

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: P738412

Luminaire Tested: **24PT-20-PL1-L935**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738412
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-20-PL1-L935
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

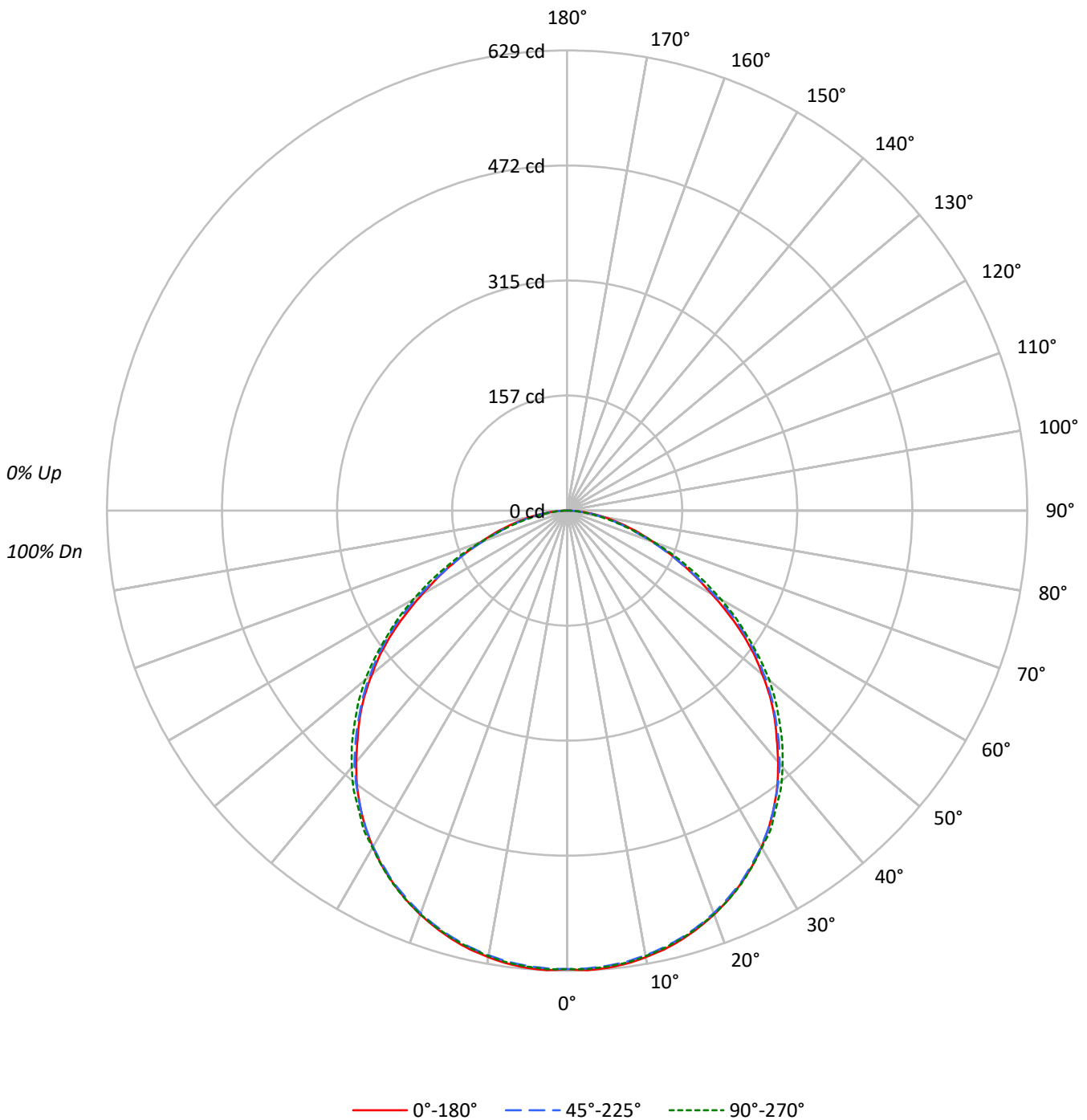
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1659.0 lumens
Efficiency: N/A
Efficacy: 109.9 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): 15.1
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° | 899 | 899 | 899 |
| 5° | 903 | 899 | 901 |
| 10° | 903 | 899 | 901 |
| 15° | 901 | 897 | 899 |
| 20° | 896 | 894 | 896 |
| 25° | 890 | 888 | 891 |
| 30° | 879 | 878 | 881 |
| 35° | 863 | 864 | 870 |
| 40° | 840 | 846 | 857 |
| 45° | 814 | 817 | 833 |
| 50° | 777 | 786 | 805 |
| 55° | 730 | 743 | 754 |
| 60° | 655 | 671 | 696 |
| 65° | 586 | 587 | 619 |
| 70° | 523 | 508 | 527 |
| 75° | 472 | 444 | 436 |
| 80° | 419 | 391 | 345 |
| 85° | 344 | 326 | 270 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.5 | 3.6 |
| 10°-20° | 170.7 | 10.3 |
| 20°-30° | 258.6 | 15.6 |
| 30°-40° | 309.1 | 18.6 |
| 40°-50° | 311.8 | 18.8 |
| 50°-60° | 264.5 | 15.9 |
| 60°-70° | 175.0 | 10.5 |
| 70°-80° | 86.8 | 5.2 |
| 80°-90° | 23.0 | 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° | 488.8 | 29.5 |
| 0°-40° | 797.9 | 48.1 |
| 0°-60° | 1374.2 | 82.8 |
| 0°-90° | 1659.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1659.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 627 | 627 | 627 | 627 | 627 | |
| 5° | 628 | 625 | 625 | 624 | 626 | 60 |
| 15° | 607 | 605 | 604 | 604 | 606 | 171 |
| 25° | 562 | 561 | 561 | 561 | 563 | 259 |
| 35° | 493 | 492 | 493 | 496 | 497 | 308 |
| 45° | 401 | 401 | 403 | 408 | 411 | 309 |
| 55° | 292 | 293 | 297 | 300 | 302 | 260 |
| 65° | 173 | 172 | 173 | 178 | 182 | 172 |
| 75° | 85 | 83 | 80 | 78 | 79 | 91 |
| 85° | 21 | 21 | 20 | 18 | 16 | 25 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 626.8 | 626.8 | 626.8 | 626.8 | 626.8 |
| 2.5° | 628.9 | 626.9 | 626.4 | 626.0 | 627.5 |
| 5° | 627.5 | 625.3 | 624.8 | 624.4 | 625.7 |
| 7.5° | 624.6 | 622.3 | 621.9 | 621.5 | 623.2 |
| 10° | 619.9 | 617.8 | 617.4 | 617.0 | 618.5 |
| 12.5° | 614.3 | 612.2 | 611.5 | 611.6 | 612.5 |
| 15° | 606.9 | 605.0 | 604.4 | 604.4 | 605.7 |
| 17.5° | 597.8 | 596.0 | 595.6 | 595.4 | 597.0 |
| 20° | 587.5 | 585.7 | 585.7 | 586.2 | 587.1 |
| 22.5° | 575.8 | 574.5 | 573.8 | 574.2 | 576.0 |
| 25° | 562.4 | 561.2 | 561.2 | 561.0 | 563.0 |
| 27.5° | 547.7 | 546.1 | 546.1 | 547.5 | 548.2 |
| 30° | 531.1 | 529.7 | 530.4 | 531.5 | 532.2 |
| 32.5° | 513.3 | 512.4 | 512.9 | 514.5 | 517.4 |
| 35° | 493.3 | 492.5 | 493.4 | 496.2 | 497.2 |
| 37.5° | 472.4 | 471.8 | 473.1 | 476.7 | 479.8 |
| 40° | 448.6 | 448.6 | 452.0 | 455.3 | 458.1 |
| 42.5° | 423.9 | 425.5 | 428.1 | 433.1 | 435.6 |
| 45° | 401.2 | 400.7 | 403.0 | 408.4 | 410.9 |
| 47.5° | 376.0 | 375.4 | 378.9 | 382.7 | 386.8 |
| 50° | 348.4 | 348.2 | 352.4 | 355.6 | 360.9 |
| 52.5° | 321.6 | 323.2 | 325.9 | 328.8 | 331.8 |
| 55° | 291.9 | 292.6 | 297.3 | 300.0 | 301.8 |
| 57.5° | 259.8 | 262.1 | 267.9 | 271.9 | 273.5 |
| 60° | 228.4 | 229.9 | 234.0 | 241.0 | 242.7 |
| 62.5° | 200.0 | 200.5 | 203.0 | 211.0 | 213.1 |
| 65° | 172.8 | 172.4 | 173.1 | 178.5 | 182.5 |
| 67.5° | 148.1 | 146.6 | 146.6 | 149.5 | 154.4 |
| 70° | 124.7 | 122.5 | 121.2 | 122.1 | 125.6 |
| 72.5° | 105.0 | 102.1 | 98.9 | 98.4 | 100.5 |
| 75° | 85.2 | 82.9 | 80.2 | 77.6 | 78.7 |
| 77.5° | 67.9 | 65.9 | 63.4 | 60.5 | 59.1 |
| 80° | 50.8 | 50.1 | 47.4 | 44.7 | 41.8 |
| 82.5° | 35.5 | 35.0 | 33.1 | 31.0 | 29.2 |
| 85° | 20.9 | 20.9 | 19.8 | 18.2 | 16.4 |
| 87.5° | 9.4 | 9.0 | 9.4 | 7.9 | 7.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)