

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P738153

Luminaire Tested: **22PT-35-PP3-L840**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P738153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P412714)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-35-PP3-L840  
Description: 3500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PRISM LENS

Light Source: -  
Ballast/Driver: -

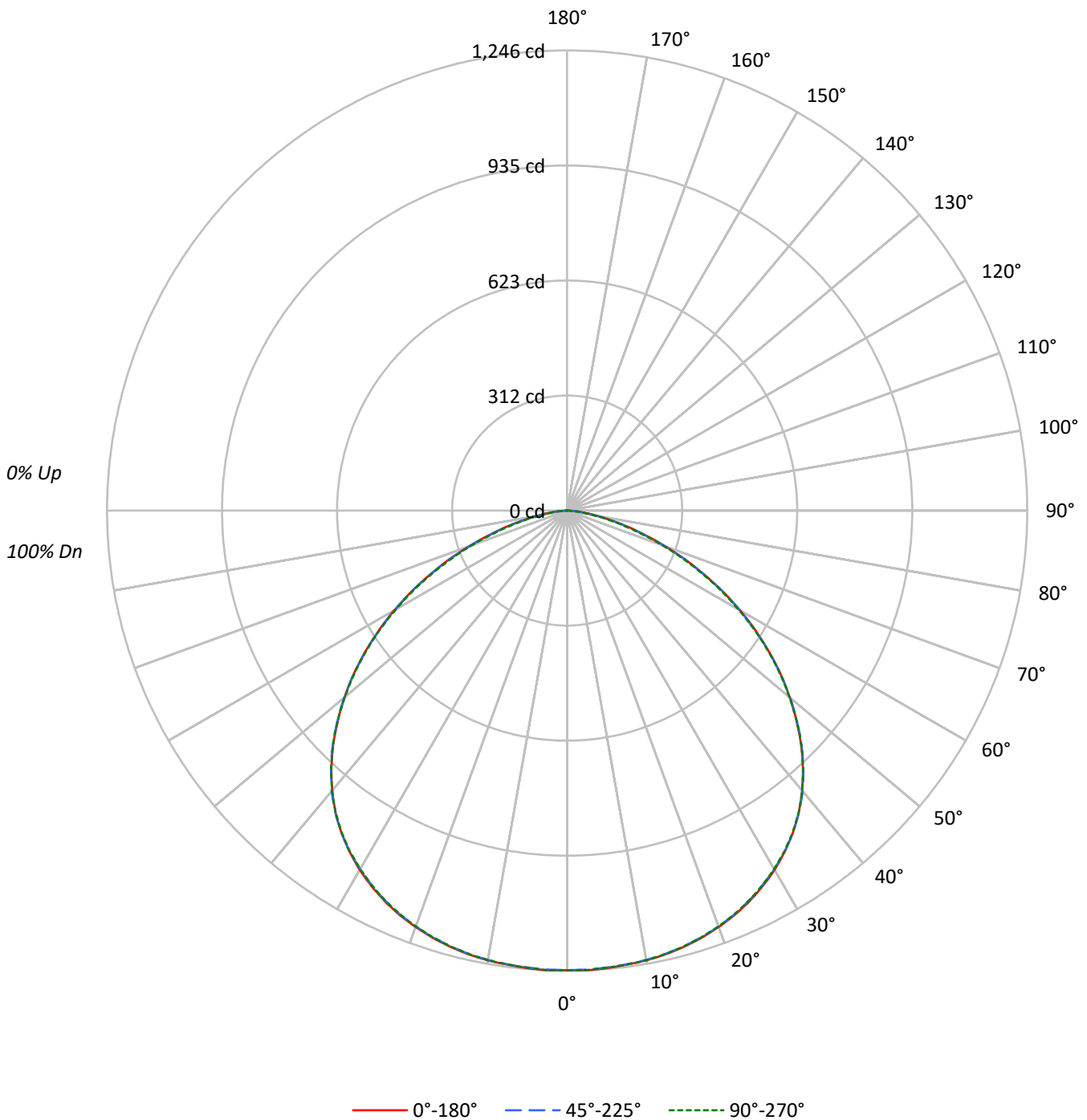
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3570.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 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  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 47  | 57  | 51  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 48  | 42  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |
| 7   | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 37  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 28  |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3646 | 3646 | 3646 |
| 5°  | 3657 | 3652 | 3655 |
| 10° | 3680 | 3675 | 3677 |
| 15° | 3709 | 3705 | 3705 |
| 20° | 3741 | 3737 | 3736 |
| 25° | 3774 | 3768 | 3768 |
| 30° | 3801 | 3794 | 3792 |
| 35° | 3812 | 3812 | 3807 |
| 40° | 3787 | 3795 | 3787 |
| 45° | 3712 | 3722 | 3717 |
| 50° | 3587 | 3592 | 3583 |
| 55° | 3414 | 3406 | 3400 |
| 60° | 3170 | 3163 | 3138 |
| 65° | 2831 | 2829 | 2797 |
| 70° | 2420 | 2406 | 2352 |
| 75° | 1928 | 1871 | 1815 |
| 80° | 1374 | 1347 | 1276 |
| 85° | 894  | 894  | 864  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 118.3  | 3.3       |
| 10°-20°   | 345.2  | 9.7       |
| 20°-30°   | 537.5  | 15.1      |
| 30°-40°   | 665.2  | 18.6      |
| 40°-50°   | 689.8  | 19.3      |
| 50°-60°   | 594.5  | 16.7      |
| 60°-70°   | 404.2  | 11.3      |
| 70°-80°   | 180.9  | 5.1       |
| 80°-90°   | 34.4   | 1.0       |
| 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°    | 1001.0 | 28.0      |
| 0°-40°    | 1666.2 | 46.7      |
| 0°-60°    | 2950.5 | 82.6      |
| 0°-90°    | 3570.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3570.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1244 | 1244  | 1244 | 1244  | 1244 |      |
| 5°  | 1244 | 1241  | 1242 | 1241  | 1243 | 118  |
| 15° | 1223 | 1221  | 1221 | 1221  | 1221 | 346  |
| 25° | 1168 | 1166  | 1165 | 1165  | 1165 | 538  |
| 35° | 1066 | 1064  | 1066 | 1064  | 1064 | 666  |
| 45° | 896  | 895   | 898  | 896   | 897  | 689  |
| 55° | 668  | 666   | 667  | 666   | 666  | 596  |
| 65° | 408  | 412   | 408  | 407   | 403  | 406  |
| 75° | 170  | 171   | 165  | 164   | 160  | 183  |
| 85° | 27   | 27    | 27   | 26    | 26   | 35   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 |
| 2.5°  | 1246.0 | 1243.5 | 1243.5 | 1243.9 | 1245.2 |
| 5°    | 1243.5 | 1241.0 | 1241.8 | 1241.4 | 1242.6 |
| 7.5°  | 1240.2 | 1238.1 | 1239.4 | 1238.4 | 1239.4 |
| 10°   | 1236.8 | 1234.7 | 1235.2 | 1234.7 | 1236.0 |
| 12.5° | 1231.0 | 1228.5 | 1229.4 | 1229.4 | 1229.8 |
| 15°   | 1222.7 | 1220.6 | 1221.4 | 1220.6 | 1221.4 |
| 17.5° | 1212.7 | 1210.2 | 1210.7 | 1210.2 | 1211.1 |
| 20°   | 1199.9 | 1198.2 | 1198.6 | 1197.8 | 1198.2 |
| 22.5° | 1185.3 | 1183.2 | 1183.7 | 1182.9 | 1182.9 |
| 25°   | 1167.5 | 1165.7 | 1165.4 | 1164.9 | 1165.4 |
| 27.5° | 1146.6 | 1144.6 | 1144.6 | 1144.2 | 1144.2 |
| 30°   | 1123.4 | 1121.3 | 1121.3 | 1120.9 | 1120.9 |
| 32.5° | 1095.9 | 1095.1 | 1095.6 | 1094.8 | 1094.3 |
| 35°   | 1065.6 | 1064.4 | 1065.6 | 1064.0 | 1064.4 |
| 37.5° | 1030.3 | 1028.7 | 1031.2 | 1029.5 | 1029.9 |
| 40°   | 990.0  | 989.2  | 992.1  | 990.8  | 990.0  |
| 42.5° | 945.2  | 945.2  | 946.5  | 946.8  | 946.0  |
| 45°   | 895.8  | 895.0  | 898.2  | 896.1  | 896.9  |
| 47.5° | 842.5  | 841.4  | 843.8  | 843.3  | 843.0  |
| 50°   | 786.9  | 786.0  | 788.1  | 786.0  | 786.0  |
| 52.5° | 729.2  | 728.7  | 729.2  | 727.1  | 726.6  |
| 55°   | 668.4  | 666.0  | 666.8  | 665.5  | 665.5  |
| 57.5° | 605.3  | 602.4  | 602.9  | 602.4  | 602.9  |
| 60°   | 541.0  | 540.0  | 539.7  | 537.6  | 535.5  |
| 62.5° | 474.9  | 475.7  | 475.3  | 472.4  | 470.3  |
| 65°   | 408.4  | 411.8  | 408.0  | 406.8  | 403.4  |
| 67.5° | 345.7  | 346.9  | 344.4  | 341.5  | 337.8  |
| 70°   | 282.5  | 285.0  | 280.8  | 277.9  | 274.6  |
| 72.5° | 222.3  | 223.9  | 220.2  | 218.6  | 214.4  |
| 75°   | 170.3  | 170.8  | 165.3  | 164.5  | 160.3  |
| 77.5° | 121.3  | 122.9  | 118.8  | 118.8  | 114.7  |
| 80°   | 81.4   | 84.4   | 79.8   | 78.5   | 75.6   |
| 82.5° | 51.2   | 51.5   | 50.2   | 49.1   | 47.8   |
| 85°   | 26.6   | 27.4   | 26.6   | 25.7   | 25.7   |
| 87.5° | 10.0   | 10.4   | 10.0   | 9.6    | 10.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)