 60° | 3029 | 2722 | 2676 |
| 65° | 2555 | 2334 | 2307 |
| 70° | 2169 | 1998 | 2010 |
| 75° | 1703 | 1628 | 1643 |
| 80° | 1241 | 1219 | 1230 |
| 85° | 758  | 802  | 802  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4284 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 326.5  | 4.0       |
| 10°-20°   | 936.3  | 11.4      |
| 20°-30°   | 1413.4 | 17.3      |
| 30°-40°   | 1666.6 | 20.4      |
| 40°-50°   | 1583.5 | 19.3      |
| 50°-60°   | 1168.5 | 14.3      |
| 60°-70°   | 705.3  | 8.6       |
| 70°-80°   | 322.8  | 3.9       |
| 80°-90°   | 63.0   | 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°    | 2676.2 | 32.7      |
| 0°-40°    | 4342.8 | 53.1      |
| 0°-60°    | 7094.9 | 86.7      |
| 0°-90°    | 8186.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8186.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3447 | 3447  | 3447 | 3447  | 3447 |      |
| 5°  | 3436 | 3438  | 3434 | 3431  | 3436 | 327  |
| 15° | 3317 | 3318  | 3317 | 3316  | 3321 | 936  |
| 25° | 3075 | 3074  | 3068 | 3063  | 3064 | 1416 |
| 35° | 2688 | 2684  | 2672 | 2661  | 2661 | 1676 |
| 45° | 2118 | 2103  | 2056 | 2027  | 2020 | 1626 |
| 55° | 1403 | 1346  | 1278 | 1248  | 1259 | 1256 |
| 65° | 755  | 730   | 690  | 676   | 682  | 759  |
| 75° | 308  | 303   | 295  | 291   | 297  | 336  |
| 85° | 46   | 48    | 49   | 48    | 49   | 62   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3447.3 | 3447.3 | 3447.3 | 3447.3 | 3447.3 |
| 2.5°  | 3447.3 | 3447.3 | 3444.6 | 3441.9 | 3450.0 |
| 5°    | 3436.5 | 3437.8 | 3433.7 | 3431.0 | 3436.5 |
| 7.5°  | 3420.2 | 3420.2 | 3416.1 | 3413.4 | 3418.8 |
| 10°   | 3394.4 | 3394.4 | 3391.7 | 3390.3 | 3395.7 |
| 12.5° | 3360.4 | 3361.8 | 3359.1 | 3357.7 | 3364.5 |
| 15°   | 3317.0 | 3318.3 | 3317.0 | 3315.6 | 3321.1 |
| 17.5° | 3270.8 | 3272.2 | 3269.5 | 3265.4 | 3270.8 |
| 20°   | 3212.4 | 3215.1 | 3209.7 | 3207.0 | 3212.4 |
| 22.5° | 3147.3 | 3150.0 | 3144.5 | 3141.8 | 3141.8 |
| 25°   | 3075.3 | 3073.9 | 3068.5 | 3063.1 | 3064.4 |
| 27.5° | 2991.1 | 2992.5 | 2984.3 | 2978.9 | 2983.0 |
| 30°   | 2900.2 | 2901.5 | 2889.3 | 2885.2 | 2886.6 |
| 32.5° | 2798.3 | 2797.0 | 2786.1 | 2779.3 | 2779.3 |
| 35°   | 2688.3 | 2684.3 | 2672.0 | 2661.2 | 2661.2 |
| 37.5° | 2560.7 | 2558.0 | 2544.4 | 2530.8 | 2526.8 |
| 40°   | 2420.9 | 2418.1 | 2397.8 | 2380.1 | 2373.3 |
| 42.5° | 2276.9 | 2268.8 | 2236.2 | 2209.1 | 2202.3 |
| 45°   | 2118.1 | 2103.2 | 2055.6 | 2027.1 | 2020.3 |
| 47.5° | 1947.0 | 1928.0 | 1862.8 | 1830.2 | 1827.5 |
| 50°   | 1766.4 | 1732.5 | 1667.3 | 1625.2 | 1619.8 |
| 52.5° | 1584.5 | 1535.6 | 1460.9 | 1429.7 | 1437.9 |
| 55°   | 1402.6 | 1345.5 | 1277.6 | 1247.8 | 1258.6 |
| 57.5° | 1226.0 | 1166.3 | 1107.9 | 1078.1 | 1084.8 |
| 60°   | 1059.0 | 1007.4 | 951.8  | 927.3  | 935.5  |
| 62.5° | 894.8  | 862.2  | 814.6  | 792.9  | 803.8  |
| 65°   | 754.9  | 730.5  | 689.7  | 676.2  | 681.6  |
| 67.5° | 632.7  | 613.7  | 578.4  | 567.5  | 575.7  |
| 70°   | 518.7  | 505.1  | 477.9  | 473.9  | 480.6  |
| 72.5° | 410.0  | 401.9  | 387.0  | 380.2  | 384.2  |
| 75°   | 308.2  | 302.8  | 294.6  | 290.6  | 297.3  |
| 77.5° | 222.7  | 218.6  | 215.9  | 215.9  | 217.2  |
| 80°   | 150.7  | 149.4  | 148.0  | 146.6  | 149.4  |
| 82.5° | 92.3   | 92.3   | 92.3   | 92.3   | 93.7   |
| 85°   | 46.2   | 47.5   | 48.9   | 47.5   | 48.9   |
| 87.5° | 14.9   | 16.3   | 17.7   | 17.7   | 19.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)