

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: P385231

Luminaire Tested: **14ID-20-L835-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-20-L835-CNV  
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

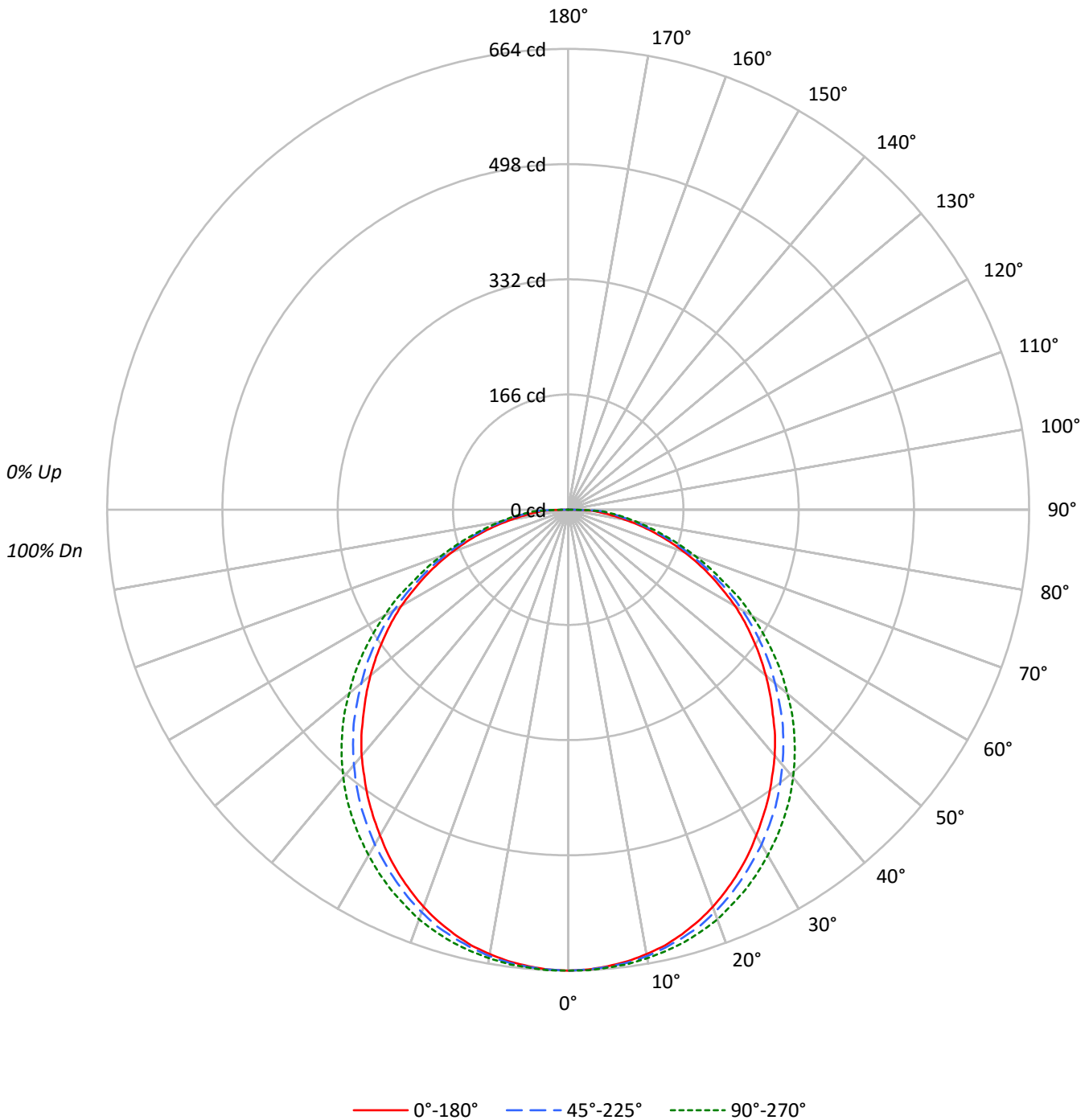
Lumens per Lamp: N/A  
Luminaire Lumens: 1926.5 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 16.4  
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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 108 | 103 | 99  | 94  | 105 | 101 | 97  | 93  | 96  | 93  | 90  | 93  | 90  | 87  | 89  | 87  | 85  | 82  |
| 2   | 98  | 90  | 82  | 77  | 95  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 70  | 68  |
| 3   | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 65  | 61  | 68  | 64  | 60  | 57  |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 40  | 33  | 28  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 30  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1787 | 1787 | 1787 |
| 5°  | 1777 | 1763 | 1763 |
| 10° | 1764 | 1740 | 1742 |
| 15° | 1745 | 1710 | 1721 |
| 20° | 1718 | 1677 | 1696 |
| 25° | 1684 | 1637 | 1664 |
| 30° | 1645 | 1595 | 1630 |
| 35° | 1608 | 1551 | 1594 |
| 40° | 1571 | 1500 | 1553 |
| 45° | 1523 | 1449 | 1503 |
| 50° | 1482 | 1384 | 1438 |
| 55° | 1437 | 1320 | 1367 |
| 60° | 1393 | 1241 | 1276 |
| 65° | 1329 | 1144 | 1161 |
| 70° | 1252 | 1038 | 1049 |
| 75° | 1163 | 921  | 919  |
| 80° | 1043 | 795  | 790  |
| 85° | 985  | 691  | 671  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.8   | 3.3       |
| 10°-20°   | 180.1  | 9.3       |
| 20°-30°   | 271.8  | 14.1      |
| 30°-40°   | 326.2  | 16.9      |
| 40°-50°   | 337.6  | 17.5      |
| 50°-60°   | 305.9  | 15.9      |
| 60°-70°   | 235.7  | 12.2      |
| 70°-80°   | 145.8  | 7.6       |
| 80°-90°   | 60.6   | 3.1       |
| 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°    | 514.8  | 26.7      |
| 0°-40°    | 841.0  | 43.7      |
| 0°-60°    | 1484.5 | 77.1      |
| 0°-90°    | 1926.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1926.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 664 | 664   | 664 | 664   | 664 |      |
| 5°  | 660 | 660   | 661 | 661   | 662 | 63   |
| 15° | 633 | 634   | 638 | 642   | 645 | 179  |
| 25° | 578 | 580   | 589 | 599   | 604 | 266  |
| 35° | 504 | 508   | 521 | 535   | 542 | 315  |
| 45° | 417 | 423   | 437 | 453   | 461 | 322  |
| 55° | 325 | 330   | 341 | 356   | 361 | 291  |
| 65° | 227 | 229   | 236 | 246   | 248 | 225  |
| 75° | 129 | 132   | 137 | 143   | 143 | 137  |
| 85° | 47  | 52    | 60  | 64    | 63  | 51   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 664.2 | 664.2 | 664.2 | 664.2 | 664.2 |
| 2.5°  | 663.2 | 663.2 | 663.2 | 663.2 | 664.2 |
| 5°    | 660.2 | 660.2 | 661.2 | 661.2 | 662.2 |
| 7.5°  | 656.2 | 656.2 | 658.2 | 658.2 | 660.2 |
| 10°   | 650.2 | 651.2 | 653.2 | 654.2 | 656.2 |
| 12.5° | 643.2 | 643.2 | 646.2 | 649.2 | 651.2 |
| 15°   | 633.2 | 634.2 | 638.2 | 642.2 | 645.2 |
| 17.5° | 622.1 | 623.1 | 629.2 | 633.2 | 637.2 |
| 20°   | 609.1 | 610.1 | 617.1 | 623.1 | 628.2 |
| 22.5° | 594.1 | 596.1 | 604.1 | 612.1 | 616.1 |
| 25°   | 578.1 | 580.1 | 589.1 | 599.1 | 604.1 |
| 27.5° | 561.0 | 564.0 | 573.1 | 584.1 | 590.1 |
| 30°   | 542.0 | 546.0 | 557.0 | 569.0 | 575.1 |
| 32.5° | 523.0 | 527.0 | 539.0 | 553.0 | 559.0 |
| 35°   | 503.9 | 507.9 | 521.0 | 535.0 | 542.0 |
| 37.5° | 482.9 | 486.9 | 500.9 | 515.9 | 524.0 |
| 40°   | 462.8 | 466.9 | 479.9 | 496.9 | 503.9 |
| 42.5° | 440.8 | 444.8 | 458.8 | 474.9 | 482.9 |
| 45°   | 416.8 | 422.8 | 436.8 | 452.8 | 460.8 |
| 47.5° | 394.7 | 399.7 | 412.8 | 429.8 | 437.8 |
| 50°   | 371.7 | 376.7 | 388.7 | 405.7 | 411.8 |
| 52.5° | 348.6 | 353.6 | 365.7 | 381.7 | 387.7 |
| 55°   | 324.6 | 329.6 | 340.6 | 355.7 | 360.7 |
| 57.5° | 301.6 | 305.6 | 315.6 | 329.6 | 333.6 |
| 60°   | 277.5 | 281.5 | 289.5 | 302.6 | 305.6 |
| 62.5° | 251.5 | 254.5 | 263.5 | 275.5 | 279.5 |
| 65°   | 227.4 | 229.4 | 236.4 | 246.5 | 247.5 |
| 67.5° | 202.4 | 204.4 | 211.4 | 218.4 | 221.4 |
| 70°   | 177.3 | 180.3 | 185.3 | 192.4 | 194.4 |
| 72.5° | 153.3 | 156.3 | 161.3 | 167.3 | 168.3 |
| 75°   | 129.2 | 132.2 | 137.3 | 143.3 | 143.3 |
| 77.5° | 106.2 | 109.2 | 115.2 | 120.2 | 120.2 |
| 80°   | 83.2  | 88.2  | 94.2  | 99.2  | 99.2  |
| 82.5° | 64.1  | 68.1  | 76.1  | 80.1  | 80.1  |
| 85°   | 47.1  | 52.1  | 60.1  | 64.1  | 63.1  |
| 87.5° | 34.1  | 39.1  | 46.1  | 49.1  | 48.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)