

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: P383908

Luminaire Tested: **14ID-45-L840-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-45-L840-CFR2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

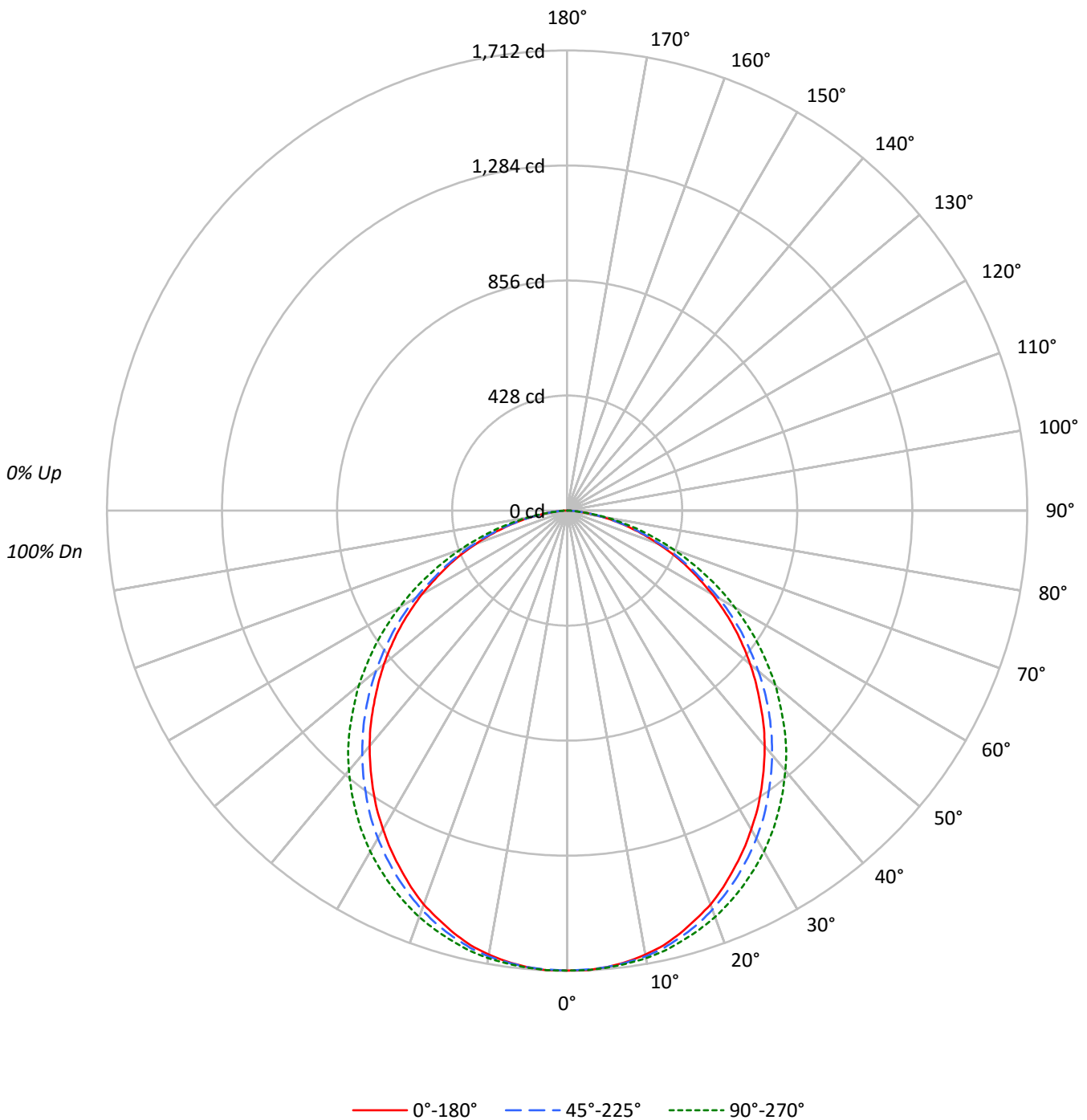
Lumens per Lamp: N/A  
Luminaire Lumens: 4518.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.5  
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  | 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   | 109 | 105 | 101 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |    |    |    |    | 85  |   |  |   |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |    |    |    |    | 71  |   |  |   |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  | 60  |    |    |    |    | 60  |   |  |   |
| 4   | 83  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 66  | 60  | 55  | 63  | 58  | 54  | 52  |    |    |    |    | 52  |   |  |   |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |    |    |    |    | 39  |   |  |   |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |    |    | 35  |   |  |   |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |    |    |    |    | 31  |   |  |   |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |    |    |    |    | 28  |   |  |   |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |    |    |    |    | 25  |   |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4606 | 4606 | 4606 |
| 5°  | 4605 | 4605 | 4611 |
| 10° | 4584 | 4602 | 4621 |
| 15° | 4535 | 4573 | 4617 |
| 20° | 4467 | 4525 | 4609 |
| 25° | 4362 | 4456 | 4584 |
| 30° | 4256 | 4375 | 4551 |
| 35° | 4142 | 4276 | 4499 |
| 40° | 4016 | 4167 | 4437 |
| 45° | 3868 | 4041 | 4351 |
| 50° | 3725 | 3886 | 4236 |
| 55° | 3558 | 3718 | 4078 |
| 60° | 3363 | 3509 | 3874 |
| 65° | 3128 | 3229 | 3618 |
| 70° | 2832 | 2939 | 3313 |
| 75° | 2471 | 2566 | 2896 |
| 80° | 1999 | 2035 | 2281 |
| 85° | 1189 | 1328 | 1118 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 162.0  | 3.6       |
| 10°-20°   | 463.1  | 10.2      |
| 20°-30°   | 692.7  | 15.3      |
| 30°-40°   | 818.4  | 18.1      |
| 40°-50°   | 825.8  | 18.3      |
| 50°-60°   | 717.2  | 15.9      |
| 60°-70°   | 514.3  | 11.4      |
| 70°-80°   | 267.9  | 5.9       |
| 80°-90°   | 56.5   | 1.3       |
| 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°    | 1317.8 | 29.2      |
| 0°-40°    | 2136.2 | 47.3      |
| 0°-60°    | 3679.3 | 81.4      |
| 0°-90°    | 4518.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4518.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1712 | 1712  | 1712 | 1712  | 1712 |      |
| 5°  | 1705 | 1702  | 1705 | 1705  | 1707 | 162  |
| 15° | 1628 | 1630  | 1641 | 1653  | 1657 | 459  |
| 25° | 1469 | 1478  | 1501 | 1530  | 1544 | 677  |
| 35° | 1261 | 1270  | 1302 | 1349  | 1370 | 788  |
| 45° | 1016 | 1028  | 1062 | 1116  | 1143 | 785  |
| 55° | 758  | 765   | 792  | 844   | 869  | 677  |
| 65° | 491  | 489   | 507  | 546   | 568  | 486  |
| 75° | 238  | 235   | 247  | 265   | 278  | 254  |
| 85° | 38   | 43    | 43   | 38    | 36   | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1711.5 | 1711.5 | 1711.5 | 1711.5 | 1711.5 |
| 2.5°  | 1711.5 | 1709.2 | 1709.2 | 1709.2 | 1711.5 |
| 5°    | 1704.7 | 1702.4 | 1704.7 | 1704.7 | 1707.0 |
| 7.5°  | 1693.4 | 1691.1 | 1695.6 | 1697.9 | 1700.2 |
| 10°   | 1677.5 | 1677.5 | 1684.3 | 1688.8 | 1691.1 |
| 12.5° | 1657.1 | 1657.1 | 1666.2 | 1673.0 | 1677.5 |
| 15°   | 1627.7 | 1630.0 | 1641.3 | 1652.6 | 1657.1 |
| 17.5° | 1593.8 | 1600.5 | 1614.1 | 1630.0 | 1634.5 |
| 20°   | 1559.8 | 1564.3 | 1580.2 | 1600.5 | 1609.6 |
| 22.5° | 1516.8 | 1523.6 | 1541.7 | 1568.9 | 1577.9 |
| 25°   | 1469.2 | 1478.3 | 1500.9 | 1530.4 | 1544.0 |
| 27.5° | 1421.7 | 1428.5 | 1455.7 | 1489.6 | 1505.5 |
| 30°   | 1369.6 | 1378.7 | 1408.1 | 1446.6 | 1464.7 |
| 32.5° | 1317.6 | 1324.4 | 1358.3 | 1399.1 | 1419.4 |
| 35°   | 1261.0 | 1270.0 | 1301.7 | 1349.3 | 1369.6 |
| 37.5° | 1202.1 | 1213.4 | 1245.1 | 1294.9 | 1317.6 |
| 40°   | 1143.2 | 1150.0 | 1186.3 | 1236.1 | 1263.2 |
| 42.5° | 1082.1 | 1091.2 | 1125.1 | 1179.5 | 1206.6 |
| 45°   | 1016.5 | 1027.8 | 1061.8 | 1116.1 | 1143.2 |
| 47.5° | 953.1  | 964.4  | 996.1  | 1050.4 | 1075.3 |
| 50°   | 889.7  | 896.5  | 928.2  | 982.5  | 1011.9 |
| 52.5° | 824.0  | 830.8  | 860.3  | 912.3  | 939.5  |
| 55°   | 758.4  | 765.2  | 792.4  | 844.4  | 869.3  |
| 57.5° | 690.5  | 695.0  | 722.2  | 769.7  | 794.6  |
| 60°   | 624.8  | 627.1  | 652.0  | 695.0  | 719.9  |
| 62.5° | 554.6  | 556.9  | 575.0  | 624.8  | 647.5  |
| 65°   | 491.3  | 489.0  | 507.1  | 545.6  | 568.2  |
| 67.5° | 425.6  | 425.6  | 441.5  | 475.4  | 493.5  |
| 70°   | 360.0  | 360.0  | 373.5  | 403.0  | 421.1  |
| 72.5° | 298.8  | 298.8  | 310.1  | 332.8  | 346.4  |
| 75°   | 237.7  | 235.4  | 246.8  | 264.9  | 278.5  |
| 77.5° | 181.1  | 181.1  | 185.6  | 201.5  | 210.5  |
| 80°   | 129.0  | 129.0  | 131.3  | 140.4  | 147.2  |
| 82.5° | 81.5   | 81.5   | 81.5   | 86.0   | 88.3   |
| 85°   | 38.5   | 43.0   | 43.0   | 38.5   | 36.2   |
| 87.5° | 18.1   | 18.1   | 15.8   | 15.8   | 15.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)