

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: P738415

Luminaire Tested: **24PT-20-PR1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-20-PR1-L830
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source: -
Ballast/Driver: -

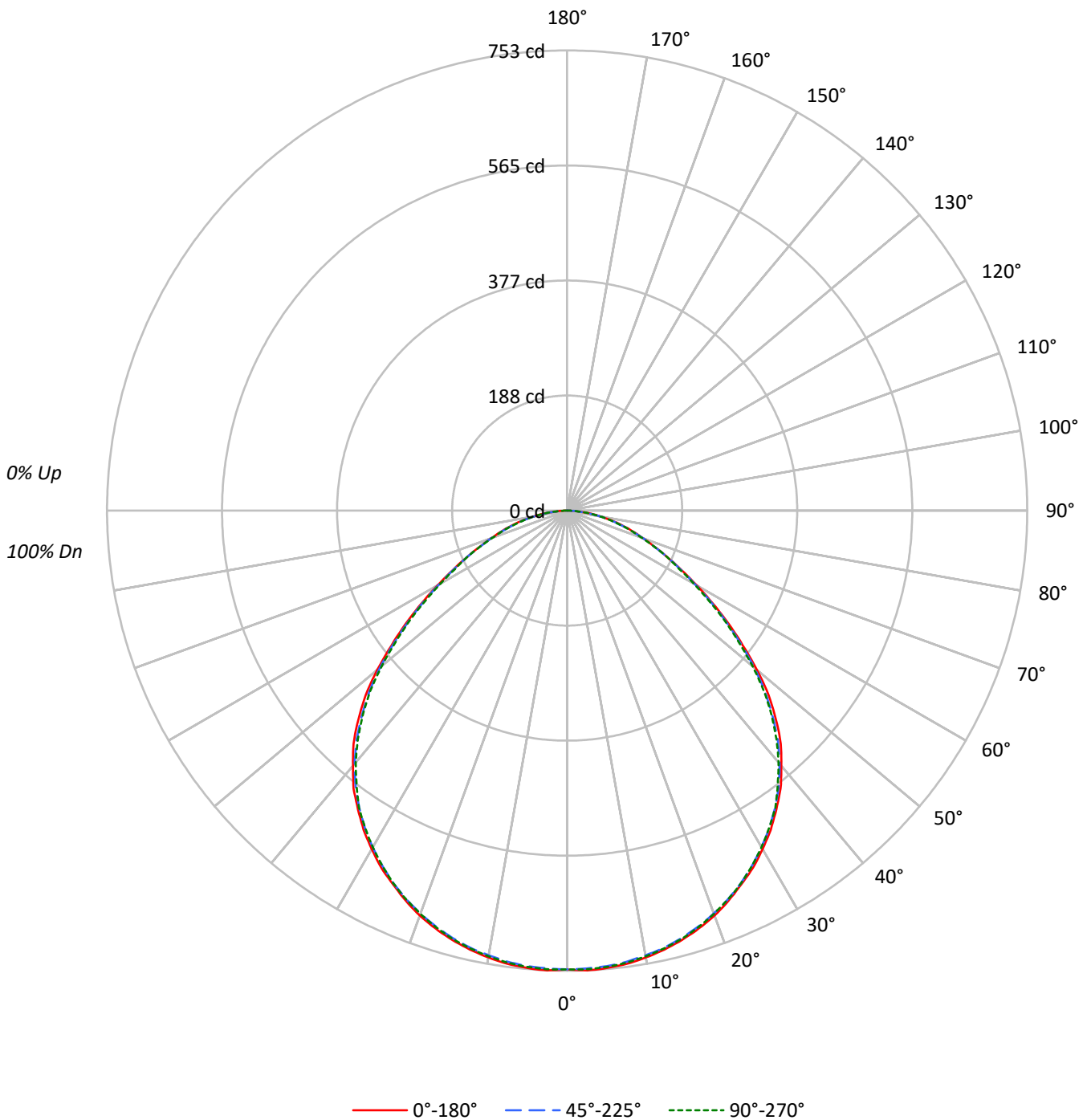
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1912.0 lumens
Efficiency: N/A
Efficacy: 126.6 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 | 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 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | | 75 | 70 | 65 | | 72 | 68 | 64 | 62 |
| 4 | 84 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | | 67 | 61 | 56 | | 65 | 60 | 56 | 53 |
| 5 | 78 | 66 | 57 | 51 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | | 60 | 54 | 49 | | 59 | 53 | 49 | 47 |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 57 | 49 | 44 | | 55 | 48 | 43 | | 53 | 48 | 43 | 41 |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | | 50 | 44 | 39 | | 49 | 43 | 38 | 36 |
| 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 | | 42 | 36 | 31 | | 41 | 36 | 31 | 29 |
| 10 | 55 | 42 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 29 | | 39 | 33 | 29 | | 38 | 33 | 28 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1077 | 1077 | 1077 |
| 5° | 1082 | 1077 | 1079 |
| 10° | 1081 | 1076 | 1078 |
| 15° | 1080 | 1075 | 1077 |
| 20° | 1076 | 1071 | 1072 |
| 25° | 1067 | 1064 | 1065 |
| 30° | 1059 | 1053 | 1053 |
| 35° | 1044 | 1038 | 1039 |
| 40° | 1021 | 1012 | 1008 |
| 45° | 980 | 964 | 959 |
| 50° | 905 | 892 | 883 |
| 55° | 805 | 794 | 788 |
| 60° | 702 | 694 | 687 |
| 65° | 615 | 616 | 612 |
| 70° | 553 | 552 | 544 |
| 75° | 516 | 500 | 501 |
| 80° | 461 | 452 | 452 |
| 85° | 355 | 365 | 352 |



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CATALOG NUMBER: 24PT-20-PR1-L830

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.2 | 3.7 |
| 10°-20° | 204.5 | 10.7 |
| 20°-30° | 310.0 | 16.2 |
| 30°-40° | 370.8 | 19.4 |
| 40°-50° | 366.1 | 19.1 |
| 50°-60° | 285.0 | 14.9 |
| 60°-70° | 180.9 | 9.5 |
| 70°-80° | 97.1 | 5.1 |
| 80°-90° | 26.3 | 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° | 585.7 | 30.6 |
| 0°-40° | 956.6 | 50.0 |
| 0°-60° | 1607.7 | 84.1 |
| 0°-90° | 1912.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1912.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 751 | 751 | 751 | 751 | 751 | |
| 5° | 751 | 749 | 748 | 748 | 750 | 71 |
| 15° | 727 | 725 | 724 | 723 | 725 | 205 |
| 25° | 675 | 673 | 673 | 671 | 673 | 311 |
| 35° | 597 | 596 | 593 | 591 | 594 | 373 |
| 45° | 483 | 480 | 476 | 473 | 473 | 371 |
| 55° | 322 | 320 | 318 | 315 | 315 | 288 |
| 65° | 181 | 182 | 182 | 179 | 180 | 182 |
| 75° | 93 | 92 | 90 | 90 | 90 | 98 |
| 85° | 22 | 22 | 22 | 22 | 21 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P738415

CATALOG NUMBER: 24PT-20-PR1-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 750.8 | 750.8 | 750.8 | 750.8 | 750.8 |
| 2.5° | 753.3 | 750.8 | 749.9 | 749.5 | 751.4 |
| 5° | 751.4 | 749.1 | 748.2 | 747.8 | 749.5 |
| 7.5° | 748.2 | 745.5 | 744.7 | 744.3 | 746.2 |
| 10° | 742.6 | 740.1 | 739.0 | 739.0 | 740.7 |
| 12.5° | 735.9 | 733.8 | 732.7 | 731.9 | 733.8 |
| 15° | 727.3 | 724.8 | 724.1 | 723.3 | 725.4 |
| 17.5° | 717.0 | 714.5 | 713.7 | 713.2 | 714.7 |
| 20° | 705.3 | 702.1 | 701.7 | 701.5 | 702.3 |
| 22.5° | 690.8 | 689.1 | 688.3 | 687.9 | 688.5 |
| 25° | 674.7 | 673.4 | 672.6 | 671.3 | 673.0 |
| 27.5° | 659.0 | 657.3 | 655.2 | 654.1 | 655.2 |
| 30° | 639.7 | 637.6 | 636.1 | 635.7 | 636.1 |
| 32.5° | 619.8 | 617.7 | 615.8 | 615.6 | 615.4 |
| 35° | 596.7 | 595.5 | 593.1 | 591.3 | 593.8 |
| 37.5° | 573.9 | 570.9 | 568.8 | 566.5 | 565.9 |
| 40° | 545.4 | 544.3 | 540.8 | 538.7 | 538.4 |
| 42.5° | 517.7 | 512.9 | 510.4 | 508.9 | 506.6 |
| 45° | 483.3 | 480.0 | 475.6 | 473.3 | 473.1 |
| 47.5° | 447.5 | 443.3 | 439.1 | 436.0 | 436.8 |
| 50° | 405.6 | 403.7 | 399.7 | 397.0 | 395.9 |
| 52.5° | 362.4 | 362.0 | 357.8 | 356.1 | 354.2 |
| 55° | 322.1 | 320.5 | 317.5 | 315.4 | 315.4 |
| 57.5° | 282.5 | 281.1 | 279.6 | 275.6 | 275.6 |
| 60° | 244.8 | 244.6 | 242.1 | 239.8 | 239.6 |
| 62.5° | 211.1 | 212.3 | 210.0 | 207.7 | 206.4 |
| 65° | 181.3 | 181.9 | 181.5 | 179.2 | 180.5 |
| 67.5° | 155.1 | 155.3 | 154.5 | 153.2 | 154.1 |
| 70° | 132.0 | 133.1 | 131.6 | 130.8 | 129.7 |
| 72.5° | 111.9 | 111.5 | 110.2 | 110.9 | 109.4 |
| 75° | 93.1 | 91.6 | 90.3 | 90.1 | 90.5 |
| 77.5° | 74.2 | 73.8 | 72.7 | 72.7 | 72.1 |
| 80° | 55.8 | 55.3 | 54.7 | 54.9 | 54.7 |
| 82.5° | 39.6 | 38.6 | 37.7 | 38.1 | 38.4 |
| 85° | 21.6 | 22.0 | 22.2 | 22.2 | 21.4 |
| 87.5° | 8.8 | 8.6 | 8.8 | 9.2 | 9.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)