

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: P738505

Luminaire Tested: **24PT-40-PL1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-40-PL1-L840
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

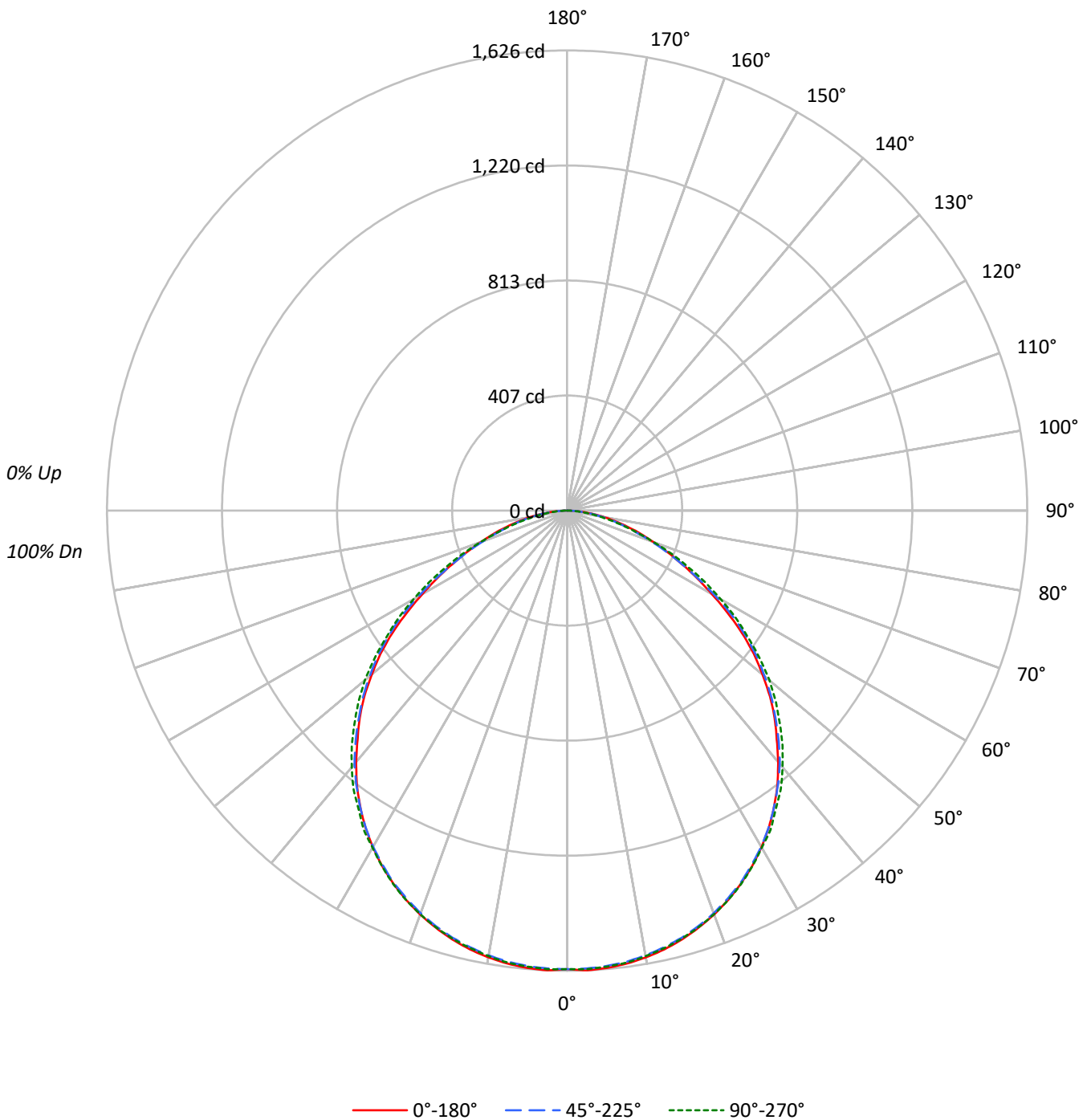
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4289.0 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 32.7
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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 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 | 62 | 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 | 40 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2323 | 2323 | 2323 |
| 5° | 2335 | 2325 | 2328 |
| 10° | 2334 | 2324 | 2328 |
| 15° | 2329 | 2320 | 2324 |
| 20° | 2318 | 2310 | 2316 |
| 25° | 2301 | 2295 | 2303 |
| 30° | 2273 | 2270 | 2278 |
| 35° | 2232 | 2233 | 2250 |
| 40° | 2171 | 2187 | 2217 |
| 45° | 2103 | 2113 | 2154 |
| 50° | 2009 | 2032 | 2081 |
| 55° | 1886 | 1921 | 1950 |
| 60° | 1694 | 1735 | 1799 |
| 65° | 1516 | 1519 | 1601 |
| 70° | 1351 | 1314 | 1361 |
| 75° | 1220 | 1148 | 1127 |
| 80° | 1084 | 1012 | 893 |
| 85° | 888 | 842 | 698 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.7 | 3.6 |
| 10°-20° | 441.3 | 10.3 |
| 20°-30° | 668.6 | 15.6 |
| 30°-40° | 799.0 | 18.6 |
| 40°-50° | 806.0 | 18.8 |
| 50°-60° | 683.9 | 15.9 |
| 60°-70° | 452.5 | 10.5 |
| 70°-80° | 224.5 | 5.2 |
| 80°-90° | 59.4 | 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° | 1263.7 | 29.5 |
| 0°-40° | 2062.7 | 48.1 |
| 0°-60° | 3552.6 | 82.8 |
| 0°-90° | 4289.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4289.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1620 | 1620 | 1620 | 1620 | 1620 | |
| 5° | 1622 | 1617 | 1615 | 1614 | 1618 | 154 |
| 15° | 1569 | 1564 | 1563 | 1563 | 1566 | 443 |
| 25° | 1454 | 1451 | 1451 | 1450 | 1456 | 670 |
| 35° | 1275 | 1273 | 1276 | 1283 | 1286 | 797 |
| 45° | 1037 | 1036 | 1042 | 1056 | 1062 | 798 |
| 55° | 754 | 756 | 768 | 776 | 780 | 671 |
| 65° | 447 | 446 | 448 | 462 | 472 | 446 |
| 75° | 220 | 214 | 207 | 201 | 204 | 236 |
| 85° | 54 | 54 | 51 | 47 | 42 | 64 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1620.4 | 1620.4 | 1620.4 | 1620.4 | 1620.4 |
| 2.5° | 1626.0 | 1620.8 | 1619.4 | 1618.5 | 1622.2 |
| 5° | 1622.2 | 1616.6 | 1615.2 | 1614.3 | 1617.6 |
| 7.5° | 1614.8 | 1608.7 | 1607.8 | 1606.9 | 1611.1 |
| 10° | 1602.7 | 1597.1 | 1596.1 | 1595.2 | 1598.9 |
| 12.5° | 1588.2 | 1582.6 | 1580.8 | 1581.2 | 1583.6 |
| 15° | 1569.1 | 1564.0 | 1562.6 | 1562.6 | 1565.9 |
| 17.5° | 1545.4 | 1540.7 | 1539.8 | 1539.3 | 1543.5 |
| 20° | 1518.8 | 1514.2 | 1514.2 | 1515.6 | 1517.9 |
| 22.5° | 1488.6 | 1485.3 | 1483.4 | 1484.4 | 1489.0 |
| 25° | 1454.1 | 1450.8 | 1450.8 | 1450.4 | 1455.5 |
| 27.5° | 1415.9 | 1411.7 | 1411.7 | 1415.4 | 1417.3 |
| 30° | 1373.0 | 1369.3 | 1371.2 | 1374.0 | 1375.8 |
| 32.5° | 1326.9 | 1324.6 | 1326.0 | 1330.2 | 1337.7 |
| 35° | 1275.2 | 1273.4 | 1275.7 | 1282.7 | 1285.5 |
| 37.5° | 1221.2 | 1219.8 | 1223.1 | 1232.4 | 1240.3 |
| 40° | 1159.7 | 1159.7 | 1168.6 | 1177.0 | 1184.4 |
| 42.5° | 1095.9 | 1100.1 | 1106.6 | 1119.7 | 1126.2 |
| 45° | 1037.2 | 1035.8 | 1041.9 | 1055.9 | 1062.4 |
| 47.5° | 972.0 | 970.6 | 979.5 | 989.3 | 1000.0 |
| 50° | 900.8 | 900.3 | 911.0 | 919.4 | 932.9 |
| 52.5° | 831.4 | 835.6 | 842.6 | 850.0 | 857.9 |
| 55° | 754.5 | 756.4 | 768.5 | 775.5 | 780.1 |
| 57.5° | 671.6 | 677.7 | 692.6 | 702.8 | 707.0 |
| 60° | 590.6 | 594.3 | 605.0 | 623.2 | 627.4 |
| 62.5° | 517.0 | 518.4 | 524.9 | 545.4 | 551.0 |
| 65° | 446.7 | 445.7 | 447.6 | 461.6 | 471.8 |
| 67.5° | 382.9 | 379.1 | 379.1 | 386.6 | 399.2 |
| 70° | 322.3 | 316.7 | 313.5 | 315.8 | 324.6 |
| 72.5° | 271.5 | 264.1 | 255.7 | 254.3 | 259.9 |
| 75° | 220.3 | 214.2 | 207.3 | 200.7 | 203.5 |
| 77.5° | 175.6 | 170.5 | 163.9 | 156.5 | 152.8 |
| 80° | 131.3 | 129.5 | 122.5 | 115.5 | 108.1 |
| 82.5° | 91.8 | 90.4 | 85.7 | 80.1 | 75.5 |
| 85° | 54.0 | 54.0 | 51.2 | 47.0 | 42.4 |
| 87.5° | 24.2 | 23.3 | 24.2 | 20.5 | 19.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)