

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: P737875

Luminaire Tested: **14PT-50-PR1-L930**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-50-PR1-L930
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

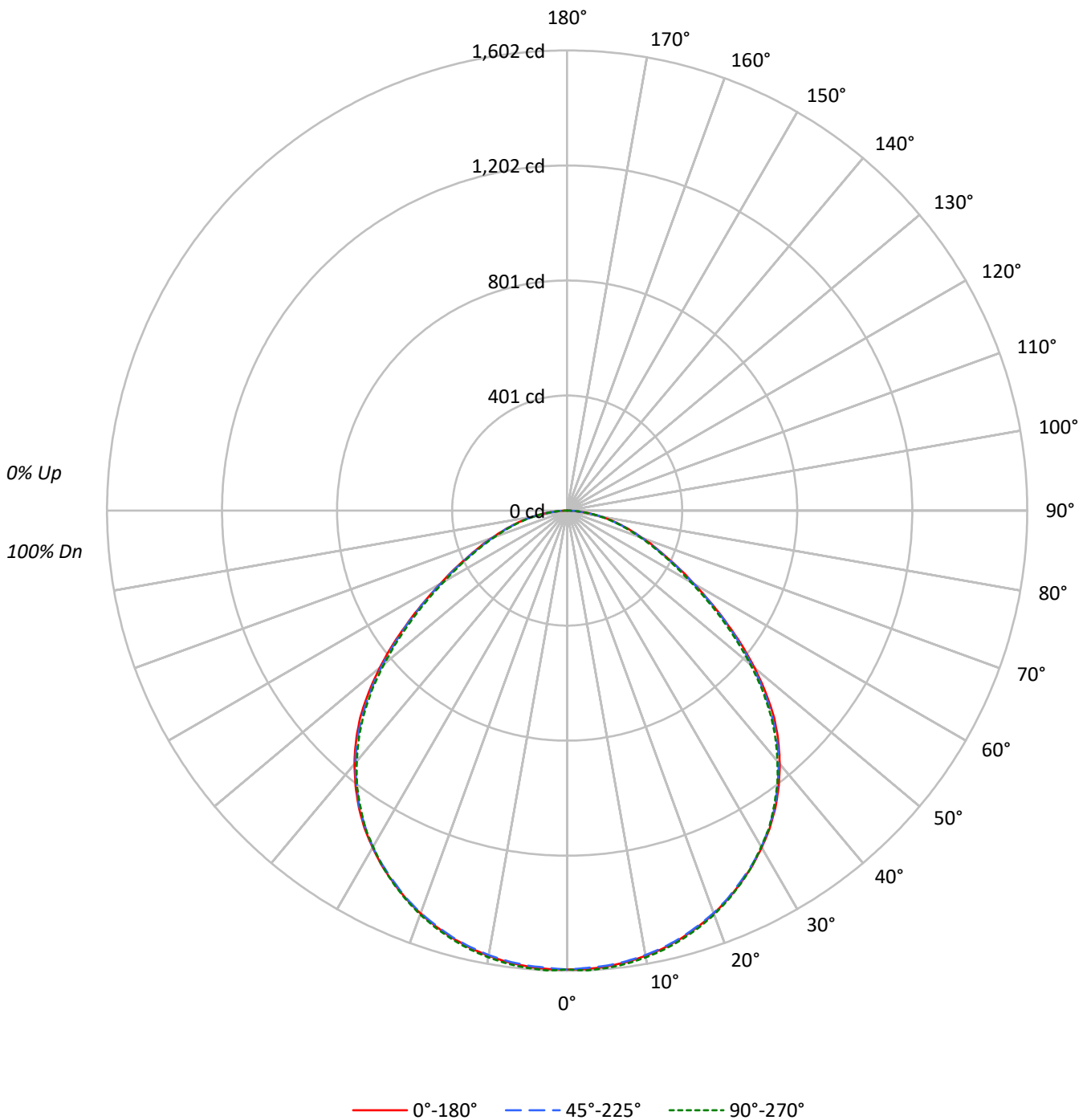
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4041.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 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





TEST NUMBER: P737875

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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 | 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 | | | | | 100 | | | |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 88 | | | | | 85 | | | | |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | | | | | 73 | | | | |
| 3 | 92 | 82 | 74 | 68 | 90 | 80 | 73 | 68 | 78 | 71 | 66 | 75 | 70 | 65 | 72 | 68 | 64 | | | | | 62 | | | | |
| 4 | 85 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 63 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | | | | | 54 | | | | |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 56 | 50 | 62 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | | | | | 47 | | | | |
| 6 | 72 | 59 | 51 | 45 | 70 | 58 | 50 | 44 | 57 | 49 | 44 | 55 | 49 | 44 | 53 | 48 | 43 | | | | | 41 | | | | |
| 7 | 67 | 54 | 45 | 40 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | | | | | 37 | | | | |
| 8 | 62 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | | | | | 33 | | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | | | | | 30 | | | | |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 39 | 33 | 29 | | | | | 27 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4791 | 4791 | 4791 |
| 5° | 4795 | 4785 | 4810 |
| 10° | 4791 | 4782 | 4809 |
| 15° | 4782 | 4775 | 4798 |
| 20° | 4762 | 4756 | 4775 |
| 25° | 4731 | 4719 | 4736 |
| 30° | 4689 | 4683 | 4677 |
| 35° | 4624 | 4613 | 4595 |
| 40° | 4507 | 4489 | 4458 |
| 45° | 4320 | 4271 | 4240 |
| 50° | 3975 | 3930 | 3882 |
| 55° | 3517 | 3503 | 3434 |
| 60° | 3056 | 3046 | 2964 |
| 65° | 2694 | 2677 | 2625 |
| 70° | 2445 | 2410 | 2360 |
| 75° | 2262 | 2209 | 2170 |
| 80° | 2067 | 2037 | 1968 |
| 85° | 1634 | 1617 | 1555 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 151.6 | 3.8 |
| 10°-20° | 435.0 | 10.8 |
| 20°-30° | 659.1 | 16.3 |
| 30°-40° | 786.8 | 19.5 |
| 40°-50° | 773.8 | 19.1 |
| 50°-60° | 598.0 | 14.8 |
| 60°-70° | 377.1 | 9.3 |
| 70°-80° | 204.0 | 5.0 |
| 80°-90° | 55.7 | 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° | 1245.7 | 30.8 |
| 0°-40° | 2032.4 | 50.3 |
| 0°-60° | 3404.2 | 84.2 |
| 0°-90° | 4041.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4041.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1598 | 1598 | 1598 | 1598 | 1598 | |
| 5° | 1593 | 1594 | 1590 | 1597 | 1598 | 151 |
| 15° | 1541 | 1541 | 1538 | 1544 | 1546 | 435 |
| 25° | 1430 | 1431 | 1427 | 1431 | 1432 | 659 |
| 35° | 1263 | 1264 | 1260 | 1259 | 1255 | 789 |
| 45° | 1019 | 1015 | 1007 | 999 | 1000 | 780 |
| 55° | 673 | 679 | 670 | 659 | 657 | 604 |
| 65° | 380 | 380 | 377 | 371 | 370 | 382 |
| 75° | 195 | 193 | 191 | 192 | 187 | 208 |
| 85° | 48 | 48 | 47 | 48 | 45 | 56 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1597.9 | 1597.9 | 1597.9 | 1597.9 | 1597.9 |
| 2.5° | 1597.3 | 1597.9 | 1593.3 | 1600.7 | 1602.4 |
| 5° | 1593.3 | 1593.9 | 1589.8 | 1596.7 | 1598.4 |
| 7.5° | 1585.3 | 1586.4 | 1582.4 | 1589.3 | 1591.0 |
| 10° | 1573.8 | 1575.0 | 1570.9 | 1577.8 | 1579.5 |
| 12.5° | 1559.5 | 1560.1 | 1556.6 | 1562.9 | 1564.6 |
| 15° | 1540.6 | 1541.2 | 1538.3 | 1543.5 | 1545.7 |
| 17.5° | 1518.8 | 1519.4 | 1515.4 | 1521.7 | 1522.8 |
| 20° | 1492.5 | 1493.1 | 1490.8 | 1495.9 | 1496.5 |
| 22.5° | 1463.3 | 1464.4 | 1461.0 | 1465.6 | 1466.1 |
| 25° | 1430.1 | 1431.2 | 1426.6 | 1431.2 | 1431.8 |
| 27.5° | 1395.1 | 1395.7 | 1391.7 | 1395.1 | 1394.6 |
| 30° | 1354.5 | 1357.9 | 1352.7 | 1351.6 | 1351.0 |
| 32.5° | 1312.1 | 1312.7 | 1307.5 | 1306.4 | 1308.6 |
| 35° | 1263.4 | 1264.0 | 1260.5 | 1258.8 | 1255.4 |
| 37.5° | 1210.1 | 1210.1 | 1203.8 | 1202.7 | 1202.1 |
| 40° | 1151.7 | 1151.2 | 1147.1 | 1143.1 | 1139.1 |
| 42.5° | 1088.2 | 1089.3 | 1081.3 | 1074.4 | 1073.3 |
| 45° | 1018.9 | 1014.8 | 1007.4 | 999.4 | 1000.0 |
| 47.5° | 937.0 | 938.1 | 927.8 | 921.5 | 919.8 |
| 50° | 852.2 | 852.2 | 842.5 | 835.6 | 832.2 |
| 52.5° | 763.4 | 764.0 | 754.8 | 745.7 | 744.0 |
| 55° | 672.9 | 678.7 | 670.1 | 659.2 | 656.9 |
| 57.5° | 588.2 | 592.8 | 584.7 | 573.3 | 572.7 |
| 60° | 509.7 | 510.3 | 508.0 | 497.1 | 494.3 |
| 62.5° | 442.7 | 439.8 | 438.7 | 433.0 | 429.5 |
| 65° | 379.7 | 380.3 | 377.4 | 371.1 | 370.0 |
| 67.5° | 328.7 | 328.2 | 323.0 | 319.0 | 316.7 |
| 70° | 278.9 | 277.2 | 274.9 | 271.5 | 269.2 |
| 72.5° | 234.2 | 234.2 | 232.5 | 231.4 | 227.4 |
| 75° | 195.3 | 193.0 | 190.7 | 191.9 | 187.3 |
| 77.5° | 158.1 | 155.8 | 154.1 | 151.8 | 150.6 |
| 80° | 119.7 | 117.4 | 118.0 | 114.5 | 114.0 |
| 82.5° | 83.0 | 83.0 | 81.9 | 79.0 | 79.6 |
| 85° | 47.5 | 48.1 | 47.0 | 47.5 | 45.2 |
| 87.5° | 17.2 | 17.8 | 18.9 | 17.8 | 17.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)