

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: P738113

Luminaire Tested: **22PT-25-PR1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P506224)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-25-PR1-L840
Description: 2500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

Summary

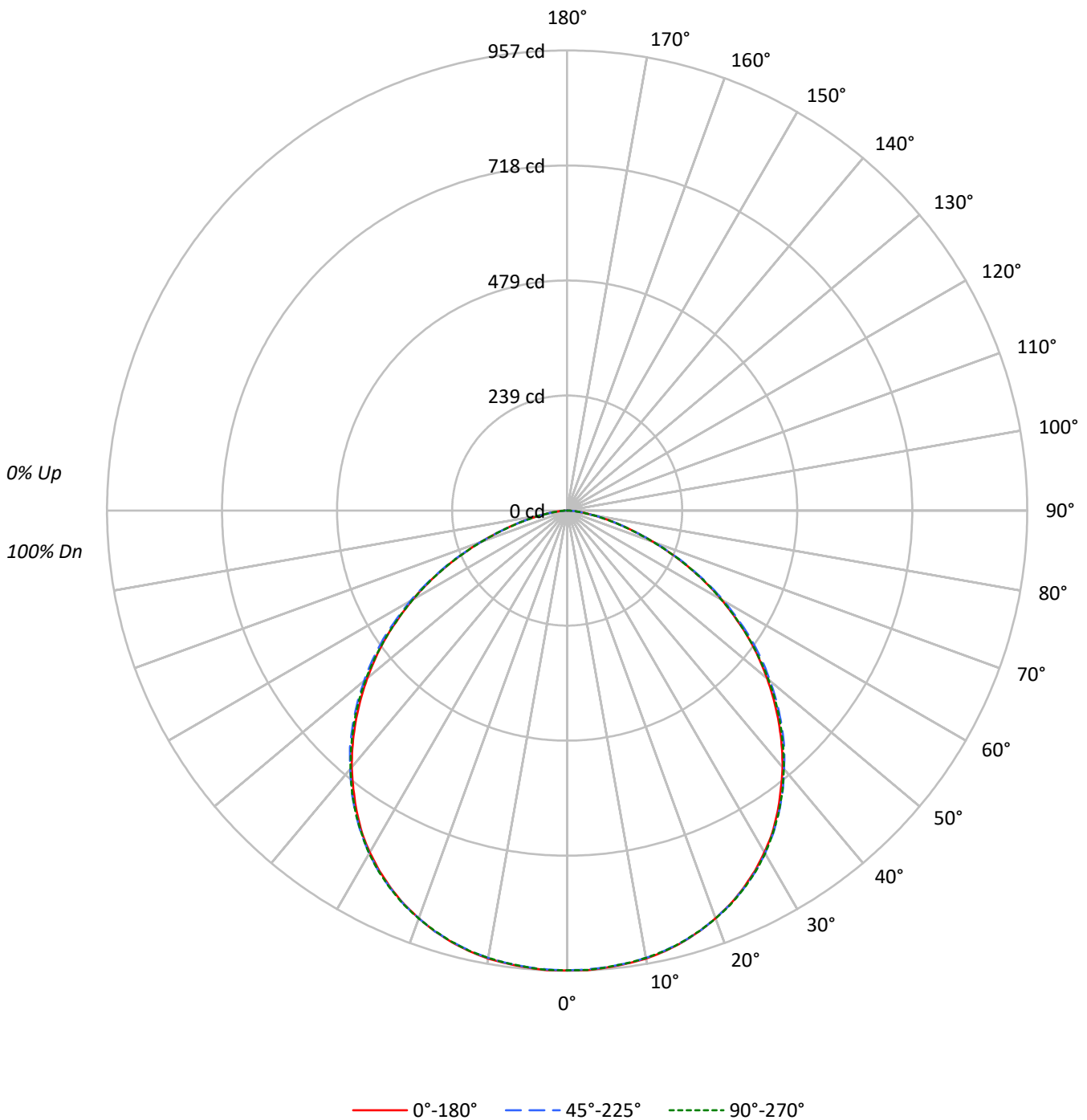
Lumens per Lamp: N/A
Luminaire Lumens: 2555.0 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 18.6
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: P738113

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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 | 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 | | | | | 100 | | | |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 88 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 63 | 61 | | | | | 61 | | | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 49 | 62 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 | | | | | 46 | | | |
| 6 | 71 | 58 | 50 | 43 | 70 | 58 | 49 | 43 | 56 | 48 | 43 | 54 | 48 | 43 | 52 | 47 | 42 | 40 | | | | | 40 | | | |
| 7 | 66 | 53 | 44 | 38 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 36 | | | | | 36 | | | |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | | | | | 32 | | | |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 29 | | | | | 29 | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2802 | 2802 | 2802 |
| 5° | 2806 | 2804 | 2804 |
| 10° | 2815 | 2810 | 2810 |
| 15° | 2818 | 2815 | 2816 |
| 20° | 2814 | 2813 | 2815 |
| 25° | 2802 | 2805 | 2808 |
| 30° | 2777 | 2785 | 2787 |
| 35° | 2730 | 2745 | 2744 |
| 40° | 2666 | 2684 | 2681 |
| 45° | 2579 | 2612 | 2599 |
| 50° | 2474 | 2512 | 2492 |
| 55° | 2349 | 2386 | 2352 |
| 60° | 2177 | 2207 | 2169 |
| 65° | 1943 | 1963 | 1940 |
| 70° | 1634 | 1634 | 1623 |
| 75° | 1280 | 1280 | 1267 |
| 80° | 938 | 926 | 923 |
| 85° | 612 | 612 | 625 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.7 | 3.6 |
| 10°-20° | 262.0 | 10.3 |
| 20°-30° | 399.7 | 15.6 |
| 30°-40° | 479.0 | 18.7 |
| 40°-50° | 483.8 | 18.9 |
| 50°-60° | 413.9 | 16.2 |
| 60°-70° | 279.1 | 10.9 |
| 70°-80° | 123.1 | 4.8 |
| 80°-90° | 23.6 | 0.9 |
| 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° | 752.4 | 29.4 |
| 0°-40° | 1231.4 | 48.2 |
| 0°-60° | 2129.1 | 83.3 |
| 0°-90° | 2555.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2555.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 956 | 956 | 956 | 956 | 956 | |
| 5° | 954 | 953 | 953 | 953 | 953 | 91 |
| 15° | 929 | 929 | 928 | 928 | 928 | 262 |
| 25° | 867 | 868 | 868 | 868 | 868 | 399 |
| 35° | 763 | 768 | 767 | 767 | 767 | 477 |
| 45° | 622 | 627 | 630 | 629 | 627 | 480 |
| 55° | 460 | 464 | 467 | 466 | 460 | 410 |
| 65° | 280 | 282 | 283 | 282 | 280 | 277 |
| 75° | 113 | 113 | 113 | 113 | 112 | 123 |
| 85° | 18 | 18 | 18 | 19 | 19 | 24 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 |
| 2.5° | 956.8 | 955.5 | 955.2 | 954.9 | 956.2 |
| 5° | 953.9 | 952.7 | 953.3 | 952.7 | 953.3 |
| 7.5° | 950.4 | 949.1 | 949.5 | 948.8 | 949.5 |
| 10° | 946.0 | 944.6 | 944.6 | 944.0 | 944.6 |
| 12.5° | 938.9 | 938.0 | 937.6 | 937.0 | 938.0 |
| 15° | 929.0 | 928.7 | 928.1 | 927.7 | 928.3 |
| 17.5° | 916.9 | 916.3 | 916.9 | 915.9 | 916.5 |
| 20° | 902.5 | 902.9 | 902.2 | 902.5 | 902.9 |
| 22.5° | 886.2 | 886.2 | 886.6 | 886.6 | 887.2 |
| 25° | 866.7 | 867.6 | 867.6 | 867.6 | 868.4 |
| 27.5° | 845.0 | 846.3 | 847.2 | 846.6 | 847.2 |
| 30° | 820.7 | 823.0 | 823.2 | 823.0 | 823.6 |
| 32.5° | 794.5 | 796.1 | 797.0 | 796.4 | 795.8 |
| 35° | 763.2 | 767.7 | 767.4 | 766.7 | 767.0 |
| 37.5° | 730.3 | 734.8 | 736.3 | 735.1 | 735.4 |
| 40° | 697.1 | 700.9 | 701.8 | 702.2 | 700.9 |
| 42.5° | 660.3 | 664.8 | 668.3 | 666.7 | 664.8 |
| 45° | 622.3 | 627.1 | 630.3 | 629.3 | 627.1 |
| 47.5° | 583.1 | 587.5 | 592.0 | 590.3 | 588.2 |
| 50° | 542.8 | 547.2 | 551.1 | 550.4 | 546.6 |
| 52.5° | 501.5 | 506.7 | 510.2 | 508.9 | 503.8 |
| 55° | 459.8 | 463.9 | 467.1 | 466.4 | 460.4 |
| 57.5° | 414.4 | 419.8 | 421.4 | 420.4 | 416.0 |
| 60° | 371.5 | 375.1 | 376.6 | 375.4 | 370.2 |
| 62.5° | 325.8 | 328.7 | 330.0 | 329.7 | 326.2 |
| 65° | 280.2 | 282.4 | 283.1 | 282.4 | 279.8 |
| 67.5° | 233.3 | 236.4 | 236.8 | 236.8 | 234.2 |
| 70° | 190.7 | 191.6 | 190.7 | 193.3 | 189.5 |
| 72.5° | 149.5 | 150.1 | 149.5 | 149.5 | 147.9 |
| 75° | 113.1 | 113.4 | 113.1 | 113.4 | 111.9 |
| 77.5° | 81.8 | 82.4 | 81.1 | 82.1 | 80.5 |
| 80° | 55.6 | 55.6 | 54.9 | 55.3 | 54.7 |
| 82.5° | 34.5 | 35.1 | 34.2 | 34.2 | 33.9 |
| 85° | 18.2 | 18.2 | 18.2 | 18.6 | 18.6 |
| 87.5° | 6.4 | 6.4 | 6.7 | 6.7 | 6.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)