

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: P413048

Luminaire Tested: **22PD-25-PC3-L840**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P413048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-25-PC3-L840  
Description: 2500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

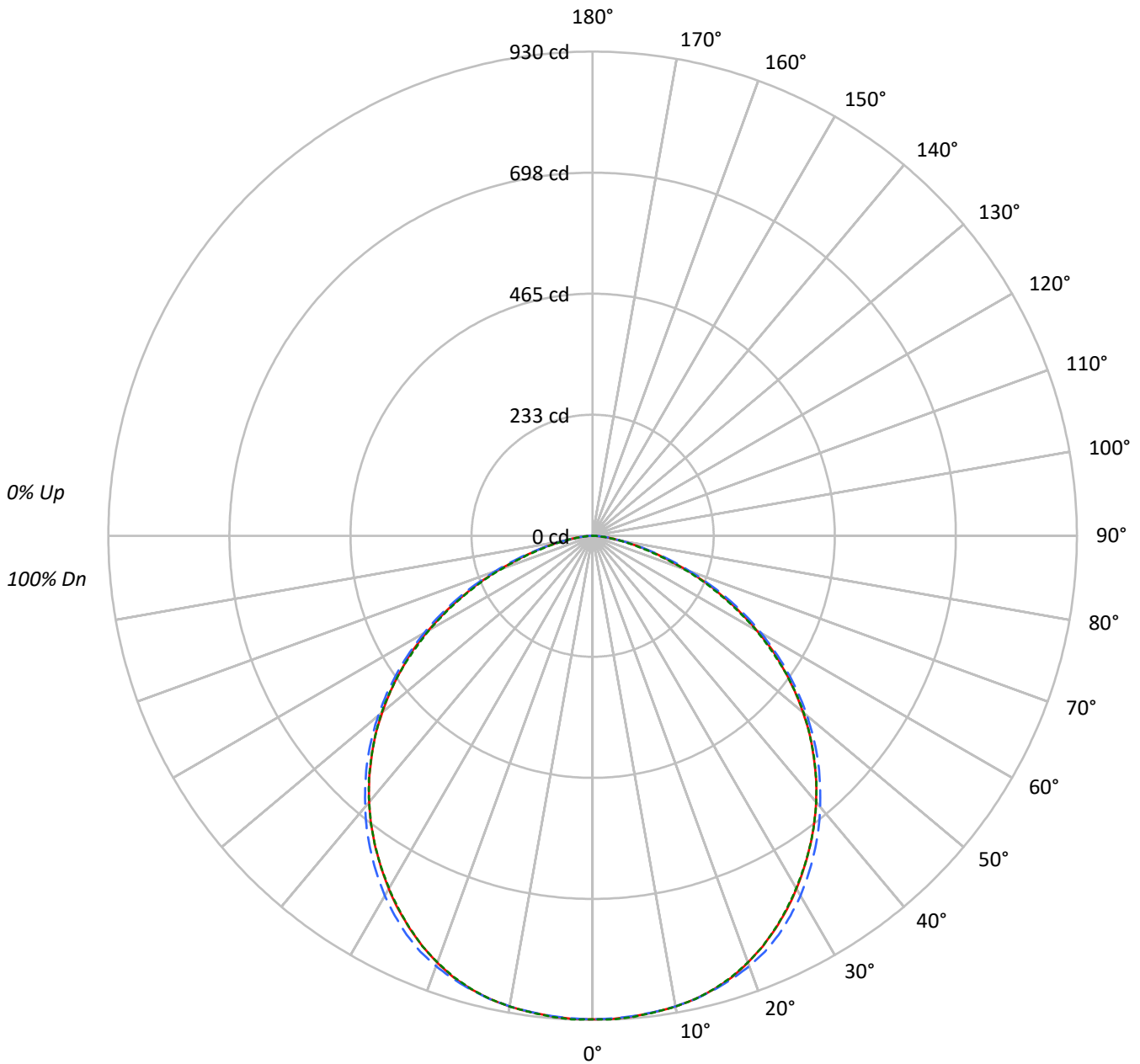
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2495.0 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.9  
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  | 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   | 110 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |   |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 76  | 80  | 77  | 74  | 72  |    |    |   |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 61  |    |    |   |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |    |    |   |
| 5   | 77  | 65  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 47  | 45  |    |    |   |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 43  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |    |    |   |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |   |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 33  | 31  |    |    |   |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |    |    |   |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 38  | 32  | 27  | 26  |    |    |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2499 | 2499 | 2499 |
| 5°  | 2502 | 2501 | 2504 |
| 10° | 2509 | 2508 | 2509 |
| 15° | 2512 | 2515 | 2511 |
| 20° | 2499 | 2519 | 2497 |
| 25° | 2470 | 2510 | 2468 |
| 30° | 2433 | 2481 | 2430 |
| 35° | 2391 | 2439 | 2391 |
| 40° | 2346 | 2388 | 2346 |
| 45° | 2285 | 2329 | 2288 |
| 50° | 2206 | 2249 | 2215 |
| 55° | 2104 | 2145 | 2104 |
| 60° | 1962 | 2011 | 1949 |
| 65° | 1761 | 1822 | 1738 |
| 70° | 1506 | 1559 | 1462 |
| 75° | 1195 | 1229 | 1133 |
| 80° | 855  | 888  | 815  |
| 85° | 565  | 584  | 528  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 88.1   | 3.5       |
| 10°-20°   | 254.5  | 10.2      |
| 20°-30°   | 386.2  | 15.5      |
| 30°-40°   | 461.2  | 18.5      |
| 40°-50°   | 469.0  | 18.8      |
| 50°-60°   | 405.7  | 16.3      |
| 60°-70°   | 279.2  | 11.2      |
| 70°-80°   | 126.7  | 5.1       |
| 80°-90°   | 24.5   | 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°    | 728.8  | 29.2      |
| 0°-40°    | 1190.0 | 47.7      |
| 0°-60°    | 2064.6 | 82.8      |
| 0°-90°    | 2495.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2495.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 929 | 929   | 929 | 929   | 929 |      |
| 5°  | 926 | 926   | 926 | 926   | 927 | 88   |
| 15° | 902 | 902   | 903 | 901   | 901 | 254  |
| 25° | 832 | 839   | 845 | 838   | 831 | 383  |
| 35° | 728 | 741   | 742 | 740   | 728 | 455  |
| 45° | 600 | 611   | 612 | 612   | 601 | 463  |
| 55° | 448 | 456   | 457 | 456   | 448 | 401  |
| 65° | 276 | 284   | 286 | 284   | 273 | 274  |
| 75° | 115 | 119   | 118 | 117   | 109 | 124  |
| 85° | 18  | 20    | 19  | 18    | 17  | 24   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 928.7 | 928.7 | 928.7 | 928.7 | 928.7 |
| 2.5°  | 928.7 | 927.6 | 927.8 | 928.1 | 929.9 |
| 5°    | 926.4 | 925.5 | 925.8 | 925.8 | 927.0 |
| 7.5°  | 922.5 | 922.2 | 922.2 | 921.9 | 922.8 |
| 10°   | 918.1 | 917.5 | 917.8 | 917.5 | 918.1 |
| 12.5° | 911.3 | 911.3 | 911.6 | 910.7 | 911.3 |
| 15°   | 901.6 | 902.1 | 902.7 | 901.3 | 901.3 |
| 17.5° | 889.2 | 890.6 | 892.1 | 889.4 | 888.0 |
| 20°   | 872.6 | 876.2 | 879.7 | 875.6 | 872.0 |
| 22.5° | 853.4 | 859.3 | 864.6 | 858.1 | 853.4 |
| 25°   | 831.8 | 839.2 | 845.4 | 837.8 | 831.3 |
| 27.5° | 808.5 | 816.8 | 822.7 | 816.2 | 807.3 |
| 30°   | 783.1 | 793.1 | 798.5 | 792.3 | 781.9 |
| 32.5° | 755.9 | 767.7 | 771.0 | 767.2 | 755.3 |
| 35°   | 727.9 | 740.9 | 742.3 | 739.7 | 727.9 |
| 37.5° | 698.6 | 711.0 | 712.2 | 710.7 | 698.6 |
| 40°   | 667.9 | 679.4 | 679.7 | 679.7 | 667.9 |
| 42.5° | 635.1 | 646.3 | 646.3 | 646.0 | 636.0 |
| 45°   | 600.3 | 611.2 | 612.1 | 611.5 | 601.1 |
| 47.5° | 565.7 | 574.0 | 575.4 | 574.3 | 565.1 |
| 50°   | 527.0 | 535.6 | 537.3 | 536.1 | 529.1 |
| 52.5° | 488.6 | 496.6 | 498.3 | 497.5 | 489.5 |
| 55°   | 448.4 | 456.1 | 457.3 | 456.4 | 448.4 |
| 57.5° | 409.7 | 414.7 | 415.9 | 414.1 | 404.1 |
| 60°   | 364.5 | 371.6 | 373.7 | 371.6 | 362.2 |
| 62.5° | 320.8 | 328.5 | 330.3 | 327.3 | 317.3 |
| 65°   | 276.5 | 284.2 | 286.2 | 283.9 | 272.9 |
| 67.5° | 234.5 | 240.2 | 241.9 | 239.3 | 229.2 |
| 70°   | 191.4 | 198.5 | 198.2 | 194.7 | 185.8 |
| 72.5° | 148.9 | 158.6 | 156.9 | 154.8 | 145.0 |
| 75°   | 114.9 | 119.3 | 118.2 | 117.0 | 109.0 |
| 77.5° | 82.1  | 87.4  | 84.5  | 84.8  | 78.0  |
| 80°   | 55.2  | 60.3  | 57.3  | 56.1  | 52.6  |
| 82.5° | 35.2  | 37.2  | 36.6  | 36.0  | 32.8  |
| 85°   | 18.3  | 19.5  | 18.9  | 18.3  | 17.1  |
| 87.5° | 7.1   | 7.7   | 7.1   | 7.1   | 6.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







(END OF REPORT)