

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: P737805

Luminaire Tested: **14PT-40-PB1-L940**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-40-PB1-L940
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND BEVEL LENS

Light Source: -
Ballast/Driver: -

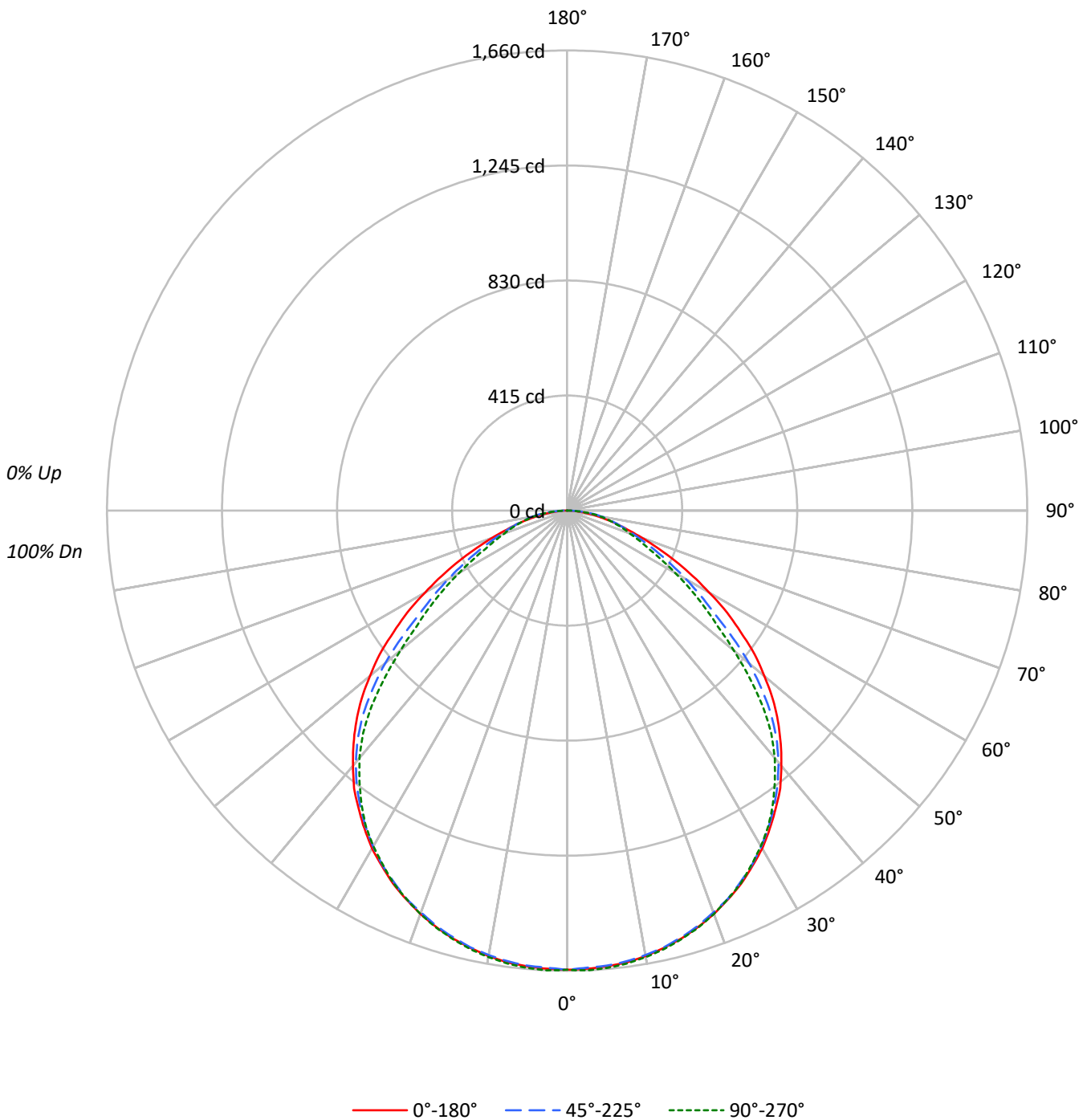
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4130.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): 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 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 93 | 90 | 91 | 89 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 |
| 3 | 92 | 82 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 68 | 64 | 62 |
| 4 | 85 | 73 | 65 | 59 | 83 | 72 | 64 | 58 | 70 | 63 | 58 | 67 | 62 | 57 | 65 | 60 | 56 | 54 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 55 | 50 | 59 | 54 | 49 | 47 |
| 6 | 72 | 60 | 51 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 44 | 42 |
| 7 | 67 | 54 | 46 | 40 | 66 | 53 | 45 | 40 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 37 |
| 8 | 63 | 50 | 41 | 36 | 61 | 49 | 41 | 36 | 48 | 41 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 59 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 30 |
| 10 | 55 | 42 | 34 | 29 | 54 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4966 | 4966 | 4966 |
| 5° | 4966 | 4960 | 4985 |
| 10° | 4968 | 4956 | 4980 |
| 15° | 4957 | 4945 | 4964 |
| 20° | 4940 | 4920 | 4940 |
| 25° | 4913 | 4893 | 4906 |
| 30° | 4873 | 4845 | 4838 |
| 35° | 4802 | 4765 | 4735 |
| 40° | 4704 | 4640 | 4561 |
| 45° | 4561 | 4414 | 4233 |
| 50° | 4333 | 4000 | 3658 |
| 55° | 3993 | 3397 | 3152 |
| 60° | 3555 | 2969 | 2699 |
| 65° | 3050 | 2572 | 2298 |
| 70° | 2518 | 2268 | 2107 |
| 75° | 2124 | 2171 | 2053 |
| 80° | 1794 | 2215 | 2110 |
| 85° | 1400 | 2243 | 1961 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 157.0 | 3.8 |
| 10°-20° | 450.6 | 10.9 |
| 20°-30° | 682.6 | 16.5 |
| 30°-40° | 813.4 | 19.7 |
| 40°-50° | 795.4 | 19.3 |
| 50°-60° | 601.6 | 14.6 |
| 60°-70° | 369.6 | 8.9 |
| 70°-80° | 196.9 | 4.8 |
| 80°-90° | 62.8 | 1.5 |
| 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° | 1290.3 | 31.2 |
| 0°-40° | 2103.7 | 50.9 |
| 0°-60° | 3500.7 | 84.8 |
| 0°-90° | 4130.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4130.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1656 | 1656 | 1656 | 1656 | 1656 | |
| 5° | 1650 | 1652 | 1648 | 1654 | 1656 | 157 |
| 15° | 1597 | 1599 | 1593 | 1599 | 1599 | 451 |
| 25° | 1485 | 1483 | 1479 | 1481 | 1483 | 684 |
| 35° | 1312 | 1310 | 1302 | 1296 | 1294 | 821 |
| 45° | 1076 | 1070 | 1041 | 1006 | 998 | 827 |
| 55° | 764 | 725 | 650 | 613 | 603 | 684 |
| 65° | 430 | 395 | 363 | 334 | 324 | 428 |
| 75° | 183 | 185 | 187 | 181 | 177 | 197 |
| 85° | 41 | 53 | 65 | 61 | 57 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P737805

CATALOG NUMBER: 14PT-40-PB1-L940

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1656.3 | 1656.3 | 1656.3 | 1656.3 | 1656.3 |
| 2.5° | 1654.3 | 1656.3 | 1650.2 | 1658.3 | 1660.4 |
| 5° | 1650.2 | 1652.2 | 1648.1 | 1654.3 | 1656.3 |
| 7.5° | 1644.1 | 1644.1 | 1640.0 | 1646.1 | 1648.1 |
| 10° | 1631.8 | 1631.8 | 1627.8 | 1633.9 | 1635.9 |
| 12.5° | 1615.5 | 1615.5 | 1613.5 | 1617.6 | 1619.6 |
| 15° | 1597.2 | 1599.2 | 1593.1 | 1599.2 | 1599.2 |
| 17.5° | 1574.8 | 1572.8 | 1570.7 | 1574.8 | 1576.8 |
| 20° | 1548.3 | 1548.3 | 1542.2 | 1546.3 | 1548.3 |
| 22.5° | 1517.8 | 1517.8 | 1515.7 | 1517.8 | 1515.7 |
| 25° | 1485.2 | 1483.1 | 1479.1 | 1481.1 | 1483.1 |
| 27.5° | 1446.5 | 1446.5 | 1442.4 | 1442.4 | 1440.3 |
| 30° | 1407.7 | 1405.7 | 1399.6 | 1395.5 | 1397.6 |
| 32.5° | 1360.9 | 1358.9 | 1352.7 | 1348.7 | 1350.7 |
| 35° | 1312.0 | 1310.0 | 1301.8 | 1295.7 | 1293.7 |
| 37.5° | 1263.1 | 1257.0 | 1246.8 | 1238.7 | 1230.5 |
| 40° | 1202.0 | 1195.9 | 1185.7 | 1167.3 | 1165.3 |
| 42.5° | 1140.9 | 1134.8 | 1118.5 | 1096.0 | 1089.9 |
| 45° | 1075.7 | 1069.6 | 1041.0 | 1006.4 | 998.3 |
| 47.5° | 1006.4 | 996.2 | 951.4 | 908.6 | 892.3 |
| 50° | 929.0 | 910.7 | 857.7 | 802.7 | 784.3 |
| 52.5° | 853.6 | 821.0 | 751.7 | 702.9 | 684.5 |
| 55° | 764.0 | 725.3 | 649.9 | 613.2 | 603.0 |
| 57.5° | 684.5 | 631.6 | 570.4 | 533.8 | 525.6 |
| 60° | 592.8 | 543.9 | 495.1 | 462.5 | 450.2 |
| 62.5° | 509.3 | 466.5 | 425.8 | 397.3 | 383.0 |
| 65° | 429.9 | 395.2 | 362.6 | 334.1 | 323.9 |
| 67.5° | 352.4 | 334.1 | 307.6 | 285.2 | 279.1 |
| 70° | 287.3 | 277.1 | 258.7 | 248.5 | 240.4 |
| 72.5° | 228.2 | 232.2 | 220.0 | 215.9 | 209.8 |
| 75° | 183.4 | 185.4 | 187.4 | 181.3 | 177.2 |
| 77.5° | 138.5 | 148.7 | 156.9 | 152.8 | 148.7 |
| 80° | 103.9 | 114.1 | 128.3 | 122.2 | 122.2 |
| 82.5° | 71.3 | 83.5 | 95.8 | 91.7 | 89.6 |
| 85° | 40.7 | 53.0 | 65.2 | 61.1 | 57.0 |
| 87.5° | 16.3 | 26.5 | 28.5 | 28.5 | 26.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)