

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: P413097

Luminaire Tested: **22PD-50-PC3-L935**

Issue Date: 9/15/2020



**Test Information**

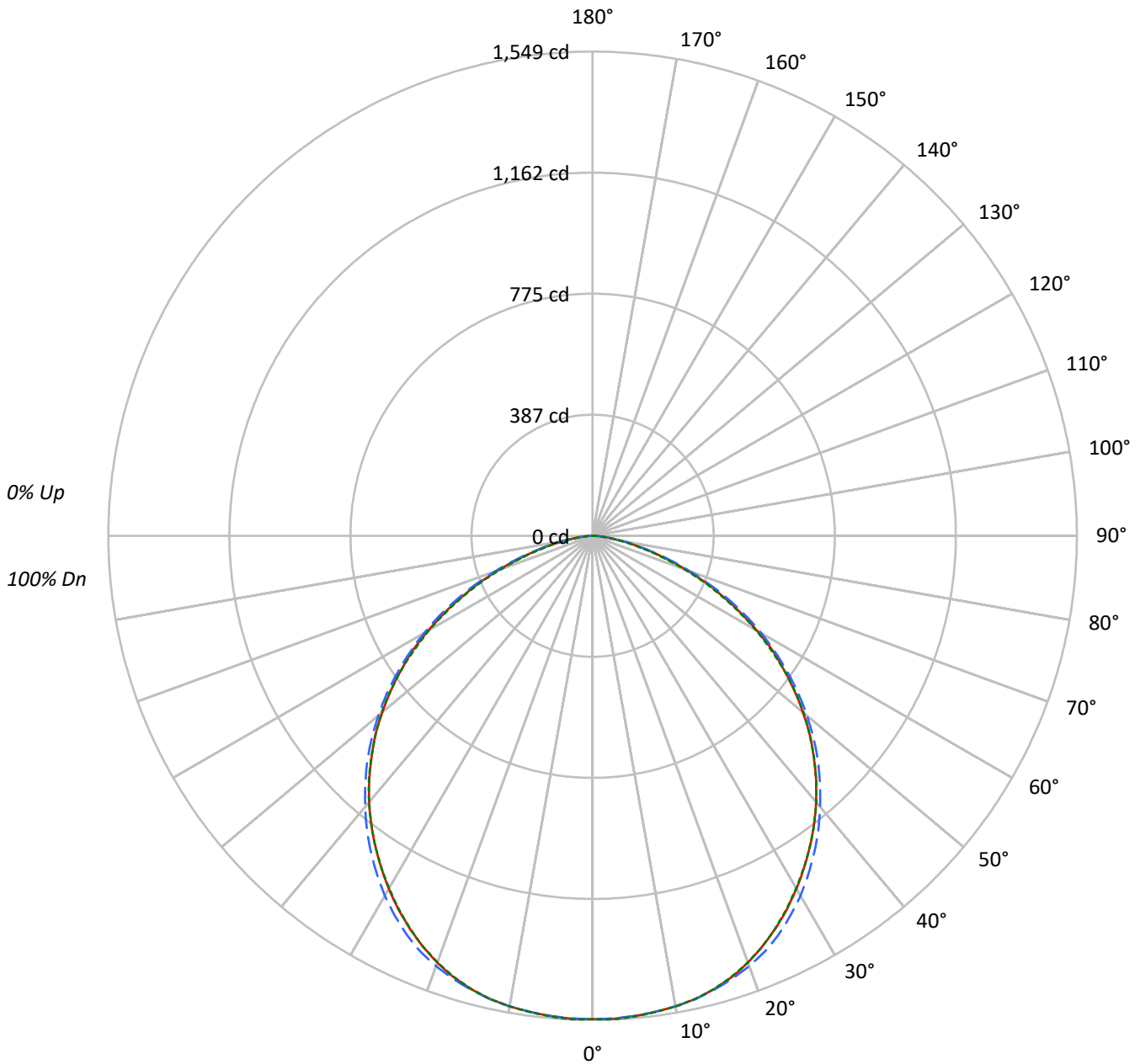
Test Method: LM-79-08  
Report Number: P413097  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-50-PC3-L935  
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4155.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 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): 41.9  
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°  | 4162 | 4162 | 4162 |
| 5°  | 4167 | 4165 | 4170 |
| 10° | 4178 | 4176 | 4178 |
| 15° | 4183 | 4188 | 4181 |
| 20° | 4161 | 4195 | 4159 |
| 25° | 4113 | 4180 | 4110 |
| 30° | 4052 | 4132 | 4046 |
| 35° | 3982 | 4061 | 3982 |
| 40° | 3907 | 3976 | 3907 |
| 45° | 3804 | 3879 | 3810 |
| 50° | 3674 | 3746 | 3689 |
| 55° | 3504 | 3573 | 3504 |
| 60° | 3267 | 3349 | 3246 |
| 65° | 2932 | 3035 | 2895 |
| 70° | 2508 | 2597 | 2434 |
| 75° | 1990 | 2046 | 1887 |
| 80° | 1426 | 1478 | 1358 |
| 85° | 942  | 973  | 880  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.7  | 3.5       |
| 10°-20°   | 423.9  | 10.2      |
| 20°-30°   | 643.1  | 15.5      |
| 30°-40°   | 768.0  | 18.5      |
| 40°-50°   | 781.0  | 18.8      |
| 50°-60°   | 675.6  | 16.3      |
| 60°-70°   | 464.9  | 11.2      |
| 70°-80°   | 211.0  | 5.1       |
| 80°-90°   | 40.8   | 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°    | 1213.7 | 29.2      |
| 0°-40°    | 1981.7 | 47.7      |
| 0°-60°    | 3438.3 | 82.8      |
| 0°-90°    | 4155.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4155.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1547 | 1547  | 1547 | 1547  | 1547 |      |
| 5°  | 1543 | 1541  | 1542 | 1542  | 1544 | 147  |
| 15° | 1501 | 1502  | 1503 | 1501  | 1501 | 423  |
| 25° | 1385 | 1398  | 1408 | 1395  | 1384 | 638  |
| 35° | 1212 | 1234  | 1236 | 1232  | 1212 | 758  |
| 45° | 1000 | 1018  | 1019 | 1018  | 1001 | 771  |
| 55° | 747  | 760   | 762  | 760   | 747  | 667  |
| 65° | 460  | 473   | 477  | 473   | 455  | 457  |
| 75° | 191  | 199   | 197  | 195   | 182  | 206  |
| 85° | 30   | 32    | 32   | 30    | 28   | 40   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1546.7 | 1546.7 | 1546.7 | 1546.7 | 1546.7 |
| 2.5°  | 1546.7 | 1544.7 | 1545.2 | 1545.7 | 1548.6 |
| 5°    | 1542.7 | 1541.2 | 1541.7 | 1541.7 | 1543.7 |
| 7.5°  | 1536.3 | 1535.8 | 1535.8 | 1535.3 | 1536.8 |
| 10°   | 1528.9 | 1528.0 | 1528.4 | 1528.0 | 1528.9 |
| 12.5° | 1517.6 | 1517.6 | 1518.1 | 1516.6 | 1517.6 |
| 15°   | 1501.4 | 1502.4 | 1503.4 | 1500.9 | 1500.9 |
| 17.5° | 1480.7 | 1483.2 | 1485.7 | 1481.2 | 1478.8 |
| 20°   | 1453.2 | 1459.1 | 1465.0 | 1458.1 | 1452.2 |
| 22.5° | 1421.2 | 1431.0 | 1439.9 | 1429.1 | 1421.2 |
| 25°   | 1385.3 | 1397.6 | 1407.9 | 1395.1 | 1384.3 |
| 27.5° | 1346.4 | 1360.2 | 1370.0 | 1359.2 | 1344.5 |
| 30°   | 1304.1 | 1320.9 | 1329.7 | 1319.4 | 1302.2 |
| 32.5° | 1258.9 | 1278.5 | 1284.0 | 1277.6 | 1257.9 |
| 35°   | 1212.1 | 1233.8 | 1236.2 | 1231.8 | 1212.1 |
| 37.5° | 1163.4 | 1184.1 | 1186.1 | 1183.6 | 1163.4 |
| 40°   | 1112.3 | 1131.5 | 1131.9 | 1131.9 | 1112.3 |
| 42.5° | 1057.7 | 1076.4 | 1076.4 | 1075.9 | 1059.1 |
| 45°   | 999.6  | 1017.8 | 1019.3 | 1018.3 | 1001.1 |
| 47.5° | 942.1  | 955.8  | 958.3  | 956.3  | 941.1  |
| 50°   | 877.6  | 891.9  | 894.8  | 892.9  | 881.1  |
| 52.5° | 813.7  | 826.9  | 829.9  | 828.4  | 815.1  |
| 55°   | 746.8  | 759.6  | 761.5  | 760.0  | 746.8  |
| 57.5° | 682.3  | 690.7  | 692.6  | 689.7  | 673.0  |
| 60°   | 607.1  | 618.9  | 622.3  | 618.9  | 603.1  |
| 62.5° | 534.2  | 547.0  | 550.0  | 545.1  | 528.3  |
| 65°   | 460.5  | 473.2  | 476.7  | 472.8  | 454.6  |
| 67.5° | 390.6  | 399.9  | 402.9  | 398.5  | 381.7  |
| 70°   | 318.8  | 330.6  | 330.1  | 324.2  | 309.4  |
| 72.5° | 247.9  | 264.2  | 261.2  | 257.8  | 241.5  |
| 75°   | 191.4  | 198.7  | 196.8  | 194.8  | 181.5  |
| 77.5° | 136.8  | 145.6  | 140.7  | 141.2  | 129.9  |
| 80°   | 92.0   | 100.4  | 95.4   | 93.5   | 87.6   |
| 82.5° | 58.5   | 62.0   | 61.0   | 60.0   | 54.6   |
| 85°   | 30.5   | 32.5   | 31.5   | 30.5   | 28.5   |
| 87.5° | 11.8   | 12.8   | 11.8   | 11.8   | 10.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)