

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: P413134

Luminaire Tested: **22PD-70-PC3-L940**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P413134  
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-70-PC3-L940  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

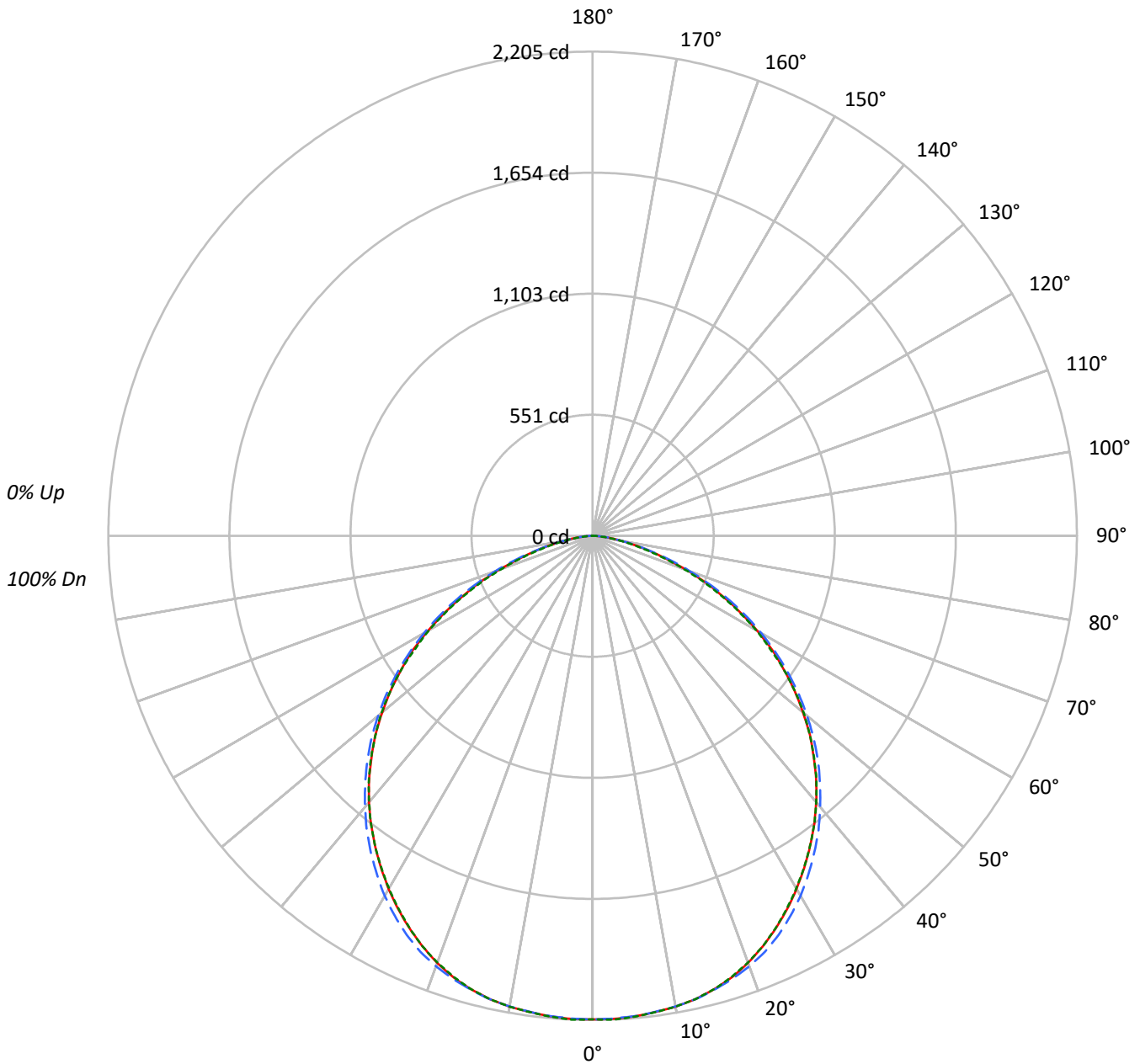
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5917.0 lumens  
Efficiency: N/A  
Efficacy: 92.6 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): 63.9  
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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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°  | 5927 | 5927 | 5927 |
| 5°  | 5934 | 5931 | 5938 |
| 10° | 5949 | 5948 | 5949 |
| 15° | 5957 | 5964 | 5955 |
| 20° | 5926 | 5974 | 5922 |
| 25° | 5858 | 5953 | 5853 |
| 30° | 5771 | 5884 | 5762 |
| 35° | 5671 | 5783 | 5671 |
| 40° | 5564 | 5663 | 5564 |
| 45° | 5417 | 5524 | 5425 |
| 50° | 5232 | 5335 | 5253 |
| 55° | 4989 | 5088 | 4989 |
| 60° | 4653 | 4769 | 4623 |
| 65° | 4175 | 4322 | 4122 |
| 70° | 3572 | 3699 | 3467 |
| 75° | 2833 | 2913 | 2688 |
| 80° | 2030 | 2106 | 1932 |
| 85° | 1340 | 1383 | 1254 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 209.0  | 3.5       |
| 10°-20°   | 603.6  | 10.2      |
| 20°-30°   | 915.8  | 15.5      |
| 30°-40°   | 1093.7 | 18.5      |
| 40°-50°   | 1112.3 | 18.8      |
| 50°-60°   | 962.1  | 16.3      |
| 60°-70°   | 662.0  | 11.2      |
| 70°-80°   | 300.5  | 5.1       |
| 80°-90°   | 58.2   | 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°    | 1728.4 | 29.2      |
| 0°-40°    | 2822.0 | 47.7      |
| 0°-60°    | 4896.4 | 82.8      |
| 0°-90°    | 5917.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5917.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2202 | 2202  | 2202 | 2202  | 2202 |      |
| 5°  | 2197 | 2195  | 2196 | 2196  | 2198 | 209  |
| 15° | 2138 | 2140  | 2141 | 2137  | 2137 | 603  |
| 25° | 1973 | 1990  | 2005 | 1987  | 1971 | 909  |
| 35° | 1726 | 1757  | 1760 | 1754  | 1726 | 1080 |
| 45° | 1424 | 1449  | 1452 | 1450  | 1426 | 1098 |
| 55° | 1063 | 1082  | 1084 | 1082  | 1063 | 950  |
| 65° | 656  | 674   | 679  | 673   | 647  | 651  |
| 75° | 272  | 283   | 280  | 277   | 258  | 293  |
| 85° | 43   | 46    | 45   | 43    | 41   | 57   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2202.5 | 2202.5 | 2202.5 | 2202.5 | 2202.5 |
| 2.5°  | 2202.5 | 2199.7 | 2200.4 | 2201.1 | 2205.3 |
| 5°    | 2196.9 | 2194.8 | 2195.5 | 2195.5 | 2198.3 |
| 7.5°  | 2187.8 | 2187.1 | 2187.1 | 2186.4 | 2188.5 |
| 10°   | 2177.3 | 2175.9 | 2176.6 | 2175.9 | 2177.3 |
| 12.5° | 2161.2 | 2161.2 | 2161.9 | 2159.8 | 2161.2 |
| 15°   | 2138.1 | 2139.5 | 2140.9 | 2137.4 | 2137.4 |
| 17.5° | 2108.7 | 2112.2 | 2115.7 | 2109.4 | 2105.9 |
| 20°   | 2069.4 | 2077.8 | 2086.2 | 2076.4 | 2068.0 |
| 22.5° | 2023.9 | 2037.9 | 2050.5 | 2035.1 | 2023.9 |
| 25°   | 1972.8 | 1990.3 | 2005.0 | 1986.8 | 1971.4 |
| 27.5° | 1917.4 | 1937.0 | 1951.0 | 1935.6 | 1914.6 |
| 30°   | 1857.2 | 1881.0 | 1893.6 | 1878.9 | 1854.4 |
| 32.5° | 1792.7 | 1820.7 | 1828.4 | 1819.3 | 1791.3 |
| 35°   | 1726.2 | 1757.0 | 1760.5 | 1754.2 | 1726.2 |
| 37.5° | 1656.8 | 1686.2 | 1689.0 | 1685.5 | 1656.8 |
| 40°   | 1583.9 | 1611.3 | 1612.0 | 1612.0 | 1583.9 |
| 42.5° | 1506.2 | 1532.8 | 1532.8 | 1532.1 | 1508.3 |
| 45°   | 1423.5 | 1449.4 | 1451.5 | 1450.1 | 1425.6 |
| 47.5° | 1341.6 | 1361.2 | 1364.7 | 1361.9 | 1340.2 |
| 50°   | 1249.8 | 1270.1 | 1274.3 | 1271.5 | 1254.7 |
| 52.5° | 1158.7 | 1177.6 | 1181.8 | 1179.7 | 1160.8 |
| 55°   | 1063.4 | 1081.7 | 1084.5 | 1082.4 | 1063.4 |
| 57.5° | 971.7  | 983.6  | 986.4  | 982.2  | 958.4  |
| 60°   | 864.5  | 881.3  | 886.2  | 881.3  | 858.9  |
| 62.5° | 760.8  | 779.0  | 783.2  | 776.2  | 752.4  |
| 65°   | 655.7  | 673.9  | 678.8  | 673.2  | 647.3  |
| 67.5° | 556.2  | 569.5  | 573.8  | 567.4  | 543.6  |
| 70°   | 454.0  | 470.8  | 470.1  | 461.7  | 440.6  |
| 72.5° | 353.1  | 376.2  | 372.0  | 367.1  | 344.0  |
| 75°   | 272.5  | 283.0  | 280.2  | 277.4  | 258.5  |
| 77.5° | 194.8  | 207.4  | 200.4  | 201.1  | 184.9  |
| 80°   | 131.0  | 142.9  | 135.9  | 133.1  | 124.7  |
| 82.5° | 83.4   | 88.3   | 86.9   | 85.5   | 77.8   |
| 85°   | 43.4   | 46.2   | 44.8   | 43.4   | 40.6   |
| 87.5° | 16.8   | 18.2   | 16.8   | 16.8   | 15.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)