

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: P412719

Luminaire Tested: **22PD-30-PP3-L935**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-30-PP3-L935  
Description: 3000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

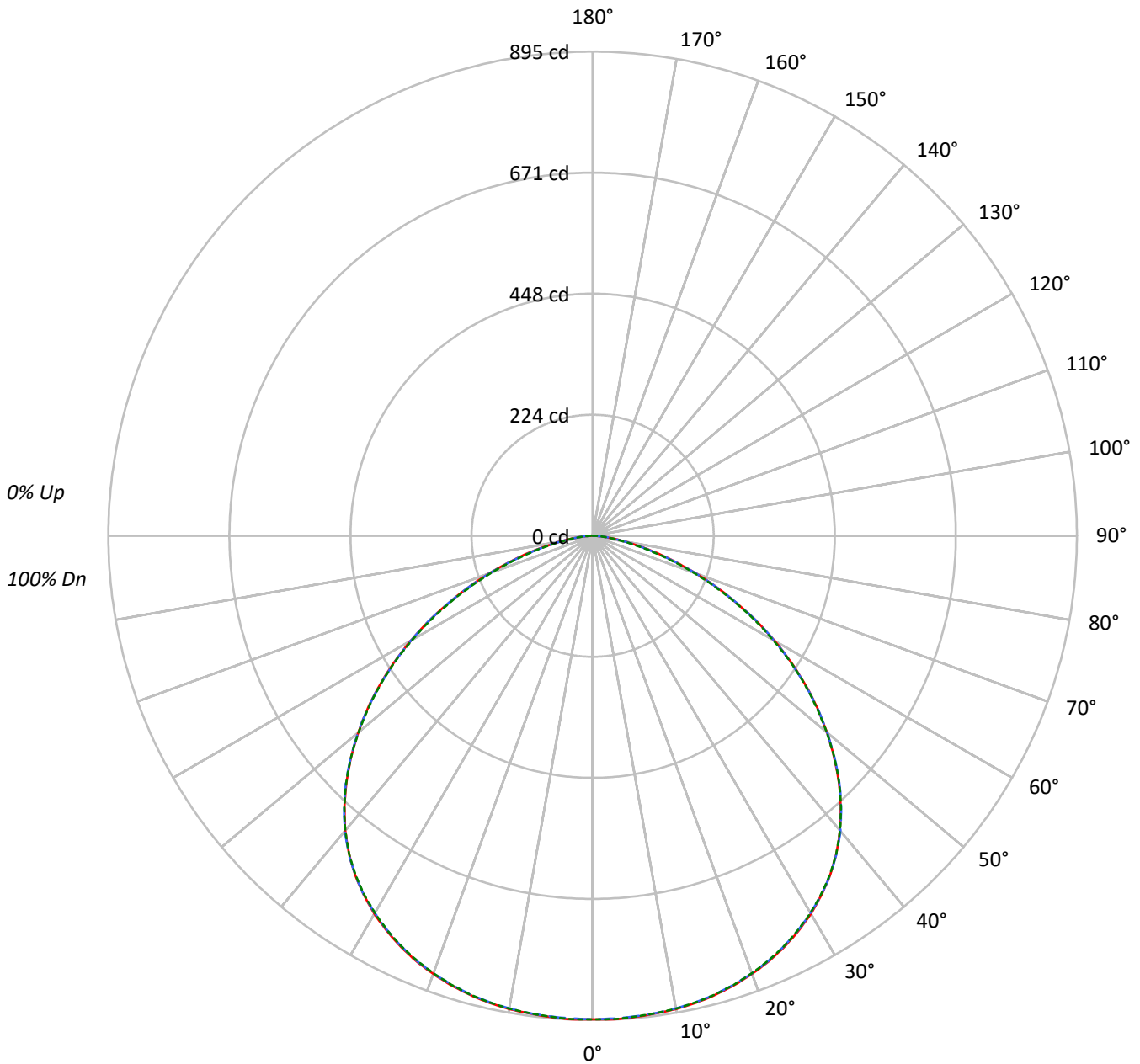
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2564.0 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 24.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 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  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |    |    |   |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |   |
| 4   | 84  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |    |    |   |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 47  | 57  | 51  | 47  | 45  |    |    |   |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 48  | 42  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |    |    |   |
| 7   | 66  | 52  | 44  | 38  | 64  | 51  | 43  | 37  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |   |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |   |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 28  |    |    |   |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |    |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2405 | 2405 | 2405 |
| 5°  | 2412 | 2409 | 2411 |
| 10° | 2427 | 2424 | 2426 |
| 15° | 2447 | 2444 | 2444 |
| 20° | 2468 | 2465 | 2464 |
| 25° | 2490 | 2485 | 2485 |
| 30° | 2507 | 2502 | 2501 |
| 35° | 2514 | 2514 | 2511 |
| 40° | 2498 | 2503 | 2498 |
| 45° | 2448 | 2455 | 2452 |
| 50° | 2366 | 2370 | 2363 |
| 55° | 2252 | 2247 | 2243 |
| 60° | 2091 | 2086 | 2070 |
| 65° | 1868 | 1866 | 1845 |
| 70° | 1596 | 1587 | 1552 |
| 75° | 1272 | 1235 | 1198 |
| 80° | 907  | 888  | 841  |
| 85° | 590  | 590  | 571  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.0   | 3.3       |
| 10°-20°   | 247.9  | 9.7       |
| 20°-30°   | 386.0  | 15.1      |
| 30°-40°   | 477.8  | 18.6      |
| 40°-50°   | 495.4  | 19.3      |
| 50°-60°   | 427.0  | 16.7      |
| 60°-70°   | 290.3  | 11.3      |
| 70°-80°   | 129.9  | 5.1       |
| 80°-90°   | 24.7   | 1.0       |
| 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°    | 718.9  | 28.0      |
| 0°-40°    | 1196.7 | 46.7      |
| 0°-60°    | 2119.0 | 82.6      |
| 0°-90°    | 2564.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2564.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 894 | 894   | 894 | 894   | 894 |      |
| 5°  | 893 | 891   | 892 | 892   | 892 | 85   |
| 15° | 878 | 877   | 877 | 877   | 877 | 248  |
| 25° | 838 | 837   | 837 | 837   | 837 | 387  |
| 35° | 765 | 764   | 765 | 764   | 764 | 478  |
| 45° | 643 | 643   | 645 | 644   | 644 | 495  |
| 55° | 480 | 478   | 479 | 478   | 478 | 428  |
| 65° | 293 | 296   | 293 | 292   | 290 | 291  |
| 75° | 122 | 123   | 119 | 118   | 115 | 132  |
| 85° | 19  | 20    | 19  | 18    | 18  | 25   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 893.7 | 893.7 | 893.7 | 893.7 | 893.7 |
| 2.5°  | 894.9 | 893.1 | 893.1 | 893.4 | 894.3 |
| 5°    | 893.1 | 891.3 | 891.9 | 891.6 | 892.5 |
| 7.5°  | 890.7 | 889.2 | 890.1 | 889.5 | 890.1 |
| 10°   | 888.3 | 886.8 | 887.1 | 886.8 | 887.7 |
| 12.5° | 884.1 | 882.3 | 882.9 | 882.9 | 883.2 |
| 15°   | 878.2 | 876.7 | 877.3 | 876.7 | 877.3 |
| 17.5° | 871.0 | 869.2 | 869.5 | 869.2 | 869.8 |
| 20°   | 861.7 | 860.5 | 860.8 | 860.2 | 860.5 |
| 22.5° | 851.3 | 849.8 | 850.1 | 849.5 | 849.5 |
| 25°   | 838.5 | 837.3 | 837.0 | 836.7 | 837.0 |
| 27.5° | 823.5 | 822.1 | 822.1 | 821.8 | 821.8 |
| 30°   | 806.8 | 805.3 | 805.3 | 805.0 | 805.0 |
| 32.5° | 787.1 | 786.5 | 786.8 | 786.2 | 786.0 |
| 35°   | 765.4 | 764.5 | 765.4 | 764.2 | 764.5 |
| 37.5° | 740.0 | 738.8 | 740.6 | 739.4 | 739.7 |
| 40°   | 711.1 | 710.5 | 712.5 | 711.7 | 711.1 |
| 42.5° | 678.8 | 678.8 | 679.7 | 680.0 | 679.4 |
| 45°   | 643.3 | 642.7 | 645.1 | 643.6 | 644.2 |
| 47.5° | 605.1 | 604.2 | 606.0 | 605.7 | 605.4 |
| 50°   | 565.1 | 564.5 | 566.0 | 564.5 | 564.5 |
| 52.5° | 523.7 | 523.4 | 523.7 | 522.2 | 521.9 |
| 55°   | 480.1 | 478.3 | 478.9 | 478.0 | 478.0 |
| 57.5° | 434.7 | 432.7 | 433.0 | 432.7 | 433.0 |
| 60°   | 388.5 | 387.9 | 387.6 | 386.1 | 384.6 |
| 62.5° | 341.1 | 341.7 | 341.4 | 339.3 | 337.8 |
| 65°   | 293.3 | 295.7 | 293.0 | 292.1 | 289.7 |
| 67.5° | 248.3 | 249.2 | 247.4 | 245.3 | 242.6 |
| 70°   | 202.9 | 204.7 | 201.7 | 199.6 | 197.2 |
| 72.5° | 159.6 | 160.8 | 158.1 | 157.0 | 154.0 |
| 75°   | 122.3 | 122.6 | 118.8 | 118.2 | 115.2 |
| 77.5° | 87.1  | 88.3  | 85.3  | 85.3  | 82.4  |
| 80°   | 58.5  | 60.6  | 57.3  | 56.4  | 54.3  |
| 82.5° | 36.7  | 37.0  | 36.1  | 35.2  | 34.3  |
| 85°   | 19.1  | 19.7  | 19.1  | 18.5  | 18.5  |
| 87.5° | 7.2   | 7.5   | 7.2   | 6.9   | 7.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)