

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: P412652

Luminaire Tested: **14PD-40-PP3-L840**

Issue Date: 9/15/2020



**Test Information**

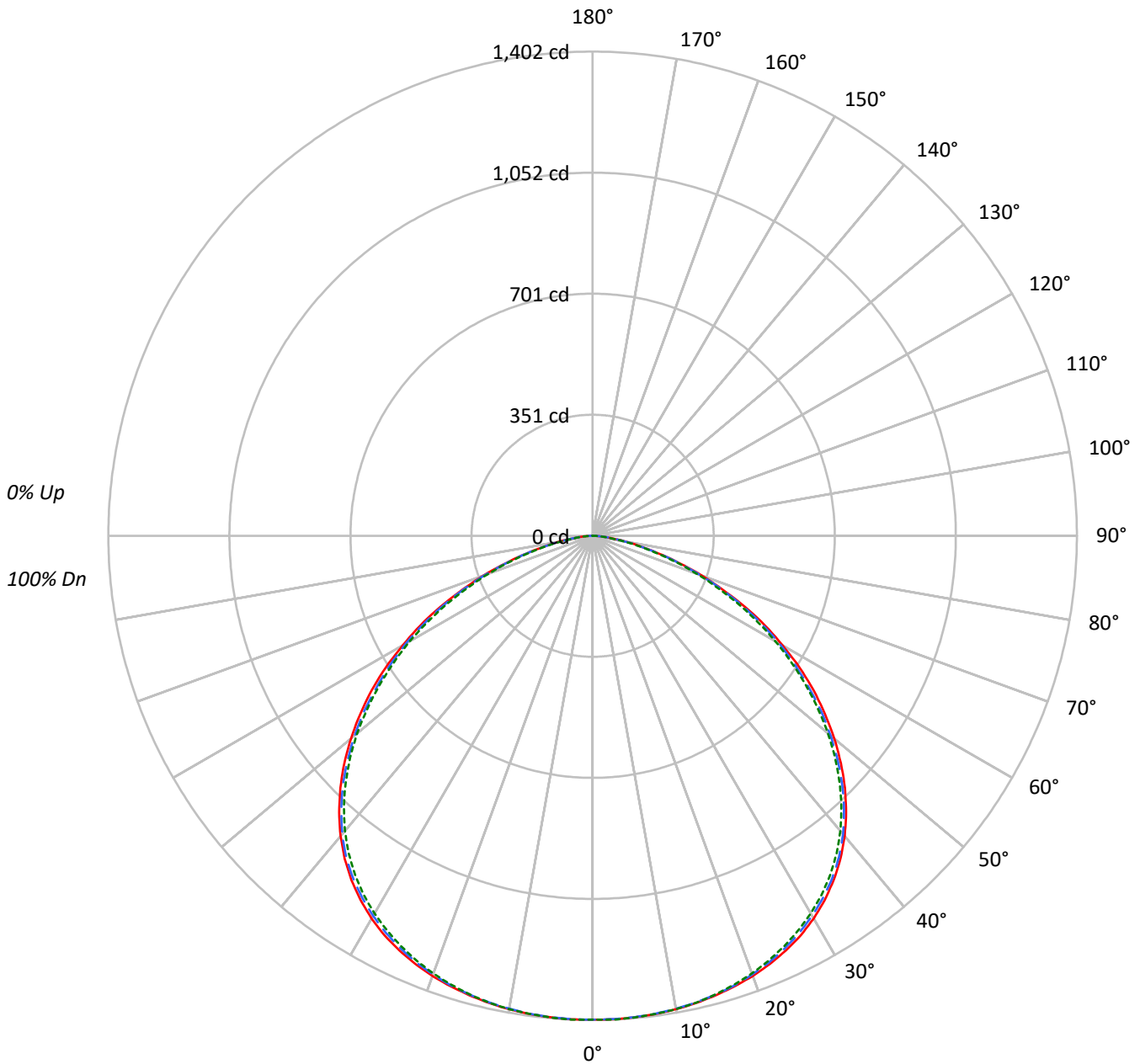
Test Method: LM-79-08  
Report Number: P412652  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-40-PP3-L840  
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4077.0 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.8  
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   | 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  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 71  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 63  | 60  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 83  | 72  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 52  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 54  | 48  | 61  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 45  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 58  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 52  | 46  | 41  | 39  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 66  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 36  | 34  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 32  | 31  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 57  | 44  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 40  | 34  | 29  | 27  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 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°  | 3770 | 3770 | 3770 |
| 5°  | 3780 | 3779 | 3781 |
| 10° | 3804 | 3800 | 3803 |
| 15° | 3838 | 3832 | 3830 |
| 20° | 3884 | 3871 | 3862 |
| 25° | 3933 | 3912 | 3894 |
| 30° | 3976 | 3949 | 3923 |
| 35° | 3998 | 3974 | 3938 |
| 40° | 3987 | 3963 | 3919 |
| 45° | 3930 | 3892 | 3848 |
| 50° | 3822 | 3761 | 3722 |
| 55° | 3664 | 3576 | 3530 |
| 60° | 3414 | 3355 | 3287 |
| 65° | 3095 | 3033 | 2944 |
| 70° | 2641 | 2593 | 2510 |
| 75° | 2063 | 2042 | 1944 |
| 80° | 1522 | 1458 | 1376 |
| 85° | 917  | 917  | 855  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.3  | 3.3       |
| 10°-20°   | 389.0  | 9.5       |
| 20°-30°   | 608.0  | 14.9      |
| 30°-40°   | 755.6  | 18.5      |
| 40°-50°   | 787.3  | 19.3      |
| 50°-60°   | 683.2  | 16.8      |
| 60°-70°   | 469.8  | 11.5      |
| 70°-80°   | 212.0  | 5.2       |
| 80°-90°   | 38.8   | 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°    | 1130.3 | 27.7      |
| 0°-40°    | 1885.9 | 46.3      |
| 0°-60°    | 3356.4 | 82.3      |
| 0°-90°    | 4077.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4077.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1401 | 1401  | 1401 | 1401  | 1401 |      |
| 5°  | 1400 | 1400  | 1399 | 1398  | 1400 | 133  |
| 15° | 1378 | 1378  | 1376 | 1374  | 1375 | 390  |
| 25° | 1324 | 1324  | 1318 | 1312  | 1312 | 611  |
| 35° | 1217 | 1217  | 1210 | 1203  | 1199 | 760  |
| 45° | 1033 | 1033  | 1023 | 1015  | 1011 | 795  |
| 55° | 781  | 777   | 762  | 753   | 752  | 696  |
| 65° | 486  | 484   | 476  | 465   | 462  | 480  |
| 75° | 198  | 199   | 196  | 191   | 187  | 216  |
| 85° | 30   | 29    | 30   | 29    | 28   | 40   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1401.1 | 1401.1 | 1401.1 | 1401.1 | 1401.1 |
| 2.5°  | 1401.6 | 1401.6 | 1400.7 | 1399.5 | 1402.4 |
| 5°    | 1399.5 | 1399.9 | 1399.1 | 1397.9 | 1399.9 |
| 7.5°  | 1396.7 | 1397.1 | 1395.8 | 1394.6 | 1396.3 |
| 10°   | 1392.2 | 1391.8 | 1390.6 | 1389.7 | 1391.8 |
| 12.5° | 1385.7 | 1385.3 | 1384.0 | 1383.2 | 1384.8 |
| 15°   | 1377.5 | 1377.5 | 1375.5 | 1374.3 | 1374.7 |
| 17.5° | 1367.7 | 1367.7 | 1364.9 | 1362.0 | 1362.8 |
| 20°   | 1356.3 | 1355.9 | 1351.8 | 1349.0 | 1348.6 |
| 22.5° | 1342.1 | 1342.1 | 1336.4 | 1332.7 | 1331.5 |
| 25°   | 1324.5 | 1324.1 | 1317.6 | 1312.3 | 1311.5 |
| 27.5° | 1304.6 | 1303.8 | 1296.0 | 1290.7 | 1288.7 |
| 30°   | 1279.7 | 1278.9 | 1270.8 | 1265.1 | 1262.6 |
| 32.5° | 1250.4 | 1251.6 | 1242.2 | 1235.7 | 1233.3 |
| 35°   | 1217.0 | 1217.0 | 1209.7 | 1202.7 | 1198.7 |
| 37.5° | 1178.7 | 1178.7 | 1171.8 | 1164.8 | 1159.9 |
| 40°   | 1135.1 | 1135.5 | 1128.2 | 1119.6 | 1115.5 |
| 42.5° | 1086.2 | 1087.0 | 1077.2 | 1070.3 | 1065.8 |
| 45°   | 1032.8 | 1033.2 | 1022.6 | 1014.9 | 1011.2 |
| 47.5° | 975.0  | 974.2  | 962.3  | 955.8  | 952.2  |
| 50°   | 913.0  | 911.4  | 898.4  | 892.3  | 889.0  |
| 52.5° | 848.3  | 845.0  | 833.6  | 824.6  | 821.8  |
| 55°   | 781.0  | 776.6  | 762.3  | 753.3  | 752.5  |
| 57.5° | 711.0  | 705.7  | 693.9  | 685.3  | 682.0  |
| 60°   | 634.4  | 633.1  | 623.4  | 613.2  | 610.7  |
| 62.5° | 562.7  | 559.0  | 550.4  | 538.2  | 537.0  |
| 65°   | 486.1  | 484.0  | 476.3  | 464.9  | 462.4  |
| 67.5° | 407.0  | 409.1  | 402.5  | 392.4  | 389.1  |
| 70°   | 335.7  | 336.9  | 329.6  | 320.2  | 319.0  |
| 72.5° | 264.0  | 266.1  | 259.9  | 253.8  | 252.6  |
| 75°   | 198.4  | 199.2  | 196.4  | 191.1  | 187.0  |
| 77.5° | 141.0  | 143.8  | 140.6  | 136.9  | 133.6  |
| 80°   | 98.2   | 93.7   | 94.1   | 92.5   | 88.8   |
| 82.5° | 59.1   | 57.0   | 56.6   | 55.0   | 53.4   |
| 85°   | 29.7   | 29.3   | 29.7   | 29.3   | 27.7   |
| 87.5° | 9.8    | 10.6   | 11.0   | 11.0   | 10.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)