

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: P738232

Luminaire Tested: **22PT-50-PC3-L835**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P413056)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-50-PC3-L835
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PARAMID LENS

Light Source: -
Ballast/Driver: -

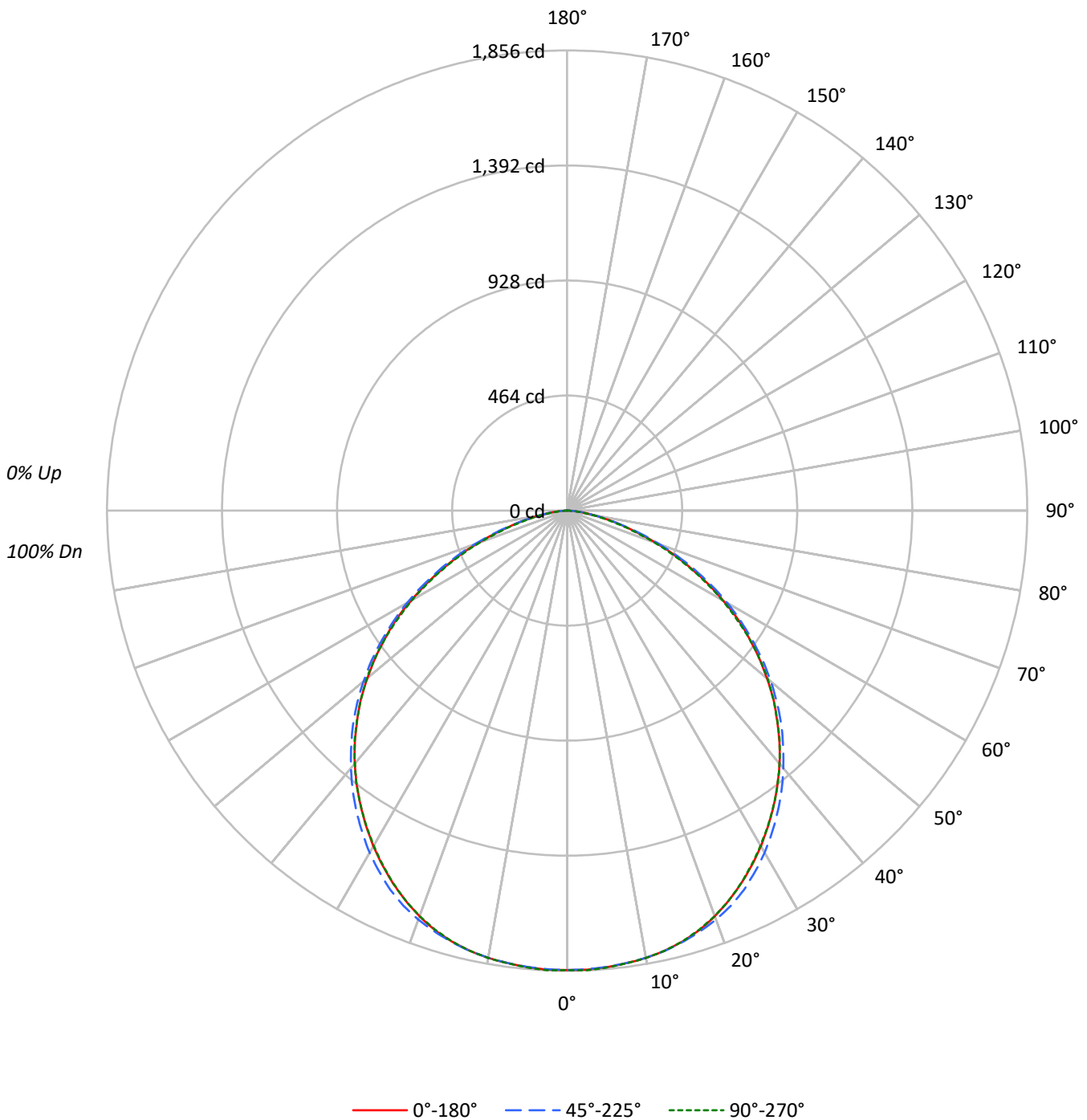
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4979.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 39.3
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: P738232

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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 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 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 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 31 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5431 | 5431 | 5431 |
| 5° | 5438 | 5434 | 5441 |
| 10° | 5451 | 5449 | 5451 |
| 15° | 5457 | 5464 | 5456 |
| 20° | 5430 | 5474 | 5426 |
| 25° | 5367 | 5455 | 5363 |
| 30° | 5287 | 5391 | 5279 |
| 35° | 5196 | 5299 | 5196 |
| 40° | 5098 | 5188 | 5098 |
| 45° | 4964 | 5062 | 4971 |
| 50° | 4794 | 4888 | 4813 |
| 55° | 4572 | 4661 | 4572 |
| 60° | 4263 | 4370 | 4236 |
| 65° | 3826 | 3960 | 3776 |
| 70° | 3273 | 3388 | 3176 |
| 75° | 2597 | 2669 | 2461 |
| 80° | 1861 | 1930 | 1772 |
| 85° | 1227 | 1267 | 1150 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 175.9 | 3.5 |
| 10°-20° | 507.9 | 10.2 |
| 20°-30° | 770.6 | 15.5 |
| 30°-40° | 920.3 | 18.5 |
| 40°-50° | 935.9 | 18.8 |
| 50°-60° | 809.6 | 16.3 |
| 60°-70° | 557.1 | 11.2 |
| 70°-80° | 252.8 | 5.1 |
| 80°-90° | 48.9 | 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° | 1454.4 | 29.2 |
| 0°-40° | 2374.7 | 47.7 |
| 0°-60° | 4120.2 | 82.8 |
| 0°-90° | 4979.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4979.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1853 | 1853 | 1853 | 1853 | 1853 | |
| 5° | 1849 | 1847 | 1847 | 1847 | 1850 | 176 |
| 15° | 1799 | 1800 | 1801 | 1799 | 1799 | 507 |
| 25° | 1660 | 1675 | 1687 | 1672 | 1659 | 765 |
| 35° | 1452 | 1478 | 1482 | 1476 | 1452 | 909 |
| 45° | 1198 | 1220 | 1222 | 1220 | 1200 | 924 |
| 55° | 895 | 910 | 912 | 911 | 895 | 800 |
| 65° | 552 | 567 | 571 | 566 | 545 | 547 |
| 75° | 229 | 238 | 236 | 234 | 217 | 247 |
| 85° | 36 | 39 | 38 | 36 | 34 | 48 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P738232

CATALOG NUMBER: 22PT-50-PC3-L835

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1853.4 | 1853.4 | 1853.4 | 1853.4 | 1853.4 |
| 2.5° | 1853.4 | 1851.0 | 1851.5 | 1852.2 | 1855.7 |
| 5° | 1848.7 | 1846.9 | 1847.4 | 1847.4 | 1849.9 |
| 7.5° | 1840.9 | 1840.5 | 1840.5 | 1839.8 | 1841.6 |
| 10° | 1832.2 | 1831.0 | 1831.5 | 1831.0 | 1832.2 |
| 12.5° | 1818.6 | 1818.6 | 1819.1 | 1817.5 | 1818.6 |
| 15° | 1799.1 | 1800.3 | 1801.4 | 1798.6 | 1798.6 |
| 17.5° | 1774.3 | 1777.3 | 1780.3 | 1775.0 | 1772.0 |
| 20° | 1741.4 | 1748.5 | 1755.5 | 1747.2 | 1740.2 |
| 22.5° | 1703.0 | 1714.8 | 1725.5 | 1712.5 | 1703.0 |
| 25° | 1660.0 | 1674.8 | 1687.2 | 1671.8 | 1658.9 |
| 27.5° | 1613.4 | 1629.9 | 1641.7 | 1628.8 | 1611.1 |
| 30° | 1562.8 | 1582.8 | 1593.4 | 1581.0 | 1560.3 |
| 32.5° | 1508.6 | 1532.1 | 1538.5 | 1530.9 | 1507.3 |
| 35° | 1452.5 | 1478.5 | 1481.5 | 1476.2 | 1452.5 |
| 37.5° | 1394.1 | 1419.0 | 1421.3 | 1418.3 | 1394.1 |
| 40° | 1332.8 | 1355.8 | 1356.4 | 1356.4 | 1332.8 |
| 42.5° | 1267.5 | 1289.8 | 1289.8 | 1289.1 | 1269.1 |
| 45° | 1197.9 | 1219.7 | 1221.5 | 1220.2 | 1199.7 |
| 47.5° | 1128.9 | 1145.4 | 1148.3 | 1145.9 | 1127.8 |
| 50° | 1051.7 | 1068.7 | 1072.4 | 1069.9 | 1055.8 |
| 52.5° | 975.0 | 991.0 | 994.5 | 992.7 | 976.8 |
| 55° | 894.9 | 910.1 | 912.5 | 910.8 | 894.9 |
| 57.5° | 817.7 | 827.6 | 829.9 | 826.5 | 806.5 |
| 60° | 727.4 | 741.6 | 745.8 | 741.6 | 722.8 |
| 62.5° | 640.3 | 655.5 | 659.1 | 653.2 | 633.2 |
| 65° | 551.8 | 567.0 | 571.2 | 566.5 | 544.7 |
| 67.5° | 468.1 | 479.2 | 482.9 | 477.6 | 457.4 |
| 70° | 382.0 | 396.2 | 395.5 | 388.4 | 370.7 |
| 72.5° | 297.2 | 316.5 | 313.0 | 308.9 | 289.4 |
| 75° | 229.4 | 238.1 | 235.8 | 233.5 | 217.4 |
| 77.5° | 163.9 | 174.5 | 168.7 | 169.2 | 155.6 |
| 80° | 110.3 | 120.2 | 114.4 | 111.9 | 105.0 |
| 82.5° | 70.1 | 74.2 | 73.1 | 71.9 | 65.5 |
| 85° | 36.5 | 38.9 | 37.7 | 36.5 | 34.2 |
| 87.5° | 14.2 | 15.4 | 14.2 | 14.2 | 12.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)