

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: P737712

Luminaire Tested: **14PT-20-PC3-L835**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-20-PC3-L835
Description: 2000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PARAMID LENS

Light Source: -
Ballast/Driver: -

Summary

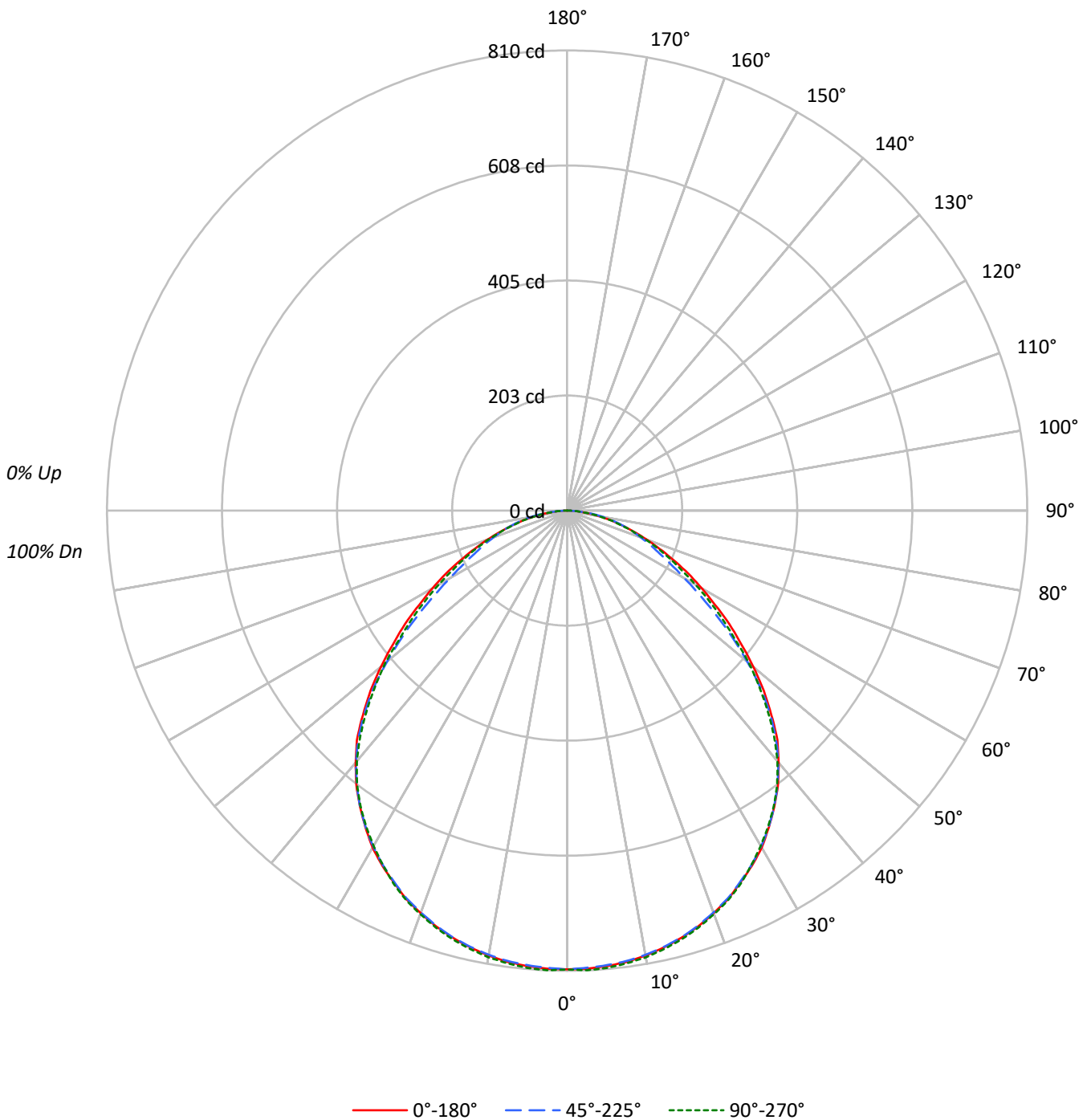
Lumens per Lamp: N/A
Luminaire Lumens: 2036.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
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 | 92 | 90 | | 91 | 89 | 87 | 85 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | | 84 | 80 | 76 | | 81 | 78 | 75 | 72 |
| 3 | 92 | 82 | 74 | 68 | 90 | 80 | 73 | 68 | 77 | 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 | 46 | 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 | | 40 | 33 | 29 | | 39 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2421 | 2421 | 2421 |
| 5° | 2422 | 2418 | 2431 |
| 10° | 2422 | 2417 | 2431 |
| 15° | 2416 | 2414 | 2424 |
| 20° | 2405 | 2401 | 2412 |
| 25° | 2389 | 2385 | 2395 |
| 30° | 2371 | 2363 | 2359 |
| 35° | 2328 | 2326 | 2322 |
| 40° | 2266 | 2263 | 2253 |
| 45° | 2156 | 2139 | 2117 |
| 50° | 1995 | 1928 | 1950 |
| 55° | 1821 | 1673 | 1748 |
| 60° | 1642 | 1427 | 1566 |
| 65° | 1467 | 1277 | 1407 |
| 70° | 1302 | 1208 | 1266 |
| 75° | 1151 | 1171 | 1127 |
| 80° | 993 | 1117 | 988 |
| 85° | 746 | 884 | 746 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.6 | 3.8 |
| 10°-20° | 219.9 | 10.8 |
| 20°-30° | 332.9 | 16.3 |
| 30°-40° | 396.9 | 19.5 |
| 40°-50° | 387.8 | 19.0 |
| 50°-60° | 296.5 | 14.6 |
| 60°-70° | 190.4 | 9.3 |
| 70°-80° | 105.9 | 5.2 |
| 80°-90° | 29.2 | 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° | 629.3 | 30.9 |
| 0°-40° | 1026.2 | 50.4 |
| 0°-60° | 1710.5 | 84.0 |
| 0°-90° | 2036.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2036.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 808 | 808 | 808 | 808 | 808 | |
| 5° | 805 | 805 | 803 | 807 | 808 | 77 |
| 15° | 778 | 779 | 778 | 780 | 781 | 220 |
| 25° | 722 | 723 | 721 | 723 | 724 | 333 |
| 35° | 636 | 637 | 636 | 635 | 634 | 397 |
| 45° | 508 | 510 | 505 | 504 | 499 | 391 |
| 55° | 348 | 336 | 320 | 324 | 334 | 311 |
| 65° | 207 | 191 | 180 | 186 | 198 | 206 |
| 75° | 99 | 100 | 101 | 100 | 97 | 106 |
| 85° | 22 | 25 | 26 | 25 | 22 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 |
| 2.5° | 807.0 | 807.3 | 805.3 | 808.8 | 809.9 |
| 5° | 804.7 | 805.3 | 803.3 | 807.0 | 807.9 |
| 7.5° | 801.3 | 801.8 | 799.8 | 803.6 | 803.9 |
| 10° | 795.5 | 795.8 | 794.0 | 797.8 | 798.4 |
| 12.5° | 787.7 | 788.6 | 786.5 | 790.0 | 790.3 |
| 15° | 778.4 | 779.0 | 777.6 | 780.2 | 781.0 |
| 17.5° | 767.5 | 767.8 | 766.3 | 769.2 | 769.5 |
| 20° | 753.9 | 753.9 | 752.7 | 755.9 | 755.9 |
| 22.5° | 740.0 | 739.2 | 738.9 | 740.0 | 741.8 |
| 25° | 722.1 | 723.0 | 721.0 | 723.3 | 723.9 |
| 27.5° | 704.8 | 704.8 | 703.1 | 704.2 | 702.8 |
| 30° | 684.9 | 683.7 | 682.6 | 682.8 | 681.4 |
| 32.5° | 660.9 | 660.9 | 660.3 | 660.3 | 658.6 |
| 35° | 636.0 | 636.6 | 635.5 | 635.2 | 634.3 |
| 37.5° | 609.5 | 610.3 | 608.3 | 607.7 | 607.2 |
| 40° | 579.1 | 579.1 | 578.3 | 577.1 | 575.7 |
| 42.5° | 547.7 | 547.7 | 543.9 | 541.0 | 539.0 |
| 45° | 508.4 | 509.5 | 504.6 | 503.5 | 499.4 |
| 47.5° | 469.4 | 468.5 | 461.9 | 461.0 | 458.7 |
| 50° | 427.8 | 422.9 | 413.3 | 415.9 | 418.0 |
| 52.5° | 386.2 | 380.1 | 366.3 | 369.1 | 372.6 |
| 55° | 348.4 | 336.2 | 320.0 | 324.1 | 334.5 |
| 57.5° | 308.8 | 292.6 | 276.4 | 283.9 | 296.9 |
| 60° | 273.8 | 255.6 | 238.0 | 246.1 | 261.1 |
| 62.5° | 240.3 | 221.0 | 206.8 | 214.6 | 227.3 |
| 65° | 206.8 | 190.9 | 180.0 | 186.0 | 198.4 |
| 67.5° | 176.2 | 165.5 | 158.0 | 160.9 | 171.0 |
| 70° | 148.5 | 141.8 | 137.8 | 138.6 | 144.4 |
| 72.5° | 122.2 | 120.5 | 119.0 | 119.0 | 119.6 |
| 75° | 99.4 | 100.2 | 101.1 | 99.7 | 97.3 |
| 77.5° | 78.3 | 81.2 | 83.2 | 80.3 | 77.4 |
| 80° | 57.5 | 62.1 | 64.7 | 61.5 | 57.2 |
| 82.5° | 39.3 | 44.5 | 45.3 | 43.3 | 38.4 |
| 85° | 21.7 | 25.4 | 25.7 | 24.8 | 21.7 |
| 87.5° | 8.1 | 9.5 | 10.4 | 9.5 | 8.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)