

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: P738405

Luminaire Tested: **24PT-20-PC3-L940**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-20-PC3-L940
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND PARAMID LENS

Light Source: -
Ballast/Driver: -

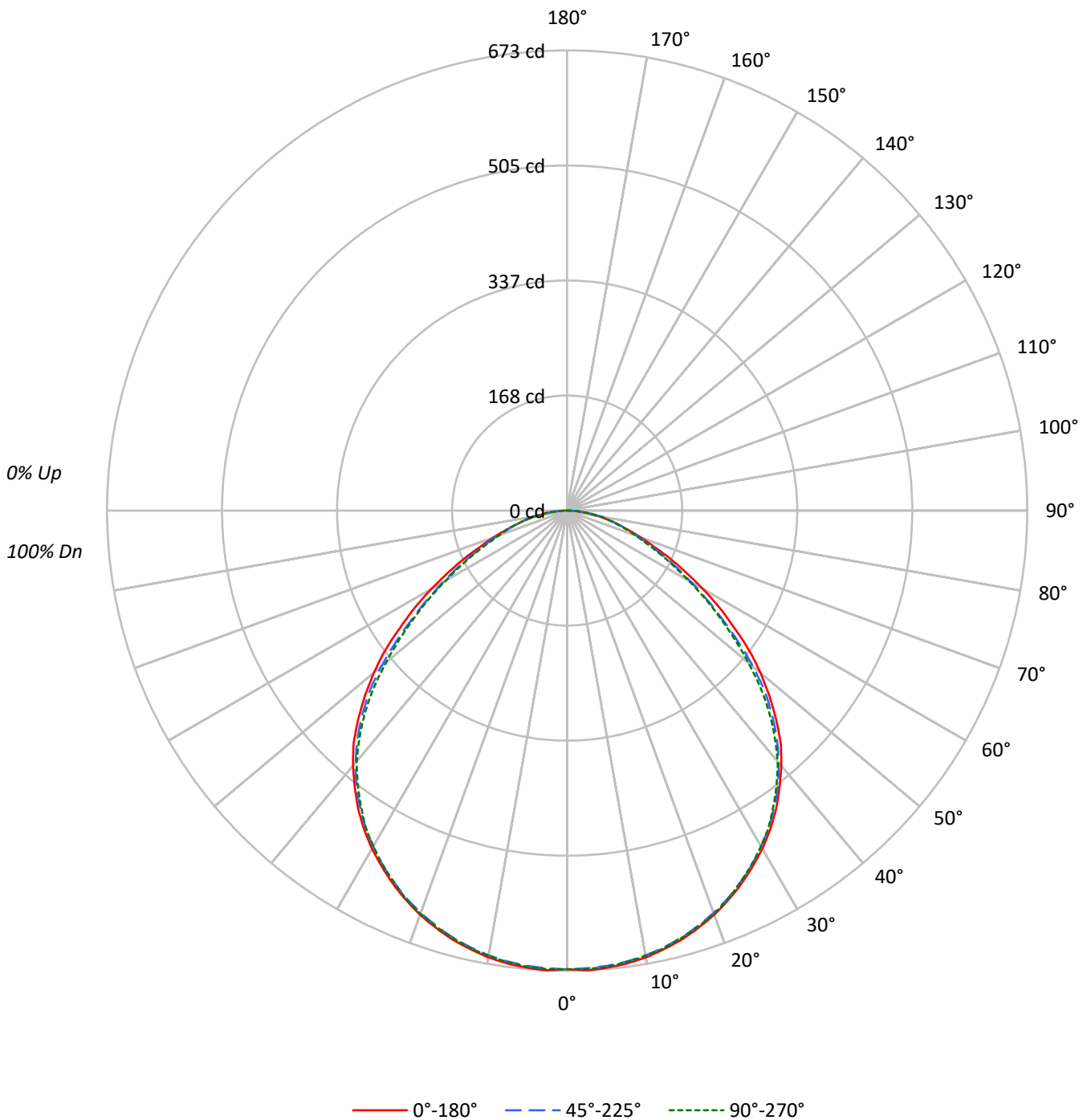
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1692.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 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 (Ain): 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 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 |
| 3 | 92 | 82 | 74 | 68 | 90 | 81 | 73 | 68 | 78 | 72 | 67 | 75 | 70 | 65 | 72 | 68 | 64 | 62 |
| 4 | 85 | 73 | 65 | 59 | 82 | 72 | 64 | 58 | 69 | 63 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 55 | 50 | 61 | 54 | 50 | 59 | 53 | 49 | 47 |
| 6 | 72 | 59 | 51 | 45 | 70 | 59 | 50 | 44 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 43 | 41 |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 |
| 8 | 63 | 49 | 41 | 36 | 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° | 962 | 962 | 962 |
| 5° | 966 | 962 | 964 |
| 10° | 966 | 962 | 963 |
| 15° | 964 | 959 | 961 |
| 20° | 960 | 956 | 957 |
| 25° | 953 | 949 | 948 |
| 30° | 945 | 939 | 939 |
| 35° | 933 | 925 | 921 |
| 40° | 912 | 901 | 897 |
| 45° | 876 | 860 | 848 |
| 50° | 823 | 791 | 770 |
| 55° | 744 | 693 | 680 |
| 60° | 658 | 600 | 588 |
| 65° | 563 | 520 | 507 |
| 70° | 477 | 456 | 443 |
| 75° | 418 | 425 | 411 |
| 80° | 375 | 413 | 390 |
| 85° | 316 | 378 | 359 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.6 | 3.8 |
| 10°-20° | 182.6 | 10.8 |
| 20°-30° | 276.5 | 16.3 |
| 30°-40° | 330.3 | 19.5 |
| 40°-50° | 325.8 | 19.3 |
| 50°-60° | 252.3 | 14.9 |
| 60°-70° | 155.1 | 9.2 |
| 70°-80° | 81.2 | 4.8 |
| 80°-90° | 24.6 | 1.5 |
| 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° | 522.7 | 30.9 |
| 0°-40° | 853.0 | 50.4 |
| 0°-60° | 1431.1 | 84.6 |
| 0°-90° | 1692.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1692.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 671 | 671 | 671 | 671 | 671 | |
| 5° | 671 | 669 | 668 | 668 | 670 | 64 |
| 15° | 649 | 647 | 646 | 646 | 647 | 183 |
| 25° | 603 | 601 | 600 | 599 | 600 | 278 |
| 35° | 533 | 530 | 528 | 527 | 526 | 333 |
| 45° | 432 | 429 | 424 | 420 | 418 | 332 |
| 55° | 298 | 290 | 277 | 273 | 272 | 267 |
| 65° | 166 | 158 | 153 | 149 | 149 | 165 |
| 75° | 75 | 76 | 77 | 75 | 74 | 81 |
| 85° | 19 | 22 | 23 | 22 | 22 | 22 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 670.8 | 670.8 | 670.8 | 670.8 | 670.8 |
| 2.5° | 673.0 | 671.0 | 670.0 | 669.8 | 671.3 |
| 5° | 671.2 | 669.1 | 668.4 | 668.0 | 669.7 |
| 7.5° | 668.2 | 665.9 | 665.2 | 664.6 | 666.1 |
| 10° | 663.5 | 661.3 | 660.5 | 660.1 | 661.4 |
| 12.5° | 656.8 | 654.7 | 654.2 | 653.6 | 655.3 |
| 15° | 649.3 | 647.3 | 646.3 | 645.8 | 647.1 |
| 17.5° | 639.6 | 637.9 | 636.8 | 636.8 | 637.9 |
| 20° | 629.1 | 627.1 | 626.2 | 625.6 | 627.5 |
| 22.5° | 616.3 | 615.0 | 613.8 | 612.9 | 615.0 |
| 25° | 602.6 | 600.8 | 599.6 | 599.3 | 599.5 |
| 27.5° | 587.1 | 585.8 | 584.3 | 583.8 | 584.2 |
| 30° | 570.9 | 569.2 | 567.2 | 566.0 | 567.0 |
| 32.5° | 552.8 | 550.4 | 548.7 | 547.6 | 548.9 |
| 35° | 532.8 | 530.4 | 528.5 | 526.8 | 526.1 |
| 37.5° | 510.0 | 509.3 | 506.7 | 503.7 | 503.5 |
| 40° | 487.1 | 485.0 | 481.3 | 480.0 | 479.0 |
| 42.5° | 462.4 | 458.1 | 454.2 | 450.5 | 449.2 |
| 45° | 432.2 | 429.0 | 424.2 | 419.7 | 418.2 |
| 47.5° | 401.2 | 397.1 | 392.4 | 384.6 | 383.6 |
| 50° | 368.9 | 362.9 | 354.7 | 348.2 | 345.4 |
| 52.5° | 335.3 | 327.3 | 315.9 | 310.3 | 308.8 |
| 55° | 297.6 | 289.6 | 277.4 | 273.3 | 272.2 |
| 57.5° | 264.0 | 252.2 | 242.3 | 237.7 | 239.2 |
| 60° | 229.4 | 218.1 | 209.3 | 204.8 | 205.2 |
| 62.5° | 195.7 | 186.7 | 180.2 | 175.9 | 176.4 |
| 65° | 165.8 | 158.1 | 153.3 | 148.8 | 149.4 |
| 67.5° | 136.5 | 132.9 | 129.4 | 126.8 | 125.3 |
| 70° | 113.7 | 112.2 | 108.8 | 106.4 | 105.7 |
| 72.5° | 93.0 | 93.9 | 91.1 | 90.4 | 90.2 |
| 75° | 75.4 | 76.2 | 76.7 | 75.2 | 74.1 |
| 77.5° | 60.3 | 61.4 | 63.7 | 61.6 | 61.2 |
| 80° | 45.4 | 47.6 | 50.0 | 48.7 | 47.2 |
| 82.5° | 31.7 | 34.5 | 36.8 | 35.1 | 34.4 |
| 85° | 19.2 | 21.5 | 23.0 | 22.4 | 21.8 |
| 87.5° | 8.6 | 9.3 | 10.1 | 10.3 | 9.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)