

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: P738005

Luminaire Tested: **14PT-80-PL1-L940**

Issue Date: 2/8/2024



**Test Information**

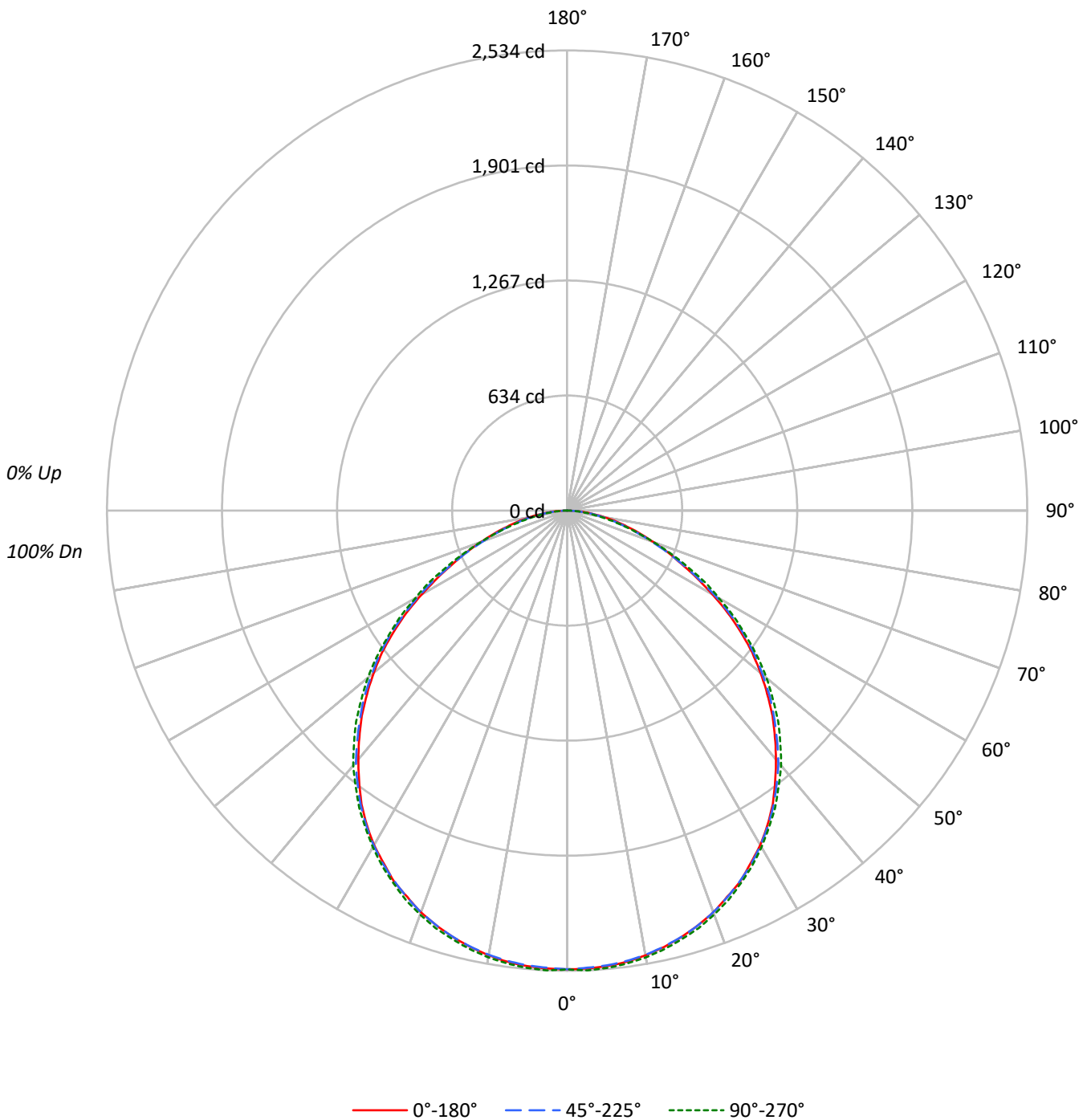
Test Method: LM-79-08  
Report Number: P738005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PT-80-PL1-L940  
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6659.0 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 71  
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

TEST NUMBER: P738005  
CATALOG NUMBER: 14PT-80-PL1-L940

### Luminous Intensity Polar Plot





TEST NUMBER: P738005

CATALOG NUMBER: 14PT-80-PL1-L940

**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   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  |  | 94  | 92  | 90  |  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  |  | 83  | 79  | 75  |  | 80  | 77  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 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  | 55  | 52  |
| 5   | 77  | 65  | 56  | 49  | 75  | 64  | 55  | 49  | 61  | 54  | 49  |  | 60  | 53  | 48  |  | 58  | 52  | 48  | 46  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  |  | 54  | 47  | 42  |  | 52  | 47  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  |  | 49  | 43  | 38  |  | 48  | 42  | 37  | 35  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  |  | 45  | 39  | 34  |  | 44  | 38  | 34  | 32  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  |  | 42  | 35  | 30  |  | 41  | 35  | 30  | 29  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  |  | 39  | 32  | 28  |  | 38  | 32  | 28  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7573 | 7573 | 7573 |
| 5°  | 7580 | 7566 | 7608 |
| 10° | 7571 | 7562 | 7605 |
| 15° | 7547 | 7544 | 7582 |
| 20° | 7510 | 7510 | 7552 |
| 25° | 7459 | 7449 | 7489 |
| 30° | 7365 | 7374 | 7410 |
| 35° | 7224 | 7252 | 7310 |
| 40° | 7000 | 7081 | 7172 |
| 45° | 6782 | 6837 | 6968 |
| 50° | 6483 | 6553 | 6683 |
| 55° | 6106 | 6203 | 6277 |
| 60° | 5539 | 5657 | 5797 |
| 65° | 4920 | 4973 | 5172 |
| 70° | 4398 | 4308 | 4414 |
| 75° | 3969 | 3740 | 3664 |
| 80° | 3603 | 3344 | 2973 |
| 85° | 3058 | 2769 | 2384 |



TEST NUMBER: P738005

CATALOG NUMBER: 14PT-80-PL1-L940

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 239.6  | 3.6       |
| 10°-20°   | 687.3  | 10.3      |
| 20°-30°   | 1039.6 | 15.6      |
| 30°-40°   | 1239.1 | 18.6      |
| 40°-50°   | 1246.1 | 18.7      |
| 50°-60°   | 1057.5 | 15.9      |
| 60°-70°   | 704.1  | 10.6      |
| 70°-80°   | 351.6  | 5.3       |
| 80°-90°   | 94.1   | 1.4       |
| 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°    | 1966.5 | 29.5      |
| 0°-40°    | 3205.6 | 48.1      |
| 0°-60°    | 5509.2 | 82.7      |
| 0°-90°    | 6659.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6659.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2526 | 2526  | 2526 | 2526  | 2526 |      |
| 5°  | 2519 | 2520  | 2514 | 2525  | 2528 | 239  |
| 15° | 2432 | 2434  | 2431 | 2441  | 2443 | 686  |
| 25° | 2255 | 2255  | 2252 | 2262  | 2264 | 1037 |
| 35° | 1974 | 1976  | 1981 | 1995  | 1997 | 1231 |
| 45° | 1600 | 1602  | 1613 | 1634  | 1644 | 1231 |
| 55° | 1168 | 1176  | 1187 | 1198  | 1201 | 1041 |
| 65° | 694  | 699   | 701  | 711   | 729  | 695  |
| 75° | 343  | 338   | 323  | 315   | 316  | 368  |
| 85° | 89   | 87    | 80   | 76    | 69   | 103  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P738005

CATALOG NUMBER: 14PT-80-PL1-L940

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2526.1 | 2526.1 | 2526.1 | 2526.1 | 2526.1 |
| 2.5°  | 2524.2 | 2526.1 | 2519.6 | 2531.7 | 2534.5 |
| 5°    | 2518.6 | 2519.6 | 2513.9 | 2525.2 | 2528.0 |
| 7.5°  | 2506.5 | 2507.4 | 2501.8 | 2513.9 | 2515.8 |
| 10°   | 2486.8 | 2488.7 | 2484.0 | 2495.2 | 2498.0 |
| 12.5° | 2461.5 | 2464.3 | 2459.7 | 2471.8 | 2473.7 |
| 15°   | 2431.6 | 2434.4 | 2430.6 | 2440.9 | 2442.8 |
| 17.5° | 2395.1 | 2397.0 | 2395.1 | 2404.4 | 2410.1 |
| 20°   | 2353.9 | 2353.9 | 2353.9 | 2362.3 | 2367.0 |
| 22.5° | 2302.4 | 2307.1 | 2305.2 | 2316.5 | 2321.1 |
| 25°   | 2254.7 | 2254.7 | 2251.9 | 2262.2 | 2264.0 |
| 27.5° | 2188.2 | 2195.7 | 2194.8 | 2204.1 | 2206.0 |
| 30°   | 2127.4 | 2129.3 | 2130.2 | 2136.8 | 2140.5 |
| 32.5° | 2053.5 | 2055.3 | 2058.1 | 2067.5 | 2068.4 |
| 35°   | 1973.9 | 1975.8 | 1981.4 | 1995.4 | 1997.3 |
| 37.5° | 1881.2 | 1891.5 | 1896.2 | 1911.2 | 1913.1 |
| 40°   | 1788.6 | 1795.1 | 1809.2 | 1825.1 | 1832.6 |
| 42.5° | 1694.1 | 1701.5 | 1710.0 | 1731.5 | 1738.0 |
| 45°   | 1599.5 | 1602.3 | 1612.6 | 1634.2 | 1643.5 |
| 47.5° | 1494.7 | 1503.1 | 1512.5 | 1531.2 | 1536.8 |
| 50°   | 1389.9 | 1399.2 | 1404.9 | 1421.7 | 1432.9 |
| 52.5° | 1284.1 | 1292.5 | 1299.1 | 1309.4 | 1320.6 |
| 55°   | 1168.1 | 1176.5 | 1186.8 | 1198.0 | 1200.8 |
| 57.5° | 1050.1 | 1059.5 | 1066.0 | 1078.2 | 1090.4 |
| 60°   | 923.8  | 934.1  | 943.4  | 954.7  | 966.8  |
| 62.5° | 805.8  | 810.5  | 819.9  | 838.6  | 856.4  |
| 65°   | 693.5  | 699.2  | 701.0  | 711.3  | 729.1  |
| 67.5° | 599.9  | 599.9  | 591.5  | 595.3  | 614.9  |
| 70°   | 501.7  | 497.9  | 491.4  | 487.6  | 503.5  |
| 72.5° | 422.1  | 417.4  | 403.4  | 396.8  | 405.3  |
| 75°   | 342.6  | 337.9  | 322.9  | 315.4  | 316.3  |
| 77.5° | 275.2  | 267.7  | 255.5  | 242.4  | 239.6  |
| 80°   | 208.7  | 205.9  | 193.7  | 181.6  | 172.2  |
| 82.5° | 147.9  | 141.3  | 134.8  | 127.3  | 119.8  |
| 85°   | 88.9   | 87.0   | 80.5   | 75.8   | 69.3   |
| 87.5° | 36.5   | 36.5   | 34.6   | 32.8   | 30.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)